



Report on the 2011 geochemical and geological work on the STW property

Work conducted: June 10, 2011 – August 26, 2011

Claim names	Grant numbers
STW 1 – 146	YD69503 – YD69648
STW 146 – 230	YD90316 – YD90399

Mayo mining district, Yukon Territory

NTS map sheets: 106C/01, 106B/04

Coordinates: 641000E 7108000N (NAD83, UTM zone 8)

Owner & Operator:

Rackla Metals Inc.
650—200 Burrard Street
Vancouver, British Columbia
V6C 3L6

Author:

David Clark, M.Sc., P.Geo.

1. Abstract

The STW property is located approximately 190 km east-northeast of Mayo, Yukon Territory. The STW claims, subject of this report, consist of 230 two-post Yukon Quartz claims. Together, the claims make up the STW property and collectively cover an area of approximately 4800 hectares. The property is 100% owned by Rackla Metals Inc.

Access to the property can be gained by helicopter from the Rackla River airstrip, which is itself accessible by fixed wing aircraft either from the Mayo or Whitehorse airports. The nearest road is at Mayo.

The STW claims overlie sedimentary rocks of the Selwyn Basin, transitional from deep water clastic rocks to platform carbonates. The rocks underlying the STW claims are part of the Hyland Group, the oldest exposed rocks in the Selwyn Basin. These same strata host the Atac Resources' Nadaleen-trend Au-targets, recently identified as Carlin-type Au systems. The STW property abuts Atac's property, and its Osiris, Conrad, and Isis targets are less than 4 km away from the northwestern boundary of the STW property. The Dawson thrust and Kathleen lakes fault, both important mineralization-bounding structures identified by Atac Resources, appear to strike onto the STW property.

A significant soil, stream, and rock sampling program was undertaken in the summer of 2011, in addition to geological mapping, and a magnetic and radiometric airborne geophysical survey. A total of 7803 samples were collected: 7577 soils, 95 silts, 8 BLEG, and 123 rocks. Soil samples contained anomalous values for Au (up to 220 ppb), Tl (up to 50 ppm), As (up to 8468 ppm), as well as anomalous Sb and Hg. The soil samples define a long > 3 km geochemical anomaly in the eastern half of the property, associated with limestones in a complex folded domal feature, with local anomalous highs associated with fold hinges or fault structures. Rock samples from the same area returned values up to 292 ppb Au.

Proposed future work consists of additional geological mapping and prospecting to better define existing anomalies with a view to defining trenching targets. Mechanized trenching is recommended over targets defined by the proposed follow-up work. Should the above work yield positive results, diamond drilling is recommended.

2. Contents

1. Abstract.....	i
3. Introduction	1
a) Location and access	1
b) Topography, vegetation, and climate	3
c) History.....	3
d) Claim status.....	3
4. Regional geology.....	5
5. Property geology.....	5
6. 2011 Work program.....	7
a) Geological mapping	7
b) Soil, stream, and rock sampling	8
c) Geophysical survey	9
7. Geochemical results.....	9
8. Recommendations for future work	10
9. Statement of costs	11
10. Statement of qualifications.....	12
11. References	13
Appendix A: List of quartz claims on STW property	14
Appendix B: Selected geochemistry	18
a) Soil geochemistry – selected elements.....	18
b) Stream silt geochemistry – selected elements	142
c) BLEG geochemistry – selected elements	145
d) Rock geochemistry – selected elements.....	147
Appendix C: Analytical certificates.....	150
Appendix D: Precision GeoSurveys Inc. report	1426

List of Figures

Figure 1: Sample location map 2

Figure 2: Claim map (map pocket)

Figure 3: Geology map (map pocket)

Figure 4a, b: Sample location maps (map pocket)

Figure 5a to e: Soil sample results: Au, As, Tl, Sb, Hg (map pocket)

Figure 6: Rock and stream silt results: Au..... (map pocket)

3. Introduction

The purpose of this report is to fulfill Yukon Government mineral claim assessment requirements on the STW 1 – 230 claims. The STW property consists of 230 two-post mineral claims (Yukon quartz claims), staked in 2010 and owned 100% by Rackla Metals Inc.

Work in 2011 consisted of initial ridge-and-spur reconnaissance soil sampling and stream sediment sampling, and was followed up by detailed grid soil sampling, where the results warranted. In total, 7803 surface samples collected from the property and sent for assay. In addition, an airborne magnetic and radiometric survey was undertaken, as well as preliminary geological mapping of property. Total eligible expenditures on the property amount to \$694,000.

This report describes the location, access, history and geological setting of the STW claims, the known property geology, the work performed and results of the 2011 work program, a statement of costs, as well as an outline of a proposed exploration program to further explore the property.

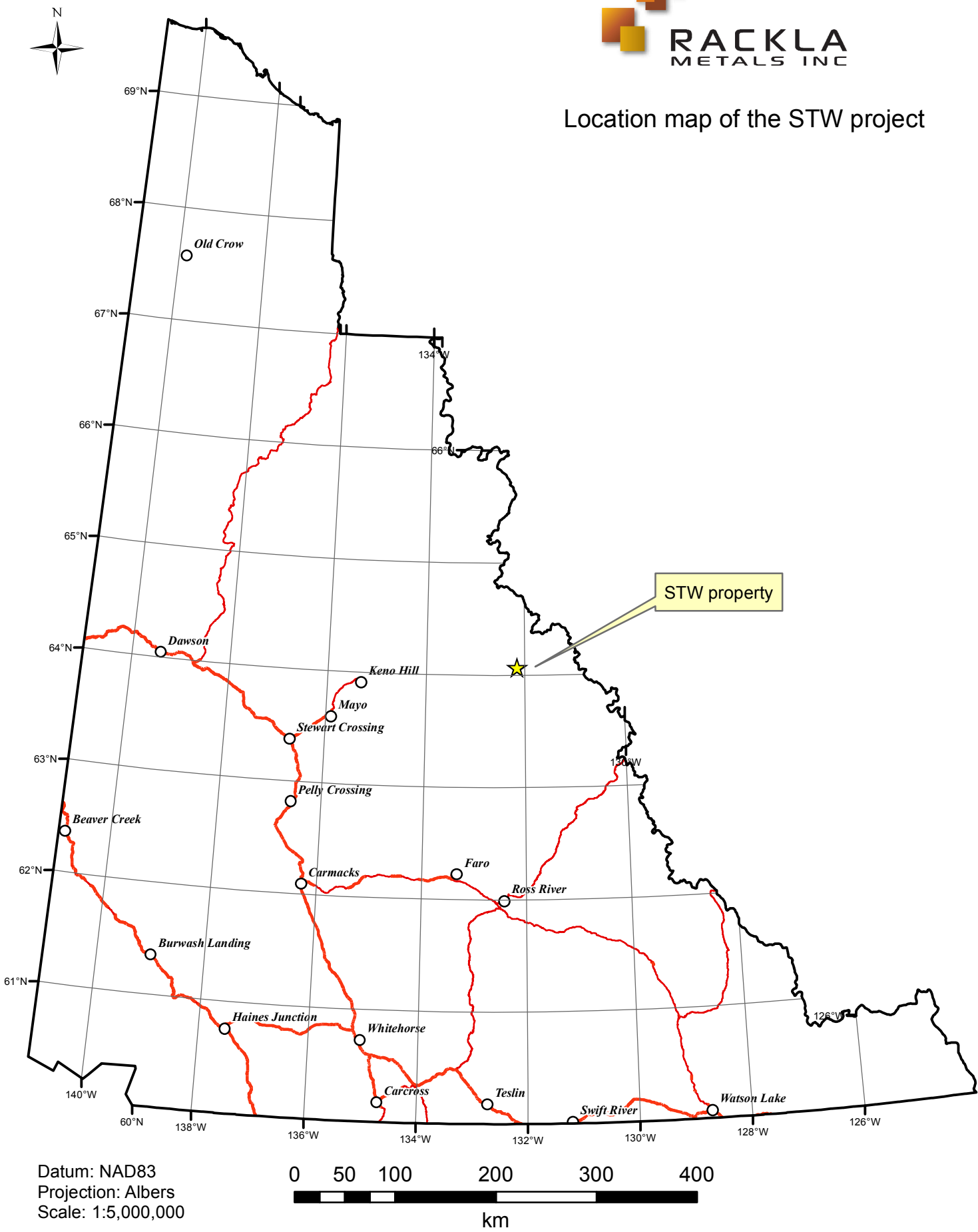
a) Location and access

The STW property is located in the Mayo Mining District, in the Selwyn Mountains approximately 190 km east-northeast of Mayo, Yukon Territory, some 3 km north of the Stewart River, and 46 km east-southeast of the Rackla River airstrip (Fig. 1). The property covers NTS map sheets 106C/01 and 106B/04, and spans UTM zones 8 and 9.

Access to the property can be gained by small fixed-wing aircraft from Whitehorse or Mayo to the Rackla River airstrip, and from there by helicopter to the property. The Mayo airstrip is located in Mayo, Yukon Territory, 407 km by maintained 2-lane paved highway to the north of Whitehorse. Mayo is reached by taking the Klondike Highway (YT-2 N) from Whitehorse to Stewart Crossing, and highway YT-11 E from Stewart Crossing to Mayo. From Whitehorse, daily jet airplane service can be gained to Vancouver, British Columbia, and other points south.



Location map of the STW project



b) Topography, vegetation, and climate

Terrain in the region is rugged and mountainous, with elevations ranging from 800 m on the Stewart River to 1675 m on the highest mountain tops on the property. The hillsides are steep and covered with a veneer of locally-derived colluvium and talus. Drainages are incised and steep. The property drains into the Stewart River, which is part of the Yukon River drainage system.

Vegetation in the valley bottoms consists of alders and often thick black spruce. The higher elevations are largely treeless, with alpine plants, moss, and small alders and buck brush dominating. Both black and grizzly bears are common, as are caribou and moose.

Climate is sub-arctic, characterized by cool, short summers with temperatures between 5 °C and 20 °C, and long, cold winters, with temperatures frequently below -30 °C. The window for exploration is generally between June and September.

c) History

The region surrounding the STW claims has been explored for base metals since the mid-1970s, and several occurrences are documented in Yukon Minfile reports. The closest of these to the STW claims is the Birkeland occurrence (Yukon Minfile 106B 024), explored by McIntyre Mines Ltd. (1974 ###). The occurrence is located 6 km north of the eastern edge of the STW property, and was staked as the Tom & Mom claims in 1974 by McIntyre Mines Ltd. Mapping and follow up trenching and drilling proceeded in both 1974 and 1975. Numerous stratabound carbonate-hosted sphalerite-galena showings were discovered, with trench assays of up to 25% combined Pb-Zn. The best intersection in drill core assayed 4.4% Zn, 0.5% Pb, and 2.7 ppm Ag over 1.8 m.

More recently, the region has seen renewed interest in gold exploration, with Atac Resources staking a large position across the east-west informally-named Rackla belt. The Osiris, Conrad, and Eaton showings are located 4 km to the NNW of the western edge of the STW property. Highlights from the 2010 and 2011 exploration drill programs on these showings include: 65.2 m of 4.65 ppm Au (Osiris) and 114.93 m of 3.15 ppm Au (Conrad). The showings have been interpreted as being true Carlin-type, and the possibility of a new Carlin-type district in the Selwyn Basin sparked a staking and exploration rush in 2010 and 2011.

The STW claims were staked by Radius Gold Inc. in 2010, as the significance of the Atac Resources discoveries at Osiris, Isis, and Conrad had begun to be understood, with plans to explore for Carlin-type gold systems in the summer of 2011. Radius subsequently spun out its Yukon portfolio of properties into a new corporation, Rackla Metals Inc., in the fall of 2011, including the STW property. The work described in this report was conducted by Radius prior to the spin-out.

d) Claim status

The STW property covers an area of approximately 4800 ha, and consists of 230 un-surveyed contiguous 2-post Yukon 'Quartz' claims (Fig. 2). A summary of claims is given in Table 1, with a full claim list in Appendix 1. The claims were staked in accordance with the Yukon Quartz Mining Act and are located in

the Mayo Mining District. They are shown on claim sheets 106C/01 and 106B/04. Hard copy claim maps are available for viewing at the Mayo Mining Recorder's office, or via the Yukon Mining Recorder's website.

It should be noted that on Fig. 1, and on all subsequent maps of the STW property, the easternmost ~ 3 km of the claims lie in UTM zone 9, whereas the rest of the property lies in zone 8. For ease of plotting, all maps are projected in UTM zone 8, projecting zone 8 into zone 9. Samples falling in zone 9 thus appear to have zone 8 coordinates. All location coordinates reported in the appendices and elsewhere are given in their proper native UTM zone, however.

Table 1: STW Summary claim list

* Expiry date subject to acceptance of this report

Name	Grant numbers	Expiry date *
STW 1 – 146	YD69503 – YD69648	2016-03-31
STW 146 – 230	YD90316 – YD90399	2016-03-31

4. Regional geology

The STW claims lie in the northeastern part of the Selwyn Basin, a paleo-geographic feature consisting of Neoproterozoic to Paleozoic slope-to-basin facies sedimentary strata. These represent sediment accumulation in a spreading margin environment, deposited on the northwestern margin of ancient North America. They have been interpreted as the slope-to-basin sediments on the lower plate of an asymmetric rift system associated with the breakup of the Rodinia supercontinent, (cf. Lister et al., 1986) and range from deep water shales, turbidite sequences, to transitional carbonate shelf sediments. Basement rocks are presumed to be thinned continental crust (Armstrong, 1988).

The Selwyn Basin rocks are variably folded and faulted and merge to the northeast with the Mackenzie platform foreland fold-and-thrust belt, representing the furthest inboard components of the passive margin sediments overthrust onto the North American craton, and to the southwest are juxtaposed to the accreted and dextrally offset Yukon—Tanana and Cassiar terranes (Mair et al., 2005).

Orogeny commenced in the Late Jurassic, with the closure of the passive margin basin and with the collision of the allochthonous units of the composite Yukon-Tanana terrane with the North American margin. Folding and thin-skinned thrust sheets accompanied by intense internal deformation were developed within the Selwyn Basin rocks (possibly in part along pre-existing extensional structures), the most important of which are, from north to south, the Dawson, Tombstone, and Robert Service thrust faults. The Dawson thrust, which marks the transition between the Mackenzie Platform and the Selwyn Basin, is thought to represent a major pre-thrust deformation basin-bounding structure. Orogenesis was ongoing into the Cretaceous; magmatism followed, emplacing plutons and volcanic units in both the Yukon—Tanana terrane and the Selwyn Basin (Woodsworth et al., 1991).

The initiation of subduction of the Kula plate during the late Cretaceous introduced orogen-parallel stress to the accreted and passive margin terranes, causing 400-500 km of dextral displacement along the Tintina fault, which separates the Yukon-Tanana exotic terranes from the Selwyn Basin rocks (e.g. Mortensen et al., 2000). Reconstructions to dextral-displacement place the Selwyn Basin rocks adjacent to what is now the Yukon-Tanana terrane rocks in east-central Alaska.

5. Property geology

Stratigraphically, the STW property is located within some of the oldest exposed sediment sequences in the Selwyn Basin, and in general consists of alternating sequences of clastic and carbonate rocks belonging to the Hyland Group. The close proximity of the Dawson fault, suggests that the rocks underlying the STW property are represent transitional sedimentary facies from the carbonate platform to the deeper water environment. The exact geometry and location of the Dawson thrust with respect to the STW property is currently unknown; existing maps show it to terminate approximately 1.5 km west of the STW property boundary. Atac Resources have identified both the Dawson thrust and the regional (and parallel) Kathleen Lakes fault as important structures bounding the Osiris, Conrad, and Isis deposits. Both the faults should strike onto the STW property, if their expression continues eastwards, but further mapping work is necessary to determine this. The Yukon Geological Survey is expected to map the area in detail in the summer of 2012, which will no doubt help future interpretations.

Mineralization at Atac Resources' neighbouring Nadaleen-trend deposits (Osiris, Isis, Conrad) is described as stratabound in silty carbonate hosts, and associated with deep-seated ancient faults. Gold is cryptic, with a high correlation of pathfinder elements arsenic, antimony, mercury, and thallium. The arsenic minerals realgar and orpiment are observed in core, in trench, and occasionally as flecks in soil and talus (Atac 2012).

Au-in-soil anomaly maps over the Nadaleen trend targets show a range in concentrations, from maximums of 100-200 ppb over the centre of the buried Conrad showing, to > 1000 ppb Au over the exposed-at-surface Osiris showing.

6. 2011 Work program

The 2011 work program on the STW claims was carried out by Radius Gold Inc. personnel and sub-contractors between June 10, 2011, and August 26, 2011. A 20-man exploration camp consisting of wall-tents and temporary wooden structures was established on the northeastern side of the Rackla airstrip, located approximately 46 km west-northwest of the geographic centre of the STW property. Archer Cathro, operators of the Atac Resources projects, ran a large exploration camp located on the southwest side of the airstrip. Other nearby stake holders also used the airstrip as a staging point at various times during the summer.

Access to the property was by Bell 206L helicopter, provided by Peak Helicopters of Parksville, British Columbia. Provisions, equipment, and crew-changes were flown in from Whitehorse and Mayo by Alkan Air, operating a variety of chartered fixed-wing aircraft. Radius personnel designed and oversaw the work program, providing geologists and samplers, and Casselman Geological Services of Whitehorse, Yukon, built and operated the camp, and provided the camp manager, cook, and soil sampling crews.

The 2011 work program consisted of a helicopter-borne magnetic and radiometric survey, contracted to Precision Geophysics, of Vancouver, British Columbia, geological mapping, and soil, stream sediment, and rock sampling.

a) Geological mapping

In 2011, the STW property was mapped by Grant Abbott (formerly with the Yukon Geological Survey) over the course of a two-day site visit (Fig. 3). He describes the geology as follows (Abbott, 2011):

“The STW Claims are underlain by a sequence of clastic and carbonate rocks at least 2 km thick that correlates with the Early Cambrian and Neoproterozoic Hyland Group. The Hyland Group includes the oldest exposed rocks in the Selwyn Basin and is at least 3 km thick. The STW sequence includes two distinct carbonate packages separated by recessive shale-dominated clastic rocks. The uppermost unit of maroon and green shale and siltstone closely resembles the Narchilla Formation, the highest member of the Hyland Group. Underlying carbonates are assigned to the Algae Lake Formation. Strata below the Algae Lake Formation do not closely resemble the Yusezu Formation which underlies the Algae Lake Formation elsewhere and are therefore not named, but are still considered to belong to the Hyland Group. The siliciclastic rocks beneath the Algae Lake Formation contain lithologies like those in the Yusezu Formation but shale is dominant and coarser clastic rocks only form a single horizon about 50 m thick. In contrast, the Yusezu Formation is more than 2 km thick and consists primarily of arkosic sandstone and grit interbedded with lesser amounts of siltstone and shale. The orange and grey carbonates near the base of the sequence are not known to occur in the Hyland Group elsewhere, but other equivalent strata are also not known.

Structures on the property can be divided into an eastern and a western domain separated by a north trending vertical fault near the center of the claim block. The western domain consists of a simple east-west trending, steeply south dipping, upright panel comprised of the Narchilla Formation, the Algae Lake Formation and underlying unnamed shales. The eastern domain consists of a complex domal feature bounded to the southwest and southeast by the Narchilla Formation, with the oldest strata in the center.

The configuration to the north remains undefined. Smaller scale structures consist primarily of tight northwest to westerly trending folds with wavelengths of about 100 m. Strata along the southeast margin of the property strike consistently northeast at right angles to the folds suggesting an interference pattern resulting from two phases of deformation. It is unclear which phase came first."

b) Soil, stream, and rock sampling

A total of 7803 samples were collected: 7577 soils, 95 silts from stream sediments, 8 BLEG (bulk leach extractable gold) from stream sediments, and 123 rock hand samples from outcrop or float. Hand-held GPS units were used to record sample locations. Figs. 4a and 4b show sample locations for all samples. Soil, stream, and rock samples were shipped to Acme Analytical's sample preparation facility in Whitehorse for preparation and processing, and forwarded to their Vancouver laboratory for analysis for all samples except the BLEG samples, which were analysed at their laboratory in Santiago, Chile.

First pass sampling consisted of ridge and spur collection of soils. At elevations above treeline, very little O or A horizon soils exist, with most samples consisting of fine-grained talus material from uphill outcrop or subcrop, or more or less in place C horizon material. Below tree level, the generally thick organic cover made it difficult to obtain any kind of quality B or C horizon soil, so sampling in deep valleys or in southern third of the property, which slopes down towards the Stewart River, is limited. The early summer soil sampling showed the property's potential, and a follow-up grid-based soil sampling program was designed for mid-summer. The complex domal feature in the eastern third of the property was sampled on a 50m x 50m grid. The western domain was sampled at 50 m intervals along 100 m spaced north-south lines. All soil samples were obtained by either a trowel or hand auger, as required, stored in paper Kraft soil sample bags and dried at camp prior to shipping. All soil samples were sent to Acme Analytical's sample preparation facility in Whitehorse, Yukon, where they were dried at 60C and sieved to 80-mesh. Samples were analysed in the Vancouver laboratory. A 15 gram aliquot were digested in Aqua Regia and analysed for a 53 element suite by ICP-MS (Acme method code 1F05).

Most drainages on the property were sampled for stream silts. Silts were collected from potential heavy mineral trap sites, sieved to 80-mesh, and stored in plastic sample bags. In addition, particular sites were chosen for BLEG (bulk leach extractable gold) analysis in addition to the regular silt analysis. Silts were forwarded to Acme's preparation facility in Whitehorse, Yukon, where they were dried and sieved to 150-mesh. Samples were analysed in the Vancouver laboratory. A 30 gram aliquot was digested in Aqua Regia and analysed for a 37 element suite by ICP-MS (Acme method code 1F03). In addition, a 50 g aliquot was fused by lead collection fire assay and analysed for Au by ICP-ES (Acme method code 3B01+3B04).

Rocks were collected from outcrop, subcrop and float. These were sent to Acme's sample preparation facilities in Whitehorse for crushing. Samples were pulverized to 200-mesh, and analysed in the Vancouver laboratory. A 30 g aliquot was fused by lead-collection fire assay and analysed for Au by ICP-ES finish (Acme method code 3B01). A 0.5 aliquot was digested in Aqua Regia and analysed for a 36 element suite by ICP-MS (Acme method code 1DX1). Any overlimits were digested by hot 4-acid digestion, with ICP-ES finish (Acme method code 7TD).

Maps with results for selected elements are presented in Section 7 of this report, a table of coordinates and geochemical results for selected elements is given in Appendix B, and analytical certificates are included in Appendix C.

c) Geophysical survey

Precision GeoSurveys Inc., of Vancouver, British Columbia, was contracted to undertake a helicopter-borne magnetic and radiometric survey of the STW property. The survey was performed between July 25th and July 28th, 2011. The full report from Precision Geophysics for this survey is reproduced in Appendix D.

7. Geochemical results

The bulk of the 2011 exploration effort was directed towards a comprehensive and tightly spaced soil grid over the property, with particular emphasis on areas of structural complexity. As such, the western half of the property was covered by 50 m spaced samples on 100 m spaced lines, whereas the domal feature in the eastern half of the property was covered by a 50 x 50 m grid.

Maps showing results for the elements Au, As, Tl, Sb, and Hg for all soil samples collected during the 2011 field season are shown in Figs. 5a to 5e. The underlying lithologies, as described in Section 6a of this report, are also shown in outline for comparison with the geological map. Symbol levels were chosen by Jenks natural breaks optimization, then rounded to the nearest convenient whole multiple for ease of discussion and presentation.

The soil results show good spatial correlation for anomalies for all the elements of interest. The domal feature mapped in the eastern part of the property shows the largest areas of anomalous geochemistry, with the limestone lithologies (NPgl and the Algae Lake formation, NPAL) and/or associated shales appearing to be hosts of coincident Au-As-Tl-Sb-Hg anomalies, particularly associated with fold hinges and/or potential fault structures. Au-in-soil concentrations in this zone reach up to 220 ppb; however, consistent with exploration results reported on the Atac Resources' Nadaleen property (Atac, 2012), Au-in-soil concentrations of > 10 ppb are considered anomalous. The magnitude of the aggregate soil anomaly (in all geochemical spaces) is uncertain due to the steep topography and potential for mobility of surficial materials, but appears to be > 3 km long, and that mostly along strike of the favourable limestone lithologies.

Rock and stream sediment sampling was much more limited in scope than soil sampling. Results for Au are shown in Fig. 6. Stream sediment results were not considered to be significant, and the limited rock sampling results were generally low, with the exception of a cluster of Au-anomalous samples (up to 135 ppb Au) located near the southern fold hinge of the domal feature, also associated with a significant Au-As-Tl-Sb-Hg soil anomaly. One other sample from the domal feature, located near the northern property boundary, assayed 292 ppb Au.

8. Recommendations for future work

Analytical results from the 2011 soil sample geochemical program located a number of gold in soil anomalies. These anomalies may indicate the presence of a significant precious metal hydrothermal system with the best results and most favorable area being the east side of the property where a broad (approximately 3 km by 2 km multi element anomaly) was identified. Anomalous analytical results from soil samples for gold and pathfinder elements arsenic, mercury and thallium are focused in and around the limestones in the domal feature in the eastern portion of the property, and around cross cutting fault zones. Taken together, the geological setting and geochemical results are favorable for the location of a sediment hosted gold (Carlin type) deposit on the property.

Additional rock geological mapping, prospecting and concurrent rock sampling are recommended to both better define the existing anomalies and to explore areas, not sampled in 2011, on the margins of anomalies identified in 2011. In particular, on the east side of the property, the area to the east and southeast of the broad multi element soil geochemical anomaly needs further definition. All of the above work should be directed towards defining trenching targets. Mechanized trenching, utilizing a helicopter portable excavator such as a `Can-Dig` excavator is recommended over targets defined by the above follow up geological mapping and geochemical sampling. Should the above work yield positive results, diamond drilling is recommended.

9. Statement of costs

Total expenditures for the 2011 exploration program on the STW property are given in the following table:

Helicopter	\$195,000
Jet-A Fuel	\$40,000
Fixed wing aircraft support	\$65,000
Labour & contractors	\$194,000
Geochemistry	\$150,000
Camp and supplies	\$50,000
Total	\$694,000

10. Statement of qualifications

I, David Clark, of:

402 – 2336 York Avenue
Vancouver, British Columbia
V6K 1C7

hereby certify that:

1. I am a mineral exploration geologist with over 10 years of experience, of which 2 have been in the Yukon Territory.
2. I hold an M.Sc. in geology and a B.Sc. (Hons.) in planetary science, both granted by McGill University, Montreal, Canada.
3. I am a registered as a professional geoscientist (#37081) with the Association of Professional Engineers and Geoscientists of British Columbia
4. I am the principle author of this report on the STW 1 – 230 claims in the Mayo Mining District, Yukon Territory.
5. I have been on the ground covered by the STW 1 – 230 claims. This report is based on both my work and the work of my colleagues, and on referenced sources.

David Clark, M.Sc., P.Ge.
March 9, 2012

11. References

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Appendix A: List of quartz claims on STW property

Claim	Grant	Date staked	Expiry date *
STW 1	YD69503	2010-09-04	2016-03-31
STW 2	YD69504	2010-09-04	2016-03-31
STW 3	YD69505	2010-09-04	2016-03-31
STW 4	YD69506	2010-09-04	2016-03-31
STW 5	YD69507	2010-09-04	2016-03-31
STW 6	YD69508	2010-09-04	2016-03-31
STW 7	YD69509	2010-09-04	2016-03-31
STW 8	YD69510	2010-09-04	2016-03-31
STW 9	YD69511	2010-09-04	2016-03-31
STW 10	YD69512	2010-09-04	2016-03-31
STW 11	YD69513	2010-09-04	2016-03-31
STW 12	YD69514	2010-09-04	2016-03-31
STW 13	YD69515	2010-09-04	2016-03-31
STW 14	YD69516	2010-09-04	2016-03-31
STW 15	YD69517	2010-09-04	2016-03-31
STW 16	YD69518	2010-09-04	2016-03-31
STW 17	YD69519	2010-09-05	2016-03-31
STW 18	YD69520	2010-09-05	2016-03-31
STW 19	YD69521	2010-09-05	2016-03-31
STW 20	YD69522	2010-09-05	2016-03-31
STW 21	YD69523	2010-09-05	2016-03-31
STW 22	YD69524	2010-09-05	2016-03-31
STW 23	YD69525	2010-09-05	2016-03-31
STW 24	YD69526	2010-09-05	2016-03-31
STW 25	YD69527	2010-09-05	2016-03-31
STW 26	YD69528	2010-09-05	2016-03-31
STW 27	YD69529	2010-09-05	2016-03-31
STW 28	YD69530	2010-09-05	2016-03-31
STW 29	YD69531	2010-09-05	2016-03-31
STW 30	YD69532	2010-09-05	2016-03-31
STW 31	YD69533	2010-09-05	2016-03-31
STW 32	YD69534	2010-09-05	2016-03-31
STW 33	YD69535	2010-09-04	2016-03-31
STW 34	YD69536	2010-09-04	2016-03-31
STW 35	YD69537	2010-09-04	2016-03-31
STW 36	YD69538	2010-09-04	2016-03-31
STW 37	YD69539	2010-09-04	2016-03-31
STW 38	YD69540	2010-09-04	2016-03-31
STW 39	YD69541	2010-09-04	2016-03-31
STW 40	YD69542	2010-09-04	2016-03-31
STW 41	YD69543	2010-09-04	2016-03-31
STW 42	YD69544	2010-09-04	2016-03-31
STW 43	YD69545	2010-09-04	2016-03-31
STW 44	YD69546	2010-09-04	2016-03-31
STW 45	YD69547	2010-09-04	2016-03-31
STW 46	YD69548	2010-09-04	2016-03-31
STW 47	YD69549	2010-09-04	2016-03-31
STW 48	YD69550	2010-09-04	2016-03-31
STW 49	YD69551	2010-09-05	2016-03-31
STW 50	YD69552	2010-09-05	2016-03-31
STW 51	YD69553	2010-09-05	2016-03-31
STW 52	YD69554	2010-09-05	2016-03-31
STW 53	YD69555	2010-09-05	2016-03-31
STW 54	YD69556	2010-09-05	2016-03-31
STW 55	YD69557	2010-09-05	2016-03-31
STW 56	YD69558	2010-09-05	2016-03-31
STW 57	YD69559	2010-09-05	2016-03-31
STW 58	YD69560	2010-09-05	2016-03-31
STW 59	YD69561	2010-09-04	2016-03-31
STW 60	YD69562	2010-09-04	2016-03-31

Claim	Grant	Date staked	Expiry date *
STW 61	YD69563	2010-09-04	2016-03-31
STW 62	YD69564	2010-09-04	2016-03-31
STW 63	YD69565	2010-09-04	2016-03-31
STW 64	YD69566	2010-09-04	2016-03-31
STW 65	YD69567	2010-09-04	2016-03-31
STW 66	YD69568	2010-09-04	2016-03-31
STW 67	YD69569	2010-09-04	2016-03-31
STW 68	YD69570	2010-09-04	2016-03-31
STW 69	YD69571	2010-09-04	2016-03-31
STW 70	YD69572	2010-09-04	2016-03-31
STW 71	YD69573	2010-09-04	2016-03-31
STW 72	YD69574	2010-09-04	2016-03-31
STW 73	YD69575	2010-09-04	2016-03-31
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STW 99	YD69601	2010-09-05	2016-03-31
STW 100	YD69602	2010-09-05	2016-03-31
STW 101	YD69603	2010-09-05	2016-03-31
STW 102	YD69604	2010-09-05	2016-03-31
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STW 106	YD69608	2010-09-06	2016-03-31
STW 107	YD69609	2010-09-06	2016-03-31
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STW 122	YD69624	2010-09-06	2016-03-31
STW 123	YD69625	2010-09-06	2016-03-31
STW 124	YD69626	2010-09-06	2016-03-31
STW 125	YD69627	2010-09-06	2016-03-31

Claim	Grant	Date staked	Expiry date *
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STW 128	YD69630	2010-09-06	2016-03-31
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STW 132	YD69634	2010-09-06	2016-03-31
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STW 136	YD69638	2010-09-06	2016-03-31
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STW 188	YD90357	2010-09-07	2016-03-31
STW 189	YD90358	2010-09-07	2016-03-31
STW 190	YD90359	2010-09-07	2016-03-31

Claim	Grant	Date staked	Expiry date *
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STW 192	YD90361	2010-09-07	2016-03-31
STW 193	YD90362	2010-09-07	2016-03-31
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STW 227	YD90396	2010-09-07	2016-03-31
STW 228	YD90397	2010-09-07	2016-03-31
STW 229	YD90398	2010-09-07	2016-03-31
STW 230	YD90399	2010-09-07	2016-03-31

Appendix B: Selected geochemistry

a) Soil geochemistry – selected elements

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
118037	7108700	645000	1487	UTM83-8	WHI11000951	0.1	97	12.6	0.13	0.76	54	28.73	82.2
118038	7108700	644952	1461	UTM83-8	WHI11000951	0.1	59	11.1	0.09	0.85	33	30.91	88.8
118039	7108699	644898	1439	UTM83-8	WHI11000951	0.1	131	13.5	0.1	0.6	44	30	87.3
118040	7108699	644849	1417	UTM83-8	WHI11000951	0.1	60	15.4	0.05	0.66	132	26.53	101.1
118041	7108699	644798	1419	UTM83-8	WHI11000951	22.4	504	40.1	0.12	5.23	734	25.6	85.4
118042	7108701	644747	1440	UTM83-8	WHI11000951	3.7	205	22	0.11	3.27	329	22.05	77.5
118043	7108696	644705	1453	UTM83-8	WHI11000951	6	212	35.4	0.09	3.74	272	20.05	68.4
118044	7108700	644648	1447	UTM83-8	WHI11000951	18.7	119	62	0.18	8.35	788	25.22	108.4
118045	7108697	644600	1428	UTM83-8	WHI11000951	25	114	150.3	0.29	5.59	442	29.54	119.4
118046	7108700	644492	1413	UTM83-8	WHI11000951	2.8	62	13.6	0.1	1.05	249	22.04	116.4
118047	7108695	644447	1413	UTM83-8	WHI11000951	9.5	128	34.3	0.21	2.37	747	41.95	151.7
118048	7108700	644395	1400	UTM83-8	WHI11000951	2.2	44	8.1	0.13	0.85	40	52.86	138.3
118049	7108699	644350	1387	UTM83-8	WHI11000951	0.1	25	12.3	0.13	0.67	39	15.62	84.7
118050	7108701	644299	1368	UTM83-8	WHI11000951	0.1	25	32.2	0.06	0.97	126	24.27	79
118057	7108251	643000	1036	UTM83-8	WHI11000951	1.5	142	87.8	0.19	0.97	231	26.82	82.3
118058	7108251	642945	1010	UTM83-8	WHI11000951	3.6	155	80.4	0.21	0.73	298	22.01	70.7
118059	7108251	642900	993	UTM83-8	WHI11000951	4.8	163	81.6	0.22	0.82	328	24.67	92.2
118060	7108250	642851	981	UTM83-8	WHI11000951	9.7	94	175.1	0.26	1.22	287	27.95	99.3
118061	7108252	642797	970	UTM83-8	WHI11000951	10.3	88	141.3	0.27	1.33	268	25.2	94
118062	7108050	644899	1421	UTM83-8	WHI11001025	0.7	30	8.2	0.06	0.4	17	14.33	41.2
118063	7108050	644847	1409	UTM83-8	WHI11001025	2	327	13.5	0.07	0.56	99	21.07	127.8
118064	7108052	644797	1430	UTM83-8	WHI11001025	1.2	100	14.3	0.1	0.52	36	35.69	117.2
118065	7108051	644746	1437	UTM83-8	WHI11001025	1	98	9.9	0.09	0.48	31	26.19	123.3
118066	7108050	644697	1447	UTM83-8	WHI11001025	1	308	7.3	0.1	0.57	54	23.58	83.9
118067	7108050	644649	1457	UTM83-8	WHI11001025	0.3	106	7.7	0.09	0.41	24	24.55	111.6
118068	7108051	644601	1458	UTM83-8	WHI11001025	0.9	129	10.9	0.1	0.46	53	35.18	108.8
118069	7108050	644549		UTM83-8	WHI11001025	0.8	110	13.2	0.12	0.69	50	46.33	121.3
118070	7108052	644498	1457	UTM83-8	WHI11001025	14.5	85	18.2	0.09	1.16	69	22.01	70.4
118071	7108052	644449	1463	UTM83-8	WHI11001025	3.5	90	10.2	0.09	0.56	53	25.22	91.2
118072	7108051	644397	1465	UTM83-8	WHI11001025	3.4	148	10.7	0.13	0.62	105	19.98	85.4
118073	7108052	644351	1474	UTM83-8	WHI11001025	1.3	58	22.5	0.16	1.04	130	23.85	91.3
118074	7108052	644301	1476	UTM83-8	WHI11001025	2.5	83	13.6	0.15	0.74	56	17.25	57.7
118075	7108051	644250	1485	UTM83-8	WHI11001025	4.6	260	18.8	0.13	1.29	129	18.09	88.9
118076	7108051	644202	1484	UTM83-8	WHI11001025	3.5	360	23.1	0.17	1.01	182	21.02	67.3
118077	7108052	644099	1444	UTM83-8	WHI11001025	2.6	59	26.4	0.09	1.62	81	20.99	98.3
118078	7108054	644047	1436	UTM83-8	WHI11001025	2.4	96	19.7	0.12	0.68	186	18.86	100.8
118079	7108048	643998	1402	UTM83-8	WHI11001025	3.1	65	49.4	0.29	0.79	184	25.69	102.4
118080	7108054	643947	1393	UTM83-8	WHI11001025	5.6	39	30.6	0.08	0.35	113	18.94	100
118081	7108050	643851	1370	UTM83-8	WHI11001025	4.3	105	27.7	0.14	0.81	222	28.45	123.7
118082	7108050	643797	1367	UTM83-8	WHI11001025	3.7	75	49.1	0.19	0.83	138	21.66	110.6
118083	7108050	643750	1353	UTM83-8	WHI11001025	5.6	62	40.8	0.19	1.01	191	22.43	95.1
118084	7108050	643700	1351	UTM83-8	WHI11001025	4.1	82	14.1	0.09	0.51	107	25.99	106.9
118085	7108050	643650	1341	UTM83-8	WHI11001025	3.5	85	15.9	0.09	0.46	132	33.82	116.5
118086	7108049	643546	1339	UTM83-8	WHI11001025	2.7	67	95	0.27	0.58	153	16.01	94.9
118087	7108049	643500	1326	UTM83-8	WHI11001025	4.2	86	33.1	0.12	2.12	111	31.57	104.1
118088	7108049	643446	1282	UTM83-8	WHI11001025	1.2	115	21.4	0.11	0.63	108	31.5	88.1
118089	7108048	643395	1249	UTM83-8	WHI11001025	0.8	87	32.7	0.15	0.5	38	30.17	75.3
118090	7108050	643299	1230	UTM83-8	WHI11001025	1.6	257	29.6	0.14	0.5	162	51.36	103.5
118091	7108049	643249	1201	UTM83-8	WHI11001025	0.9	236	36.2	0.11	0.49	95	46.53	117.2
118092	7108053	643094	1107	UTM83-8	WHI11001025	0.7	164	28.5	0.07	0.44	97	31.93	75.2
118093	7108051	642995	1055	UTM83-8	WHI11001025	2.2	195	10.5	0.14	0.34	143	24.15	80.3
118094	7108048	642948	1040	UTM83-8	WHI11001025	2	169	11.7	0.13	0.36	144	21.4	83.3
118095	7108048	642898	1024	UTM83-8	WHI11001025	1.4	188	14.4	0.1	0.51	131	24.13	91.5
118096	7108051	642846	1008	UTM83-8	WHI11001025	3.9	121	19.7	0.08	0.55	109	24.78	97
118097	7108051	642750	978	UTM83-8	WHI11001025	3.4	157	16.9	0.09	0.53	124	28.23	115.5
118098	7108049	642701	961	UTM83-8	WHI11001025	1.6	142	13	0.09	0.37	120	21.14	102.9
118099	7108049	642647	950	UTM83-8	WHI11001025	2	171	10.6	0.12	0.36	153	21.31	98.9
118100	7107552	643499	1508	UTM83-8	WHI11001025	0.6	11	65.5	0.16	0.73	20	15.37	62.7
118124	7107902	644647	1377	UTM83-8	WHI11001025	0.6	519	13.9	0.12	0.66	68	27.22	97.3
118125	7107899	644598	1378	UTM83-8	WHI11001025	4.8	282	7.8	0.1	0.51	20	18.86	99.3
118126	7107904	644552	1383	UTM83-8	WHI11001025	3.3	43	10	0.09	0.45	18	19.74	74
118127	7107903	644502	1385	UTM83-8	WHI11001025	1.5	42	8.2	0.09	0.57	6	13.44	63.3

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
118128	7107899	644452	1403	UTM83-8	WHI11001025	1.5	59	8.1	0.09	0.43	8	14.57	62.8
118129	7107901	644397	1416	UTM83-8	WHI11001025	1.5	98	10.5	0.1	0.36	18	18.98	97.3
118130	7107900	644351	1432	UTM83-8	WHI11001025	1	39	11	0.1	0.42	26	22.61	95
118131	7107899	644303	1439	UTM83-8	WHI11001025	2.5	35	17	0.11	0.59	25	19.75	66.5
118132	7107898	644252	1428	UTM83-8	WHI11001025	3.2	184	154.7	0.09	2.73	650	17.43	191.6
118133	7107894	644200	1429	UTM83-8	WHI11001025	1.1	74	36.5	0.13	1.92	79	13.15	72.8
118134	7107898	644150	1446	UTM83-8	WHI11001025	5.2	251	111.3	0.1	2.51	467	18.46	99.4
118135	7107900	644100		UTM83-8	WHI11001025	0.9	70	25.5	0.16	0.86	91	14.2	96.3
118136	7107900	644053	1487	UTM83-8	WHI11001025	2	66	33.3	0.14	1.06	120	17.94	88.2
118137	7107898	644000	1490	UTM83-8	WHI11001025	3.9	26	20.3	0.13	0.97	65	16.79	72.4
118138	7107896	643946	1503	UTM83-8	WHI11001025	6.3	232	18.3	0.2	0.47	314	15.24	90.3
118139	7107905	643898	1485	UTM83-8	WHI11001025	5.5	252	43	0.21	0.97	406	18.09	101.7
118140	7107904	643855	1476	UTM83-8	WHI11001025	3.2	126	27.9	0.13	0.88	111	18.6	90.4
118141	7107903	643801	1455	UTM83-8	WHI11001025	6.9	110	115	0.47	2.27	367	19.61	110.6
118142	7107901	643752	1450	UTM83-8	WHI11001025	7.8	108	67.6	0.36	1.24	325	19.13	105.9
118143	7107900	643648	1439	UTM83-8	WHI11001025	2.4	47	9.8	0.07	0.34	44	19.82	103.1
118144	7107903	643602	1414	UTM83-8	WHI11001025	3.3	49	13.4	0.11	0.5	108	21.43	110.7
118145	7107901	643548	1386	UTM83-8	WHI11001025	4.6	152	28	0.09	1.5	187	21.79	69.5
118146	7107902	643505	1357	UTM83-8	WHI11001025	3.3	71	26	0.06	1.18	101	24.22	87.5
118147	7107897	643453	1329	UTM83-8	WHI11001025	2.5	150	29.5	0.1	1.75	546	74.69	114
118148	7107894	643395	1337	UTM83-8	WHI11001025	1.5	259	35.2	0.16	0.82	489	56.91	123.9
118149	7107903	643347	1303	UTM83-8	WHI11001025	1.9	234	17.2	0.1	0.39	103	63.84	132.7
118150	7107901	643300	1275	UTM83-8	WHI11001025	1.7	201	25.9	0.13	0.46	114	53.6	136.2
118151	7107700	642655	1049	UTM83-8	WHI11001025	0.5	68	12.2	0.09	0.4	64	33.99	81.7
118152	7107699	642550	1024	UTM83-8	WHI11001025	0.3	53	10.3	0.12	0.47	89	23.18	65.9
118153	7107698	642499	1017	UTM83-8	WHI11001025	2.9	105	14.1	0.07	0.24	75	24.1	58
118154	7107354	643944	1351	UTM83-8	WHI11001169	0.1	94	27.6	0.07	0.49	37	16.84	81.8
118155	7107351	643900	1357	UTM83-8	WHI11001169	0.6	168	37.6	0.12	2.33	365	38.02	96.2
118156	7107353	643854	1383	UTM83-8	WHI11001169	1.2	33	306.4	0.15	1.84	230	20.04	49.1
118157	7107356	643803	1383	UTM83-8	WHI11001169	3.9	47	82.4	0.11	0.69	53	31.99	77.7
118158	7107353	643747	1382	UTM83-8	WHI11001169	0.7	73	68.3	0.09	0.66	37	29.24	79.2
118159	7107350	643700	1383	UTM83-8	WHI11001169	2.4	40	167.6	0.15	0.84	44	30.14	79.7
118160	7107355	643650	1377	UTM83-8	WHI11001169	2.8	39	57.7	0.08	0.82	46	24.77	58.2
118161	7107355	643601	1365	UTM83-8	WHI11001169	10.4	118	107.9	0.1	1.16	32	29.07	84
118162	7107349	643553	1380	UTM83-8	WHI11001169	1	117	9.9	0.1	0.45	59	30.8	95.1
118163	7107354	643501	1397	UTM83-8	WHI11001169	0.3	135	10.5	0.09	0.6	56	32.45	87.2
118164	7107356	643448	1395	UTM83-8	WHI11001169	0.6	177	19.5	0.07	1.21	56	24.77	82.9
118165	7107358	643401	1380	UTM83-8	WHI11001169	0.6	219	16.7	0.08	1.01	54	23.99	99.1
118166	7107353	643353	1383	UTM83-8	WHI11001169	0.1	183	11.6	0.08	0.66	40	25.45	99.4
118167	7107350	643303	1395	UTM83-8	WHI11001169	0.1	181	7.6	0.08	0.42	34	28.87	204.2
118168	7107357	643250	1382	UTM83-8	WHI11001169	3.3	364	41.6	0.07	6.85	145	47.67	80.9
118169	7107351	643201	1355	UTM83-8	WHI11001169	1	61	15.9	0.09	0.63	44	28.3	73.8
118170	7107347	643153	1321	UTM83-8	WHI11001170	0.8	90	11.2	0.08	0.56	37	23.69	75.4
118171	7107348	643101	1291	UTM83-8	WHI11001170	0.6	31	6.7	0.1	0.27	46	13.01	73.3
118172	7107350	643049	1263	UTM83-8	WHI11001170	0.8	60	10.4	0.1	0.41	21	24.37	70.1
118173	7107347	643000	1245	UTM83-8	WHI11001170	1.1	160	14.9	0.17	0.4	56	33.28	82
118174	7107351	642950	1219	UTM83-8	WHI11001170	1.1	110	8.4	0.13	0.39	28	35.57	60.5
118175	7107347	642900	1198	UTM83-8	WHI11001170	0.6	139	15.3	0.1	0.33	38	32.98	77.3
118176	7107351	642849	1172	UTM83-8	WHI11001170	0.8	146	10.2	0.15	0.31	50	39.56	100.5
118177	7107350	642799	1148	UTM83-8	WHI11001170	0.7	187	10.5	0.1	0.55	140	46	48.4
118178	7107347	642750	1124	UTM83-8	WHI11001170	2.6	166	16.3	0.08	1.46	226	43.38	51
118179	7107350	642697	1100	UTM83-8	WHI11001170	0.7	180	7	0.11	0.25	343	28.96	59.7
118180	7107351	642602	1057	UTM83-8	WHI11001170	1.3	224	6.9	0.16	0.28	228	31.55	73.9
118181	7110379	353998	1664	UTM83-9	WHI11001170	3.3	133	17.2	0.1	1.08	392	43.13	158.5
118182	7110380	353946	1618	UTM83-9	WHI11001170	1.1	159	10	0.35	0.38	408	49.39	130.9
118183	7110238	353933	1647	UTM83-9	WHI11001170	2.6	113	81.9	0.22	1.66	247	40.44	94.7
118184	7110237	353878	1622	UTM83-9	WHI11001170	12.6	163	98.1	0.19	3.89	551	41.68	229.8
118185	7110246	353825	1601	UTM83-9	WHI11001170	19	236	44	0.19	4.15	2031	128.12	612
118186	7110252	353785	1595	UTM83-9	WHI11001170	8.6	266	33.5	0.36	2.33	821	51.6	419
118187	7110242	646204	1599	UTM83-8	WHI11001170	3	179	19.9	0.23	1.79	373	36.71	218.4
118188	7110252	646150	1587	UTM83-8	WHI11001170	4.7	182	28.6	0.23	1.86	366	40.6	236.8
118189	7110251	646101	1606	UTM83-8	WHI11001170	0.2	366	14.2	0.31	0.49	128	41.72	185.1

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
118190	7110250	646053	1619	UTM83-8	WHI11001170	0.5	281	10.2	0.21	0.43	117	44.78	148.8
118191	7110248	645999	1614	UTM83-8	WHI11001170	1.5	353	10.7	0.33	0.42	108	40.54	174.3
118192	7110249	645947	1614	UTM83-8	WHI11001170	0.1	313	10.3	0.24	0.35	183	40.27	157.3
118193	7110248	645902	1593	UTM83-8	WHI11001170	1	183	14.1	0.18	0.48	159	37.01	148.5
118194	7110251	645852	1583	UTM83-8	WHI11001170	1	355	9.2	0.21	0.42	65	43.56	134.9
118195	7110248	645801	1573	UTM83-8	WHI11001170	0.7	340	8.2	0.2	0.34	93	42.69	123.6
118196	7110251	645753	1562	UTM83-8	WHI11001170	0.7	285	10.4	0.12	0.43	51	47.57	137.1
118197	7110251	645704	1550	UTM83-8	WHI11001170	0.1	359	8.5	0.19	0.42	112	48.82	138.6
118198	7110251	645596	1523	UTM83-8	WHI11001170	0.8	155	10.9	0.17	0.7	67	38.62	110.6
118199	7110251	645550	1512	UTM83-8	WHI11001170	0.4	117	8.7	0.19	0.46	8	27.17	75.7
118200	7110253	645500	1504	UTM83-8	WHI11001170	0.1	191	9.8	0.12	0.46	43	28.1	102
118212	7108299	643749	1236	UTM83-8	WHI11000951	2.1	24	41.3	0.1	0.69	98	23.31	100.5
118213	7108302	643702	1225	UTM83-8	WHI11000951	6.3	118	54.8	0.12	0.86	172	23.64	147.9
118214	7108301	643651	1211	UTM83-8	WHI11000951	0.9	157	12.1	0.1	0.42	87	22.39	64.8
118215	7108301	643602	1185	UTM83-8	WHI11000951	5.2	74	49	0.09	1.2	110	31.33	125.7
118216	7108301	643449	1189	UTM83-8	WHI11000951	15.6	683	188.2	0.22	3.2	414	28.94	111.3
118217	7108302	643400	1173	UTM83-8	WHI11000951	7.3	393	73.9	0.17	1.5	268	19.46	78.4
118218	7108302	643350	1156	UTM83-8	WHI11000951	4.5	205	57.9	0.11	1.15	261	20.12	82.6
118219	7108300	643301	1132	UTM83-8	WHI11000951	1.3	62	25.4	0.07	0.35	108	14.56	35.1
118220	7108105	644949	1447	UTM83-8	WHI11001025	0.8	154	8.3	0.12	0.4	56	28.01	81.5
118221	7108102	644899	1444	UTM83-8	WHI11001025	0.9	63	47.2	0.11	0.59	35	27.23	67.5
118222	7108101	644849	1433	UTM83-8	WHI11001025	0.3	72	41.6	0.1	0.92	34	15.5	63.7
118223	7108101	644800	1436	UTM83-8	WHI11001025	0.6	80	15.8	0.14	0.48	56	35.48	111.6
118224	7108100	644753	1450	UTM83-8	WHI11001025	2.4	461	16.9	0.15	0.44	120	55.28	134.4
118225	7108099	644699	1468	UTM83-8	WHI11001025	2.4	93	17.3	0.14	0.74	32	35.66	120.3
118226	7108098	644649	1484	UTM83-8	WHI11001025	0.6	165	7.4	0.12	0.3	32	36.58	86.3
118227	7108103	644601	1468	UTM83-8	WHI11001025	1.2	111	17	0.18	0.68	33	47.98	100.7
118228	7108098	644548	1476	UTM83-8	WHI11001025	1.2	141	11.3	0.1	0.47	45	29.99	106.3
118229	7108102	644500	1486	UTM83-8	WHI11001025	1.5	106	11.9	0.11	0.4	70	28.83	81.2
118230	7108101	644453	1488	UTM83-8	WHI11001025	1	101	11.2	0.09	0.51	44	20.24	81.6
118231	7108103	644396	1484	UTM83-8	WHI11001025	0.6	59	13	0.14	0.71	78	18.28	81.3
118232	7108099	644351	1485	UTM83-8	WHI11001025	1.5	67	25.3	0.18	1.3	142	17.81	84.9
118233	7108101	644299	1482	UTM83-8	WHI11001025	1.7	180	44.9	0.15	3.82	242	16.04	114.2
118234	7108102	644249	1484	UTM83-8	WHI11001025	3.6	193	43.9	0.12	4.46	185	17.81	56.9
118235	7108095	644195	1454	UTM83-8	WHI11001025	9.8	198	42.4	0.22	2.36	252	24.57	116.1
118236	7108098	644150	1433	UTM83-8	WHI11001025	2.8	105	15.5	0.17	0.6	101	16.07	75.7
118237	7108097	644099	1411	UTM83-8	WHI11001025	4.6	118	23.3	0.12	0.83	99	31.01	127.4
118238	7108098	644052	1387	UTM83-8	WHI11001025	7.7	144	28.9	0.4	0.93	161	53.69	135.7
118239	7108099	643999	1364	UTM83-8	WHI11001025	3.2	38	6.8	0.09	0.4	63	19.76	109.4
118240	7108098	643948	1357	UTM83-8	WHI11001025	3.2	85	46.3	0.21	1.44	1014	30.79	100.6
118241	7108101	643901	1336	UTM83-8	WHI11001169	7.7	84	14.1	0.15	0.57	61	45.48	118.4
118242	7108102	643851	1326	UTM83-8	WHI11001169	4.6	62	10.3	0.1	0.44	148	26.07	131.9
118243	7108103	643798	1322	UTM83-8	WHI11001169	5.1	60	24.2	0.1	0.62	105	28.73	106.6
118244	7108102	643698	1321	UTM83-8	WHI11001169	2.7	23	20.5	0.09	0.55	147	24.54	113.7
118245	7108103	643650	1320	UTM83-8	WHI11001169	4.2	53	14.2	0.09	0.45	83	24.64	112.1
118246	7108100	643599	1321	UTM83-8	WHI11001169	12.9	144	2226.2	4.7	2.54	1645	33.27	146.1
118247	7108099	643501	1309	UTM83-8	WHI11001169	1.9	53	41.7	0.04	0.68	79	16.98	76.6
118248	7108099	643448	1273	UTM83-8	WHI11001169	6	153	29.2	0.1	1.31	193	25.38	73.6
118249	7108097	643404	1236	UTM83-8	WHI11001169	2.4	92	18.5	0.09	0.89	126	27.76	95.8
118250	7108098	643350	1199	UTM83-8	WHI11001169	2.9	141	18.2	0.11	0.65	108	37.79	83.4
118251	7109792	353891	1804	UTM83-9	WHI11000919	1.3	267	8.5	0.22	0.32	205	40.37	98.5
118252	7109798	353841	1802	UTM83-9	WHI11000919	0.7	216	9.1	0.19	0.34	90	46.63	105.4
118253	7109778	353793	1811	UTM83-9	WHI11000919	10.7	133	57.4	0.18	4.92	428	71.5	329.9
118254	7109755	353770	1805	UTM83-9	WHI11000919	10.4	116	36.1	0.09	3.6	252	62.59	233.5
118255	7109729	353742	1803	UTM83-9	WHI11000919	1.2	150	20	0.16	1	198	80.02	268.3
118256	7109797	646099	1885	UTM83-8	WHI11000919	1.6	133	14.2	0.36	0.56	829	58.75	86.2
118257	7109797	646039	1858	UTM83-8	WHI11000919	8.9	104	360.8	0.37	18.99	770	71.7	728.7
118258	7109795	645995	1851	UTM83-8	WHI11000919	0.5	123	10.2	0.13	0.47	101	35.81	94.6
118259	7109800	645944	1826	UTM83-8	WHI11000919	0.9	315	14.9	0.31	0.43	239	44.37	132.3
118260	7109798	645903	1799	UTM83-8	WHI11000919	0.5	249	9.6	0.15	0.35	158	81.31	79.6
118261	7109800	645844	1763	UTM83-8	WHI11000919	0.1	208	8	0.13	0.4	59	71.95	98.7
118262	7109798	645798		UTM83-8	WHI11000919	0.1	133	6.8	0.15	0.27	40	35.39	96.8

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
118263	7109799	645750	1735	UTM83-8	WHI11000919	0.1	153	16.8	0.13	0.39	101	34.49	105.8
118264	7109803	645692	1739	UTM83-8	WHI11000919	0.1	111	5.1	0.07	0.35	61	20.24	44.8
118265	7109800	645642		UTM83-8	WHI11000919	0.2	240	7.1	0.09	0.31	82	23.87	83.2
118266	7109804	645601	1692	UTM83-8	WHI11000919	0.8	305	8.7	0.11	0.43	91	29.65	87
118267	7109799	645555	1672	UTM83-8	WHI11000919	0.2	155	6.5	0.09	0.28	61	22.19	78.5
118268	7109803	645502	1644	UTM83-8	WHI11000919	0.1	34	6.1	0.12	0.35	33	21.2	66
118269	7109799	645448	1621	UTM83-8	WHI11000919	0.2	40	11.5	0.11	0.41	29	25.2	83.4
118270	7109802	645397	1606	UTM83-8	WHI11000919	0.6	113	6.1	0.19	0.3	50	24.7	67.5
118271	7109801	645341	1591	UTM83-8	WHI11000919	0.7	70	10.6	0.11	0.41	51	21.15	82.2
118272	7109801	645300	1576	UTM83-8	WHI11000919	0.2	52	12.1	0.1	0.47	37	21.01	74.3
118273	7109798	645247		UTM83-8	WHI11000919	0.3	64	10.8	0.13	0.4	31	24.08	58.7
118274	7109797	645201	1551	UTM83-8	WHI11000919	0.3	52	14	0.12	0.55	30	19.49	70.1
118275	7109795	645154	1542	UTM83-8	WHI11000919	1.3	127	17.5	0.14	0.53	170	21.26	97.3
118276	7109795	645102	1540	UTM83-8	WHI11000919	1.6	143	16.4	0.13	0.54	107	26.35	89.4
118277	7109800	645051	1536	UTM83-8	WHI11000919	1.7	124	12.2	0.08	0.45	101	26.33	108.5
118278	7109797	644996	1527	UTM83-8	WHI11000919	2.3	109	9.8	0.08	0.46	77	22.9	84.6
118279	7109797	644942	1523	UTM83-8	WHI11000919	12.5	790	47	0.21	3.07	813	30.68	100.7
118280	7109796	644902	1513	UTM83-8	WHI11000919	3.6	205	13.2	0.09	1.45	177	19.82	102.4
118281	7109801	644845	1500	UTM83-8	WHI11000919	3	160	24.8	0.1	1.53	811	20.61	120.6
118282	7109802	644787	1483	UTM83-8	WHI11000919	1.4	44	18.3	0.18	0.93	100	22.7	94.7
118283	7109802	644751	1474	UTM83-8	WHI11000919	0.7	42	24.2	0.12	1.34	535	18.14	84.6
118284	7109798	644705	1466	UTM83-8	WHI11000919	0.3	73	14.8	0.15	0.56	102	27.28	131.8
118285	7109798	644650	1457	UTM83-8	WHI11000919	0.3	74	20.3	0.12	0.53	164	31.57	73.6
118286	7109796	644599	1444	UTM83-8	WHI11000919	1.7	63	17.7	0.1	0.47	77	30.81	92.4
118287	7109797	644551	1403	UTM83-8	WHI11000919	1.9	79	15.8	0.13	0.57	79	56.96	131.5
118288	7109808	644503	1364	UTM83-8	WHI11000919	1	72	14.8	0.09	0.59	92	24.41	78
118289	7109807	644432	1329	UTM83-8	WHI11000919	3.7	117	12.8	0.12	0.83	214	21.16	108.7
118290	7109543	646146	1800	UTM83-8	WHI11000919	0.5	169	7.3	0.17	0.23	63	35.64	109.8
118291	7109548	646103	1787	UTM83-8	WHI11000919	0.6	222	8	0.1	0.38	131	35.41	110.6
118292	7109551	646053	1771	UTM83-8	WHI11000919	1.9	229	8.7	0.12	0.54	219	39.73	137.9
118293	7109547	646000	1762	UTM83-8	WHI11000919	1.4	162	10.4	0.09	0.62	114	31.36	109.3
118294	7109545	645949	1759	UTM83-8	WHI11000919	0.3	76	8.1	0.08	0.36	33	26.87	94.9
118295	7109550	645899	1760	UTM83-8	WHI11000919	0.7	303	8.9	0.11	0.37	65	30.07	87.7
118296	7109554	645853	1760	UTM83-8	WHI11000919	0.6	144	6.2	0.07	0.37	37	27.83	95.1
118297	7109552	645797	1749	UTM83-8	WHI11000919	2.2	58	8.1	0.1	0.42	20	25.29	88.8
118298	7109553	645759	1742	UTM83-8	WHI11000919	0.4	104	6.5	0.1	0.36	19	25.73	81.9
118299	7109545	645699	1725	UTM83-8	WHI11000919	1.2	71	6.6	0.12	0.41	32	27.35	82.2
118300	7109548	645655	1717	UTM83-8	WHI11000919	1.3	39	9.8	0.11	0.54	21	21.99	84.6
118311	7109300	644499		UTM83-8		0	0	0	0	0	0	0	0
118312	7109300	644449		UTM83-8	WHI11000949	2.5	97	12.4	0.09	0.51	43	32.56	100.5
118313	7109300	644399		UTM83-8	WHI11000949	1.3	126	13.3	0.08	0.6	56	36.68	83.6
118314	7109150	646099		UTM83-8	WHI11000949	0.7	38	11.8	0.04	0.57	32	17.12	85.7
118315	7109150	646049		UTM83-8	WHI11000949	0.8	36	10.2	0.08	0.57	43	28.43	88
118316	7109150	645999		UTM83-8	WHI11000949	0.4	33	12.1	0.08	0.58	24	16.97	62.4
118317	7109150	645949		UTM83-8	WHI11000949	1.6	110	11.7	0.08	0.51	33	17.93	71.4
118318	7109150	645899		UTM83-8	WHI11000949	2.6	83	11.4	0.08	0.76	46	22.42	80.5
118319	7109150	645849		UTM83-8	WHI11000949	3.4	58	12	0.1	0.72	35	24.89	81.7
118320	7109150	645799		UTM83-8	WHI11000949	2.2	69	12.4	0.12	0.74	37	22.68	80.9
118321	7109150	645749		UTM83-8	WHI11000949	1.5	31	14.2	0.13	0.9	16	22.87	87.7
118322	7109150	645699		UTM83-8	WHI11000949	1	251	17.5	0.1	0.6	91	24.66	83
118323	7109150	645649		UTM83-8	WHI11000949	3.4	158	13.3	0.1	0.48	118	35.1	94
118324	7109150	645599		UTM83-8	WHI11000949	3.2	116	14.7	0.08	0.42	47	29.24	95.7
118325	7109150	645549		UTM83-8	WHI11000949	5.1	264	31	0.1	2.21	496	25.49	94.9
118326	7109150	645499		UTM83-8	WHI11000949	4	139	21.1	0.09	1.05	132	21.38	101.9
118327	7109150	645449		UTM83-8	WHI11000949	4.5	96	11.7	0.12	0.56	100	14.93	85.8
118328	7109150	645399		UTM83-8	WHI11000949	3.7	109	12.5	0.1	0.71	184	20.57	92.3
118329	7109150	645349		UTM83-8	WHI11000949	2.7	107	8.3	0.11	0.62	86	20.84	71.1
118330	7109150	645299		UTM83-8	WHI11000949	2.5	106	9.7	0.15	0.61	89	21.53	99.9
118331	7109150	645249		UTM83-8	WHI11000949	9.2	207	15.3	0.17	0.71	131	23.25	91.5
118332	7109150	645199		UTM83-8	WHI11000949	1.3	117	10.6	0.11	0.52	49	25.04	100.4
118333	7109150	645149		UTM83-8	WHI11000949	1.8	88	15	0.1	0.72	261	27.56	90.1
118334	7109150	645099		UTM83-8	WHI11000949	1.4	77	25.7	0.16	1.94	815	22.12	93.6

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
118335	7109150	645049		UTM83-8	WHI11000949	2.9	42	23.5	0.11	1.35	286	24.34	84.9
118336	7109150	644999		UTM83-8	WHI11000949	2.9	122	18.7	0.11	1.5	563	19.63	78.2
118337	7109150	644949		UTM83-8	WHI11000949	10.2	252	31.8	0.18	17.21	4894	24.08	79.9
118338	7109150	644899		UTM83-8	WHI11000949	4.8	136	25	0.14	2.11	742	23.04	108.1
118339	7109150	644849		UTM83-8	WHI11000949	3.8	114	23.5	0.14	1.28	312	23.79	97.2
118340	7109150	644799		UTM83-8	WHI11000949	5.4	136	20.9	0.12	1.68	489	21	99.4
118341	7109150	644749		UTM83-8	WHI11000949	2.2	98	16.3	0.08	1.19	193	22.82	75
118342	7109150	644699		UTM83-8	WHI11000949	2.7	103	25.1	0.12	0.91	633	19.15	91.8
118343	7109150	644649		UTM83-8	WHI11000949	2.2	94	11.4	0.12	0.55	113	16.33	81.8
118344	7109150	644549		UTM83-8	WHI11000949	3.2	86	21	0.15	0.74	344	19.04	102
118345	7109150	644449		UTM83-8	WHI11000949	2.7	97	17.3	0.09	0.85	209	34.42	84.7
118346	7109150	644399		UTM83-8	WHI11000949	3.6	168	12.8	0.12	0.61	194	24.34	93.5
118347	7109150	644349		UTM83-8	WHI11000949	3.9	129	18.1	0.13	1.24	262	44.4	88.6
118348	7109150	644299		UTM83-8	WHI11000949	3.5	122	20.6	0.11	1.33	347	23.31	96.6
118349	7108951	646053	1620	UTM83-8	WHI11000950	0.4	57	5.6	0.07	0.51	34	15.56	87.9
118350	7108952	645997	1610	UTM83-8	WHI11000950	0.8	42	11.3	0.05	0.55	44	24.26	56.6
118351	7109900	646149		UTM83-8	WHI11000918	5.1	114	99.9	0.09	14.92	564	61.04	357.4
118352	7109900	646099		UTM83-8	WHI11000918	3.1	78	57.4	0.18	3.33	477	39	190.7
118353	7109900	646049		UTM83-8	WHI11000918	3.2	153	32	0.17	2.26	292	26.68	161.2
118354	7109900	645999		UTM83-8	WHI11000918	0.8	184	20	0.22	0.82	381	40.62	155.9
118355	7109900	645949		UTM83-8	WHI11000918	1.7	101	34.8	0.14	2.13	378	36.62	140.8
118356	7109900	645899		UTM83-8	WHI11000918	0.1	297	9.4	0.23	0.36	133	58.31	122
118357	7109900	645849		UTM83-8	WHI11000919	0.9	345	8.4	0.23	0.3	174	51.19	137
118358	7109900	645799		UTM83-8	WHI11000919	0.6	270	8.4	0.18	0.36	112	51.89	115
118359	7109900	645749		UTM83-8	WHI11000919	0.8	248	6.8	0.19	0.33	78	72.48	111.5
118360	7109900	645699		UTM83-8	WHI11000919	1.4	252	14.3	0.15	0.52	63	71.28	116.6
118361	7109900	645649		UTM83-8	WHI11000919	2.1	311	9.8	0.16	0.47	61	59.05	133.2
118362	7109900	645599		UTM83-8	WHI11000919	1.2	284	10.3	0.12	0.45	62	40.36	87
118363	7109900	645549		UTM83-8	WHI11000919	0	0	0	0	0	0	0	0
118364	7109900	645499		UTM83-8	WHI11000919	1.9	257	12.5	0.13	0.54	80	68.58	118.4
118365	7109900	645449		UTM83-8	WHI11000919	0.8	134	6.5	0.09	0.29	75	29.89	115
118366	7109900	645399		UTM83-8	WHI11000919	1.3	192	7.7	0.1	0.33	79	30.24	97.1
118367	7109900	645349		UTM83-8	WHI11000919	0.5	44	5.7	0.13	0.23	18	17.22	67.8
118368	7109900	645299		UTM83-8	WHI11000919	1.2	61	9.4	0.11	0.44	39	25.17	81.4
118369	7109900	645249		UTM83-8	WHI11000919	0.8	46	9.7	0.08	0.36	38	29.44	93.8
118370	7109900	645199		UTM83-8	WHI11000919	1.6	35	9.6	0.11	0.5	27	20.26	80.6
118371	7109900	645149		UTM83-8	WHI11000919	0.9	57	8.6	0.22	0.51	31	25.58	68.7
118372	7109900	645099		UTM83-8	WHI11000919	1.1	100	9.7	0.14	0.44	94	26.95	90.6
118373	7109900	645049		UTM83-8	WHI11000919	2.7	140	11.2	0.13	0.62	75	32.01	87.5
118374	7109900	644999		UTM83-8	WHI11000919	3.2	127	11.7	0.09	0.49	94	34.22	91
118375	7109900	644949		UTM83-8	WHI11000919	2.2	151	10.5	0.08	0.63	107	30.4	86.6
118376	7109900	644899		UTM83-8	WHI11000919	3.1	149	15.3	0.08	0.71	141	30.85	86.4
118377	7109900	644849		UTM83-8	WHI11000919	2	99	17.5	0.09	0.78	183	29.87	82.9
118378	7109900	644799		UTM83-8	WHI11000919	1.3	16	16	0.09	0.51	102	29.82	107.1
118379	7109900	644749		UTM83-8	WHI11000919	1.6	57	22.9	0.08	0.83	272	37.1	100.7
118380	7109900	644699		UTM83-8	WHI11000919	2.4	185	12.7	0.09	0.61	351	22.11	77.4
118381	7109900	644649		UTM83-8	WHI11000919	1.5	52	17	0.11	0.7	267	22.43	93.9
118382	7109900	644599		UTM83-8	WHI11000919	1.2	70	17.1	0.13	0.5	131	18.37	79.9
118383	7109900	644549		UTM83-8	WHI11000919	0	0	0	0	0	0	0	0
118384	7109900	644499		UTM83-8	WHI11000919	3.3	94	12.3	0.11	0.63	149	46	100.3
118385	7109900	644449		UTM83-8	WHI11000919	2.6	101	23.2	0.11	0.79	203	39.49	108.5
118386	7109650	646199		UTM83-8	WHI11000919	0.9	309	7.7	0.2	0.37	164	58.58	131.7
118387	7109650	646149		UTM83-8	WHI11000919	0.9	273	10	0.2	0.37	233	49.04	139.2
118388	7109650	646099		UTM83-8	WHI11000919	2.1	162	8	0.12	0.58	251	38.29	107.6
118389	7109650	646049		UTM83-8	WHI11000919	1.3	181	9.8	0.1	0.65	323	32.31	199.3
118390	7109650	645999		UTM83-8	WHI11000919	1.5	273	9.6	0.14	0.65	323	36.64	115.2
118391	7109650	645949		UTM83-8	WHI11000919	1.4	275	6.2	0.16	0.35	261	36.04	117.7
118392	7109650	645899		UTM83-8	WHI11000919	1	49	10.2	0.09	0.36	39	38.46	113.9
118393	7109650	645849		UTM83-8	WHI11000919	0.1	100	8.7	0.06	0.47	41	39.24	88.1
118394	7109650	645799		UTM83-8	WHI11000919	2.2	170	7.8	0.11	0.45	47	39.63	97.6
118395	7109650	645749		UTM83-8	WHI11000919	1.6	153	6.6	0.11	0.47	42	41.17	86.4
118396	7109650	645699		UTM83-8	WHI11000919	1.6	146	7.8	0.11	0.39	33	26.51	80.9

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
118397	7109650	645649		UTM83-8	WHI11000919	0.9	55	7.6	0.13	0.25	28	19.52	83.5
118398	7109650	645599		UTM83-8	WHI11000919	1.5	48	8	0.09	0.39	23	28.27	80.4
118399	7109650	645549		UTM83-8	WHI11000919	2.1	36	11.5	0.08	0.57	19	23.05	87.6
118400	7109650	645499		UTM83-8	WHI11000919	3	41	8.7	0.08	0.63	29	19.19	84.6
118401	7109450	645099		UTM83-8	WHI11000949	10	102	41	0.1	1.63	151	31.47	106.6
118402	7109450	644949		UTM83-8	WHI11000949	5	99	39.8	0.15	1.5	608	54	132.1
118403	7109450	644899		UTM83-8	WHI11000949	13.2	97	42.4	0.12	1.75	458	38.49	107.8
118404	7109450	644799		UTM83-8	WHI11000949	2	80	20.2	0.1	0.81	104	49.64	114.5
118405	7109450	644749		UTM83-8	WHI11000949	2.4	75	27.4	0.08	0.75	641	33.01	116.9
118406	7109450	644649		UTM83-8	WHI11000949	5.8	121	64.5	0.13	3.78	1650	74.53	147.5
118407	7109450	644599		UTM83-8	WHI11000949	6.3	216	35.3	0.13	4.72	677	32.88	88.1
118408	7109450	644449		UTM83-8	WHI11000949	1.8	186	39.6	0.12	0.99	85	88.75	123.8
118409	7109450	644399		UTM83-8	WHI11000949	1.4	153	36.9	0.1	0.9	175	54.27	105.9
118410	7109450	644349		UTM83-8	WHI11000949	2.4	157	27.8	0.11	0.66	207	34.33	84.4
118411	7109450	644299		UTM83-8	WHI11000949	1.2	110	14.8	0.07	0.47	91	32.49	75.7
118412	7109450	644249		UTM83-8	WHI11000949	0.8	376	11.2	0.14	0.45	60	85.95	85.9
118413	7109450	644199		UTM83-8	WHI11000949	3.1	317	18.3	0.13	0.65	323	29.2	93.7
118414	7109450	644149		UTM83-8	WHI11000949	1.2	83	15.4	0.1	0.37	165	24.36	63.3
118415	7109450	644099		UTM83-8	WHI11000949	2.1	161	13.3	0.1	0.38	284	21.22	94.1
118416	7109450	644049		UTM83-8	WHI11000949	2	126	17.2	0.11	0.49	313	30.72	82.2
118418	7109100	646099		UTM83-8	WHI11000949	1	215	7.9	0.12	0.3	114	27.27	77.7
118419	7109100	646149		UTM83-8	WHI11000949	1.4	211	11	0.18	0.28	196	42.56	103.3
118420	7109100	646199		UTM83-8	WHI11000949	0.8	189	9.1	0.15	0.29	92	34.5	102.5
118421	7109100	646249		UTM83-8	WHI11000949	0.6	184	4	0.09	0.23	77	33.81	68.5
118422	7109099	353722		UTM83-9	WHI11000949	1.1	246	9.1	0.12	0.34	97	35.46	93.4
118423	7109095	353772		UTM83-9	WHI11000949	1.4	61	16.8	0.09	0.63	39	31.43	87.5
118424	7109090	353821		UTM83-9	WHI11000949	1.8	263	21.3	0.79	0.53	404	35.99	127.6
118425	7109085	353871		UTM83-9	WHI11000949	1.1	168	25.1	0.12	0.48	55	74.41	112.3
118426	7109100	646049		UTM83-8	WHI11000949	1.1	21	16.3	0.06	0.64	37	18.99	107.6
118427	7109100	645999		UTM83-8	WHI11000949	1.4	26	10.1	0.06	0.51	34	20.48	64.6
118428	7109100	645949		UTM83-8	WHI11000949	1.3	30	13	0.13	0.79	24	19.17	75.9
118429	7109100	645899		UTM83-8	WHI11000949	1.3	31	12.8	0.07	0.55	28	27.49	91.3
118430	7109100	645849		UTM83-8	WHI11000949	0.5	47	12.2	0.07	0.62	35	19.87	72.5
118431	7109100	645799		UTM83-8	WHI11000949	1.2	33	11.7	0.06	0.54	18	25.01	77.8
118432	7109100	645749		UTM83-8	WHI11000949	1.9	37	10.5	0.09	0.65	29	16.78	74.4
118433	7109100	645699		UTM83-8	WHI11000949	1.8	32	8.7	0.06	0.55	22	17.86	66.4
118434	7109100	645649		UTM83-8	WHI11000949	0.5	100	12	0.11	0.52	46	18.46	73
118435	7109100	645599		UTM83-8	WHI11000949	2	163	16.1	0.09	0.55	73	25.27	93.1
118436	7109100	645549		UTM83-8	WHI11000949	2.8	150	20	0.08	0.64	134	26.7	99.9
118437	7109100	645499		UTM83-8	WHI11000949	4.3	238	21.4	0.1	1.12	374	27.2	87.7
118438	7109100	645449		UTM83-8	WHI11000949	2.7	105	11.6	0.09	0.45	109	16.92	102.8
118439	7109100	645399		UTM83-8	WHI11000949	3.2	132	11.5	0.11	0.7	164	19.14	99.6
118440	7109100	645349		UTM83-8	WHI11000949	2.1	112	15.2	0.12	0.66	82	16.2	72.4
118441	7109100	645299		UTM83-8	WHI11000949	2.3	114	11.2	0.08	0.57	112	17.16	86.2
118442	7109100	645249		UTM83-8	WHI11000949	27	884	24.8	0.16	1.42	162	25.16	109.6
118443	7109100	645199		UTM83-8	WHI11000949	1.1	135	13.4	0.1	0.52	116	27.35	83.5
118444	7109100	645149		UTM83-8	WHI11000949	1.4	131	19.3	0.08	0.97	208	25.23	86.2
118445	7109100	645099		UTM83-8	WHI11000949	2	82	21.9	0.11	1.68	4493	21.57	85.1
118446	7109100	645049		UTM83-8	WHI11000949	0.8	104	14.2	0.09	1.09	513	18.93	81.6
118447	7109100	644999		UTM83-8	WHI11000949	9.1	66	26.3	0.17	2.74	611	21.96	92.9
118448	7109100	644949		UTM83-8	WHI11000949	2.2	111	16.4	0.09	0.63	131	26.63	93
118449	7109100	644899		UTM83-8	WHI11000949	3.7	225	19.5	0.13	1.17	381	20.8	105.9
118450	7109100	644849		UTM83-8	WHI11000949	7.2	287	29.6	0.11	3.9	918	18.85	71.4
118452	7107151	642805	1197	UTM83-8	WHI11001170	1.9	110	22.4	0.09	0.44	145	16.09	65.4
118453	7107150	642757	1174	UTM83-8	WHI11001170	4.8	89	28.9	0.07	0.55	105	19.62	81.6
118454	7107155	642703	1153	UTM83-8	WHI11001170	1.3	185	16	0.1	0.35	254	16.99	77.4
118455	7107156	642652	1130	UTM83-8	WHI11001170	1	170	11.5	0.11	0.29	225	19.94	69.7
118456	7107152	642601	1107	UTM83-8	WHI11001170	1.3	170	17.1	0.08	0.4	327	18.63	66.2
118457	7107161	642552	1085	UTM83-8	WHI11001170	2.3	179	15.9	0.11	0.34	209	17.28	75.8
118458	7107143	642505	1067	UTM83-8	WHI11001170	3.8	97	15.6	0.08	0.37	131	13.78	84.5
118459	7107104	642502	1072	UTM83-8	WHI11001170	2.1	79	11	0.06	0.44	148	12.15	55.4
118460	7107095	642547	1084	UTM83-8	WHI11001170	3.7	100	14.4	0.06	0.52	164	19.52	84.1

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
118461	7107096	642594	1104	UTM83-8	WHI11001170	3.3	68	19	0.06	0.58	123	21.52	68.7
118462	7107102	642645	1119	UTM83-8	WHI11001170	4.1	106	18.5	0.05	0.6	145	18.74	81.1
118463	7107098	642705	1146	UTM83-8	WHI11001170	3	91	17.3	0.05	0.53	151	17.96	79
118464	7107105	642749	1168	UTM83-8	WHI11001170	2.5	99	20.1	0.03	0.51	131	20.45	75.9
118465	7107093	642844	1214	UTM83-8	WHI11001170	1.4	83	18.9	0.05	0.49	99	20.86	71.8
118466	7107092	642908	1237	UTM83-8	WHI11001170	0.3	24	26.2	0.08	0.68	20	20.94	63.6
118467	7107095	642946	1248	UTM83-8	WHI11001170	0.5	171	27.7	0.06	0.47	17	19.86	66.9
118468	7107098	642999	1258	UTM83-8	WHI11001170	1.4	37	15.7	0.06	0.74	11	18.07	80.6
118469	7107092	643056	1254	UTM83-8	WHI11001170	0.7	40	9.4	0.05	0.35	16	15.31	58.3
118470	7107092	643091	1263	UTM83-8	WHI11001170	0.4	233	21.6	0.05	0.82	20	22.18	60.4
118471	7107102	643148	1266	UTM83-8	WHI11001170	0.4	135	11.3	0.05	0.4	11	19.44	58.5
118472	7107106	643199	1258	UTM83-8	WHI11001170	0.7	150	16.5	0.09	0.49	20	30.61	112.2
118473	7107106	643240	1254	UTM83-8	WHI11001170	0.4	99	27.9	0.09	2	109	48.25	68.5
118474	7107103	643309	1234	UTM83-8	WHI11001170	0.6	53	21	0.06	0.42	16	22.17	60.2
118475	7107095	643351	1243	UTM83-8	WHI11001170	0.3	107	15.5	0.05	0.51	40	24.51	61.4
118476	7107051	643348	1210	UTM83-8	WHI11001170	0.1	56	22	0.07	0.67	61	26.17	72.2
118477	7107043	643298	1204	UTM83-8	WHI11001170	0.3	41	18.2	0.06	0.48	15	22.72	72.7
118478	7107047	643239	1218	UTM83-8	WHI11001170	1	199	30.1	0.09	0.98	263	19.23	81.4
118479	7107050	643204	1229	UTM83-8	WHI11001170	1	45	32.3	0.08	0.68	24	25.2	76.6
118480	7107041	643145	1241	UTM83-8	WHI11001170	0.4	69	16.2	0.07	0.55	38	19.87	69.9
118481	7107051	643099	1244	UTM83-8	WHI11001170	0.8	68	23	0.06	0.63	19	20.17	62.5
118482	7107053	643049	1236	UTM83-8	WHI11001170	0.3	67	17.2	0.05	0.58	29	25.09	72.9
118483	7107049	643003	1236	UTM83-8	WHI11001170	0.1	79	12.6	0.06	0.38	72	22.62	83.5
118484	7107054	642947	1229	UTM83-8	WHI11001170	0.1	121	4.1	0.06	0.24	16	17.97	44.1
118485	7107051	642895	1202	UTM83-8	WHI11001170	1.4	41	19.1	0.11	0.45	32	26.03	72.6
118486	7107047	642846	1199	UTM83-8	WHI11001170	0.5	70	16.6	0.06	0.5	86	26.18	72.7
118487	7107050	642794	1177	UTM83-8	WHI11001170	1.7	99	16.1	0.05	0.51	114	27.96	97.5
118488	7107042	642747	1163	UTM83-8	WHI11001170	1.9	101	17.1	0.05	0.55	152	29.4	92.2
118489	7107052	642697	1142	UTM83-8	WHI11001170	1	39	16.4	0.06	0.5	110	24.85	94.2
118490	7107055	642648	1137	UTM83-8	WHI11001170	1.9	112	14.1	0.07	0.54	197	20.15	89.4
118491	7107049	642604		UTM83-8	WHI11001170	2.3	97	16.8	0.05	0.67	207	25.15	83.9
118492	7107051	642547	1086	UTM83-8	WHI11001170	1.1	85	12.6	0.05	0.51	175	18.66	91.2
118493	7107049	642506	1070	UTM83-8	WHI11001170	2.3	107	16.2	0.06	0.57	179	18.32	80.8
118494	7107002	642500	1072	UTM83-8	WHI11001170	1.4	110	11.4	0.04	0.41	174	19.26	61.7
118495	7107004	642545	1089	UTM83-8	WHI11001170	2.1	108	14.6	0.07	0.58	186	19.97	92.6
118496	7107001	642594	1105	UTM83-8	WHI11001170	3.9	77	10.9	0.06	0.5	152	18.01	63.1
118497	7107002	642646	1124	UTM83-8	WHI11001170	2.6	109	14.4	0.07	0.45	152	20.39	57
118498	7110383	353997	1684	UTM83-9	WHI11001170	0.1	128	11	0.05	0.68	261	28.63	133.1
118499	7110401	646194	1512	UTM83-8	WHI11001170	3.3	98	25.4	0.11	0.91	386	24.11	113.6
118500	7110403	646152	1506	UTM83-8	WHI11001170	6	77	24.7	0.08	1.17	391	21.07	135.4
118522	7110309	354742	1557	UTM83-9	WHI11000951	0.9	19	10.1	0.15	0.6	90	45.26	96.9
118523	7110302	354788	1552	UTM83-9	WHI11000951	2.3	57	5.1	0.11	0.16	19	30.75	36.4
118524	7108304	645201	1404	UTM83-8	WHI11000951	1.3	52	33.2	0.05	0.83	15	15.27	88.4
118525	7108296	645148	1428	UTM83-8	WHI11000951	2	43	18.5	0.09	0.75	33	14.57	72.1
118526	7108300	645100	1433	UTM83-8	WHI11000951	2.2	84	25.3	0.07	1.17	85	20.11	87.5
118527	7108301	645050	1450	UTM83-8	WHI11000951	0.9	61	23.4	0.06	0.75	33	22.63	85.4
118528	7108302	644999	1462	UTM83-8	WHI11000951	0.5	354	12.3	0.13	0.43	45	24.24	135.4
118529	7108302	644949	1487	UTM83-8	WHI11000951	0.2	92	13	0.11	0.48	31	24.99	92
118530	7108302	644904	1496	UTM83-8	WHI11000951	0.6	61	16.5	0.11	0.52	69	23.64	102.6
118531	7108302	644845	1494	UTM83-8	WHI11000951	3.5	174	87.3	0.09	1.26	113	21.64	84.1
118532	7108302	644798	1498	UTM83-8	WHI11000951	4.8	93	13.8	0.19	0.86	39	23.56	75.1
118533	7108300	644749	1508	UTM83-8	WHI11000951	2.2	686	11.2	0.16	0.69	19	25.81	122.6
118534	7108302	644702	1515	UTM83-8	WHI11000951	2	65	10.1	0.09	0.56	36	22.94	100.1
118535	7108302	644649	1521	UTM83-8	WHI11000951	0.8	43	9.4	0.13	0.44	31	23.3	75.2
118536	7108301	644600	1523	UTM83-8	WHI11000951	1.5	30	15	0.13	0.83	44	28.6	80.1
118537	7108300	644549	1527	UTM83-8	WHI11000951	2.8	38	16.1	0.13	1.08	59	23.72	75.6
118538	7108299	644499	1531	UTM83-8	WHI11000951	1.5	36	11	0.12	0.94	52	30.56	73.4
118539	7108300	644446	1512	UTM83-8	WHI11000951	13.5	755	106.5	0.36	6.48	1832	32.4	97.1
118540	7108300	644402	1484	UTM83-8	WHI11000951	10.2	534	29.7	0.09	3.67	386	24.04	84.5
118541	7108298	644347	1454	UTM83-8	WHI11000951	7.2	361	19.1	0.16	0.65	286	17.04	67.9
118542	7108299	644301	1421	UTM83-8	WHI11000951	6.5	138	85.5	0.4	1.53	558	18.73	84.8
118543	7108302	644252	1392	UTM83-8	WHI11000951	4.5	106	54.6	0.3	1.35	426	25.84	109.7

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
118544	7108303	644151	1330	UTM83-8	WHI11000951	0	0	0	0	0	0	0	0
118545	7108300	644102	1300	UTM83-8	WHI11000951	2.5	77	29.4	0.1	1.74	126	31.44	99.6
118546	7108298	644049	1276	UTM83-8	WHI11000951	2.3	86	27.4	0.1	1.43	335	16.59	70.5
118547	7108302	644003	1266	UTM83-8	WHI11000951	3.1	51	26.8	0.1	0.84	718	22.21	111.9
118548	7108300	643951	1242	UTM83-8	WHI11000951	3	83	45.2	0.29	0.95	313	39.06	111
118549	7108302	643849	1238	UTM83-8	WHI11000951	3.6	56	18.7	0.08	0.5	144	21.66	113
118550	7108301	643804	1231	UTM83-8	WHI11000951	5.9	120	43.5	0.08	0.72	218	42.81	134.7
118551	7107830	638114	1456	UTM83-8	WHI11000241	0.7	49	9.3	0.12	0.73	36	28.62	96.3
118552	7107942	638316	1464	UTM83-8	WHI11000241	2.9	139	12.8	0.23	0.96	53	34.67	91.8
118553	7107833	637931	1476	UTM83-8	WHI11000241	0.4	23	2.9	0.13	0.15	23	30.83	96.3
118554	7107675	637762	1453	UTM83-8	WHI11000241	1	122	9.1	0.15	0.4	35	66.22	92.3
118555	7107529	637638	1437	UTM83-8	WHI11000241	0.2	55	6.7	0.2	0.39	25	57.57	74.9
118556	7107394	637490	1411	UTM83-8	WHI11000241	0.6	34	9.6	0.11	0.83	56	22.97	84.3
118557	7107351	637289	1377	UTM83-8	WHI11000241	0.1	39	6.6	0.14	0.51	26	15.69	64.6
118558	7108472	634308	1551	UTM83-8	WHI11000241	0.1	216	11.3	0.31	0.3	33	45.48	70.3
118559	7108380	634369	1514	UTM83-8	WHI11000241	0.1	246	8.6	0.25	0.18	60	32.8	153.8
118560	7108277	634424		UTM83-8	WHI11000241	0.6	135	7.7	0.19	0.59	38	28.8	93.6
118561	7108155	634488	1481	UTM83-8	WHI11000241	1	158	16.2	0.41	0.59	750	46.47	72.2
118562	7108533	634637	1362	UTM83-8	WHI11000241	0.3	138	22	0.14	0.74	21	75.27	158.5
118563	7108554	634647		UTM83-8	WHI11000241	0.4	154	13.6	0.14	0.53	34	39.55	106.2
118564	7108509	634766	1307	UTM83-8	WHI11000241	0.1	594	14.3	0.15	0.62	38	44.02	112.9
118565	7108430	634804	1270	UTM83-8	WHI11000241	0.8	149	9.6	0.14	0.62	66	29.16	106.2
118566	7108353	634900		UTM83-8	WHI11000241	0.3	185	7.7	0.21	0.31	74	31.55	123.3
118567	7108243	634923	1183	UTM83-8	WHI11000241	3.2	230	14.1	0.07	2.11	179	60.17	223.6
118568	7108654	634956	1437	UTM83-8	WHI11000241	0.1	129	8.4	0.13	0.53	34	22.79	93.6
118569	7108562	635004	1379	UTM83-8	WHI11000241	0.1	579	10.7	0.16	0.48	51	51.22	116.6
118570	7108463	635048	1352	UTM83-8	WHI11000241	0.1	119	9.9	0.12	0.58	37	43.03	94.4
118571	7108487	635542	1102	UTM83-8	WHI11000241	1	113	5.5	0.12	0.26	37	15.4	142.6
118572	7108457	635636	1077	UTM83-8	WHI11000241	0.5	102	6.3	0.08	0.5	66	19.75	246.8
118573	7109383	645503	1665	UTM83-8	WHI11000241	0.1	97	12.7	0.07	0.72	252	16.07	76.2
118574	7109433	645437	1662	UTM83-8	WHI11000241	10.3	348	30.5	0.17	0.92	230	17.63	91.9
118576	7109350	645504	1655	UTM83-8	WHI11000241	2.5	132	15.5	0.07	1.17	140	18.81	77.2
118577	7109258	645454	1620	UTM83-8	WHI11000241	2.9	138	30.2	0.09	1.21	488	19.32	112.2
118578	7109195	645377	1583	UTM83-8	WHI11000241	2.6	95	11.6	0.06	0.37	121	13.41	92.7
118580	7107898	642750	1027	UTM83-8	WHI11001025	1.4	152	9.8	0.09	0.35	136	20.72	80.3
118581	7107895	642649	1007	UTM83-8	WHI11001025	1.5	265	13.9	0.09	0.58	74	39.21	97.8
118582	7107895	642603	996	UTM83-8	WHI11001025	2	133	11.2	0.06	0.54	66	37.78	103.7
118583	7107897	642555	981	UTM83-8	WHI11001025	0.9	114	6.8	0.08	0.3	76	23.35	76.9
118584	7107701	643694	1523	UTM83-8	WHI11001025	1	92	18.2	0.11	0.83	98	23.54	73.9
118585	7107698	643649	1530	UTM83-8	WHI11001025	0.1	51	9.6	0.09	0.52	42	24.9	64.2
118586	7107703	643601	1499	UTM83-8	WHI11001025	1.3	68	14.3	0.07	0.5	64	34.46	98.8
118587	7107696	643550	1479	UTM83-8	WHI11001025	0.9	237	17.8	0.15	0.51	244	43.67	102.4
118588	7107695	643501	1469	UTM83-8	WHI11001025	0.9	333	23.2	0.18	0.49	427	66.89	120.9
118589	7107701	643451	1433	UTM83-8	WHI11001025	0.8	182	16.8	0.12	0.4	100	44.59	105.6
118590	7107694	643401	1406	UTM83-8	WHI11001025	1	64	9.2	0.07	1.13	43	25.49	83.3
118591	7107701	643353	1400	UTM83-8	WHI11001025	2.6	48	28.8	0.07	0.63	48	25.16	54.2
118592	7107701	643297	1385	UTM83-8	WHI11001025	5.5	181	8.3	0.12	0.38	85	43.83	100.1
118593	7107698	643245	1360	UTM83-8	WHI11001025	2.8	301	14.8	0.13	0.58	149	43.7	127.3
118594	7107694	643151	1289	UTM83-8	WHI11001025	2.4	195	16.8	0.14	0.52	95	41.11	98.8
118595	7107701	643050	1219	UTM83-8	WHI11001025	2.9	210	8.9	0.09	0.42	84	30.95	72.9
118596	7107703	643000	1190	UTM83-8	WHI11001025	2.2	321	20	0.13	0.49	136	31.6	69.5
118597	7107701	642902	1133	UTM83-8	WHI11001025	2	213	15.4	0.1	0.4	145	25.26	67.1
118598	7107698	642805	1102	UTM83-8	WHI11001025	1.4	177	15.2	0.13	0.73	46	30.23	86.1
118599	7107706	642748	1089	UTM83-8	WHI11001025	1.3	32	12.5	0.09	0.36	26	23.86	75.6
118600	7107698	642699	1069	UTM83-8	WHI11001025	0.8	124	12.8	0.11	0.43	29	29.84	79.1
118608	7108449	645151	1448	UTM83-8	WHI11000951	1.3	89	14	0.12	0.48	71	35.92	107.9
118609	7108454	645099	1478	UTM83-8	WHI11000951	0.6	161	8.8	0.13	0.56	36	21.64	67.5
118610	7108452	645048	1498	UTM83-8	WHI11000951	3.9	67	8.9	0.1	0.55	29	17.67	61.2
118611	7108449	644995	1510	UTM83-8	WHI11000951	3.4	42	10.4	0.16	0.79	39	17.48	74.7
118612	7108450	644949	1511	UTM83-8	WHI11000951	2.4	35	9.1	0.2	0.91	17	11.34	59.3
118613	7108449	644897	1506	UTM83-8	WHI11000951	2.8	51	13	0.11	0.85	39	25.45	68.6
118614	7108451	644850	1518	UTM83-8	WHI11000951	1.6	89	11.9	0.08	0.71	43	18.36	76.2

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
118615	7108450	644796	1521	UTM83-8	WHI11000951	2	67	10.5	0.12	0.64	33	18.36	68
118616	7108454	644750	1525	UTM83-8	WHI11000951	1	39	17.4	0.12	0.43	90	27.89	80.5
118617	7108449	644695	1527	UTM83-8	WHI11000951	1.2	40	11.9	0.16	0.71	31	19.34	68.7
118618	7108452	644650	1528	UTM83-8	WHI11000951	0.8	27	16.6	0.16	1.16	73	22.23	67.3
118619	7108452	644602	1525	UTM83-8	WHI11000951	3.1	118	12.5	0.15	0.71	80	18.51	73.1
118620	7108452	644549	1517	UTM83-8	WHI11000951	3.7	118	17.9	0.1	1.17	151	18.85	70.3
118621	7108451	644402	1441	UTM83-8	WHI11000951	1.8	29	21.4	0.07	1.2	18	15.7	97.4
118622	7108452	644350	1405	UTM83-8	WHI11000951	26	201	150.3	0.26	7.09	210	27.15	116
118623	7108451	644298	1374	UTM83-8	WHI11000951	5.2	188	17.6	0.18	1.93	59	50.9	223.7
118624	7108454	644248	1340	UTM83-8	WHI11000951	61.1	140	65.1	0.06	6.68	139	35.68	117.7
118625	7108452	644198	1309	UTM83-8	WHI11000951	12.1	47	57.1	0.1	4.94	71	41.49	124.5
118626	7108451	644149	1281	UTM83-8	WHI11000951	68.4	66	77.5	0.07	12.37	125	29.27	69.2
118627	7108452	644101	1255	UTM83-8	WHI11000951	20.3	132	68.7	0.21	8.31	908	40.3	131.3
118628	7108449	643997	1223	UTM83-8	WHI11000951	3.9	78	23.2	0.14	0.66	330	30.04	92.3
118629	7108449	643952	1207	UTM83-8	WHI11000951	6.1	84	42.2	0.12	1.07	362	33.32	105.5
118630	7108449	643900	1196	UTM83-8	WHI11000951	3.6	68	19.6	0.1	0.42	128	25.13	100.5
118631	7108453	643848	1189	UTM83-8	WHI11000951	5.5	82	62.6	0.41	0.95	504	34.46	97.7
118632	7108453	643798	1179	UTM83-8	WHI11000951	4.5	69	28.4	0.11	0.57	405	28.48	93.8
118633	7108447	643749	1174	UTM83-8	WHI11000951	4	62	29.3	0.1	0.76	247	36.79	104.6
118634	7108454	643697	1167	UTM83-8	WHI11000951	3	125	13.7	0.13	0.56	214	29.81	92.6
118635	7108448	643649	1169	UTM83-8	WHI11000951	6.9	148	47.8	0.12	0.84	233	26.14	98.6
118636	7108449	643600	1162	UTM83-8	WHI11000951	2.8	81	15.8	0.05	0.63	91	23.21	75.6
118637	7108450	643549	1140	UTM83-8	WHI11000951	3.2	111	21.9	0.07	0.72	148	22.43	81.6
118639	7108451	643299	1119	UTM83-8	WHI11000951	1.4	91	46.5	0.08	0.75	273	25.41	121.6
118640	7108452	643250	1109	UTM83-8	WHI11000951	1.4	46	22.5	0.06	1.44	163	25.69	84.1
118641	7108444	643200	1092	UTM83-8	WHI11000951	1.3	33	17	0.08	0.71	106	20.49	71.3
118642	7108449	643148	1079	UTM83-8	WHI11000951	0.6	42	16.7	0.08	0.58	33	17.39	92.3
118643	7108450	643097	1064	UTM83-8	WHI11000951	7.4	330	30.1	0.1	0.83	293	26.43	76.5
118644	7108449	643050	1052	UTM83-8	WHI11000951	2.6	91	20.5	0.08	0.8	138	27.31	74.2
118645	7108452	642950	1002	UTM83-8	WHI11000951	4.2	221	15.9	0.08	0.8	244	21.15	82.4
118646	7107168	643046	1306	UTM83-8	WHI11001170	3.9	150	21.6	0.08	0.46	287	18.65	65.1
118647	7107154	642998	1283	UTM83-8	WHI11001170	3.5	141	6	0.16	0.2	38	26.56	67.2
118648	7107146	642948	1267	UTM83-8	WHI11001170	1.5	25	6.2	0.12	0.34	24	23.71	72.1
118649	7107153	642902	1238	UTM83-8	WHI11001170	1.2	238	5.5	0.09	0.26	31	14.03	50.3
118650	7107143	642849	1217	UTM83-8	WHI11001170	1.4	68	14.2	0.12	0.41	37	21.75	70.8
118701	7108280	633711	1423	UTM83-8	WHI11000241	0.8	103	9.4	0.14	0.34	18	38.23	87.4
118702	7108152	633688	1353	UTM83-8	WHI11000241	0.8	198	8.6	0.15	0.51	35	36.56	92.6
118703	7108028	633620	1306	UTM83-8	WHI11000241	0.7	249	7.1	0.35	0.31	29	52.62	304.6
118706	7108600	639625	1472	UTM83-8	WHI11000241	0.2	238	7.8	0.23	0.27	27	43.12	121
118707	7108385	639708	1372	UTM83-8	WHI11000241	6.1	94	12.5	0.07	1.41	38	19.28	51.5
118708	7108233	639646	1319	UTM83-8	WHI11000241	5.1	108	12.3	0.09	1.54	169	24.61	59.5
118709	7109295	645717	1636	UTM83-8	WHI11000241	1.1	79	11.8	0.06	0.51	57	19.65	75.3
118710	7109275	645670	1629	UTM83-8	WHI11000241	7	332	50.9	0.25	2.28	499	25.81	96.3
118711	7109207	645582	1589	UTM83-8	WHI11000241	7.7	307	24.7	0.19	1.6	130	19.46	100
118712	7109176	645529	1571	UTM83-8	WHI11000241	7.6	124	38.3	0.09	2.19	241	18.13	107.7
118713	7108946	645191	1360	UTM83-8	WHI11000241	0.9	155	15.7	0.12	0.43	83	28.16	103.6
118714	7109142	644946	1294	UTM83-8	WHI11000241	4.7	135	26.1	0.15	3.83	592	18.49	93.8
118715	7110310	644446	1379	UTM83-8	WHI11000241	2	147	17.2	0.09	0.49	185	19.38	93.4
118716	7110167	644432	1326	UTM83-8	WHI11000241	3.3	113	18.4	0.08	0.43	308	19.81	75.3
118717	7110078	644400	1300	UTM83-8	WHI11000241	3	133	16.3	0.09	0.5	493	18.96	76.1
118718	7109981	644368	1282	UTM83-8	WHI11000241	1.9	115	19.4	0.09	0.62	330	24.07	90.4
118719	7109644	643927	1139	UTM83-8	WHI11000241	1.6	118	12.3	0.09	0.36	88	26.82	95.6
118720	7109622	643798	1098	UTM83-8	WHI11000241	0.8	110	8.5	0.07	0.28	69	22.17	83.9
118721	7109641	643675	1073	UTM83-8	WHI11000241	0.7	121	12.2	0.06	0.45	200	18.37	72.1
118729	7108633	633634	1659	UTM83-8	WHI11000257	1.4	75	7.7	0.13	0.57	22	43.92	98.7
118730	7108574	633549	1640	UTM83-8	WHI11000257	1	61	34.7	0.22	1.45	48	52.93	97.1
118731	7108520	633475	1633	UTM83-8	WHI11000257	0.3	74	7.3	0.11	0.54	27	49.96	101.3
118732	7108464	633396	1627	UTM83-8	WHI11000257	0.5	149	6.8	0.08	0.4	33	58.37	99.1
118733	7108402	633294	1617	UTM83-8	WHI11000257	1	286	28.4	0.18	1.04	74	109.61	122.9
118734	7108357	633219	1612	UTM83-8	WHI11000257	0.7	304	12.6	0.1	0.51	78	80.83	110.5
118738	7109294	642131	1433	UTM83-8	WHI11000257	1.1	210	23.1	0.1	1.36	95	42.49	103.8
118739	7109237	642247	1374	UTM83-8	WHI11000257	1.1	247	16.1	0.1	0.8	83	34.52	95.8

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
118740	7109228	642343	1321	UTM83-8	WHI11000257	0.9	303	27	0.11	0.67	113	60.43	147.1
118741	7109198	642348	1319	UTM83-8	WHI11000257	2.2	401	43.5	0.18	0.98	109	90.1	203.7
118742	7109185	642450	1264	UTM83-8	WHI11000257	1.2	337	32.5	0.21	0.78	212	66.41	157
118743	7109224	642541	1225	UTM83-8	WHI11000257	1.1	172	13.1	0.09	0.54	138	32.96	106.9
118744	7109092	642625	1175	UTM83-8	WHI11000257	2.4	163	20.2	0.21	0.85	113	38.56	153.2
118745	7109052	642645	1156	UTM83-8	WHI11000257	2.9	129	14.3	0.08	0.84	73	32.97	130.9
118746	7108603	642071	1251	UTM83-8	WHI11000257	0.3	202	8.4	0.1	0.51	138	29.92	97.5
118747	7108531	642159	1186	UTM83-8	WHI11000257	1.1	192	11.5	0.09	0.48	62	32.23	78.3
118748	7108480	642201	1173	UTM83-8	WHI11000257	0.8	267	16.5	0.11	0.49	103	43.74	71.1
118749	7108441	642277	1132	UTM83-8	WHI11000257	0.5	156	8.9	0.1	0.39	78	29.56	107.3
118750	7108407	642364	1082	UTM83-8	WHI11000257	0.6	176	7.7	0.08	0.34	79	24.69	69.4
118766	7108345	643803	1205	UTM83-8	WHI11000951	3.2	93	22.5	0.11	0.67	111	33.1	95.3
118767	7108354	643751	1207	UTM83-8	WHI11000951	4.4	140	34.5	0.1	0.82	224	19.19	91.6
118768	7108352	643696	1208	UTM83-8	WHI11000951	2.3	33	67.5	0.08	0.98	78	22.04	101.2
118769	7108346	643651	1196	UTM83-8	WHI11000951	4.2	109	30.3	0.07	0.84	155	23.69	91.1
118770	7108343	643600	1182	UTM83-8	WHI11000951	4.8	113	9.4	0.1	0.46	72	20.28	77.8
118771	7108352	643399	1156	UTM83-8	WHI11000951	12.7	338	1322	0.26	1.89	1825	19.93	95.5
118772	7108351	643310	1135	UTM83-8	WHI11000951	5.7	71	27.9	0.13	2.4	211	23.01	51.3
118773	7108354	643252	1112	UTM83-8	WHI11000951	2.9	219	14.6	0.11	0.51	102	15.36	46.8
118774	7108351	643204	1097	UTM83-8	WHI11000951	4.2	83	30.7	0.08	1.28	172	20.66	90.8
118775	7108352	643151	1078	UTM83-8	WHI11000951	1.4	43	16.9	0.13	0.45	49	17.26	48.9
118776	7108350	643097	1064	UTM83-8	WHI11000951	2.3	22	17	0.1	0.6	84	14.63	46.1
118777	7108344	643053	1042	UTM83-8	WHI11000951	4.3	209	32.1	0.12	2.31	418	18.84	105
118778	7108340	642997	1017	UTM83-8	WHI11000951	3.9	181	16	0.08	0.95	333	13.81	44.5
118779	7108344	642948	1003	UTM83-8	WHI11000951	3.9	208	21.3	0.11	1.08	295	17.56	73.3
118780	7108346	642907	986	UTM83-8	WHI11000951	3.5	229	32.6	0.12	1.07	375	16.73	88.1
118781	7108404	645004	1497	UTM83-8	WHI11000951	1.9	42	10.6	0.08	0.54	20	32.16	86.2
118782	7108401	645047	1485	UTM83-8	WHI11000951	0.8	92	13.1	0.09	0.66	39	20.72	76.9
118783	7108400	645096	1475	UTM83-8	WHI11000951	3.5	1061	101	0.24	1.29	356	100.73	206.8
118784	7108401	645147	1447	UTM83-8	WHI11000951	0.8	49	36.5	0.07	0.81	10	24.12	61.6
118785	7108403	645194	1416	UTM83-8	WHI11000951	0.7	84	19.1	0.08	0.82	21	25.58	96.2
118786	7108405	645243	1390	UTM83-8	WHI11000951	0.6	85	23.9	0.07	0.92	25	24.01	70
118787	7108411	645296	1351	UTM83-8	WHI11000951	0.4	74	9.4	0.08	0.61	23	16	51.2
118788	7108400	645349		UTM83-8	WHI11000951	0.4	230	10	0.08	0.63	29	15.22	55.8
118789	7108396	644951	1495	UTM83-8	WHI11001025	1.4	36	11	0.09	0.72	73	25.13	108.6
118790	7108396	644899	1505	UTM83-8	WHI11001025	0.7	41	7.6	0.11	0.57	13	14.34	55.2
118791	7108400	644851	1511	UTM83-8	WHI11001025	1.5	44	8.1	0.12	0.68	45	19.03	54.4
118792	7108401	644802	1517	UTM83-8	WHI11001025	1.6	28	8	0.1	0.54	25	19.79	79.2
118793	7108404	644753	1523	UTM83-8	WHI11001025	0.4	18	8.9	0.11	0.41	26	19.97	67.2
118794	7108398	644698	1526	UTM83-8	WHI11001025	1.2	11	10.4	0.11	0.44	17	21.11	61.9
118795	7108395	644651	1527	UTM83-8	WHI11001025	2.1	94	19.3	0.08	0.86	105	24.26	72.4
118796	7108397	644601	1526	UTM83-8	WHI11001025	7.1	62	15.8	0.12	1.15	167	20.52	68.2
118797	7108403	644545	1517	UTM83-8	WHI11001025	2.1	46	15.1	0.14	1.05	69	16.29	60.5
118798	7108400	644503	1515	UTM83-8	WHI11001025	8.2	110	65.8	0.2	2.29	238	23	94.6
118799	7108397	644448	1501	UTM83-8	WHI11001025	26.1	266	131.3	0.34	8.42	246	28.2	113.4
118800	7108401	644408	1481	UTM83-8	WHI11001025	9.1	321	53.1	0.19	3.9	492	22.35	95.6
118801	7107855	638013	1483	UTM83-8	WHI11000332	3.7	32	2.2	0.13	0.26	38	51.27	91
118802	7107760	638046	1450	UTM83-8	WHI11000332	2.3	22	7.2	0.15	0.68	31	18.25	72.3
118803	7107685	638094	1429	UTM83-8	WHI11000332	1.3	31	5.3	0.11	0.59	12	18.95	69.5
118804	7107660	638000	1427	UTM83-8	WHI11000332	0.9	86	3.2	0.12	0.39	47	20.99	92
118805	7107755	637978	1467	UTM83-8	WHI11000332	0.9	34	9.8	0.13	0.63	31	22.09	79.2
118806	7107854	637965	1479	UTM83-8	WHI11000332	1.8	35	2	0.14	0.19	26	28.64	80.3
118807	7107829	637869	1492	UTM83-8	WHI11000332	2.1	38	6.5	0.13	0.55	34	41.68	73.9
118808	7107733	637881	1477	UTM83-8	WHI11000332	0.9	37	8.1	0.12	0.28	33	31.06	107.4
118809	7107633	637871	1455	UTM83-8	WHI11000332	1.8	55	6.6	0.1	0.45	20	25.24	70.9
118810	7107527	637864	1449	UTM83-8	WHI11000332	2	46	8.8	0.12	0.58	28	34.36	82.7
118811	7107415	637773	1418	UTM83-8	WHI11000332	1	28	6.1	0.12	0.39	21	31.99	80.3
118812	7107395	637666	1422	UTM83-8	WHI11000332	0.6	76	7.6	0.11	0.5	37	38.52	114.2
118813	7107384	637567	1431	UTM83-8	WHI11000332	2	62	6.7	0.16	0.45	42	21.44	97.6
118814	7107488	637636	1445	UTM83-8	WHI11000332	1.5	67	4.7	0.15	0.17	25	50.58	105.4
118815	7107515	637747	1449	UTM83-8	WHI11000332	0.9	29	6.8	0.14	0.53	20	29.7	77.9
118816	7107612	637717	1445	UTM83-8	WHI11000332	2.6	98	8.1	0.14	0.48	49	50.77	97.9

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
118817	7107727	637776	1482	UTM83-8	WHI11000332	1.5	204	9	0.29	0.27	48	92.42	101.6
118818	7108152	638772	1622	UTM83-8	WHI11000332	14.1	76	11.4	0.07	1.02	193	20.87	22.1
118819	7108068	638842	1587	UTM83-8	WHI11000332	8.2	104	14.2	0.07	1.82	385	23.7	34.1
118820	7108025	638725	1579	UTM83-8	WHI11000332	3.7	59	16.8	0.08	1.29	211	27.07	76.5
118821	7107866	638511	1496	UTM83-8	WHI11000332	1.6	96	13.6	0.11	1.06	58	16.72	103
118822	7107868	638610	1510	UTM83-8	WHI11000332	0.7	69	7	0.13	0.71	21	19.57	77.1
118823	7107891	638708	1515	UTM83-8	WHI11000332	1.7	175	8	0.06	0.64	51	10.69	56.5
118824	7107923	638803	1519	UTM83-8	WHI11000332	2.7	116	9.2	0.06	0.87	56	15.36	50.4
118825	7107923	638921	1509	UTM83-8	WHI11000332	1.2	78	9.7	0.12	0.61	36	24.76	66.2
118826	7107810	638800	1519	UTM83-8	WHI11000332	2.9	49	7.7	0.1	0.78	39	19.76	76.1
118827	7107783	638701	1520	UTM83-8	WHI11000332	3	35	7.3	0.08	0.73	14	20.76	68.6
118828	7107695	638741	1477	UTM83-8	WHI11000332	0.9	33	9.3	0.12	0.66	27	39.3	87.9
118829	7107592	638659	1443	UTM83-8	WHI11000332	1.5	32	6.3	0.09	0.21	24	40	94.4
118830	7107494	638617	1414	UTM83-8	WHI11000332	1.4	65	7.2	0.13	0.3	17	37.52	95.2
118831	7107633	638752	1440	UTM83-8	WHI11000332	0.8	75	3.9	0.1	0.24	48	30.14	82.9
118832	7107648	638851	1460	UTM83-8	WHI11000332	1.5	25	6.5	0.16	0.53	34	19.3	83.2
118833	7107643	638960	1453	UTM83-8	WHI11000332	1.3	131	8.1	0.18	0.27	46	17.59	69.8
118834	7107566	638916	1464	UTM83-8	WHI11000332	0.9	175	4	0.14	0.08	18	56.84	87.8
118835	7107382	638997	1394	UTM83-8	WHI11000332	1.5	68	6.9	0.13	0.48	52	21.48	104
118836	7107286	639022	1359	UTM83-8	WHI11000332	1.5	91	7.9	0.11	0.55	51	20.75	84.9
118837	7108105	633845	1453	UTM83-8	WHI11000332	0.5	36	6.8	0.14	0.46	34	34.97	131.5
118838	7107912	633887	1411	UTM83-8	WHI11000332	0.9	285	6.4	0.24	0.33	95	35.48	102.4
118839	7107809	633889	1365	UTM83-8	WHI11000332	1.8	120	13.3	0.05	1.19	256	37.82	357.2
118840	7107705	633876	1322	UTM83-8	WHI11000332	0.9	142	8	0.08	0.69	150	17.28	87.8
118841	7107607	633901	1288	UTM83-8	WHI11000332	1.5	321	13.8	0.15	2.12	194	40.28	61.8
118842	7107513	633951	1253	UTM83-8	WHI11000332	1.2	79	3.2	0.12	0.37	15	9.39	39.6
118843	7107414	633979	1208	UTM83-8	WHI11000332	0.5	64	7.6	0.14	0.54	13	16.08	59
118844	7107320	634012	1174	UTM83-8	WHI11000332	0.6	200	6.8	0.12	0.34	12	20.19	79.4
118845	7107222	634028	1135	UTM83-8	WHI11000332	0.1	131	7.4	0.08	0.29	31	25.37	75.5
118846	7107133	634078	1102	UTM83-8	WHI11000332	0.1	100	6.8	0.1	0.26	21	26.95	98.8
118847	7107047	634122	1061	UTM83-8	WHI11000332	0.4	56	5.1	0.12	0.18	2	23.76	116.1
118848	7106961	634180	1022	UTM83-8	WHI11000332	0.1	51	6.1	0.1	0.39	8	14.41	65.1
118849	7106882	634246	998	UTM83-8	WHI11000332	0.1	60	5	0.13	0.34	2	15.48	97.9
118850	7106786	634293	947	UTM83-8	WHI11000332	0.9	68	7.9	0.1	0.63	40	19.3	71.6
118867	7108702	644245	1341	UTM83-8	WHI11000951	1.1	30	241.8	0.39	2.22	324	41.56	105.3
118868	7108699	644198	1317	UTM83-8	WHI11000951	2.6	66	59.6	0.17	1.09	137	35.25	113.4
118869	7108698	644155	1287	UTM83-8	WHI11000951	2.5	82	45.7	0.15	0.84	249	24	86.7
118870	7108701	644103	1263	UTM83-8	WHI11000951	1.9	57	13.7	0.08	0.43	147	21.53	75.3
118871	7108702	644046	1237	UTM83-8	WHI11000951	0.1	42	13.2	0.09	0.43	52	18.75	67.2
118872	7108704	643997	1223	UTM83-8	WHI11000951	1.4	52	14.3	0.11	0.55	82	18.27	82.3
118873	7108699	643952	1211	UTM83-8	WHI11000951	3.4	192	14.5	0.14	0.58	200	18.44	70.8
118874	7108702	643895	1187	UTM83-8	WHI11000951	1.5	98	12.7	0.07	0.43	156	20.32	81.5
118875	7108700	643848	1180	UTM83-8	WHI11000951	0.6	53	13.6	0.06	0.5	126	26.24	104.5
118876	7108700	643796	1164	UTM83-8	WHI11000951	1.8	72	19.2	0.06	1	62	33.25	100.7
118877	7108697	643750	1167	UTM83-8	WHI11000951	2.1	51	11.7	0.08	0.64	76	26.31	81.3
118878	7108705	643705	1184	UTM83-8	WHI11000951	1.3	17	14.9	0.07	0.59	89	21.71	80.3
118879	7108700	643646	1149	UTM83-8	WHI11000951	3.7	107	10.7	0.07	0.6	142	33.45	77.8
118880	7108698	643602	1140	UTM83-8	WHI11000951	2.9	112	11.1	0.07	0.7	149	26.43	81
118881	7108696	643490	1102	UTM83-8	WHI11000951	2.2	143	7.4	0.05	0.77	254	16.49	79.7
118882	7108700	643453	1082	UTM83-8	WHI11000951	2.4	152	8.9	0.08	1.06	320	18.24	83.9
118883	7108698	643398	1065	UTM83-8	WHI11000951	0.9	113	9.2	0.07	0.95	236	17.5	85.4
118884	7108703	643300	1039	UTM83-8	WHI11000951	4	36	39.3	0.08	1.36	142	23.55	106.2
118885	7108699	643250	1025	UTM83-8	WHI11000951	1.4	113	11.5	0.06	0.77	157	22.72	117.8
118886	7108701	643204	1024	UTM83-8	WHI11000951	4.7	130	25.5	0.06	1.19	187	18.88	112.2
118887	7110374	354045	1688	UTM83-9	WHI11000951	7.7	100	28.7	0.06	2.45	894	30.18	281
118888	7110370	354086	1672	UTM83-9	WHI11000951	19.4	87	24.8	0.06	2.8	495	26.17	243.8
118889	7110365	354138	1668	UTM83-9	WHI11000951	14.5	145	46.3	0.12	2.37	386	35.59	224.2
118890	7110361	354188	1687	UTM83-9	WHI11000951	23.6	114	29.5	0.08	2.29	264	32.26	84.7
118891	7110355	354238	1690	UTM83-9	WHI11000951	35.7	238	73.8	0.11	2.37	683	42.4	271.4
118892	7110351	354289	1686	UTM83-9	WHI11000951	27.7	35	70.1	0.08	1.45	50	18.22	92.6
118893	7110348	354340	1674	UTM83-9	WHI11000951	6.9	130	23.9	0.11	1.43	362	27.25	154.1
118894	7110342	354392	1664	UTM83-9	WHI11000951	14.5	203	37.1	0.11	2.41	2218	32.73	821.5

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
118895	7110337	354441	1655	UTM83-9	WHI11000951	1.4	42	13.4	0.16	1.28	67	23.76	170.4
118896	7110333	354489	1628	UTM83-9	WHI11000951	9.7	99	16	0.04	1.89	485	17.12	286.6
118897	7110326	354539	1610	UTM83-9	WHI11000951	9.2	68	9	0.03	1.27	1184	9.96	470.5
118898	7110324	354590	1589	UTM83-9	WHI11000951	6.5	89	10.8	0.04	1.34	373	10.92	217.9
118899	7110318	354641	1573	UTM83-9	WHI11000951	2	66	10	0.04	1.08	175	13.88	214.2
118900	7110313	354689	1556	UTM83-9	WHI11000951	3.4	97	9.2	0.06	0.75	31	17.11	73.2
118921	7108100	643251	1145	UTM83-8	WHI11001025	0.1	300	20.7	0.17	0.84	96	64.46	88.2
118922	7108101	643202	1128	UTM83-8	WHI11001025	1.2	248	20.3	0.1	0.37	183	36.04	103
118923	7108099	643153	1112	UTM83-8	WHI11001025	0.5	123	24	0.06	0.29	100	16.48	55.8
118924	7108101	643101	1080	UTM83-8	WHI11001025	1	139	20.3	0.07	0.37	101	28.6	75.9
118925	7108109	643003	1041	UTM83-8	WHI11001025	1.9	97	14.1	0.07	0.41	76	25.29	71.4
118926	7108097	642950	1021	UTM83-8	WHI11001025	1.3	80	13.1	0.07	0.41	93	24.17	108.9
118927	7108102	642906	1011	UTM83-8	WHI11001025	2.3	104	16.8	0.07	0.48	71	26.27	94.3
118928	7108098	642858	993	UTM83-8	WHI11001025	1.4	90	15.3	0.08	0.45	77	26.91	85.1
118929	7108090	642803	980	UTM83-8	WHI11001025	1.9	162	17.2	0.1	0.64	242	21.5	78.1
118930	7108097	642750	966	UTM83-8	WHI11001025	2.8	166	17.9	0.09	0.6	163	29.49	107.2
118931	7108101	642708	961	UTM83-8	WHI11001025	1.7	132	13.6	0.08	0.43	73	24.24	85
118932	7107802	643898	1510	UTM83-8	WHI11001025	1.1	92	23.4	0.1	1.09	61	15.38	65.3
118933	7107805	643946	1507	UTM83-8	WHI11001025	6.6	209	23.4	0.06	1.4	103	21.06	96.5
118934	7107803	643999	1494	UTM83-8	WHI11001025	3.5	337	19.1	0.12	1.2	116	18.76	69.8
118935	7107802	644047	1485	UTM83-8	WHI11001025	0.6	49	21.6	0.16	0.74	32	14.93	78.4
118936	7107799	644099	1469	UTM83-8	WHI11001025	1.6	206	12.5	0.08	0.51	57	14.79	47.5
118937	7107797	644152	1448	UTM83-8	WHI11001025	0.5	120	20.2	0.1	0.79	53	18.22	73.4
118938	7107801	644194	1423	UTM83-8	WHI11001025	0.9	95	39.3	0.12	0.52	49	21.4	69.6
118939	7107797	644248	1410	UTM83-8	WHI11001025	0.1	130	135.4	0.14	0.62	51	22.2	94.4
118940	7107799	644297	1390	UTM83-8	WHI11001025	2.3	163	41.1	0.11	1.28	85	15.81	65
118941	7107801	644353	1400	UTM83-8	WHI11001025	0.6	71	25	0.12	0.76	28	26.53	73.1
118942	7107802	644396	1388	UTM83-8	WHI11001025	1.7	43	41.2	0.13	1.24	37	16.77	66.9
118943	7107801	644450	1373	UTM83-8	WHI11001025	0.5	98	14.1	0.12	0.6	17	18.62	74
118944	7107802	644498	1363	UTM83-8	WHI11001025	0.4	115	16.5	0.12	0.62	18	29.17	106.8
118945	7107801	644546	1351	UTM83-8	WHI11001025	2.2	322	15.7	0.13	0.61	182	27.67	89.1
118946	7107805	643851	1516	UTM83-8	WHI11001025	4.5	127	29.3	0.16	1.52	63	20.87	70.7
118947	7107800	643800	1522	UTM83-8	WHI11001025	3	109	25.2	0.14	2.02	58	23.43	59.3
118948	7107800	643750	1519	UTM83-8	WHI11001025	1.3	45	19.7	0.1	0.77	83	22.71	71.9
118949	7107798	643695	1507	UTM83-8	WHI11001025	7.3	168	288.1	0.35	3.31	1031	26.61	391.4
118950	7107794	643646	1478	UTM83-8	WHI11001025	2.2	90	73.7	0.29	1.24	60	19.52	107.1
118956	7110518	644903	1369	UTM83-8	WHI11000332	1.1	102	14.2	0.06	0.49	461	18.16	64.1
118967	7107401	638582	1385	UTM83-8	WHI11000332	0.6	26	4.6	0.11	0.22	8	29.19	101.5
118968	7107300	638568	1343	UTM83-8	WHI11000332	0.1	86	5.2	0.19	0.34	25	17.25	85.8
118969	7107196	638580	1300	UTM83-8	WHI11000332	0.4	88	7.2	0.14	0.5	39	13.79	86.7
118970	7107090	638580	1270	UTM83-8	WHI11000332	0.1	93	4.9	0.16	0.16	24	17.1	89.2
118971	7106992	638576	1247	UTM83-8	WHI11000332	3.4	106	6	0.1	0.29	36	17.09	77.3
118972	7106896	638594	1210	UTM83-8	WHI11000332	0.8	218	8.7	0.12	0.39	29	23.74	115.8
118973	7106791	638639	1176	UTM83-8	WHI11000332	0.3	32	7.1	0.13	0.45	27	17.36	97.8
118974	7106692	638666	1124	UTM83-8	WHI11000332	0.7	78	5.9	0.11	0.3	21	20.07	68.5
118975	7106600	638735	1058	UTM83-8	WHI11000332	0.5	88	6.2	0.11	0.27	16	19.76	76.1
118976	7106516	638830	1040	UTM83-8	WHI11000332	1.4	57	4.2	0.1	0.2	36	23.05	75.3
118977	7106420	638860	1006	UTM83-8	WHI11000332	3.8	84	5.4	0.1	0.3	70	21.47	80.5
118978	7106318	638950	983	UTM83-8	WHI11000332	0.3	54	6.4	0.07	0.21	25	18.8	69.8
118979	7106222	638970	973	UTM83-8	WHI11000332	0.4	20	6.6	0.08	0.27	46	14.96	54.8
118980	7106137	638997	964	UTM83-8	WHI11000332	0.6	37	5.9	0.09	0.11	18	12.51	90.3
118981	7107569	639155	1405	UTM83-8	WHI11000454	0.4	21	7.2	0.09	0.47	41	28.25	79.8
118982	7107520	639241	1343	UTM83-8	WHI11000454	1	85	5.9	0.14	0.26	57	36.89	107.5
118983	7107474	639329	1295	UTM83-8	WHI11000454	0.6	95	6.6	0.1	0.41	42	29.15	96
118984	7107465	639429	1221	UTM83-8	WHI11000454	1	140	6.1	0.11	0.34	42	25.09	75.1
118985	7107413	639514	1159	UTM83-8	WHI11000454	0.3	106	5	0.11	0.29	42	34.32	94.2
118986	7107355	639607	1080	UTM83-8	WHI11000454	3.4	140	7.4	0.1	0.48	127	24.09	96.6
118987	7107194	639068	1314	UTM83-8	WHI11000454	1.7	49	7.2	0.14	0.43	34	23.4	115.5
118988	7107092	639095	1282	UTM83-8	WHI11000454	0.6	23	3.4	0.13	0.26	19	10.36	91.1
118989	7106988	639094	1250	UTM83-8	WHI11000454	0.4	35	8.3	0.13	0.2	20	24.66	68.3
118990	7106880	639120	1209	UTM83-8	WHI11000454	0.2	115	6	0.1	0.23	20	19.17	94.4
118991	7106788	639138	1168	UTM83-8	WHI11000454	0.1	70	6.2	0.13	0.24	25	23.99	74

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
118992	7106680	639139	1117	UTM83-8	WHI11000454	0.1	104	7.4	0.11	0.36	23	24.26	79.7
118993	7106589	639171	1077	UTM83-8	WHI11000454	0.1	72	4.8	0.1	0.13	17	21.89	90.8
118994	7106493	639207	1022	UTM83-8	WHI11000454	0.1	230	5.6	0.1	0.33	18	19.18	96.5
118995	7106401	639247	995	UTM83-8	WHI11000454	0.4	28	4.8	0.13	0.12	27	22.54	78.5
118996	7106288	639253	954	UTM83-8	WHI11000454	3.9	51	6.5	0.1	0.31	82	24.84	83.7
119001	7107875	638128	1439	UTM83-8	WHI11000241	1.1	20	8.5	0.12	0.66	23	25.43	75.2
119002	7107852	638032	1468	UTM83-8	WHI11000241	0.5	47	5.2	0.14	0.46	37	27.28	94.2
119003	7107775	637848	1477	UTM83-8	WHI11000241	1.1	52	5.2	0.15	0.37	36	36.69	95
119004	7107679	637822	1452	UTM83-8	WHI11000241	4.2	36	7.3	0.15	0.55	25	15.48	76.7
119005	7107592	637764	1446	UTM83-8	WHI11000241	0.9	75	6.6	0.13	0.36	37	33.98	95.9
119006	7107512	637706	1444	UTM83-8	WHI11000241	1	28	6.2	0.11	0.5	26	29.64	101.3
119007	7107443	637632	1437	UTM83-8	WHI11000241	2.2	60	8.1	0.15	0.75	37	27.65	84.8
119008	7107405	637541	1424	UTM83-8	WHI11000241	0.9	59	4.5	0.13	0.32	44	47.83	90.9
119009	7107329	637470	1396	UTM83-8	WHI11000241	1.1	72	6.7	0.16	0.51	25	24.38	96.7
119010	7107306	637370	1382	UTM83-8	WHI11000241	1.6	47	9.8	0.16	0.89	38	32.15	90.7
119011	7107268	637277	1367	UTM83-8	WHI11000241	1.5	78	6.7	0.19	0.31	20	27.05	107.2
119012	7107226	637181	1347	UTM83-8	WHI11000241	1	68	6.1	0.24	0.51	50	14.47	60.6
119013	7107187	637087	1328	UTM83-8	WHI11000241	1.9	100	7.2	0.14	0.47	27	31.87	86.2
119014	7107149	636991	1309	UTM83-8	WHI11000241	0.5	58	9.3	0.12	0.76	22	18.46	93.7
119015	7107069	636933	1296	UTM83-8	WHI11000241	0.6	61	8.9	0.11	0.65	36	24.38	110.4
119016	7106967	636921	1264	UTM83-8	WHI11000241	0.6	85	8.2	0.12	0.57	19	33.26	130.7
119017	7106932	636828	1264	UTM83-8	WHI11000241	0.7	53	7.6	0.12	0.49	26	25.16	63.6
119018	7106876	636746	1253	UTM83-8	WHI11000241	1.5	88	8.6	0.11	0.53	34	22.17	85
119019	7106875	636648	1233	UTM83-8	WHI11000241	0.6	53	5.2	0.13	0.29	16	18.86	67.5
119020	7106822	636562	1224	UTM83-8	WHI11000241	0.8	18	5.4	0.11	0.34	21	18.55	64.2
119021	7106818	636460	1211	UTM83-8	WHI11000241	1	41	5.8	0.14	0.38	20	23.36	53.4
119022	7106756	636383	1204	UTM83-8	WHI11000241	4	96	4.6	0.11	0.25	22	17.57	90.7
119023	7106700	636301	1180	UTM83-8	WHI11000241	2.3	46	7	0.1	0.41	32	13.48	84.3
119024	7106661	636206	1177	UTM83-8	WHI11000241	0.3	44	5.2	0.13	0.34	24	19.36	57.3
119026	7106576	636158	1158	UTM83-8	WHI11000241	1.3	33	3.9	0.13	0.19	17	21.97	96.5
119027	7106482	636135	1120	UTM83-8	WHI11000241	1.3	113	6.4	0.08	0.33	37	19.8	69.6
119028	7106380	636120	1067	UTM83-8	WHI11000241	0.5	134	3.7	0.1	0.2	15	17.14	87.1
119029	7106282	636123	1010	UTM83-8	WHI11000241	0.7	70	4.9	0.11	0.24	18	18.08	103.1
119030	7106190	636167	991	UTM83-8	WHI11000241	0.4	23	3.2	0.09	0.12	17	21.22	78.2
119031	7106111	636233	991	UTM83-8	WHI11000241	0.4	37	4.8	0.08	0.18	24	16.68	99.1
119032	7106025	636282	1008	UTM83-8	WHI11000241	0.1	118	5.7	0.09	0.24	388	14.44	68.9
119033	7109385	645949	1725	UTM83-8	WHI11000241	1	65	8.9	0.11	0.6	41	32.74	82
119034	7109287	645967	1716	UTM83-8	WHI11000241	1.1	79	13	0.08	0.78	46	21.19	75.3
119035	7109212	646041	1709	UTM83-8	WHI11000241	0.8	56	5.7	0.08	0.41	22	12.84	52.4
119036	7109115	646055	1670	UTM83-8	WHI11000241	0.9	34	3.6	0.05	0.24	19	20.72	79.3
119037	7109009	646027	1636	UTM83-8	WHI11000241	2.2	36	9.8	0.13	0.64	75	26.59	75.2
119038	7108919	645990	1605	UTM83-8	WHI11000241	0.6	86	10.2	0.11	0.52	33	23.78	75.3
119039	7108824	645961	1577	UTM83-8	WHI11000241	1.5	95	7.5	0.08	0.44	70	19.49	69.2
119040	7108729	645925	1562	UTM83-8	WHI11000241	0.5	205	4.2	0.07	0.16	59	19.61	58.1
119041	7108625	645914	1549	UTM83-8	WHI11000241	1.5	225	10	0.08	0.56	122	20.99	78.7
119042	7108530	645894	1513	UTM83-8	WHI11000241	0.1	116	8.8	0.09	0.28	60	26.25	52.6
119043	7108435	645872	1485	UTM83-8	WHI11000241	0.3	53	6	0.11	0.32	13	23.44	72
119044	7108325	645909	1446	UTM83-8	WHI11000241	0.4	223	9.2	0.11	0.29	42	25.98	71.4
119045	7108224	645925	1413	UTM83-8	WHI11000241	2.5	88	9.2	0.06	0.59	39	21.95	77.8
119046	7108129	645944	1399	UTM83-8	WHI11000241	0.8	50	9.4	0.19	0.39	39	23.97	55.2
119047	7108027	645933	1382	UTM83-8	WHI11000241	0.9	140	13.1	0.05	2.09	350	44.31	726.4
119048	7107930	645979	1341	UTM83-8	WHI11000241	3.3	121	36.7	0.08	2.94	241	39.96	643.4
119049	7107831	646003	1277	UTM83-8	WHI11000241	0.8	104	10.3	0.08	0.52	111	20.81	87.3
119051	7109738	646130	1875	UTM83-8	WHI11000241	2.2	137	12.4	0.1	0.87	213	31.51	170.3
119052	7109680	646073	1836	UTM83-8	WHI11000241	6.9	135	14.6	0.07	1.6	396	56.26	429.2
119053	7109603	646011	1794	UTM83-8	WHI11000241	1.7	178	11.6	0.09	0.84	181	25.18	116.8
119054	7109512	645975	1749	UTM83-8	WHI11000241	0.6	55	6.8	0.1	0.39	29	18.6	76
119055	7109444	645936	1722	UTM83-8	WHI11000241	1.5	83	8.5	0.09	0.59	32	29.92	82.6
119056	7109338	645919	1713	UTM83-8	WHI11000241	1.6	75	10.1	0.11	0.65	33	16.76	76.5
119057	7109273	645863	1688	UTM83-8	WHI11000241	1.7	103	9.1	0.09	0.6	60	34.09	70.5
119058	7109171	645782	1645	UTM83-8	WHI11000241	3.2	135	6.8	0.09	0.57	48	18.03	57
119059	7109117	645717	1633	UTM83-8	WHI11000241	3.6	35	9.8	0.12	0.9	18	19.66	73.7

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119060	7109070	645619	1606	UTM83-8	WHI11000241	3.8	254	15	0.09	0.85	83	25.47	91.4
119061	7108996	645544	1574	UTM83-8	WHI11000241	1.7	77	13.9	0.09	0.54	39	24.28	83.4
119062	7108908	645486	1546	UTM83-8	WHI11000241	1.1	109	19.6	0.16	0.84	98	62.33	93.1
119063	7108850	645419	1507	UTM83-8	WHI11000241	1	50	13.9	0.14	0.74	41	36.87	97
119064	7108793	645334	1502	UTM83-8	WHI11000241	1	20	5.7	0.11	0.28	26	19.55	75.3
119065	7108751	645242	1486	UTM83-8	WHI11000241	0.8	56	6.8	0.07	0.33	17	23.94	95
119066	7108684	645172	1477	UTM83-8	WHI11000241	0.8	95	8.5	0.09	0.4	50	40.4	82
119067	7108639	645101	1522	UTM83-8	WHI11000241	1.7	69	9.7	0.11	0.69	46	24.45	57.1
119068	7108583	644999	1519	UTM83-8	WHI11000241	1	29	9	0.16	0.92	26	15.72	53.2
119069	7108527	644914	1507	UTM83-8	WHI11000241	1.4	46	13.8	0.16	1.05	43	23.83	101
119070	7108493	644831	1515	UTM83-8	WHI11000241	1.2	56	9.2	0.13	0.81	32	20.12	85.2
119071	7108441	644742	1522	UTM83-8	WHI11000241	0.9	31	9.4	0.16	0.74	34	17.62	58.8
119072	7108426	644637	1527	UTM83-8	WHI11000241	2.5	43	15.1	0.13	4.58	190	22.26	80.6
119073	7108355	644569	1526	UTM83-8	WHI11000241	0.9	13	16.4	0.17	3.2	28	29.68	60.8
119074	7108284	644490	1526	UTM83-8	WHI11000241	1.3	42	14	0.16	0.94	58	21.45	69.7
119076	7108211	644396	1508	UTM83-8	WHI11000241	5.4	285	22.9	0.16	1.64	307	20.28	75.1
119077	7108128	644293	1488	UTM83-8	WHI11000241	1.8	60	72.9	0.14	3.72	123	20.06	88
119078	7108073	644240	1477	UTM83-8	WHI11000241	3.1	83	16.6	0.15	1.29	87	17.37	58.2
119079	7108014	644158	1472	UTM83-8	WHI11000241	2.8	126	10.4	0.15	0.46	49	13.85	78
119080	7107966	644090	1469	UTM83-8	WHI11000241	5.5	249	26.6	0.27	0.76	373	16.8	101.8
119081	7107890	644015	1490	UTM83-8	WHI11000241	8	150	25.2	0.12	2.01	175	22.63	85.9
119082	7107849	643923	1517	UTM83-8	WHI11000241	2.8	170	20.1	0.13	0.74	136	20.03	101.8
119083	7107819	643839	1517	UTM83-8	WHI11000241	4.1	149	22.5	0.19	1.92	68	17.59	76.7
119084	7107780	643750	1519	UTM83-8	WHI11000241	13.6	409	57.6	0.42	2.85	244	21.02	116.1
119085	7107728	643683	1526	UTM83-8	WHI11000241	4.5	64	35.9	0.08	1.05	204	24.83	91
119086	7107661	643622	1522	UTM83-8	WHI11000241	2.5	132	26.1	0.13	0.62	196	32.96	101.8
119087	7107606	643532	1503	UTM83-8	WHI11000241	1	46	16.9	0.1	0.4	186	30.75	115.7
119088	7107557	643459	1494	UTM83-8	WHI11000241	0.7	23	29.1	0.07	0.73	21	13.55	38.1
119089	7107480	643358	1462	UTM83-8	WHI11000241	0.6	85	7.8	0.08	0.34	37	24.6	75.3
119090	7109787	646076	1884	UTM83-8	WHI11000241	13.6	72	31	0.09	2.19	677	35.72	407.9
119091	7109778	645970	1844	UTM83-8	WHI11000241	0.4	189	22.5	0.14	0.58	108	32.15	113.5
119092	7109749	645875	1812	UTM83-8	WHI11000241	1.2	216	7.3	0.15	0.4	159	35.1	107.9
119093	7109748	645776	1777	UTM83-8	WHI11000241	0.8	50	6.1	0.09	0.29	22	25.29	78.1
119094	7109812	645666	1735	UTM83-8	WHI11000241	0.7	148	10.5	0.12	0.58	65	42.88	90.7
119095	7109864	645604	1695	UTM83-8	WHI11000241	2	236	10.1	0.08	0.53	62	32.99	89.7
119096	7109873	645508	1650	UTM83-8	WHI11000241	0.6	275	11	0.12	0.5	115	36.95	123.8
119097	7109911	645425	1606	UTM83-8	WHI11000241	0.6	225	11.2	0.1	0.49	98	30.94	115.4
119098	7109881	645310	1561	UTM83-8	WHI11000241	1	87	8.6	0.06	0.46	53	21.96	83.1
119099	7109894	645211	1534	UTM83-8	WHI11000241	0.1	65	10	0.07	0.54	47	23.08	82.6
119103	7108606	638966	1721	UTM83-8	WHI11000241	0.6	293	9.7	0.19	0.28	105	44.7	140
119104	7108506	638941	1688	UTM83-8	WHI11000241	3.8	326	27.3	0.14	5.5	3417	72.9	1123.4
119105	7108406	638897	1670	UTM83-8	WHI11000241	1.2	26	30.8	1.69	2.61	70	19.73	24.2
119106	7108322	638841	1668	UTM83-8	WHI11000241	0.6	23	12.2	0.13	2.15	69	3.57	8.5
119107	7108250	638783	1667	UTM83-8	WHI11000241	10.5	78	30.4	0.11	4.67	620	54.93	49.7
119108	7108186	638708	1653	UTM83-8	WHI11000241	11.9	41	12.4	0.04	1.06	215	11.65	167.4
119109	7108147	638613	1631	UTM83-8	WHI11000241	0.9	20	2.8	0.03	0.5	59	5.38	70.5
119110	7108096	638534	1622	UTM83-8	WHI11000241	3.5	63	9.5	0.16	1.23	379	20.9	224.5
119111	7108023	638464	1563	UTM83-8	WHI11000241	2.5	120	11.4	0.07	0.97	89	14.2	74.6
119112	7107997	638368	1532	UTM83-8	WHI11000241	0.7	126	21.1	0.08	0.92	48	14.34	50.4
119113	7107981	638268	1481	UTM83-8	WHI11000241	0.5	107	11.2	0.1	0.98	48	19.11	64.6
119114	7107890	638226	1432	UTM83-8	WHI11000241	1.8	31	10.7	0.13	0.59	32	17.73	84.3
119115	7107811	638165	1439	UTM83-8	WHI11000241	0.4	35	6.6	0.12	0.62	36	16.49	59.4
119116	7107727	638109	1432	UTM83-8	WHI11000241	0.1	75	5.1	0.08	0.36	31	17.04	88.4
119117	7107643	638051	1420	UTM83-8	WHI11000241	0.4	64	3.1	0.14	0.31	36	21.53	93.3
119118	7107561	637999	1398	UTM83-8	WHI11000241	1.1	54	7	0.08	0.55	36	19.8	102.5
119119	7107483	637931	1419	UTM83-8	WHI11000241	0.1	45	6	0.1	0.23	26	28.11	108.4
119120	7107406	637869	1412	UTM83-8	WHI11000241	0.5	24	6	0.14	0.21	9	27.86	84.4
119121	7107366	637776	1409	UTM83-8	WHI11000241	0.4	53	4.3	0.18	0.23	36	25.41	104.1
119122	7107319	637688	1406	UTM83-8	WHI11000241	0.6	30	6.4	0.14	0.41	24	111.09	82.7
119123	7107274	637598	1391	UTM83-8	WHI11000241	1	158	6.3	0.13	0.41	42	22.7	85.1
119124	7107221	637512	1387	UTM83-8	WHI11000241	1	44	11.8	0.08	0.59	45	17.72	111.7
119126	7107160	637430	1357	UTM83-8	WHI11000241	0.3	99	4.3	0.11	0.27	21	23.92	147

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
119127	7107100	637351	1327	UTM83-8	WHI11000241	1.1	125	1.4	0.17	0.16	36	7.33	98.9
119128	7107031	637276	1311	UTM83-8	WHI11000241	0.6	36	8	0.12	0.55	21	13.26	58.8
119129	7106975	637192	1295	UTM83-8	WHI11000241	0.1	107	4.5	0.09	0.36	19	12.53	52.3
119130	7106893	637135	1268	UTM83-8	WHI11000241	0.3	223	5.7	0.11	0.33	41	28.91	88.5
119131	7106813	637075	1259	UTM83-8	WHI11000241	1.9	49	7.3	0.12	0.42	26	31.75	124.4
119132	7106755	636994	1243	UTM83-8	WHI11000241	1.2	71	5.6	0.1	0.27	20	16.39	137.3
119133	7106692	636918	1201	UTM83-8	WHI11000241	0.1	150	4.8	0.14	0.31	18	16.2	82.9
119134	7106622	636847	1159	UTM83-8	WHI11000241	0.9	82	5.9	0.09	0.29	16	22.58	84
119135	7106533	636798	1135	UTM83-8	WHI11000241	0.1	144	9.7	0.11	0.36	25	36.47	81.6
119136	7106476	636711	1118	UTM83-8	WHI11000241	0.1	31	5.7	0.12	0.24	13	18.17	65.7
119137	7106428	636621	1103	UTM83-8	WHI11000241	0.6	310	10.7	0.13	0.5	479	19.08	109.7
119138	7106398	636527	1089	UTM83-8	WHI11000241	1.1	216	7.1	0.12	0.43	21	17.01	75.3
119139	7106343	636443	1071	UTM83-8	WHI11000241	0.9	110	7.5	0.12	0.4	28	19.83	73.9
119140	7106273	636375	1041	UTM83-8	WHI11000241	1.1	180	4.9	0.13	0.26	12	14.35	66.6
119141	7106205	636303	1016	UTM83-8	WHI11000241	0.1	146	6	0.12	0.28	12	13.93	64.6
119142	7106181	636207	995	UTM83-8	WHI11000241	0.1	72	4.2	0.11	0.17	2	22.58	73.8
119143	7108369	638672	1561	UTM83-8	WHI11000241	3.1	41	10.6	0.05	0.81	58	13.71	43.3
119144	7110037	354113	1850	UTM83-9	WHI11000241	4.5	158	76.3	0.1	1.76	362	29.42	153.3
119145	7110121	354159	1816	UTM83-9	WHI11000241	5	82	18.7	0.04	1.07	158	16.94	115.1
119146	7110220	354151	1762	UTM83-9	WHI11000241	7.3	113	44.1	0.08	1.91	668	30.94	304.2
119147	7110321	354184	1716	UTM83-9	WHI11000241	11.7	202	48.8	0.1	2.22	598	40.62	371.8
119148	7110363	354278	1691	UTM83-9	WHI11000241	15.6	48	46.8	0.13	1.52	53	25.07	87.3
119149	7110340	354384	1670	UTM83-9	WHI11000241	7.5	185	20.9	0.07	1.79	743	17.24	494.4
119182	7107551	643546	1488	UTM83-8	WHI11001025	1.3	116	13	0.13	0.75	39	14.47	66.6
119183	7107549	643601	1487	UTM83-8	WHI11001025	5.3	91	82.8	0.09	1.37	135	18.42	97.5
119184	7107551	643647	1507	UTM83-8	WHI11001025	6.3	157	51.8	0.13	3.11	123	28.56	109.5
119185	7107550	643698	1485	UTM83-8	WHI11001025	38.3	427	64.5	0.18	9.08	522	50.9	124.7
119186	7107553	643749	1470	UTM83-8	WHI11001025	0.2	86	23.5	0.09	1.14	40	16.02	92
119187	7107552	643796	1447	UTM83-8	WHI11001025	1	124	20.3	0.08	1.06	40	18.46	100.4
119188	7107550	643852	1429	UTM83-8	WHI11001025	1.9	113	118.4	0.14	3.26	232	19.53	68.9
119189	7107551	643896	1414	UTM83-8	WHI11001025	0.5	82	17.8	0.06	0.73	48	21.2	63.7
119190	7107553	643951	1394	UTM83-8	WHI11001025	1.1	70	31.1	0.09	0.69	60	28.3	80.6
119191	7107552	643996	1382	UTM83-8	WHI11001025	0.5	69	29	0.08	1.7	61	21.46	101.9
119192	7107551	644045	1364	UTM83-8	WHI11001025	1	155	27.8	0.09	0.74	148	18.87	88.8
119193	7107549	644098	1354	UTM83-8	WHI11001025	0.3	70	49.3	0.1	0.69	29	27.98	99.1
119194	7107553	644146	1353	UTM83-8	WHI11001025	0.3	42	15.3	0.12	0.53	31	16.98	75.5
119195	7107547	644199	1349	UTM83-8	WHI11001025	0.1	87	19	0.09	0.59	20	31.44	95.8
119196	7107549	644247	1338	UTM83-8	WHI11001025	1	68	9.9	0.11	0.36	18	22.27	77.4
119197	7107549	643450	1500	UTM83-8	WHI11001025	0.4	22	31.2	0.08	0.74	31	14.29	42.5
119198	7107548	643402	1485	UTM83-8	WHI11001025	1.2	30	52.6	0.08	1.67	125	21.36	82.1
119199	7107550	643351	1447	UTM83-8	WHI11001025	6.5	87	82.4	0.12	1.05	44	24.94	62.5
119200	7107552	643301	1408	UTM83-8	WHI11001025	14.5	54	96.1	0.08	1.4	273	37.4	69
119233	7107204	642745	1170	UTM83-8	WHI11001169	1.2	163	15.8	0.12	0.5	572	32.82	66.4
119234	7107199	642697	1147	UTM83-8	WHI11001169	0.9	192	13.4	0.12	0.35	379	27.96	86.5
119235	7107200	642648	1124	UTM83-8	WHI11001169	1.8	173	10.1	0.09	0.31	314	21.94	65.1
119236	7107203	642598	1100	UTM83-8	WHI11001169	1.4	162	12.2	0.1	0.35	282	23.74	77.9
119237	7107205	642546	1070	UTM83-8	WHI11001169	1.1	239	11.2	0.11	0.34	298	36.57	63.1
119238	7107201	642501	1055	UTM83-8	WHI11001169	1.1	151	11.3	0.08	0.34	212	26.98	69.8
119239	7109302	644350	1262	UTM83-8	WHI11001139	1.7	102	10.4	0.1	0.41	56	43.33	75.1
119240	7109305	644301	1243	UTM83-8	WHI11001139	1	63	15.1	0.06	0.61	70	25.03	74.5
119241	7109304	644249	1229	UTM83-8	WHI11001139	0.1	61	16.2	0.09	0.62	39	29.18	82.6
119242	7109300	644200	1208	UTM83-8	WHI11001139	1	66	13.1	0.1	0.43	32	36.24	89.8
119243	7109300	644148	1205	UTM83-8	WHI11001139	1.5	80	13	0.07	0.52	140	25.52	79.9
119244	7109299	644102	1203	UTM83-8	WHI11001139	3	112	13.7	0.12	0.4	101	36.85	75.3
119245	7109304	644050	1183	UTM83-8	WHI11001139	1.7	91	17.4	0.1	0.43	230	37.61	89.6
119246	7109304	644002	1173	UTM83-8	WHI11001139	16.7	104	14.8	0.14	0.68	196	22.19	72.2
119247	7109296	643850	1128	UTM83-8	WHI11001139	1.3	145	9.4	0.07	0.42	67	27.17	87.4
119248	7109303	643799	1115	UTM83-8	WHI11001139	0.2	111	6.6	0.06	0.28	86	21.62	97.1
119249	7109306	643749	1084	UTM83-8	WHI11001139	1.7	39	8.5	0.09	0.32	39	24.49	79.3
119250	7109302	643652	1064	UTM83-8	WHI11001139	0.9	165	7	0.09	0.34	147	13.89	71.3
119268	7108785	645107	1470	UTM83-8	WHI11000332	0.3	56	8.6	0.1	0.48	30	23.02	78.8
119269	7108889	645026	1421	UTM83-8	WHI11000332	0.5	115	18.5	0.12	0.32	95	24.34	80.7

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
119270	7108888	644950	1420	UTM83-8	WHI11000332	1.1	34	17.5	0.14	0.54	78	23.69	88.8
119271	7108780	644935	1440	UTM83-8	WHI11000332	0.1	146	14.6	0.11	0.63	57	27.55	89.4
119272	7108687	644891	1443	UTM83-8	WHI11000332	0.8	117	10.5	0.13	0.49	50	17.98	64.9
119273	7108677	644782	1443	UTM83-8	WHI11000332	17.4	379	36.5	0.12	4.07	452	17.35	81.1
119274	7108725	644716	1448	UTM83-8	WHI11000332	9.8	354	45.7	0.22	6.57	439	21	102.6
119275	7108697	644623	1441	UTM83-8	WHI11000332	17.7	84	127.1	0.18	8.89	512	21.51	105.7
119276	7108667	644502	1445	UTM83-8	WHI11000332	2.7	77	35.8	0.1	1.96	351	21.32	112.9
119277	7108647	644423	1448	UTM83-8	WHI11000332	2	44	25	0.09	1.14	239	18.76	124.7
119278	7108548	644414	1440	UTM83-8	WHI11000332	5.4	125	21.5	0.13	1.98	94	33.2	134.1
119279	7108441	644381	1439	UTM83-8	WHI11000332	31.3	276	147.3	0.3	9.66	331	24.71	108.6
119280	7108332	644330	1444	UTM83-8	WHI11000332	8	304	19.4	0.16	0.97	199	20.08	105.2
119281	7108243	644273	1441	UTM83-8	WHI11000332	4.7	111	47.4	0.15	2.3	412	21.96	101.5
119282	7108173	644225	1443	UTM83-8	WHI11000332	10.8	210	95.1	0.17	4.81	345	21.51	110.5
119283	7108091	644166	1445	UTM83-8	WHI11000332	3.6	127	24.5	0.13	0.87	298	16.49	102.1
119284	7108043	644101	1445	UTM83-8	WHI11000332	3.4	60	25	0.07	1.5	92	21	107.4
119285	7108006	644025	1439	UTM83-8	WHI11000332	4.1	103	15.9	0.13	0.62	98	17.48	118.3
119286	7107968	643945	1447	UTM83-8	WHI11000332	3.6	60	14.1	0.09	0.42	132	13.69	99.5
119287	7107949	643845	1441	UTM83-8	WHI11000332	3.7	100	30.9	0.23	1.03	61	19.95	114.6
119288	7107912	643757	1447	UTM83-8	WHI11000332	2.6	76	58.5	0.19	0.93	182	18.71	110.8
119289	7107893	643651	1451	UTM83-8	WHI11000332	2.7	62	13.8	0.09	0.47	114	19.86	114.3
119290	7107832	643587	1433	UTM83-8	WHI11000332	23.5	405	984.8	1.36	6.25	938	37.16	150
119291	7107763	643540	1441	UTM83-8	WHI11000332	2.4	80	468.3	1.79	0.9	630	31.73	102.8
119292	7107705	643450	1438	UTM83-8	WHI11000332	1.6	153	26.6	0.13	0.46	121	40.96	110.9
119293	7107649	643385	1447	UTM83-8	WHI11000332	7.4	54	62.7	0.06	0.51	46	23.81	50.9
119294	7107796	643318	1312	UTM83-8	WHI11000332	13.4	110	45.6	0.06	1.24	101	26.24	87.2
119295	7107877	643354	1309	UTM83-8	WHI11000332	2.4	417	34.4	0.17	0.62	118	69.57	169.2
119296	7107933	643398	1310	UTM83-8	WHI11000332	1.4	275	29.9	0.17	0.61	224	62.73	141.4
119297	7107969	633022	1526	UTM83-8	WHI11000332	0.1	122	5.2	0.12	0.22	27	29.41	61.2
119298	7107893	632951	1532	UTM83-8	WHI11000332	1.4	239	18.5	0.17	1.83	188	43.43	232
119299	7107818	632883	1511	UTM83-8	WHI11000332	2	197	45.1	0.22	2.22	316	39.54	131.2
119300	7107756	632797	1486	UTM83-8	WHI11000332	3.4	195	97.6	0.31	3.95	405	25.22	42.2
119304	7110271	355634	1222	UTM83-9	WHI11000332	0.1	178	7.6	0.1	0.36	27	26.5	120.6
119305	7110176	355587	1231	UTM83-9	WHI11000332	0.1	170	3.3	0.08	0.26	25	15.31	114.3
119306	7110096	355533	1230	UTM83-9	WHI11000332	0.1	161	2.4	0.07	0.18	32	13.7	88.9
119307	7110032	355459	1230	UTM83-9	WHI11000332	0.1	124	8.4	0.11	0.51	27	19	120.5
119308	7109987	355364	1223	UTM83-9	WHI11000332	1	33	5.5	0.07	0.37	32	28.86	80.3
119309	7109957	355254	1221	UTM83-9	WHI11000332	6.9	66	46.5	0.08	1.93	282	24.84	145.9
119310	7109818	355243	1219	UTM83-9	WHI11000332	0.9	143	3.9	0.14	0.31	26	68.13	80.6
119311	7109678	355256	1222	UTM83-9	WHI11000332	0.1	62	3.3	0.12	0.42	26	21.16	73.2
119312	7109569	355218	1218	UTM83-9	WHI11000332	0.6	68	3.2	0.13	0.55	23	28.63	145
119313	7109480	355170	1203	UTM83-9	WHI11000332	0.7	36	7.5	0.1	0.57	13	25.2	66.9
119314	7109371	355144	1197	UTM83-9	WHI11000332	0.1	88	4.8	0.11	0.33	20	21.05	47.2
119315	7109330	355053	1196	UTM83-9	WHI11000332	7	81	55.3	0.1	1.55	208	21.35	111.6
119316	7109125	354965	1203	UTM83-9	WHI11000332	0.6	60	29.8	0.14	0.38	55	57.08	253.2
119317	7109013	354907	1192	UTM83-9	WHI11000332	1.2	42	23.3	0.13	1.15	54	29	196
119318	7108918	354853	1175	UTM83-9	WHI11000332	5.9	98	138.4	0.13	10.7	1065	29.78	275.9
119319	7108815	354808	1153	UTM83-9	WHI11000332	19.2	180	67.8	0.08	4.63	593	46.01	161.1
119320	7108631	354676	1119	UTM83-9	WHI11000332	0.5	23	17.1	0.13	0.71	49	27.34	108.8
119321	7108525	354629	1085	UTM83-9	WHI11000332	1.3	87	31.4	0.14	3.8	140	72.7	286
119322	7108432	354557	1057	UTM83-9	WHI11000332	1	84	12.1	0.1	0.52	81	30.55	91.9
119323	7108258	354516	1040	UTM83-9	WHI11000332	0.9	58	6.5	0.07	0.33	84	16.44	73.6
119324	7108156	354442	1033	UTM83-9	WHI11000332	0.4	31	8.7	0.1	0.56	332	28	429.1
119325	7108065	354366	1038	UTM83-9	WHI11000332	0.1	86	13.8	0.06	0.86	131	20.88	92.7
119326	7107954	354301	1039	UTM83-9	WHI11000332	1	54	6.7	0.06	0.39	84	27.04	100.5
119327	7110489	645987	1501	UTM83-8	WHI11000332	0.3	99	6.1	0.16	0.32	14	27.23	85.8
119328	7110471	645891	1492	UTM83-8	WHI11000332	2.7	238	9.8	0.13	0.49	114	38	117.7
119329	7110456	645787	1493	UTM83-8	WHI11000332	1	182	7.9	0.12	0.44	32	29.21	84.1
119330	7110427	645689	1495	UTM83-8	WHI11000332	0.1	49	7.6	0.15	0.62	15	22.82	83.3
119331	7110327	645654	1517	UTM83-8	WHI11000332	0.9	235	13.5	0.1	0.87	126	29.53	94.5
119332	7110312	645560	1491	UTM83-8	WHI11000332	1	171	12.7	0.12	0.97	100	28.59	88.5
119333	7110311	645457	1481	UTM83-8	WHI11000332	0.1	38	11.2	0.15	0.49	13	20.9	72
119334	7110309	645338	1458	UTM83-8	WHI11000332	0.3	50	9.9	0.08	0.39	35	26.05	88.3

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
119335	7110314	645235	1452	UTM83-8	WHI11000332	0.5	58	10.2	0.13	0.49	22	22.05	75.2
119336	7110315	645133	1438	UTM83-8	WHI11000332	0.1	27	12.5	0.09	0.49	21	17.66	89.3
119337	7110318	645034	1423	UTM83-8	WHI11000332	0.4	27	11.3	0.14	0.83	31	15.27	70.8
119338	7110321	644937	1385	UTM83-8	WHI11000332	0.5	58	17.5	0.1	0.6	83	28.76	84.2
119339	7110326	644832	1397	UTM83-8	WHI11000332	0.7	62	14.8	0.13	0.42	147	19.02	69.8
119340	7110336	644728	1411	UTM83-8	WHI11000332	1.3	203	24.9	0.11	0.97	762	25.16	71.3
119341	7110332	644631	1419	UTM83-8	WHI11000332	1.3	111	33.3	0.14	0.82	433	22.06	68.6
119342	7110338	644530	1418	UTM83-8	WHI11000332	0.5	74	15.3	0.11	0.62	1374	22.04	88.8
119343	7110350	644436	1410	UTM83-8	WHI11000332	0.6	118	12.7	0.1	0.49	189	17.87	88.1
119344	7110331	644323	1426	UTM83-8	WHI11000332	1.1	74	18.3	0.13	0.59	2236	25.81	78
119345	7110371	644224	1450	UTM83-8	WHI11000332	1.7	280	19.2	0.11	0.61	645	25.52	71
119346	7110391	644134	1450	UTM83-8	WHI11000332	0.6	31	15.9	0.07	0.51	73	28.33	86
119347	7110397	644031	1369	UTM83-8	WHI11000332	0.1	160	14.6	0.1	0.55	129	33.76	93.5
119348	7110398	643937	1311	UTM83-8	WHI11000332	0.7	84	31.3	0.09	2.7	955	36.71	107.7
119349	7110424	643826	1308	UTM83-8	WHI11000332	2	148	11.7	0.08	1.12	44	48.06	104.2
119350	7110427	643738	1255	UTM83-8	WHI11000332	0.1	129	9.8	0.09	0.52	51	57.22	89.4
119351	7110292	354473	1656	UTM83-9	WHI11000241	4.9	102	9.4	0.04	1.45	2381	11.7	1212.9
119352	7110282	354576	1612	UTM83-9	WHI11000241	6.5	137	19.4	0.08	2.14	313	18.73	383.6
119353	7110284	354688	1569	UTM83-9	WHI11000241	5.1	173	14.7	0.08	0.9	94	18.33	140.8
119354	7110345	354786	1561	UTM83-9	WHI11000241	1.9	133	16.7	0.09	1.11	183	50.96	220.9
119374	7108636	641742	1488	UTM83-8	WHI11000257	5.8	374	29.3	0.95	1.83	1565	63.27	813.7
119375	7108535	641754	1462	UTM83-8	WHI11000257	1.7	114	42.9	0.12	1.48	157	18.82	46.2
119376	7108430	641737	1436	UTM83-8	WHI11000257	1.2	123	100.2	0.49	3.13	373	59.51	224.4
119377	7108327	641694	1405	UTM83-8	WHI11000257	0.8	118	13.9	0.11	1.43	105	34.25	71.3
119378	7108235	641657	1377	UTM83-8	WHI11000257	0.3	124	12.9	0.13	1.37	151	33.91	105.8
119379	7108145	641623	1350	UTM83-8	WHI11000257	0.5	134	14.9	0.1	1.49	133	30.94	67.2
119380	7108043	641626	1322	UTM83-8	WHI11000257	2.5	84	31.2	0.19	1.98	431	41.98	149.6
119381	7107943	641619	1303	UTM83-8	WHI11000257	0.6	141	30.2	0.18	2.54	292	65.3	385.5
119382	7107848	641599	1271	UTM83-8	WHI11000257	0.7	124	13.3	0.26	1.09	131	28.79	69.3
119383	7107746	641586	1222	UTM83-8	WHI11000257	1.5	83	15.8	0.17	1.29	45	41.5	79.5
119384	7107648	641592	1159	UTM83-8	WHI11000257	0.3	103	12.2	0.13	0.67	62	28.59	76
119385	7107546	641594	1084	UTM83-8	WHI11000257	0.1	100	11.3	0.13	0.79	48	31.83	110.8
119386	7107440	641594	1037	UTM83-8	WHI11000257	0.4	34	9.9	0.1	0.53	32	23.63	67.9
119387	7107340	641588	991	UTM83-8	WHI11000257	0.2	76	11.9	0.12	0.78	67	30.11	68.2
119388	7107239	641596	949	UTM83-8	WHI11000257	1.4	76	13.5	0.1	0.89	137	26.46	80
119389	7107131	641626	925	UTM83-8	WHI11000257	0.4	90	13.2	0.07	0.79	147	25.72	78.2
119390	7107030	641622	910	UTM83-8	WHI11000257	0.1	28	14.7	0.1	0.65	94	26.23	95.9
119391	7108377	640124	1596	UTM83-8	WHI11000257	0.2	102	5.4	0.15	0.25	66	40.15	57.7
119392	7108267	640126	1561	UTM83-8	WHI11000257	0.3	70	5.2	0.16	0.23	23	38.12	77.1
119393	7108163	640145	1521	UTM83-8	WHI11000257	3.7	32	5.3	0.17	0.54	31	26.17	93.6
119394	7108062	640173	1492	UTM83-8	WHI11000257	0.5	42	4.9	0.17	0.31	15	39.52	104.7
119395	7107954	640182	1459	UTM83-8	WHI11000257	0.7	49	4.4	0.14	0.36	37	49.51	80.9
119396	7107852	640213	1424	UTM83-8	WHI11000257	0.4	20	5.9	0.11	0.44	20	25.42	73.5
119397	7107750	640213	1396	UTM83-8	WHI11000257	0.3	78	4.5	0.14	0.25	32	51.2	88.2
119398	7107646	640213	1364	UTM83-8	WHI11000257	0.1	48	6.8	0.14	0.23	2	28.74	84.2
119399	7107536	640263	1331	UTM83-8	WHI11000257	0.1	64	5.5	0.12	0.49	27	33.62	113.1
119401	7109747	646046	1859	UTM83-8	WHI11000241	6	92	80.3	0.24	8.03	731	52.24	404.8
119402	7109727	645953	1831	UTM83-8	WHI11000241	1.4	141	5.9	0.1	0.37	175	21.53	75.4
119403	7109684	645850	1806	UTM83-8	WHI11000241	1.7	74	6.6	0.11	0.42	24	28.4	101
119404	7109625	645788	1777	UTM83-8	WHI11000241	1.4	227	16.4	0.09	0.42	39	26.39	89.2
119405	7109538	645710	1726	UTM83-8	WHI11000241	1	93	7.5	0.08	0.45	24	25.33	96
119406	7109485	645608	1704	UTM83-8	WHI11000241	2.6	51	17.9	0.08	0.8	20	18.07	85.3
119407	7109436	645535	1689	UTM83-8	WHI11000241	9.3	176	15.5	0.08	1.7	187	24.27	89.4
119408	7109473	645439	1683	UTM83-8	WHI11000241	19.6	296	29.7	0.09	5.04	144	21.02	68.3
119409	7109526	645342	1659	UTM83-8	WHI11000241	30.7	232	29.1	0.29	4.11	163	17.84	64.2
119410	7109575	645273	1632	UTM83-8	WHI11000241	27.6	266	36.4	0.2	3.04	254	21.48	69.6
119411	7109582	645209	1611	UTM83-8	WHI11000241	6.2	141	496.7	4.07	23.43	14621	17.35	79.3
119412	7109645	645118	1576	UTM83-8	WHI11000241	1.5	77	18.6	0.11	0.7	211	19.98	79.6
119413	7109635	645007	1553	UTM83-8	WHI11000241	7.3	333	74.1	0.32	2.99	1713	17.01	77.3
119414	7109707	644923	1532	UTM83-8	WHI11000241	0.2	48	3.6	0.08	0.29	135	10.08	104.3
119415	7109784	644863	1511	UTM83-8	WHI11000241	3.2	212	30.4	0.13	1.31	392	18.06	119.5
119416	7109744	644777	1494	UTM83-8	WHI11000241	1	70	10.5	0.09	0.69	270	18.72	121.7

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
119417	7109689	644692	1487	UTM83-8	WHI11000241	1	73	9	0.13	0.65	48	31.58	80.3
119418	7109630	644610	1463	UTM83-8	WHI11000241	0.7	37	19.2	0.11	0.46	273	26.89	92
119419	7109536	644505	1449	UTM83-8	WHI11000241	2	123	107.6	0.16	1.25	320	20.81	85.9
119420	7109949	644887	1479	UTM83-8	WHI11000241	0.2	35	18.1	0.06	0.32	124	25.67	87.8
119421	7108272	632339	1378	UTM83-8	WHI11000257	2.3	122	7.8	0.1	1.74	330	19.51	97.6
119422	7108290	632261	1339	UTM83-8	WHI11000257	1.1	85	6.2	0.11	0.42	314	15.08	113.9
119426	7109581	642160	1658	UTM83-8	WHI11000257	1.2	82	9.7	0.17	0.82	37	28.72	86.1
119427	7109622	642246	1622	UTM83-8	WHI11000257	1.3	124	13.3	0.14	0.67	28	34.51	101.1
119428	7109672	642316	1588	UTM83-8	WHI11000257	0.3	124	16.4	0.12	0.75	49	40.87	99.6
119429	7109719	642391	1555	UTM83-8	WHI11000257	0.6	45	11.6	0.13	0.69	30	23.66	63.5
119430	7109798	642394	1541	UTM83-8	WHI11000257	1	57	10.5	0.17	0.64	39	33.8	105.6
119431	7109904	642387	1516	UTM83-8	WHI11000257	1.6	69	9.2	0.15	0.77	35	27.07	90.4
119432	7109997	642402	1496	UTM83-8	WHI11000257	3.7	304	8.9	0.18	0.81	83	63.99	97.7
119433	7110051	642314	1485	UTM83-8	WHI11000257	3.2	44	9.2	0.14	0.84	27	23.27	64.9
119434	7110228	642251	1440	UTM83-8	WHI11000257	1.4	423	15.2	0.34	0.53	188	58.27	242.7
119435	7110313	642153	1354	UTM83-8	WHI11000257	0.9	205	19.9	0.22	0.84	235	39.16	82.9
119436	7110408	642221	1321	UTM83-8	WHI11000257	1.3	183	9.1	0.15	0.52	127	20.35	83.2
119437	7109701	642476	1544	UTM83-8	WHI11000257	1.2	85	13.8	0.14	0.68	337	46.23	98.8
119438	7109721	642571	1500	UTM83-8	WHI11000257	1.1	136	22.6	0.11	0.59	63	68.31	135.2
119439	7109758	642662	1461	UTM83-8	WHI11000257	3.2	50	12	0.15	1	43	26.34	77.2
119440	7109796	642757	1420	UTM83-8	WHI11000257	1.8	225	9.5	0.18	1	62	25.33	70.5
119441	7109818	642849	1380	UTM83-8	WHI11000257	3.1	774	21.8	0.27	0.95	120	61.04	143.1
119442	7109887	642926	1335	UTM83-8	WHI11000257	0.6	340	5.3	0.1	0.56	61	35.84	69.5
119443	7109944	643003	1260	UTM83-8	WHI11000257	1.1	363	11.2	0.11	0.84	112	45.92	94.4
119444	7110053	643005	1195	UTM83-8	WHI11000257	1.5	221	24.3	0.18	0.94	83	59.39	130.5
119445	7110135	643055	1124	UTM83-8		0	0	0	0	0	0	0	0
119446	7110188	643128	1055	UTM83-8	WHI11000257	1	260	6.8	0.11	0.37	66	38.42	80.8
119447	7110264	643173	1022	UTM83-8	WHI11000257	1.5	117	12.3	0.08	0.65	183	27.35	87.8
119451	7109889	645144	1525	UTM83-8	WHI11000241	0.7	34	12	0.08	0.55	43	21.79	87.2
119452	7109942	645045	1507	UTM83-8	WHI11000241	1	67	11.6	0.11	0.5	61	24.74	83.4
119453	7109981	644941	1481	UTM83-8	WHI11000241	2	111	16.5	0.09	0.52	91	30.37	104.8
119454	7109953	644843	1472	UTM83-8	WHI11000241	2.2	34	18.8	0.1	0.63	99	32.01	92.7
119455	7110000	644788	1454	UTM83-8	WHI11000241	1.2	40	25.3	0.1	0.62	105	28.3	114
119456	7110052	644766	1452	UTM83-8	WHI11000241	0.8	43	18.4	0.15	0.54	97	29.66	78.8
119457	7110005	644589	1409	UTM83-8	WHI11000241	1	73	23.4	0.12	0.55	232	21.65	121
119458	7109921	644640	1435	UTM83-8	WHI11000241	1.8	98	19.1	0.12	0.56	144	25.54	73.4
119459	7109871	644644	1438	UTM83-8	WHI11000241	2.2	187	17.8	0.14	0.57	255	24.83	118.1
119460	7109823	644565	1426	UTM83-8	WHI11000241	1.7	128	18.2	0.11	0.57	153	30.09	96.4
119461	7109754	644615	1458	UTM83-8	WHI11000241	0.8	100	26.5	0.12	0.57	168	35.37	107.8
119462	7109682	644540	1456	UTM83-8	WHI11000241	0.9	66	23.1	0.13	0.72	243	29.27	91.1
119463	7109850	644767	1474	UTM83-8	WHI11000241	2.9	50	12.4	0.19	0.73	113	18.75	98.6
119464	7109903	644872	1487	UTM83-8	WHI11000241	0.1	98	13.9	0.07	0.51	72	25.36	76.1
119465	7109556	646149	1810	UTM83-8	WHI11000241	0.5	108	7.1	0.11	0.32	42	34.35	112.8
119466	7109453	646144	1810	UTM83-8	WHI11000241	0.1	165	17.4	0.11	0.51	50	23.16	86
119467	7109383	646207	1756	UTM83-8	WHI11000241	0.1	139	8.1	0.07	0.39	27	28.38	104.2
119468	7109310	646266	1692	UTM83-8	WHI11000241	1	227	16.2	0.14	0.49	57	43.34	131.5
119469	7109234	353762	1635	UTM83-9	WHI11000241	0.1	244	9.1	0.15	0.52	51	58.97	110.3
119470	7109156	353798	1584	UTM83-9	WHI11000241	0.7	250	18.3	0.18	0.61	94	76.81	131.3
119471	7109074	353839	1534	UTM83-9	WHI11000241	0.3	220	23.5	0.25	1.23	56	57.22	88.6
119472	7108969	353872	1473	UTM83-9	WHI11000241	0.1	88	9	0.09	0.36	36	30.92	130
119473	7108871	353913	1437	UTM83-9	WHI11000241	0.1	114	11.6	0.1	0.63	66	37.04	99.5
119474	7108777	353948	1411	UTM83-9	WHI11000241	0.2	39	9.4	0.1	0.32	36	33.79	84.1
119476	7108677	353985	1392	UTM83-9	WHI11000241	0.1	42	10.6	0.24	0.51	42	36.89	109.1
119477	7109803	354027	1850	UTM83-9	WHI11000241	0.1	169	13.4	0.15	0.89	124	32.14	126.9
119478	7109731	354092	1820	UTM83-9	WHI11000241	0.1	127	9.6	0.27	0.23	70	31.64	123.9
119479	7109629	354153	1768	UTM83-9	WHI11000241	0.1	152	8.8	0.25	0.23	76	35.63	123
119480	7109611	354173	1753	UTM83-9	WHI11000241	5.4	56	57.4	0.25	0.79	207	34.36	105.1
119481	7109546	354217	1739	UTM83-9	WHI11000241	10.7	50	210.3	0.5	2.84	2232	47.92	567.2
119482	7109476	354264	1719	UTM83-9	WHI11000241	0.1	90	15.5	0.13	0.47	117	32.07	82.1
119483	7109412	354293	1668	UTM83-9	WHI11000241	31.4	180	54	0.17	3.65	1954	64.57	1295.3
119484	7109304	354353	1589	UTM83-9	WHI11000241	28	77	52	0.06	1.77	278	19.52	340.7
119485	7109231	354384	1569	UTM83-9	WHI11000241	32.2	116	81.4	0.08	2.56	199	33.55	359.4

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
119486	7109144	354356	1532	UTM83-9	WHI11000241	1.1	146	8.6	0.31	0.31	98	39.28	137.9
119487	7109060	354364	1474	UTM83-9	WHI11000241	0.9	131	6.9	0.17	0.26	57	28.38	111.6
119488	7108279	633042	1645	UTM83-8	WHI11000257	1.3	253	10.9	0.12	0.46	55	38.12	105.9
119489	7108299	632942	1613	UTM83-8	WHI11000257	2	382	22.9	0.13	0.92	87	62	152.9
119490	7108328	632852	1589	UTM83-8	WHI11000257	0.9	99	12.2	0.15	0.7	57	94.31	105
119491	7108356	632739	1573	UTM83-8	WHI11000257	1.2	77	10.2	0.09	0.65	58	30.73	85.1
119492	7108424	632700	1535	UTM83-8	WHI11000257	6.5	213	10.8	0.12	1.01	261	18.11	60.2
119493	7108506	632636	1493	UTM83-8	WHI11000257	3.7	118	8.3	0.13	1.32	252	25.25	127.7
119494	7108593	632603	1453	UTM83-8	WHI11000257	2.6	62	5.9	0.13	0.44	81	14.76	104.6
119495	7108601	632491	1399	UTM83-8	WHI11000257	3.1	29	3.6	0.14	0.31	29	37.95	107.9
119496	7108639	632456	1351	UTM83-8	WHI11000257	3.8	115	4.2	0.2	0.43	72	62.64	133.8
119497	7108309	632602	1493	UTM83-8	WHI11000257	1.3	53	5.4	0.09	0.24	87	20.82	77.9
119498	7108317	632501	1451	UTM83-8	WHI11000257	1.9	111	10.1	0.11	0.56	102	22.82	94.3
119499	7108276	632426	1415	UTM83-8	WHI11000257	13.6	192	5.8	0.11	0.4	117	18.72	97.7
119616	7107651	643803	1488	UTM83-8	WHI11001025	1.7	104	22	0.08	1.99	95	20.44	232.3
119617	7107652	643852	1482	UTM83-8	WHI11001025	0.9	94	15.9	0.05	1	98	22.07	121.1
119618	7107648	643900	1466	UTM83-8	WHI11001025	1.8	149	20.8	0.09	0.94	210	21.4	89
119619	7107656	643950	1449	UTM83-8	WHI11001025	1.5	104	24.1	0.11	1.26	164	13.46	95.8
119620	7107651	643998	1430	UTM83-8	WHI11001025	1	127	13.1	0.08	0.56	100	22.18	140.8
119621	7107655	644050	1420	UTM83-8	WHI11001025	0.7	159	14.8	0.08	0.58	75	21.73	72.2
119622	7107654	644097	1405	UTM83-8	WHI11001025	0.6	152	49.8	0.1	0.43	77	19.77	76.7
119623	7107652	644145	1395	UTM83-8	WHI11001025	0.7	45	22.3	0.06	0.5	20	16.49	97.5
119624	7107653	644197	1381	UTM83-8	WHI11001025	1.5	110	20	0.08	0.48	53	14.4	70
119625	7107658	644244	1366	UTM83-8	WHI11001025	0.7	190	42.3	0.09	0.46	84	14.23	58.8
119626	7107654	644301	1348	UTM83-8	WHI11001025	1.4	142	46	0.07	0.45	78	23.07	58.2
119627	7107654	644341	1339	UTM83-8	WHI11001025	2.2	217	192.9	0.08	0.98	131	17.94	87.9
119628	7107661	643755	1494	UTM83-8	WHI11001025	1.3	99	17.2	0.05	1.14	75	18.73	99.1
119629	7107649	643704	1511	UTM83-8	WHI11001025	2	107	18.6	0.05	0.49	104	32.28	91.6
119630	7107652	643641	1518	UTM83-8	WHI11001025	0.7	89	13.8	0.07	0.44	72	29.81	102.3
119631	7107644	643595	1509	UTM83-8	WHI11001025	11.8	49	37.2	0.13	0.89	74	17.11	69.7
119632	7107653	643547	1501	UTM83-8	WHI11001025	1	185	10.5	0.11	0.42	107	47.49	83.5
119633	7107652	643502	1479	UTM83-8	WHI11001025	1.8	209	18.7	0.1	0.62	229	32.47	188.3
119634	7107656	643444	1445	UTM83-8	WHI11001025	1.1	32	14.5	0.06	0.64	42	21.28	95.8
119635	7107655	643384	1438	UTM83-8	WHI11001025	34	60	187.1	0.08	0.81	39	33.07	59.4
119636	7107646	643355	1420	UTM83-8	WHI11001025	47.6	84	191.8	0.15	1.17	89	42.52	69
119637	7107655	643296	1396	UTM83-8	WHI11001025	2.8	187	18	0.09	2.64	115	30.58	112.4
119638	7107649	643252	1370	UTM83-8	WHI11001025	3.4	139	13.6	0.09	0.81	110	25.15	74.5
119639	7107652	643204	1333	UTM83-8	WHI11001025	1.2	197	7.6	0.08	0.32	104	20.59	75.6
119640	7107646	643150	1297	UTM83-8	WHI11001025	1.1	194	8.7	0.08	0.35	83	25.61	68.8
119641	7107647	643107	1268	UTM83-8	WHI11001025	1	213	7.7	0.08	0.27	108	22.08	76.7
119642	7107647	643003	1192	UTM83-8	WHI11001025	1.1	119	25.6	0.08	0.53	42	38.04	73.7
119643	7107643	642949	1155	UTM83-8	WHI11001025	2.4	177	13.2	0.11	0.35	160	17.62	61.9
119644	7107651	642850	1107	UTM83-8	WHI11001025	2.2	130	13	0.09	0.28	131	17.35	74.9
119645	7107660	642790	1086	UTM83-8	WHI11001025	1.2	145	12.6	0.07	0.28	122	18.6	85.7
119646	7107650	642690	1053	UTM83-8	WHI11001025	1.8	208	13.3	0.08	0.38	155	20.06	85.7
119647	7107651	642650	1044	UTM83-8	WHI11001025	2.2	123	12.2	0.08	0.27	110	19.53	78.6
119648	7107648	642604	1034	UTM83-8	WHI11001025	1.6	131	10.8	0.08	0.27	117	20.81	80.5
119649	7107651	642494	1011	UTM83-8	WHI11001025	1.6	132	12.3	0.07	0.28	116	17.04	79.5
119650	7107297	643895	1344	UTM83-8	WHI11001171	2	85	36.7	0.08	1.47	74	21.59	72.3
119675	7110036	353911		UTM83-9	WHI11000918	0.2	350	9.3	0.29	0.27	255	46.31	115.1
119676	7110041	353861		UTM83-9	WHI11000918	0.7	310	9.7	0.23	0.32	162	50.44	127
119677	7110045	353811		UTM83-9	WHI11000918	13.2	48	28.1	0.05	1.83	315	19.51	151.5
119678	7110050	353761		UTM83-9	WHI11000918	6.7	100	58.3	0.19	2.35	688	75.83	245.2
119679	7110050	646199		UTM83-8	WHI11000919	11.6	290	42.7	0.17	2.77	725	117.08	375.8
119680	7110050	646149		UTM83-8	WHI11000919	15.9	132	62.2	0.24	3.62	894	74.92	225.8
119681	7110050	646049		UTM83-8	WHI11000919	3.1	174	23.1	0.22	1.34	293	143.14	227.7
119682	7110050	645999		UTM83-8	WHI11000919	2.7	162	29.6	0.18	1.44	288	70.84	205.8
119683	7110050	645949		UTM83-8	WHI11000919	2.3	222	32.2	0.22	1.51	364	82.84	229.2
119684	7110050	645899		UTM83-8	WHI11000919	1.8	236	12.6	0.16	0.56	126	90.43	137.2
119685	7110050	645849		UTM83-8	WHI11000919	1.3	313	9.4	0.14	0.41	72	76.74	129.9
119686	7110050	645799		UTM83-8	WHI11000919	0.5	169	7.9	0.13	0.37	90	44.19	104.8
119687	7110050	645749		UTM83-8	WHI11000919	1	248	6.7	0.13	0.34	81	49.6	93.2

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
119688	7110050	645699		UTM83-8	WHI11000919	0.6	168	5.4	0.13	0.37	41	45.43	89.8
119689	7110050	645648		UTM83-8	WHI11000919	0.9	221	12.8	0.12	0.47	50	63.8	111.1
119690	7110050	645598		UTM83-8	WHI11000919	1.1	144	10.6	0.16	0.52	55	110.11	100.3
119691	7110050	645499		UTM83-8	WHI11000919	2.6	346	13.3	0.11	0.87	93	105.93	103.9
119692	7110050	645449		UTM83-8	WHI11000919	1.1	290	9.2	0.08	0.49	78	49.45	105.7
119693	7110050	645399		UTM83-8	WHI11000919	0.5	115	12.4	0.08	0.49	31	36.63	105.2
119694	7110050	645349		UTM83-8	WHI11000919	1	248	8.7	0.1	0.44	64	38.13	87.2
119695	7110050	645299		UTM83-8	WHI11000919	0.1	27	10.1	0.11	0.58	11	24.08	79.1
119696	7110050	645249		UTM83-8	WHI11000919	1.5	205	7.9	0.11	0.42	80	26.53	93.1
119697	7110050	645199		UTM83-8	WHI11000919	0.5	51	7.7	0.1	0.58	33	24.87	69.1
119698	7110050	645149		UTM83-8	WHI11000919	0.7	42	9.7	0.1	0.54	20	24.97	79.1
119699	7110050	645099		UTM83-8	WHI11000919	0.6	66	9.1	0.09	0.44	39	24.95	66.1
119700	7110050	645049		UTM83-8	WHI11000919	0.8	120	19.3	0.09	0.55	59	64.69	99.3
119767	7107551	643244	1373	UTM83-8	WHI11001025	1.2	193	11.1	0.11	0.61	74	44.71	88
119768	7107549	643202	1344	UTM83-8	WHI11001025	0.7	157	7.1	0.09	0.35	110	31.75	90.4
119769	7107553	643146	1295	UTM83-8	WHI11001025	1.9	316	12.3	0.08	0.43	129	30.38	86
119770	7107551	643051	1233	UTM83-8	WHI11001025	0.7	202	14.4	0.08	0.43	140	30.69	71.5
119771	7107550	642999	1197	UTM83-8	WHI11001025	0.8	247	9.3	0.09	0.39	200	25.76	63.5
119772	7107555	642951	1166	UTM83-8	WHI11001025	1	192	5.2	0.1	0.21	178	23.54	59.8
119773	7107553	642897	1140	UTM83-8	WHI11001025	1.2	197	9	0.07	0.45	169	28.46	71.8
119774	7107553	642852	1124	UTM83-8	WHI11001025	1	191	8.9	0.07	0.41	171	23.96	75.8
119775	7107550	642800	1102	UTM83-8	WHI11001025	1.2	192	10.7	0.07	0.36	126	28.05	79.8
119776	7107550	642746	1081	UTM83-8	WHI11001025	2.9	135	14.2	0.11	0.33	117	22.98	83.1
119777	7107549	642702	1072	UTM83-8	WHI11001025	2.1	134	8	0.1	0.27	139	23.51	86.5
119778	7107552	642646	1057	UTM83-8	WHI11001025	1.2	100	6.9	0.09	0.21	88	20.45	75.4
119779	7107549	642550	1030	UTM83-8	WHI11001025	1.1	139	7.9	0.1	0.25	109	24.33	83.2
119780	7107252	643300	1339	UTM83-8	WHI11001169	0.8	74	15.6	0.08	0.54	69	32.01	94.6
119781	7107204	643297	1306	UTM83-8	WHI11001169	1	97	19.7	0.11	0.73	189	39.55	91.6
119782	7107201	643345	1293	UTM83-8	WHI11001169	1.8	116	18.7	0.11	0.61	235	43.83	74.3
119783	7107201	643401	1289	UTM83-8	WHI11001169	4.1	198	19.4	0.1	0.66	78	41.61	99.4
119784	7107197	643451	1297	UTM83-8	WHI11001169	0.9	166	21.6	0.09	0.52	79	22.6	66.5
119785	7107204	643498	1298	UTM83-8	WHI11001169	0.9	77	10.6	0.11	0.46	33	43.01	106.6
119786	7107203	643546	1287	UTM83-8	WHI11001169	2.2	22	63.7	0.09	1.23	72	25.09	77.5
119787	7107204	643596	1268	UTM83-8	WHI11001169	1.8	116	91.8	0.1	1.71	164	27.36	76.2
119788	7107201	643647	1276	UTM83-8	WHI11001169	1.2	141	64.6	0.09	1.24	44	24.52	86
119789	7107200	643698	1277	UTM83-8	WHI11001169	1.3	87	97.2	0.12	0.94	47	23.95	63.7
119790	7107198	643750	1274	UTM83-8	WHI11001169	1	142	53.6	0.09	0.91	48	26.35	72.8
119791	7107202	643249	1315	UTM83-8	WHI11001169	1	212	20.2	0.12	0.64	807	26.39	70.3
119792	7107199	643197	1328	UTM83-8	WHI11001169	0.4	190	19.1	0.12	0.42	36	31.69	127.2
119793	7107204	643150	1331	UTM83-8	WHI11001169	1.1	72	27.9	0.1	0.84	36	21.14	114.9
119794	7107202	643095	1322	UTM83-8	WHI11001169	0.7	198	15.7	0.08	0.59	35	36.28	187.9
119795	7107206	643050	1314	UTM83-8	WHI11001169	0.9	101	11.9	0.08	0.53	44	33.6	99.9
119796	7107201	642995	1288	UTM83-8	WHI11001169	2.4	256	22.4	0.16	0.61	98	37.8	109.3
119797	7107202	642946	1254	UTM83-8	WHI11001169	6.1	45	6	0.07	0.35	24	14.97	60.6
119798	7107204	642900	1232	UTM83-8	WHI11001169	0.8	205	7.5	0.12	0.3	122	31.25	90.6
119799	7107203	642850	1214	UTM83-8	WHI11001169	1.1	164	24.3	0.08	0.38	116	19.08	69.1
119800	7107200	642802	1197	UTM83-8	WHI11001169	1.8	94	50.7	0.09	0.85	177	19.08	81.4
119811	7109550	645600	1705	UTM83-8	WHI11000918	1	39	8.7	0.08	0.5	35	26.4	82.6
119812	7109549	645551	1694	UTM83-8	WHI11000918	2.4	42	10.4	0.1	0.63	29	21.22	78.8
119813	7109548	645497	1685	UTM83-8	WHI11000918	1.9	91	10.6	0.1	0.58	37	18.61	84.4
119814	7109547	645453	1679	UTM83-8	WHI11000918	1.8	118	11.8	0.1	0.53	83	27.31	101.2
119815	7109552	645398	1666	UTM83-8	WHI11000918	2.2	120	15.2	0.07	0.59	99	27.04	93.5
119816	7109550	645349	1655	UTM83-8	WHI11000918	1.3	124	13.5	0.07	0.76	73	22.83	77.7
119817	7109553	645303	1640	UTM83-8	WHI11000918	8.2	207	22.3	0.14	1.62	178	29.51	66.7
119818	7109555	645252	1609	UTM83-8	WHI11000918	14.2	379	33.9	0.16	2.07	241	28.5	111.4
119819	7109552	645204	1587	UTM83-8	WHI11000918	10.9	374	62	0.34	1.99	3513	27.87	94.1
119820	7109555	645150	1576	UTM83-8	WHI11000918	6.3	304	75.5	0.2	5.81	1546	28.15	114.3
119821	7109557	645106	1561	UTM83-8	WHI11000918	7	125	66.1	0.26	2.59	2294	30.69	103
119822	7109554	645049	1537	UTM83-8	WHI11000918	6.8	151	44.6	0.14	1.58	301	27.08	120.3
119823	7109553	645001	1519	UTM83-8	WHI11000918	3.8	128	40	0.12	2.14	420	24.2	126.7
119824	7109562	644946	1493	UTM83-8	WHI11000918	4.5	108	21.6	0.16	1.07	202	25.95	98.3
119825	7109554	644902	1473	UTM83-8	WHI11000918	4.6	79	70.7	0.18	3.15	867	23.52	108.4

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
119826	7109553	644857	1471	UTM83-8	WHI11000918	2.4	46	6.2	0.07	0.39	64	33.74	107.8
119827	7109551	644800	1447	UTM83-8	WHI11000918	1.6	62	12.9	0.09	0.41	60	40.55	119.1
119828	7109552	644752	1448	UTM83-8	WHI11000918	1.1	59	9.7	0.1	0.58	58	39.95	152.9
119829	7109548	644703	1454	UTM83-8	WHI11000918	1.7	31	30.7	0.16	0.54	122	41.73	142.4
119830	7109544	644650	1438	UTM83-8	WHI11000918	2.2	92	12.2	0.11	0.93	362	18.84	120.8
119831	7109553	644596	1441	UTM83-8	WHI11000918	0.9	32	14.7	0.09	0.5	93	24.33	76.2
119832	7109552	644550	1451	UTM83-8	WHI11000918	0.9	13	16.4	0.09	0.57	311	21.78	69.1
119833	7109554	644503	1442	UTM83-8	WHI11000918	1.3	78	20.5	0.1	0.58	175	25.57	100
119834	7109554	644443	1415	UTM83-8	WHI11000918	4.6	255	9.2	0.11	0.49	172	19.94	90
119835	7109550	644395	1385	UTM83-8	WHI11000918	1.8	81	13.5	0.11	0.49	113	21.63	71.4
119836	7109551	644351	1365	UTM83-8	WHI11000918	2.7	162	22.9	0.1	0.84	468	26.05	93
119837	7109552	644304	1337	UTM83-8	WHI11000918	1.5	112	28.1	0.11	0.88	351	29.57	86.2
119838	7109548	644243	1303	UTM83-8	WHI11000918	0.9	96	13.3	0.1	0.48	55	27.83	66.4
119839	7109553	644200	1280	UTM83-8	WHI11000918	1.2	74	13.4	0.1	0.55	121	20.74	71
119840	7109554	644151	1262	UTM83-8	WHI11000918	2.2	185	23.4	0.14	0.64	117	41.76	92.3
119841	7109548	644094	1233	UTM83-8	WHI11000918	0.7	125	26	0.15	0.7	80	76.15	118
119842	7109551	644049	1206	UTM83-8	WHI11000918	2.2	85	15.6	0.09	0.65	230	33.41	98.9
119843	7109550	644000	1183	UTM83-8	WHI11000918	1.9	84	18.3	0.11	0.76	179	54.29	109.4
119844	7107901	643253	1243	UTM83-8	WHI11001025	3.8	216	16.7	0.08	0.75	176	33.6	83
119845	7107897	643197	1237	UTM83-8	WHI11001025	1.5	141	11.1	0.1	0.41	72	33.55	73.1
119846	7107900	643154	1207	UTM83-8	WHI11001025	1	135	11.6	0.09	0.4	80	36.29	77.4
119847	7107894	643002	1120	UTM83-8	WHI11001025	1	180	17.7	0.09	0.38	113	31.45	71.9
119848	7107898	642951	1096	UTM83-8	WHI11001025	1.2	161	11.3	0.09	0.34	108	25.79	62.7
119849	7107898	642901	1076	UTM83-8	WHI11001025	1.2	148	12.6	0.08	0.31	103	21.62	80.2
119850	7107902	642847	1055	UTM83-8	WHI11001025	2	122	10.7	0.08	0.34	92	23.15	83.9
119851	7109992	353907		UTM83-9	WHI11000919	0.5	263	8.9	0.21	0.3	67	44.5	124.8
119852	7109993	353854		UTM83-9	WHI11000919	1.3	254	10	0.18	0.56	179	46.41	110.1
119853	7109998	353804		UTM83-9	WHI11000919	6.4	29	19.9	0.01	1.16	205	14.32	119
119854	7110017	353767		UTM83-9	WHI11000919	18.9	33	44.6	0.07	2.6	258	18.91	83.1
119855	7110008	646205		UTM83-8	WHI11000919	15.4	91	122.3	0.19	2.77	349	54.55	248.3
119856	7110002	646157		UTM83-8	WHI11000919	11.1	92	57.5	0.14	2.74	903	34.86	282
119857	7110009	646103		UTM83-8	WHI11000919	4.5	223	24.8	0.28	1.38	895	54.57	236.5
119858	7109996	646054		UTM83-8	WHI11000919	3.1	139	34.1	0.2	1.57	652	34.34	370.2
119859	7109999	645992		UTM83-8	WHI11000919	1.6	103	29.1	0.17	1.13	475	32.43	204.6
119860	7109995	645955		UTM83-8	WHI11000919	1.4	136	29	0.2	1.02	371	37.24	215.8
119861	7109997	645901		UTM83-8	WHI11000919	0.9	248	9.1	0.21	0.36	57	43.27	141
119862	7109995	645847		UTM83-8	WHI11000919	1.1	284	11.8	0.23	0.43	255	48.86	134.6
119863	7110006	645794		UTM83-8	WHI11000919	0.8	299	8.4	0.21	0.4	93	57.98	128.2
119864	7110001	645752		UTM83-8	WHI11000919	1.1	204	6.5	0.13	0.28	80	36.29	83.7
119865	7109996	645702		UTM83-8	WHI11000919	0.9	221	5.7	0.14	0.41	44	50.72	95.7
119866	7110007	645650		UTM83-8	WHI11000919	1.3	210	9.4	0.2	0.53	50	72.31	105.8
119867	7109997	645504		UTM83-8	WHI11000919	1.3	225	9.4	0.08	0.5	44	38.43	101.7
119868	7109995	645450		UTM83-8	WHI11000919	0.8	290	8.6	0.09	0.56	55	43.09	86.3
119869	7109997	645402		UTM83-8	WHI11000919	0.7	236	11.1	0.08	0.48	58	38.43	102
119870	7109998	645353		UTM83-8	WHI11000919	1.8	266	10.4	0.1	0.5	80	42.88	96.2
119871	7109998	645300		UTM83-8	WHI11000918	0.1	58	6.7	0.12	0.29	14	19.27	84.5
119872	7110001	645251		UTM83-8	WHI11000918	0.7	78	10.6	0.14	0.58	50	22.93	77.2
119873	7109997	645203		UTM83-8	WHI11000918	1.5	87	8.1	0.11	0.44	31	20.16	64.1
119874	7109999	645155		UTM83-8	WHI11000918	0.5	48	9.8	0.11	0.57	37	22.26	73.7
119875	7109999	645108		UTM83-8	WHI11000918	0.4	40	10.8	0.11	0.4	35	127.08	79.4
119876	7109998	645049		UTM83-8	WHI11000918	0.3	85	14.1	0.12	0.44	53	33.78	85.8
119877	7110000	645002		UTM83-8	WHI11000918	1.1	47	12	0.08	0.3	46	25.39	85.1
119878	7109996	644949		UTM83-8	WHI11000918	1.3	157	7.9	0.12	0.23	104	19.37	83.7
119879	7109999	644901		UTM83-8	WHI11000918	2.4	180	11.5	0.11	0.37	172	65.95	122.4
119880	7110002	644852		UTM83-8	WHI11000918	1.5	41	11.4	0.12	0.47	53	28.16	69.7
119881	7110004	644809		UTM83-8	WHI11000918	2.6	60	14.7	0.13	0.61	114	31.31	66.4
119882	7110001	644751		UTM83-8	WHI11000918	2.5	63	11	0.11	0.4	131	19.18	85.8
119883	7110001	644708		UTM83-8	WHI11000918	1.3	38	14.7	0.09	0.68	139	28.31	116.8
119884	7109995	644652		UTM83-8	WHI11000918	2.7	145	23.5	0.11	0.83	482	30.22	104.1
119885	7109996	644607		UTM83-8	WHI11000918	3.4	114	24.6	0.1	0.89	311	26.32	89.9
119886	7110002	644549		UTM83-8	WHI11000918	2.5	100	26.3	0.11	0.8	352	33.18	144.3
119887	7107700	643751	1516	UTM83-8	WHI11001025	4.1	141	72.7	0.09	2.24	357	75.33	230.2

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
119888	7107705	643793	1509	UTM83-8	WHI11001025	0.9	56	21.1	0.12	1.39	66	20.97	89.9
119889	7107706	643848	1499	UTM83-8	WHI11001025	1.5	25	31.7	0.13	2.07	147	17.79	74.5
119890	7107703	643895	1484	UTM83-8	WHI11001025	0.7	65	27.2	0.12	1.89	152	16.15	88.7
119891	7107700	643950	1467	UTM83-8	WHI11001025	1.3	89	23	0.09	1.27	101	19.14	108.2
119892	7107701	644000	1457	UTM83-8	WHI11001025	0.5	72	15	0.09	0.56	34	31.07	81.3
119893	7107702	644051	1447	UTM83-8	WHI11001025	0.3	94	15.2	0.07	0.75	51	28.29	96.8
119894	7107705	644097	1435	UTM83-8	WHI11001025	1.7	78	16.3	0.09	0.49	59	33.07	75.7
119895	7107700	644149	1412	UTM83-8	WHI11001025	0.1	53	31.3	0.11	0.33	15	12.77	85.8
119896	7107700	644193	1396	UTM83-8	WHI11001025	0.1	83	28.7	0.08	0.67	47	21.99	73.3
119897	7107705	644250	1377	UTM83-8	WHI11001025	0.7	126	172.4	0.13	0.82	302	25.8	79.7
119898	7107703	644302	1362	UTM83-8	WHI11001025	2.8	214	589.8	0.12	0.87	171	20.2	89.7
119899	7107701	644352	1360	UTM83-8	WHI11001025	0.1	92	19.1	0.1	0.58	32	26.72	83
119900	7107695	644402	1349	UTM83-8	WHI11001025	0.1	92	10.1	0.08	0.46	31	24.52	70.8
119901	7107299	643848	1353	UTM83-8	WHI11001169	0.4	45	26.8	0.09	1.67	59	17.93	61.6
119902	7107301	643801	1348	UTM83-8	WHI11001169	2.7	196	60.8	0.11	1.22	58	24.61	73.6
119903	7107300	643751	1343	UTM83-8	WHI11001169	0.3	100	117.9	0.1	0.89	28	32.57	101.4
119904	7107300	643700	1339	UTM83-8	WHI11001169	5.9	70	332.6	0.2	0.95	32	33.43	85.5
119905	7107301	643650	1338	UTM83-8	WHI11001169	19.8	73	211.9	0.07	1.04	29	33.03	64.7
119906	7107298	643606	1332	UTM83-8	WHI11001169	2.8	111	81.8	0.1	1.32	56	24.99	71.6
119907	7107296	643548	1349	UTM83-8	WHI11001169	1.9	88	22.4	0.08	1.83	60	38.35	74.6
119908	7107301	643500	1361	UTM83-8	WHI11001169	0.6	102	28.6	0.08	1.35	36	29.71	69.6
119909	7107306	643455	1365	UTM83-8	WHI11001169	0.4	177	14.3	0.1	0.74	64	33.14	95.3
119910	7107304	643402	1345	UTM83-8	WHI11001169	0.7	136	23.6	0.09	1.37	59	32.4	85
119911	7107299	643346	1350	UTM83-8	WHI11001169	0.5	332	12.7	0.08	0.8	131	46.04	78.3
119912	7107297	643299	1366	UTM83-8	WHI11001169	0.3	72	18.1	0.1	0.95	51	50.83	86.1
119913	7107308	643248	1375	UTM83-8	WHI11001169	0.1	97	7.8	0.11	0.43	32	22.17	70.4
119914	7107304	643203	1358	UTM83-8	WHI11001169	0.2	62	12.4	0.1	0.73	49	28.33	73
119915	7107296	643153	1338	UTM83-8	WHI11001169	1.6	29	39.6	0.11	0.96	161	44.59	81.1
119916	7107303	643099	1313	UTM83-8	WHI11001169	0.1	146	10	0.09	0.46	34	28.3	61.9
119917	7107289	643054	1293	UTM83-8	WHI11001169	0.8	97	10.7	0.1	0.46	46	53.91	75.2
119918	7107299	643006	1267	UTM83-8	WHI11001169	0.1	160	7.1	0.1	0.37	30	51.17	81.6
119919	7107298	642948	1242	UTM83-8	WHI11001169	0.7	176	10.7	0.13	0.38	111	43.19	111.2
119920	7107302	642903	1219	UTM83-8	WHI11001169	0.1	80	11.4	0.09	0.3	35	36.22	87.8
119921	7107298	642849	1190	UTM83-8	WHI11001169	0.3	91	12.5	0.1	0.36	42	36.34	87.6
119922	7107299	642802	1170	UTM83-8	WHI11001169	1.2	285	14.4	0.07	0.58	375	32.76	84.1
119923	7107293	642748	1148	UTM83-8	WHI11001169	3.4	311	9	0.14	0.31	723	34.33	80.9
119924	7107300	642703	1124	UTM83-8	WHI11001169	1.8	228	7.1	0.11	0.28	536	23.23	62.4
119925	7107303	642649	1095	UTM83-8	WHI11001169	1.4	279	10.9	0.13	0.38	630	42.63	75.9
119926	7107296	642547	1054	UTM83-8	WHI11001169	1.6	227	10.7	0.1	0.66	537	26.61	83
119927	7107297	642498	1038	UTM83-8	WHI11001169	1.7	199	8.2	0.11	0.36	335	21.61	86.9
119928	7110176	354025	1719	UTM83-9	WHI11001170	1.6	155	13.2	0.19	0.47	225	45.44	119.8
119929	7110180	353979	1695	UTM83-9	WHI11001170	4.3	135	65.1	0.28	1.8	204	39.52	172.4
119930	7110187	353924	1665	UTM83-9	WHI11001170	4	245	110.3	0.42	3.2	939	48.49	196.3
119931	7110190	353874	1655	UTM83-9	WHI11001170	10.5	65	137.9	0.2	5.34	1573	50.96	386.5
119932	7110204	353775	1653	UTM83-9	WHI11001170	2.1	191	21.4	0.31	2.61	378	39.22	178.7
119933	7110194	646205	1646	UTM83-8	WHI11001170	7.3	152	31.3	0.27	5.13	884	62.9	487.6
119934	7110193	646155	1627	UTM83-8	WHI11001170	2	179	12.9	0.34	0.72	123	43.34	203.1
119935	7110202	646099	1614	UTM83-8	WHI11001170	0.9	293	10.6	0.23	0.48	109	42.58	159
119936	7110202	646045	1625	UTM83-8	WHI11001170	1.1	275	10.5	0.24	0.53	113	42.13	179.6
119937	7110196	645950	1627	UTM83-8	WHI11001170	0.8	227	8.6	0.17	0.4	156	43.67	158.6
119938	7110199	645901	1613	UTM83-8	WHI11001170	1.5	315	12.3	0.21	0.71	233	41.31	156.3
119939	7110197	645846	1599	UTM83-8	WHI11001170	1.2	312	8.5	0.18	0.49	103	51.88	125.1
119940	7110199	645796	1585	UTM83-8	WHI11001170	0.8	287	7	0.16	0.4	78	44.66	116.9
119941	7110199	645748	1572	UTM83-8	WHI11001170	0.9	271	7	0.17	0.4	94	49.84	124.8
119942	7110200	645699	1560	UTM83-8	WHI11001170	0.8	239	7.7	0.14	0.5	78	41.54	110.2
119943	7110200	645641	1545	UTM83-8	WHI11001170	0.9	165	7.3	0.16	0.61	53	42.07	90.9
119944	7110197	645597	1538	UTM83-8	WHI11001170	0.8	92	5.8	0.1	0.44	19	34.13	85.3
119945	7110198	645550	1525	UTM83-8	WHI11001170	0.6	137	11	0.09	0.41	45	30.48	93.1
119946	7110197	645495	1519	UTM83-8	WHI11001170	1	175	8.2	0.11	0.63	62	31.4	88
119947	7110205	645450	1507	UTM83-8	WHI11001170	1.6	216	8.1	0.15	0.57	62	34.96	102.1
119948	7110197	645398	1498	UTM83-8	WHI11001170	0.9	102	5.3	0.17	0.45	26	21.52	51.6
119949	7110199	645347	1489	UTM83-8	WHI11001170	0.6	102	7	0.12	0.52	39	25.59	80.4

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
119950	7110198	645298	1487	UTM83-8	WHI11001170	1.3	51	7.8	0.16	0.66	30	21.33	69.1
119962	7110086	353916		UTM83-9	WHI11000918	0.5	183	7	0.16	0.28	121	37.22	92
119963	7110090	353866		UTM83-9	WHI11000918	0.7	255	13.4	0.23	0.45	222	38.29	131.7
119964	7110095	353816		UTM83-9	WHI11000918	17.8	99	59.2	0.17	3.25	680	33.86	304.3
119965	7110100	353766		UTM83-9	WHI11000918	3.3	61	14.6	0.05	1.72	686	35.03	251.4
119966	7110117	646199		UTM83-8	WHI11000918	2.9	174	22.4	0.23	1.82	384	85.63	311.5
119967	7110100	645999		UTM83-8	WHI11000918	2	223	20.3	0.24	0.88	348	45.52	256.4
119968	7110100	645949		UTM83-8	WHI11000918	3.6	276	21.1	0.26	1.07	330	67.66	211.9
119969	7110100	645899		UTM83-8	WHI11000918	1.3	270	12.2	0.17	0.56	138	45.8	138.3
119970	7110100	645849		UTM83-8	WHI11000918	1.2	259	8.7	0.18	0.46	137	47.66	135.7
119971	7110100	645799		UTM83-8	WHI11000918	1.7	260	6.9	0.16	0.37	76	49.49	114.8
119972	7110100	645749		UTM83-8	WHI11000918	1.5	283	6.7	0.15	0.38	112	49.79	105.7
119973	7110100	645699		UTM83-8	WHI11000918	1	232	5.7	0.12	0.33	48	40.51	103
119974	7110100	645649		UTM83-8	WHI11000918	2.1	111	8.3	0.24	0.46	35	71.27	109.1
119975	7110100	645599		UTM83-8	WHI11000918	4.8	118	10	0.15	0.5	18	71	105
119976	7110100	645549		UTM83-8	WHI11000918	1.8	296	12.3	0.14	0.43	42	46.44	99.1
119977	7110100	645499		UTM83-8	WHI11000918	1.4	106	12.3	0.11	0.7	32	46.32	121.5
119978	7110100	645449		UTM83-8	WHI11000918	1.6	294	10.4	0.09	0.5	80	28.42	98.7
119979	7110100	645399		UTM83-8	WHI11000918	1	62	7.2	0.16	0.46	31	26.87	69.1
119980	7110100	645349		UTM83-8	WHI11000918	2.1	75	10	0.12	0.6	40	25.45	87.6
119981	7110100	645299		UTM83-8	WHI11000918	2.1	91	9.2	0.14	0.49	44	28.75	79.3
119982	7110100	645249		UTM83-8	WHI11000918	0.4	104	5.7	0.11	0.33	40	20.31	65.6
119983	7110100	645199		UTM83-8	WHI11000918	0.2	48	8.5	0.09	0.5	32	29.89	100.6
119984	7110100	645149		UTM83-8	WHI11000918	3.9	434	11.9	0.14	0.39	350	44.32	82.7
119985	7110100	645099		UTM83-8	WHI11000918	0.6	67	12.3	0.1	0.44	71	36.37	93.3
119986	7110100	645049		UTM83-8	WHI11000918	2	107	14.8	0.1	0.43	86	41.86	112.1
119987	7110100	644999		UTM83-8	WHI11000918	0.5	32	17.2	0.1	0.48	49	51.15	124.1
119988	7110100	644949		UTM83-8	WHI11000918	1.1	35	9.7	0.14	0.63	52	24.14	73.7
119989	7110100	644899		UTM83-8	WHI11000918	1.3	34	15.1	0.08	0.75	58	33.64	80.8
119990	7110100	644849		UTM83-8	WHI11000918	0.2	54	12.2	0.13	0.58	72	20.25	97.1
119991	7110100	644799		UTM83-8	WHI11000918	0.2	44	14.7	0.11	0.48	280	26.97	65.8
119992	7110100	644749		UTM83-8	WHI11000918	2.2	263	18.8	0.14	0.84	410	26.7	103
119993	7110100	644699		UTM83-8	WHI11000918	2.9	109	18.9	0.16	0.7	344	25.82	75.8
119994	7110100	644649		UTM83-8	WHI11000918	2.3	44	24.6	0.07	0.86	326	23.14	110.7
119995	7110100	644599		UTM83-8	WHI11000918	2.5	123	150.8	0.12	1.64	1705	23.17	95.1
119996	7109882	353946		UTM83-9	WHI11000918	0.8	219	11.3	0.21	0.4	382	29.73	105.6
119997	7109887	353897		UTM83-9	WHI11000918	0.3	272	8.8	0.23	0.25	259	42.52	109.6
119998	7109891	353847		UTM83-9	WHI11000918	0.3	288	9.6	0.16	0.36	161	52.77	123.5
119999	7109896	353797		UTM83-9	WHI11000918	6.4	127	82.2	0.13	5.59	363	53.45	299.1
120000	7109900	646249		UTM83-8	WHI11000918	7.9	198	44.5	0.12	3.36	455	75.53	290.8
120017	7107448	643301	1427	UTM83-8	WHI11001169	2.3	105	39	0.08	1.87	71	31.31	79.9
120018	7107453	643249	1386	UTM83-8	WHI11001169	1.6	249	11.9	0.12	0.42	248	45.04	97.6
120019	7107452	643199	1350	UTM83-8	WHI11001169	1.2	264	8.7	0.09	0.33	112	25.36	88.4
120020	7107450	643148	1309	UTM83-8	WHI11001169	2.2	227	13	0.08	0.71	184	27.18	84.3
120021	7107450	643101	1279	UTM83-8	WHI11001169	1.3	221	16.2	0.11	0.75	268	32.58	73
120022	7107452	643050	1243	UTM83-8	WHI11001169	1.2	197	13.4	0.09	0.62	235	29.47	57
120023	7107452	642999	1202	UTM83-8	WHI11001169	1.3	237	16.2	0.08	0.49	181	28.8	86.7
120024	7107452	642952	1174	UTM83-8	WHI11001169	0.9	226	12.7	0.11	0.39	222	31.73	91
120025	7107448	642897	1146	UTM83-8	WHI11001169	0.8	197	11.6	0.12	0.26	104	30.79	82
120026	7107454	642846	1120	UTM83-8	WHI11001169	0.8	193	8.7	0.11	0.27	90	27.94	80.6
120027	7107453	642800	1104	UTM83-8	WHI11001169	0.3	195	7.6	0.13	0.19	106	24.76	71.3
120028	7107451	642697	1076	UTM83-8	WHI11001169	0.6	265	6.9	0.11	0.3	174	20.35	70.1
120029	7107452	642647	1063	UTM83-8	WHI11001169	0.1	97	8.9	0.09	0.24	46	25.2	74.3
120030	7107455	642602	1046	UTM83-8	WHI11001169	0.1	43	5.8	0.1	0.29	9	17.61	45.8
120031	7107456	642547	1026	UTM83-8	WHI11001169	0.2	223	8.9	0.1	0.29	28	23.09	67.7
120032	7107448	642500	1008	UTM83-8	WHI11001169	0.8	98	8.7	0.07	0.26	76	18.83	79.6
120033	7107144	643100	1300	UTM83-8	WHI11001170	0.1	155	11	0.18	0.49	20	33.25	118.4
120034	7107151	643145	1301	UTM83-8	WHI11001170	0.6	119	7.5	0.1	0.34	8	30.99	149.2
120035	7107150	643205	1295	UTM83-8	WHI11001170	1.7	89	42.4	0.12	1.18	61	27.67	85
120036	7107151	643248	1292	UTM83-8	WHI11001170	0.6	139	21.9	0.09	0.79	30	23.42	80.9
120037	7107147	643295	1280	UTM83-8	WHI11001170	2.4	109	23.2	0.15	0.65	57	36.66	81
120038	7107150	643345	1273	UTM83-8	WHI11001170	1.4	42	20.1	0.05	0.54	184	19.59	73.1

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
120039	7107154	643443	1268	UTM83-8	WHI11001170	1.4	150	22	0.09	0.49	54	22.11	60.1
120040	7107150	643497	1263	UTM83-8	WHI11001170	1	78	25.3	0.14	0.71	112	32.48	76.5
120041	7107148	643546	1257	UTM83-8	WHI11001170	1.9	84	33.2	0.1	0.9	34	24.07	74.8
120042	7107150	643598	1245	UTM83-8	WHI11001170	6.3	44	115.2	0.05	1.42	32	18.3	59.9
120043	7107148	643645	1247	UTM83-8	WHI11001170	2.3	152	71.7	0.11	1.49	188	27.05	83.9
120044	7107153	643696	1242	UTM83-8	WHI11001170	10.1	135	74.7	0.12	1.06	151	34.03	97.9
120045	7107100	643648	1214	UTM83-8	WHI11001170	11.7	141	84.9	0.11	0.91	50	25.64	81.7
120046	7107100	643601	1218	UTM83-8	WHI11001170	4.3	83	66.3	0.08	0.95	43	22.81	80.8
120047	7107098	643546	1219	UTM83-8	WHI11001170	1.4	85	24.5	0.06	0.63	1693	19.83	63
120048	7107095	643501	1221	UTM83-8	WHI11001170	1.5	100	21.6	0.13	0.58	39	33.16	81.5
120049	7107099	643451	1227	UTM83-8	WHI11001170	1.6	67	32	0.08	0.78	43	22.73	65.2
120050	7107103	643394	1234	UTM83-8	WHI11001170	1.6	107	17.5	0.09	0.75	103	26.24	85.7
120051	7108155	633843	1434	UTM83-8	WHI11000241	1.1	118	7.9	0.12	0.35	36	41.2	35.3
120052	7108229	633830	1449	UTM83-8	WHI11000241	1	448	9.3	0.11	0.45	23	35.33	72.2
120053	7108294	633821	1482	UTM83-8	WHI11000241	1	269	9	0.25	0.45	41	56.39	108.5
120054	7108378	633813	1521	UTM83-8	WHI11000241	0.5	202	7.7	0.25	0.27	47	44.74	146.2
120055	7108422	633850	1518	UTM83-8	WHI11000241	0.9	137	12.6	0.15	0.48	16	55.26	89.4
120056	7108469	633811	1568	UTM83-8	WHI11000241	0.8	109	23.2	0.14	0.42	34	53.48	89.8
120057	7108486	633954	1510	UTM83-8	WHI11000241	0.8	92	23.9	0.2	0.95	30	76.88	121.1
120058	7108346	634123	1406	UTM83-8	WHI11000241	1.4	224	10.4	0.31	0.53	31	54.88	62.9
120059	7108236	634138	1357	UTM83-8	WHI11000241	0.7	262	6.3	0.19	0.33	22	45.17	53
120060	7108175	634048	1326	UTM83-8	WHI11000241	1.7	316	13.8	0.31	0.6	52	74.18	120.5
120061	7108210	634013	1347	UTM83-8	WHI11000241	1.3	205	23	0.25	1.02	72	76.36	74.1
120066	7108199	633076	1620	UTM83-8	WHI11000257	1.3	132	8.9	0.1	0.44	32	41.36	117.7
120067	7108127	633052	1608	UTM83-8	WHI11000257	0.8	64	6.2	0.1	0.42	18	21.02	72.8
120068	7107965	633126	1521	UTM83-8	WHI11000257	0.9	174	16	0.19	0.48	39	50.14	50.5
120069	7107941	633133	1512	UTM83-8	WHI11000257	0.8	95	10.7	0.11	0.41	9	37.7	46.5
120070	7107847	633199	1491	UTM83-8	WHI11000257	2.2	70	7.2	0.04	0.72	97	17.47	64
120071	7107739	633175	1429	UTM83-8	WHI11000257	0.1	140	22.9	0.1	1.08	638	27.49	79.2
120072	7108089	640212	1496	UTM83-8	WHI11000332	0.9	57	6.2	0.13	0.47	29	43.96	86.2
120073	7108052	640316	1456	UTM83-8	WHI11000332	0.3	47	4.4	0.19	0.38	28	21.86	101.8
120074	7108046	640396	1422	UTM83-8	WHI11000332	0.7	33	5	0.14	0.33	31	47.31	92.4
120075	7108109	640471	1361	UTM83-8	WHI11000332	0.7	55	8.4	0.11	0.58	46	30.25	81.3
120076	7108162	640526	1311	UTM83-8	WHI11000332	1.8	97	9	0.11	0.72	62	30.94	128.5
120077	7108175	640699	1227	UTM83-8	WHI11000332	1.4	90	7.9	0.11	0.65	57	25.4	114.2
120117	7107805	643602	1452	UTM83-8	WHI11001025	40.7	717	8467.6	50.16	9.11	24789	33.66	142.7
120118	7107800	643552	1416	UTM83-8	WHI11001025	33.1	682	2054.5	9.05	4.56	3925	22.44	60.6
120119	7107804	643503	1388	UTM83-8	WHI11001025	1.5	169	45.2	0.21	0.89	194	47.55	122.1
120120	7107801	643452	1396	UTM83-8	WHI11001025	1.4	418	19	0.22	0.61	161	56.34	86.3
120121	7107799	643402	1370	UTM83-8	WHI11001025	1.9	384	36.2	0.25	0.56	463	68.67	140
120122	7107801	643355	1341	UTM83-8	WHI11001025	1	208	17.8	0.13	0.45	233	40.33	91.8
120123	7107796	643304	1318	UTM83-8	WHI11001025	4.6	78	20.8	0.08	1.25	176	27.04	76
120124	7107798	643203	1290	UTM83-8	WHI11001025	1.4	263	3.7	0.1	0.28	89	22.83	59.8
120125	7107806	643050	1201	UTM83-8	WHI11001025	1.2	198	4.7	0.07	0.23	73	15.87	54.9
120126	7107786	642953	1138	UTM83-8	WHI11001025	1.2	188	15.1	0.08	0.33	126	19	67.1
120127	7107801	642900	1108	UTM83-8	WHI11001025	1.2	170	13	0.09	0.35	110	21.04	73.8
120128	7107801	642850	1088	UTM83-8	WHI11001025	2.1	203	15.8	0.11	0.44	133	20.37	83.2
120129	7107802	642794	1078	UTM83-8	WHI11001025	1.1	197	12.6	0.08	0.36	132	19.71	91.1
120130	7107806	642750	1071	UTM83-8	WHI11001025	1.6	191	11.4	0.09	0.37	130	18.92	86.1
120131	7107801	642697	1062	UTM83-8	WHI11001025	1	55	9.1	0.1	0.47	49	15.15	54.7
120132	7107796	642651	1045	UTM83-8	WHI11001025	1.4	189	7.4	0.08	0.46	121	15.11	56.4
120133	7107801	642598	1022	UTM83-8	WHI11001025	1.1	145	6.5	0.08	0.38	95	17.5	63.9
120134	7107800	642550	996	UTM83-8	WHI11001025	1.3	246	8	0.1	0.56	131	21.55	94.5
120135	7107453	643350	1457	UTM83-8	WHI11001170	0.7	128	8.8	0.13	0.5	36	22.54	86
120136	7107451	643396	1448	UTM83-8	WHI11001170	0.4	95	7.9	0.09	0.31	50	30.69	64.7
120137	7107450	643450	1450	UTM83-8	WHI11001170	0.5	125	11.3	0.09	0.62	67	34.8	87.5
120138	7107455	643496	1454	UTM83-8	WHI11001170	0.3	37	8.2	0.08	0.29	34	19.56	72.8
120139	7107452	643549	1435	UTM83-8	WHI11001170	18.7	78	209.3	0.13	1.37	179	26.45	81.5
120140	7107453	643598	1429	UTM83-8	WHI11001170	2.6	85	47.7	0.09	1.07	60	18.07	96
120141	7107449	643648	1445	UTM83-8	WHI11001170	7.6	56	45.7	0.12	1.1	41	13.13	74
120142	7107453	643696	1450	UTM83-8	WHI11001170	25.8	40	353.3	0.08	0.96	50	18.66	56.9
120143	7107453	643743	1443	UTM83-8	WHI11001170	2.3	43	30.4	0.11	1.05	56	27.71	81.3

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
120144	7107452	643799	1418	UTM83-8	WHI11001170	0.6	79	18.5	0.09	0.4	58	28.42	91.7
120145	7107454	643847	1407	UTM83-8	WHI11001170	0.5	138	25.6	0.08	0.44	32	18	71.3
120146	7107450	643900	1388	UTM83-8	WHI11001170	0.9	110	53.7	0.11	1.43	34	24.55	79.7
120147	7107452	643946	1375	UTM83-8	WHI11001170	0.6	161	36.6	0.11	0.38	36	31.45	139.8
120148	7107450	644004	1353	UTM83-8	WHI11001170	1.3	50	47.9	0.1	0.39	41	20.04	62.7
120149	7107454	644049	1330	UTM83-8	WHI11001170	1	30	77.2	0.11	0.6	51	21.32	70.2
120150	7107446	644097	1309	UTM83-8	WHI11001170	2.7	113	33.6	0.1	0.65	147	21.17	85.9
120517	7107115	640082	1122	UTM83-8	WHI11000454	0.1	91	2.5	0.14	0.12	11	18.74	83.5
120518	7107019	640114	1067	UTM83-8	WHI11000454	0.1	69	1.7	0.15	0.13	7	13.46	177.9
120519	7106926	640135	1023	UTM83-8	WHI11000454	0.1	64	4.8	0.11	0.25	19	19	61.1
120520	7106823	640146	970	UTM83-8	WHI11000454	0.1	45	3.5	0.1	0.13	2	12.49	75.2
120523	7107495	642645	1057	UTM83-8	WHI11001169	0.5	178	8.4	0.1	0.14	115	25.26	66.7
120524	7107507	642598	1039	UTM83-8	WHI11001169	0.8	110	8.7	0.12	0.26	68	25.79	102.3
120525	7107500	642508	1011	UTM83-8	WHI11001169	0.9	76	12.8	0.09	0.39	75	24.87	87.7
120526	7110396	646099	1500	UTM83-8	WHI11001171	2.9	135	22.5	0.2	1.3	431	37.54	202.3
120527	7110397	646050	1498	UTM83-8	WHI11001171	0.4	344	9.8	0.23	0.28	169	35.83	133.3
120528	7110406	645997	1496	UTM83-8	WHI11001171	0.4	172	5.9	0.1	0.25	54	26.43	79.4
120529	7110406	645949	1505	UTM83-8	WHI11001171	0.3	187	6.8	0.18	0.21	157	29.6	72.6
120530	7110394	645903	1509	UTM83-8	WHI11001171	0.1	205	5.9	0.16	0.27	105	37.79	77.7
120531	7110391	645850	1516	UTM83-8	WHI11001171	0.5	231	5.9	0.13	0.29	88	27.58	88.2
120532	7110397	645799	1519	UTM83-8	WHI11001171	0.3	244	6.4	0.12	0.28	79	30.56	95.9
120533	7110397	645746	1512	UTM83-8	WHI11001171	0.3	140	7.3	0.12	0.31	80	28.39	76.4
120534	7110402	645700	1507	UTM83-8	WHI11001171	0.3	145	6.2	0.12	0.34	47	23.66	86.7
120535	7110396	645650	1504	UTM83-8	WHI11001171	0.8	150	8.9	0.12	0.51	82	30.13	114.4
120536	7110402	645597	1485	UTM83-8	WHI11001171	0.6	157	7.6	0.09	0.53	40	22.18	81.3
120537	7110398	645549	1481	UTM83-8	WHI11001171	0.4	171	12.4	0.1	0.66	157	28.43	101.7
120538	7110397	645493	1468	UTM83-8	WHI11001171	0.4	154	11	0.11	0.63	142	26.16	106
120539	7110399	645451	1458	UTM83-8	WHI11001171	0.1	113	9.4	0.11	0.55	63	23.51	84.8
120540	7110394	645398	1438	UTM83-8	WHI11001171	0.8	121	8.5	0.09	0.58	51	19.61	80.2
120541	7110404	645353	1423	UTM83-8	WHI11001171	0.2	35	11.8	0.09	0.41	43	25.92	99
120542	7110410	645294	1396	UTM83-8	WHI11001171	0.4	52	23.9	0.11	0.64	100	35.51	99.4
120543	7110402	645247	1403	UTM83-8	WHI11001171	2.6	42	23.9	0.16	0.68	162	36.46	87.3
120544	7110404	645196	1409	UTM83-8	WHI11001171	2.3	158	16.7	0.14	0.48	69	31.14	116.3
120545	7110398	645148	1411	UTM83-8	WHI11001171	1.9	25	21.2	0.09	0.45	97	31.84	118
120546	7110398	645097	1406	UTM83-8	WHI11001171	2.2	28	23.9	0.07	0.43	285	47.92	106.3
120547	7110400	645050	1397	UTM83-8	WHI11001171	1.3	32	21.2	0.15	0.71	106	34.45	104.8
120548	7110400	644996	1393	UTM83-8	WHI11001171	2.1	82	15.5	0.11	0.82	80	45.22	74.8
120549	7110405	644953	1388	UTM83-8	WHI11001171	1.9	72	22.4	0.12	0.59	150	47.76	95.8
120550	7110399	644901	1371	UTM83-8	WHI11001171	0.8	107	16.2	0.14	0.34	87	18.74	79.3
120551	7110294	643818	1225	UTM83-8	WHI11000332	0.1	87	14.7	0.06	0.73	116	25.89	98.5
120552	7110307	643716	1211	UTM83-8	WHI11000332	0.4	130	14.3	0.09	0.61	187	30.12	80.9
120553	7110301	643613	1154	UTM83-8	WHI11000332	0.1	123	9.5	0.06	0.61	127	17.26	61.6
120554	7110296	643513	1114	UTM83-8	WHI11000332	0.1	192	5.2	0.09	0.32	74	18.37	60.7
120555	7110290	643421	1079	UTM83-8	WHI11000332	0.1	210	9.3	0.1	0.42	53	21.29	90.1
120556	7110322	643328	1048	UTM83-8	WHI11000332	0.1	63	10.4	0.07	0.45	30	24.65	81.7
120557	7108414	635100	1261	UTM83-8	WHI11000454	0.1	21	1	0.01	0.11	13	1.27	32.9
120558	7108315	635202	1261	UTM83-8	WHI11000454	0.6	100	9.6	0.09	0.79	65	24.95	157.1
120559	7108207	635247	1206	UTM83-8	WHI11000454	0.2	73	6	0.09	0.66	50	12.73	35.3
120560	7108097	635286	1159	UTM83-8	WHI11000454	0.8	121	8.9	0.06	0.71	151	30.42	114.6
120561	7107975	635334	1136	UTM83-8	WHI11000454	0.6	38	8.6	0.19	0.43	55	19.12	65.2
120562	7107931	635472	1098	UTM83-8	WHI11000454	1.7	93	10.8	0.12	0.6	101	22.28	136.4
120563	7107859	635523	1010	UTM83-8	WHI11000454	0.7	84	11.4	0.09	0.83	68	28.38	135.5
120564	7107757	635602	1011	UTM83-8	WHI11000454	0.5	144	7.9	0.09	0.37	53	16.91	82.5
120565	7107661	635678	981	UTM83-8	WHI11000454	1.5	90	5.7	0.1	0.36	48	23.47	83.3
120566	7107571	635727	960	UTM83-8	WHI11000454	0.8	54	5.2	0.1	0.22	19	18.24	72.1
120567	7108245	634441	1465	UTM83-8	WHI11000454	0.4	94	9.3	0.15	0.16	88	35.2	125.1
120568	7108156	634484	1474	UTM83-8	WHI11000454	2.6	197	21.4	0.38	1.06	623	51.83	68.5
120569	7108029	634507	1452	UTM83-8	WHI11000454	1.7	129	22	0.11	2.63	125	59.26	173.7
120570	7107934	634549	1405	UTM83-8	WHI11000454	0.7	163	18.7	0.08	1.85	130	26.25	64.4
120571	7107861	634556	1364	UTM83-8	WHI11000454	1.1	129	14.1	0.24	1.44	201	33.25	157.3
120572	7107739	634598	1286	UTM83-8	WHI11000454	0.1	25	2.4	0.07	0.37	23	10.07	82.6
120573	7107669	634664	1251	UTM83-8	WHI11000454	0.6	177	8.3	0.12	0.53	55	33.65	315.9

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
120633	7108396	644340	1436	UTM83-8	WHI11001025	3.7	118	13.7	0.1	0.86	157	23.67	102.6
120634	7108394	644295	1388	UTM83-8	WHI11001025	3.4	101	23.4	0.16	0.68	103	23.31	106.1
120635	7108391	644209	1315	UTM83-8	WHI11001025	3.2	79	17.5	0.15	0.56	60	22.48	105.4
120636	7108402	644098	1264	UTM83-8	WHI11001025	12.3	85	34.1	0.19	1.41	215	46.4	98.4
120637	7108401	644056	1239	UTM83-8	WHI11001025	2.9	80	43.8	0.23	2.66	370	28.4	68.2
120638	7108393	644004	1215	UTM83-8	WHI11001025	4.2	91	35.8	0.13	1.15	453	26.88	99.1
120639	7108400	643955	1199	UTM83-8	WHI11001025	2.8	63	20.4	0.12	0.55	132	27.78	108.8
120640	7108401	643903	1189	UTM83-8	WHI11001025	2.8	69	45.3	0.19	0.77	214	24.05	87.9
120641	7108395	643848	1179	UTM83-8	WHI11001025	1.7	44	39	0.1	0.61	189	21.17	91
120642	7108398	643802	1175	UTM83-8	WHI11001025	2.5	39	21.8	0.09	0.55	92	17.73	88.6
120643	7108399	643750	1167	UTM83-8	WHI11001025	2.4	63	21.5	0.1	0.87	769	42.95	85
120644	7108401	643700	1173	UTM83-8	WHI11001025	1.6	67	23.6	0.08	0.71	150	14.59	67.6
120645	7108405	643651	1165	UTM83-8	WHI11001025	3.1	86	36.3	0.09	0.75	189	26.15	90.8
120646	7108400	643602	1159	UTM83-8	WHI11001025	2.9	111	22.7	0.09	0.53	177	19.81	71.6
120647	7108399	643538	1141	UTM83-8	WHI11001025	7	98	65.2	0.11	1.6	167	22.27	92.6
120648	7108401	643454	1150	UTM83-8	WHI11001025	3.2	137	66.7	0.09	0.54	170	21.86	78.7
120649	7108399	643400	1145	UTM83-8	WHI11001025	0.6	25	14.2	0.08	0.41	70	20.52	58.6
120650	7108403	643345	1130	UTM83-8	WHI11001025	7.8	213	699.4	0.17	1.61	735	19.81	87.1
120651	7110050	644999		UTM83-8	WHI11000919	0.8	150	12.4	0.21	0.43	85	37.15	73.6
120652	7110050	644949		UTM83-8	WHI11000919	1.1	62	14.3	0.18	0.39	34	31.95	101.4
120653	7110050	644899		UTM83-8	WHI11000919	0.9	29	12.2	0.12	0.39	52	22.9	79
120654	7110050	644849		UTM83-8	WHI11000919	1.2	25	19.4	0.13	0.44	82	25.66	83.4
120655	7110050	644799		UTM83-8	WHI11000919	1.2	58	11.6	0.16	0.6	110	53.62	59.1
120656	7110050	644749		UTM83-8	WHI11000919	6.3	283	13	0.12	0.41	199	16.82	83.4
120657	7110050	644699		UTM83-8	WHI11000919	4.6	353	17.6	0.17	0.83	697	23.92	73.2
120658	7110050	644649		UTM83-8	WHI11000919	0.8	49	9.2	0.1	0.36	49	18.4	56.1
120659	7110050	644599		UTM83-8	WHI11000919	2.9	122	27.5	0.09	1.08	460	31.68	110.2
120660	7110050	644549		UTM83-8	WHI11000919	3.3	77	21.4	0.07	0.8	335	23.41	74.5
120661	7110050	644499		UTM83-8	WHI11000919	2.8	74	20.7	0.08	0.88	472	30.69	99.7
120662	7110050	644449		UTM83-8	WHI11000919	1.6	101	23.8	0.06	0.6	676	27.92	82.4
120663	7110100	644449		UTM83-8	WHI11000919	1.3	128	13.8	0.12	0.4	276	22.54	72.1
120664	7110100	644499		UTM83-8	WHI11000919	1.5	81	26.9	0.16	0.7	552	27.13	73.9
120665	7110100	644549		UTM83-8	WHI11000919	0.9	79	32.3	0.18	0.61	301	19	78.6
120666	7109832	353942		UTM83-9	WHI11000918	0.8	227	12.5	0.55	0.42	500	49.07	143.1
120667	7109837	353892		UTM83-9	WHI11000918	0.2	242	6.8	0.2	0.28	125	41.06	76.3
120668	7109841	353842		UTM83-9	WHI11000918	0.1	238	9.6	0.17	0.36	92	52.03	122.8
120669	7109846	353792		UTM83-9	WHI11000918	43.3	171	88.7	0.2	6.36	229	74.56	321.5
120670	7109850	646249		UTM83-8	WHI11000918	1.4	165	23.2	0.08	1.52	264	98.19	407.8
120671	7109850	646199		UTM83-8	WHI11000918	2.7	105	16.2	0.05	2.02	290	49.73	110.4
120672	7109850	646149		UTM83-8	WHI11000918	3.5	41	7.8	0.02	1.28	147	14.48	151.9
120673	7109850	646099		UTM83-8	WHI11000918	5.5	62	13.9	0.05	1.82	301	23.14	227.1
120674	7109850	646049		UTM83-8	WHI11000918	5.3	80	77.7	0.17	4.05	272	49.36	309.2
120675	7109850	645999		UTM83-8	WHI11000918	4.6	108	107.1	0.21	7.31	819	52.68	241.9
120676	7109850	645949		UTM83-8	WHI11000918	1.4	268	12.9	0.29	0.4	273	38.48	141.1
120677	7109850	645899		UTM83-8	WHI11000918	0.1	283	9.3	0.21	0.42	141	55.55	146.9
120678	7109850	645849		UTM83-8	WHI11000918	0.1	232	7.1	0.18	0.3	150	41.85	108.3
120679	7109850	645799		UTM83-8	WHI11000918	0.6	300	7.8	0.18	0.36	150	48.7	118.1
120680	7109850	645749		UTM83-8	WHI11000918	0.1	220	17.8	0.11	0.53	52	53.96	113.9
120681	7109850	645699		UTM83-8	WHI11000918	1.3	221	16.2	0.15	0.71	41	66.35	121.9
120682	7109850	645649		UTM83-8	WHI11000918	0.6	197	6.9	0.12	0.38	60	43.87	106
120683	7109850	645599		UTM83-8	WHI11000918	0.5	166	8.1	0.09	0.42	47	46.68	92.7
120684	7109850	645549		UTM83-8	WHI11000918	0.7	148	9	0.08	0.41	48	38.33	93.5
120685	7109850	645499		UTM83-8	WHI11000918	1.1	363	10.4	0.09	0.47	101	39.11	114.7
120686	7109850	645449		UTM83-8	WHI11000918	0.4	184	7.9	0.11	0.44	81	28.69	92.9
120687	7109850	645399		UTM83-8	WHI11000918	0.5	29	10.9	0.11	0.52	10	23.73	76.3
120688	7109850	645349		UTM83-8	WHI11000918	3.1	33	6.9	0.09	0.31	33	17.98	52
120689	7109850	645299		UTM83-8	WHI11000918	2.4	38	10	0.08	0.45	47	20.96	61.9
120690	7109850	645249		UTM83-8	WHI11000918	3.5	27	10.5	0.1	0.76	37	21.64	75.7
120691	7109850	645199		UTM83-8	WHI11000918	1.1	16	7.7	0.09	0.48	29	15.68	57.5
120692	7109850	645149		UTM83-8	WHI11000918	1.1	22	12.1	0.15	0.73	22	23.44	107.5
120693	7109850	645099		UTM83-8	WHI11000918	0.8	45	7.9	0.14	0.38	34	23.51	76.8
120694	7109850	645049		UTM83-8	WHI11000918	1.5	73	9.6	0.13	0.52	63	25.39	80.4

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
120695	7109850	644999		UTM83-8	WHI11000918	1.2	101	7.6	0.08	0.4	86	20.84	72.9
120696	7109850	644949		UTM83-8	WHI11000918	1.9	119	9	0.1	0.5	98	24.21	91.4
120697	7109850	644899		UTM83-8	WHI11000918	4.7	259	28.7	0.17	2.18	1740	29.16	73
120698	7109850	644849		UTM83-8	WHI11000918	4.9	337	12.4	0.07	0.7	157	21.9	87.9
120699	7109850	644799		UTM83-8	WHI11000918	2.2	122	17.5	0.08	0.87	850	18.54	88.1
120700	7109850	644749		UTM83-8	WHI11000918	6	86	14.4	0.13	0.69	227	23.73	87.9
120701	7109650	645449		UTM83-8	WHI11000918	1.2	118	8	0.14	0.65	44	25.59	62.1
120702	7109650	645399		UTM83-8	WHI11000918	2.6	174	11.9	0.09	0.65	135	26.34	83.2
120703	7109650	645349		UTM83-8	WHI11000918	2.4	221	11.7	0.09	0.53	126	27.5	91.4
120704	7109650	645299		UTM83-8	WHI11000918	2.4	137	14.6	0.09	0.53	239	35.09	99.6
120705	7109650	645249		UTM83-8	WHI11000918	2	120	29	0.15	0.87	403	28.71	109.3
120706	7109650	645199		UTM83-8	WHI11000918	1.8	75	20.1	0.12	0.71	190	21.06	65.8
120707	7109650	645149		UTM83-8	WHI11000918	2.4	85	21.4	0.13	0.75	344	33.44	92.6
120708	7109650	645099		UTM83-8	WHI11000918	2.4	85	23	0.18	0.9	264	38.74	97
120709	7109650	645049		UTM83-8	WHI11000918	5.8	342	10.8	0.08	0.57	352	13.9	64.9
120710	7109650	644999		UTM83-8	WHI11000918	2.6	187	10.9	0.1	0.68	235	22.4	90.9
120711	7109650	644949		UTM83-8	WHI11000918	1	52	2.4	0.09	0.17	18	22.84	79.3
120712	7109650	644849		UTM83-8	WHI11000918	1.7	53	6.2	0.07	0.41	71	22.56	87.1
120713	7109650	644799		UTM83-8	WHI11000918	1.7	30	12	0.13	0.51	69	26.14	82.3
120714	7109650	644749		UTM83-8	WHI11000918	3	32	8.9	0.09	0.66	30	21.03	76.9
120715	7109650	644699		UTM83-8	WHI11000918	1.1	30	11.7	0.14	0.49	40	28.28	86.5
120716	7109650	644649		UTM83-8	WHI11000918	1.2	56	16.2	0.13	0.52	75	32.26	78.7
120717	7109650	644599		UTM83-8	WHI11000918	1.5	72	10.2	0.09	0.42	64	30.77	61.2
120718	7109650	644549		UTM83-8	WHI11000918	1.5	35	17.9	0.12	0.4	63	35.63	90.5
120719	7109650	644499		UTM83-8	WHI11000918	5.4	112	12.2	0.1	0.64	251	28.09	143.6
120720	7109650	644399		UTM83-8	WHI11000918	1.4	55	3.8	0.06	0.29	146	24.35	90.2
120721	7109650	644349		UTM83-8	WHI11000918	3.5	104	13.7	0.1	0.82	128	33.49	92
120722	7109650	644249		UTM83-8	WHI11000918	0	0	0	0	0	0	0	0
120723	7109650	644199		UTM83-8	WHI11000918	1.9	150	22.8	0.11	1.46	264	53.65	118.3
120724	7109650	644149		UTM83-8	WHI11000918	5.4	152	19.6	0.09	0.8	191	96.67	92.8
120725	7109650	643999		UTM83-8	WHI11000918	2.7	126	13.2	0.08	0.54	411	29.58	71.9
120726	7109400	646199		UTM83-8	WHI11000949	0.6	395	13.2	0.11	0.73	121	57.31	102.1
120727	7109400	646149		UTM83-8	WHI11000949	0.7	150	16.2	0.15	0.41	40	60.05	109.5
120728	7109400	646099		UTM83-8	WHI11000949	0.1	108	8.2	0.12	0.42	24	30.58	79.3
120729	7109400	646049		UTM83-8	WHI11000949	1.7	26	9.7	0.09	0.48	24	24.62	74
120730	7109400	645999		UTM83-8	WHI11000949	1.1	47	8.4	0.1	0.5	17	18.73	71.7
120731	7109400	645949		UTM83-8	WHI11000949	1.1	89	8.4	0.1	0.57	35	22.8	72.2
120732	7109400	645899		UTM83-8	WHI11000949	1.5	63	10.6	0.12	0.79	35	24.82	80.1
120733	7109400	645849		UTM83-8	WHI11000949	0.7	89	9.5	0.09	0.47	42	23.39	80.2
120734	7109400	645799		UTM83-8	WHI11000949	1.3	63	8.3	0.09	0.5	25	23.55	87.4
120735	7109400	645749		UTM83-8	WHI11000949	0.8	60	8.7	0.09	0.67	33	25.3	88.3
120736	7109400	645699		UTM83-8	WHI11000949	0.9	52	8.6	0.11	0.49	21	17.29	60.6
120737	7109400	645649		UTM83-8	WHI11000949	1	60	10.2	0.08	0.59	31	17.58	76.4
120738	7109400	645599		UTM83-8	WHI11000949	1.4	110	10.2	0.1	0.66	42	29.97	88.9
120739	7109400	645549		UTM83-8	WHI11000949	0.8	101	12.6	0.08	0.6	61	20.29	81.6
120740	7109400	645499		UTM83-8	WHI11000949	1.5	135	12.8	0.07	0.88	123	30.79	63.9
120741	7109400	645449		UTM83-8	WHI11000949	9.5	311	17	0.21	0.62	106	17.34	87
120742	7109400	645399		UTM83-8	WHI11000949	5.2	188	48	0.16	1.57	1267	20.51	104
120743	7109400	645349		UTM83-8	WHI11000949	11.8	130	39.8	0.13	2.93	1107	22.77	96.3
120744	7109400	645299		UTM83-8	WHI11000949	7.3	233	15.2	0.14	1.01	97	18.61	93
120745	7109400	645249		UTM83-8	WHI11000949	5.7	100	30.1	0.08	1.33	97	24.09	105
120746	7109400	645199		UTM83-8	WHI11000949	6.3	131	22.1	0.09	1.09	162	46.74	113.2
120747	7109400	645149		UTM83-8	WHI11000949	4.7	87	19.4	0.08	1.03	89	21.93	100.1
120748	7109400	645099		UTM83-8	WHI11000949	5.3	72	26.7	0.08	0.93	112	42.25	104.6
120749	7109400	645049		UTM83-8	WHI11000949	4.8	102	28.7	0.11	1.15	719	19.73	97.2
120750	7109400	644999		UTM83-8	WHI11000949	1.8	89	12.6	0.06	0.71	74	37.43	109.3
120751	7109350	644649		UTM83-8	WHI11000949	2.6	137	27	0.11	0.7	424	33.17	93.4
120752	7109350	644599		UTM83-8	WHI11000949	0.6	54	17	0.1	0.91	140	22.89	81.9
120753	7109350	644549		UTM83-8	WHI11000949	0.7	111	15.2	0.08	0.57	47	31.04	81.6
120754	7109350	644499		UTM83-8	WHI11000949	0	0	0	0	0	0	0	0
120755	7109350	644449		UTM83-8	WHI11000949	0.5	78	17.6	0.08	0.41	34	60.94	105.3
120756	7109350	644399		UTM83-8	WHI11000949	1.5	106	15.4	0.1	0.44	140	32.08	100

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
120757	7109350	644349		UTM83-8	WHI11000949	1.2	67	17	0.1	0.42	20	26.57	89.7
120758	7109350	644299		UTM83-8	WHI11000949	1.3	102	13.7	0.12	0.51	38	35.04	99.7
120759	7109350	644249		UTM83-8	WHI11000949	0.4	102	14.8	0.09	0.47	39	39.24	92.2
120760	7109350	644199		UTM83-8	WHI11000949	1.8	172	14.2	0.1	0.41	45	36.04	80.8
120761	7109350	644099		UTM83-8	WHI11000949	1.4	111	17.9	0.08	0.45	213	27.9	68.4
120762	7109350	644049		UTM83-8	WHI11000952	0.4	84	16.3	0.06	0.53	79	26.39	86.3
120763	7109050	646099		UTM83-8	WHI11000949	1.4	286	6.9	0.15	0.27	78	43.99	79
120764	7109050	646149		UTM83-8	WHI11000949	2.2	274	6.8	0.14	0.3	93	66.66	104.5
120765	7109050	646199		UTM83-8	WHI11000949	0.6	283	5.7	0.11	0.28	95	43.66	87.3
120766	7109050	646249		UTM83-8	WHI11000949	1.3	177	6.9	0.1	0.27	89	32.76	84.7
120767	7109050	353717		UTM83-9	WHI11000949	0.6	176	5	0.1	0.22	44	38.81	87.8
120768	7109045	353767		UTM83-9	WHI11000949	0.6	158	18.4	0.13	0.37	60	49.05	104.1
120769	7109040	353817		UTM83-9	WHI11000949	0.8	112	20.7	0.13	0.62	50	47.22	121.1
120770	7109036	353867		UTM83-9	WHI11000949	2.1	352	18.3	0.14	0.49	73	41.85	104.7
120771	7109050	646049		UTM83-8	WHI11000949	0.4	147	6.5	0.09	0.57	64	22.5	81.1
120772	7109050	645999		UTM83-8	WHI11000949	0.9	32	8.7	0.09	0.45	28	19.77	74.1
120773	7109050	645949		UTM83-8	WHI11000949	5	38	8.4	0.12	0.5	15	18.38	66.4
120774	7109050	645899		UTM83-8	WHI11000949	1.3	83	10.3	0.12	0.52	48	31.97	86.6
120775	7109050	645849		UTM83-8	WHI11000949	1.5	75	7.9	0.08	0.44	18	15.89	69.6
120776	7109050	645799		UTM83-8	WHI11000949	2.6	266	11.9	0.17	0.44	79	44.07	94.2
120777	7109050	645749		UTM83-8	WHI11000949	1.7	60	10.3	0.1	0.54	27	18.24	72.2
120778	7109050	645699		UTM83-8	WHI11000949	0.5	33	10.6	0.1	0.8	32	25.67	78.9
120779	7109050	645649		UTM83-8	WHI11000949	1.5	101	10	0.1	0.58	26	28.1	83.7
120780	7109050	645599		UTM83-8	WHI11000949	1.5	207	13.6	0.13	0.55	55	28.03	90.4
120781	7109050	645549		UTM83-8	WHI11000949	2.4	196	15.9	0.09	0.77	74	30.29	88.6
120782	7109050	645499		UTM83-8	WHI11000949	3.1	196	18.6	0.11	0.52	95	35.88	111.5
120783	7109050	645449		UTM83-8	WHI11000949	10.7	290	30	0.11	2.11	349	31.28	91.5
120784	7109050	645399		UTM83-8	WHI11000949	4	190	14.4	0.09	0.8	147	17.99	93
120785	7109050	645349		UTM83-8	WHI11000949	8.4	576	15.5	0.02	1.04	189	19.07	68.8
120786	7109050	645299		UTM83-8	WHI11000949	5.6	378	10	0.11	0.7	145	19.36	72.4
120787	7109050	645249		UTM83-8	WHI11000949	2.4	140	10.4	0.11	0.9	156	16.46	85.6
120788	7109050	645199		UTM83-8	WHI11000949	4.9	429	11.6	0.07	0.82	192	25.98	82.5
120789	7109050	645099		UTM83-8	WHI11000949	2	111	13.2	0.09	0.89	857	26.27	84.5
120790	7109050	645049		UTM83-8	WHI11000949	1.4	102	12.1	0.08	0.68	132	28.35	98.4
120791	7109050	644999		UTM83-8	WHI11000949	0.5	126	15	0.06	0.58	672	31.68	105.4
120792	7109050	644949		UTM83-8	WHI11000949	1.2	134	34.7	0.07	0.72	336	27.46	98.3
120793	7109050	644899		UTM83-8	WHI11000949	2.6	100	14.5	0.07	0.83	212	25.53	91.8
120794	7109050	644849		UTM83-8	WHI11000949	4	92	16.4	0.08	1.03	244	24.67	89.6
120795	7109050	644799		UTM83-8	WHI11000949	2.9	86	20.3	0.11	1.52	588	21.1	75.2
120796	7109050	644749		UTM83-8	WHI11000949	5.1	313	32.4	0.1	2.98	724	28.24	98.3
120797	7109050	644699		UTM83-8	WHI11000949	6.8	278	29.2	0.14	1.88	677	24.99	100.3
120798	7109050	644649		UTM83-8	WHI11000949	7.2	108	22.7	0.08	2	291	19.66	101.7
120799	7109050	644599		UTM83-8	WHI11000949	3.5	100	29	0.08	1.72	582	24.96	107
120800	7109050	644499		UTM83-8	WHI11000949	4.5	98	9.1	0.09	0.42	117	26.73	89
120801	7109700	645749		UTM83-8	WHI11000918	1.8	168	16	0.13	0.48	85	63.19	118.6
120802	7109700	645699		UTM83-8	WHI11000918	1.5	249	12.1	0.18	0.42	147	38.41	103.8
120803	7109700	645649		UTM83-8	WHI11000918	2.6	338	9	0.16	0.42	207	35.24	97
120804	7109700	645599		UTM83-8	WHI11000918	1.8	307	9.3	0.13	0.4	193	33	101.4
120805	7109700	645549		UTM83-8	WHI11000918	1.1	51	6.7	0.1	0.45	28	30	107
120806	7109700	645499		UTM83-8	WHI11000918	0.8	63	10.8	0.12	0.58	69	27.69	77.8
120807	7109700	645449		UTM83-8	WHI11000918	1.8	32	8.6	0.07	0.51	35	27.23	90
120808	7109700	645399		UTM83-8	WHI11000918	2.1	74	9.2	0.13	0.51	78	26.76	124.7
120809	7109700	645349		UTM83-8	WHI11000918	2.2	96	12.1	0.11	0.76	100	25.49	115.1
120810	7109700	645299		UTM83-8	WHI11000918	3	163	13.4	0.09	0.63	131	24.51	92.9
120811	7109700	645249		UTM83-8	WHI11000918	2.5	160	17.5	0.11	0.61	364	25.06	85.6
120812	7109700	645199		UTM83-8	WHI11000918	1.6	131	38	0.16	1.4	451	31.56	116.6
120813	7109700	645149		UTM83-8	WHI11000918	2.3	85	19	0.07	0.57	171	31.28	93.1
120814	7109700	645099		UTM83-8	WHI11000918	2.5	99	25.6	0.14	0.87	230	26.58	101.5
120815	7109700	645049		UTM83-8	WHI11000918	5.5	191	163.9	0.46	4.55	1421	22.37	84.4
120816	7109700	644999		UTM83-8	WHI11000918	5.5	447	14	0.14	0.58	259	18.27	105.8
120817	7109700	644949		UTM83-8	WHI11000918	2.2	117	12.3	0.12	0.58	320	27.45	94.3
120818	7109700	644899		UTM83-8	WHI11000918	0.9	51	8.4	0.12	0.7	338	19.34	91.9

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
120819	7109700	644849		UTM83-8	WHI11000918	1.9	86	23.4	0.09	0.81	623	27.63	119.2
120820	7109700	644799		UTM83-8	WHI11000918	1.8	50	8.7	0.06	0.42	86	23.34	108.8
120821	7109700	644749		UTM83-8	WHI11000918	1	80	7.9	0.08	0.61	57	29.1	113
120822	7109700	644699		UTM83-8	WHI11000918	2	58	16.6	0.18	0.49	80	49.78	100.1
120823	7109700	644649		UTM83-8	WHI11000918	4.2	176	18.1	0.11	0.83	357	24.2	64.6
120824	7109700	644599		UTM83-8	WHI11000918	1.4	89	14.6	0.12	0.5	93	27.4	78
120825	7109700	644549		UTM83-8	WHI11000918	1.1	29	15.6	0.13	0.73	81	19.56	100.3
120826	7109700	644449		UTM83-8	WHI11000918	2.6	117	11.1	0.1	0.61	167	27.56	113.5
120827	7109700	644349		UTM83-8	WHI11000918	3.1	103	20.4	0.1	2.24	505	25.82	107.8
120828	7109700	644249		UTM83-8	WHI11000918	2.3	171	9.7	0.09	0.71	320	33.38	94.9
120829	7109700	644199		UTM83-8	WHI11000918	0.9	229	27.5	0.12	2.04	95	54.16	111.9
120830	7109700	644049		UTM83-8	WHI11000918	0.8	102	14.1	0.07	0.54	231	26.21	102.3
120831	7109450	646149		UTM83-8	WHI11000949	1.4	190	14.6	0.09	0.33	38	34.82	84.1
120832	7109450	646099		UTM83-8	WHI11000949	0.5	67	10.6	0.12	0.44	24	27.91	82.8
120833	7109450	646049		UTM83-8	WHI11000949	0.9	29	9.5	0.09	0.44	10	32.7	89.2
120834	7109450	645999		UTM83-8	WHI11000949	1	23	8.8	0.12	0.56	16	21.1	76.4
120835	7109450	645949		UTM83-8	WHI11000949	1.9	49	8.7	0.14	0.51	66	24.66	121.4
120836	7109450	645899		UTM83-8	WHI11000949	0.7	45	9.2	0.09	0.39	24	23.11	76
120837	7109450	645849		UTM83-8	WHI11000949	0.3	32	5.9	0.1	0.32	15	21.04	72.4
120838	7109450	645799		UTM83-8	WHI11000949	0.7	47	8.3	0.13	0.57	47	29.38	78.9
120839	7109450	645749		UTM83-8	WHI11000949	1.1	20	8.6	0.15	0.51	25	19.89	69.3
120840	7109450	645699		UTM83-8	WHI11000949	0.8	84	9.4	0.14	0.58	25	22.24	84.4
120841	7109450	645649		UTM83-8	WHI11000949	0.9	60	9.2	0.11	0.62	42	26.32	90.7
120842	7109450	645599		UTM83-8	WHI11000949	0.6	93	12	0.12	0.66	31	20.14	82.1
120843	7109450	645549		UTM83-8	WHI11000949	1.1	76	9.3	0.1	0.48	39	20.22	76.7
120844	7109450	645499		UTM83-8	WHI11000949	2	83	10.8	0.07	0.63	47	21.63	81.6
120845	7109450	645449		UTM83-8	WHI11000949	9.1	116	25.7	0.12	2.28	95	21.81	67.4
120846	7109450	645399		UTM83-8	WHI11000949	8.9	235	22.5	0.18	1.71	85	21	96.1
120847	7109450	645349		UTM83-8	WHI11000949	11.8	185	27.7	0.1	2.34	70	24.4	83.9
120848	7109450	645249		UTM83-8	WHI11000949	8.1	195	25.3	0.14	1.21	140	20.3	94
120849	7109450	645199		UTM83-8	WHI11000949	13.2	124	29.8	0.14	1.49	174	27.2	124.1
120850	7109450	645149		UTM83-8	WHI11000949	7.5	169	26.1	0.15	1.15	305	20.53	89.4
120851	7107843	644347	1414	UTM83-8	WHI11001025	0.4	55	13.2	0.11	0.51	30	19.32	120.8
120852	7107859	644394	1405	UTM83-8	WHI11001025	0.1	78	11.6	0.05	0.45	27	17.64	102
120853	7107860	644445	1387	UTM83-8	WHI11001025	0.9	31	12.4	0.09	0.35	19	11.74	48.2
120854	7107853	644510	1373	UTM83-8	WHI11001025	0.8	62	10.2	0.11	0.4	31	13.83	50.5
120855	7107855	644545	1365	UTM83-8	WHI11001025	1.5	95	35.3	0.25	1.43	213	50.07	105.5
120856	7107844	644599	1354	UTM83-8	WHI11001025	0.3	61	11.3	0.11	0.44	24	19.14	77.3
120857	7107848	643844	1510	UTM83-8	WHI11001025	15.4	416	124.5	0.41	4.3	278	21.06	145.6
120858	7107843	643801	1503	UTM83-8	WHI11001025	12.8	122	189.3	0.61	1.88	392	15.97	102.3
120859	7107851	643754	1488	UTM83-8	WHI11001025	5	95	29.7	0.2	0.88	151	16.71	101.3
120860	7107842	643699	1476	UTM83-8	WHI11001025	7	141	120.4	0.31	1.8	323	20.92	126.6
120861	7107844	643645	1466	UTM83-8	WHI11001025	3.6	87	49.6	0.14	0.84	129	16.05	106.3
120862	7107849	643599	1433	UTM83-8	WHI11001025	1.1	57	14.8	0.12	0.43	56	37.24	96.5
120863	7107854	643555	1413	UTM83-8	WHI11001025	36	864	1149.4	3.58	5.43	853	25.73	114
120864	7107852	643498	1366	UTM83-8	WHI11001025	17.1	430	829.9	2.35	3.38	889	23.6	94.9
120865	7107849	643406	1349	UTM83-8	WHI11001025	0.6	86	19.6	0.13	0.41	51	27.94	68.2
120866	7107844	643345	1308	UTM83-8	WHI11001025	1.7	237	25.7	0.14	0.41	206	66.18	109.9
120867	7107851	643305	1281	UTM83-8	WHI11001025	1.4	212	13.1	0.11	0.27	153	34.09	81.4
120868	7107848	643251	1258	UTM83-8	WHI11001025	1.9	245	12.8	0.11	0.41	136	39.89	89.8
120869	7107851	643196	1249	UTM83-8	WHI11001025	1.2	189	9	0.1	0.26	107	23.74	55
120870	7107844	643149	1229	UTM83-8	WHI11001025	1.5	184	10	0.12	0.25	97	26.05	77.2
120871	7107849	643101	1213	UTM83-8	WHI11001025	1.8	236	16.7	0.1	0.27	95	28.94	75.9
120872	7107845	643050	1186	UTM83-8	WHI11001025	3.2	164	14.9	0.08	0.36	105	23.25	71.1
120873	7107841	642893	1107	UTM83-8	WHI11001025	2.8	200	11.8	0.09	0.45	141	22.5	78.8
120874	7107842	642602	1026	UTM83-8	WHI11001025	2.6	172	6.9	0.08	0.37	86	30.87	76.4
120875	7107506	643397	1468	UTM83-8	WHI11001169	1.7	51	39	0.16	1.11	33	17.83	68
120876	7107508	643438	1469	UTM83-8	WHI11001169	5.2	88	72.6	0.12	0.89	44	14.33	51.4
120877	7107501	643494	1479	UTM83-8	WHI11001169	2.3	59	39.3	0.07	1.19	74	19.61	66
120878	7107506	643543	1469	UTM83-8	WHI11001169	15.7	34	55.4	0.09	0.85	69	26.18	66.4
120879	7107500	643597	1453	UTM83-8	WHI11001169	1	77	28.9	0.08	0.73	61	43.75	78.3
120880	7107495	643645	1461	UTM83-8	WHI11001169	31.6	59	287.9	0.1	1.12	208	45.23	68.9

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
120881	7107495	643703	1470	UTM83-8	WHI11001169	8.2	69	131.4	0.19	3.71	569	30.14	82.6
120882	7107503	643744	1457	UTM83-8	WHI11001169	27.9	54	32	0.11	1.4	120	21.13	80.3
120883	7107502	643800	1438	UTM83-8	WHI11001169	1.5	133	32.7	0.08	0.68	31	17.34	70.7
120884	7107496	643841	1418	UTM83-8	WHI11001169	1.1	207	14.3	0.11	0.28	58	42.59	68.4
120885	7107496	643894	1388	UTM83-8	WHI11001169	1.1	27	23.5	0.11	0.38	28	20.5	69.5
120886	7107501	643992	1347	UTM83-8	WHI11001169	1.9	91	22.5	0.07	0.44	123	20.49	68.4
120887	7107502	644042	1332	UTM83-8	WHI11001169	2.6	107	25.6	0.08	1.17	155	26.75	88.4
120888	7107511	644095	1324	UTM83-8	WHI11001169	0.5	37	26.3	0.08	0.42	35	23.04	57.8
120889	7107500	644149		UTM83-8	WHI11001169	1	200	14.5	0.12	0.42	43	19.97	71.3
120890	7107495	643351	1459	UTM83-8	WHI11001169	1.5	224	18	0.15	0.46	136	48.43	103.9
120891	7107499	643302	1429	UTM83-8	WHI11001169	1.7	219	7.3	0.13	0.29	157	45.62	88.7
120892	7107503	643259	1392	UTM83-8	WHI11001169	3	330	14.3	0.13	0.85	121	36.73	94.3
120893	7107499	643206	1349	UTM83-8	WHI11001169	1	206	7.9	0.11	0.36	130	27.09	76.8
120894	7107501	643104	1271	UTM83-8	WHI11001169	2.6	189	12.8	0.09	0.63	85	25	94.5
120895	7107502	643054	1240	UTM83-8	WHI11001169	1.9	231	11	0.09	0.47	202	19.72	74
120896	7107500	642904	1140	UTM83-8	WHI11001169	2.1	219	11.8	0.11	0.45	202	22.62	64
120897	7107488	642851		UTM83-8	WHI11001169	1.2	192	9.5	0.1	0.31	146	24.48	90.2
120898	7107501	642805	1091	UTM83-8	WHI11001169	0.9	158	7.4	0.09	0.23	163	21.34	82.2
120899	7107503	642752	1080	UTM83-8	WHI11001169	0.7	34	5.1	0.11	0.15	92	17.12	58.4
120900	7107502	642704	1072	UTM83-8	WHI11001169	0.8	115	6.7	0.11	0.16	85	18.33	50.7
120901	7109600	644749		UTM83-8	WHI11000918	1.3	82	8.4	0.1	0.65	47	37.86	115
120902	7109600	644699		UTM83-8	WHI11000918	1.2	59	15.2	0.07	0.49	60	19.94	97.7
120903	7109600	644649		UTM83-8	WHI11000918	0.8	58	11.9	0.09	0.57	59	26.56	79
120904	7109600	644599		UTM83-8	WHI11000918	1.2	57	14.6	0.11	0.59	168	22.76	95
120905	7109600	644549		UTM83-8	WHI11000918	1.4	91	18.6	0.09	0.48	432	40.62	124
120906	7109600	644499		UTM83-8	WHI11000918	0.8	72	11.4	0.12	0.43	54	20.21	93.3
120907	7109600	644449		UTM83-8	WHI11000918	3.3	99	17.7	0.07	0.71	224	12.9	64.7
120908	7109600	644399		UTM83-8	WHI11000918	4.7	165	24.4	0.1	1.21	317	17.83	61.8
120909	7109600	644349		UTM83-8	WHI11000918	2.4	193	14.8	0.13	0.58	328	24.98	77.8
120910	7109600	644299		UTM83-8	WHI11000918	1.9	130	25.8	0.1	1.53	199	37.17	112.8
120911	7109600	644249		UTM83-8	WHI11000918	1	429	13.2	0.11	0.54	131	26.39	77.7
120912	7109600	644199		UTM83-8	WHI11000918	1.8	335	38.4	0.15	0.76	171	59.61	144.4
120913	7109600	644149		UTM83-8	WHI11000918	1	207	25.7	0.1	0.53	184	49.72	132.5
120914	7109600	644099		UTM83-8	WHI11000918	1	339	25.4	0.13	0.92	315	55.19	133.5
120915	7109600	644049		UTM83-8	WHI11000918	1.3	73	28.6	0.08	0.8	103	44.69	128.9
120916	7109350	646099		UTM83-8	WHI11000949	0.7	238	7	0.12	0.27	59	30.55	90.8
120917	7109350	646149		UTM83-8	WHI11000949	1.1	211	20.2	0.16	0.43	38	56.59	134.1
120918	7109350	646199		UTM83-8	WHI11000949	1.2	318	19.5	0.23	0.66	62	48.47	127.6
120919	7109350	646249		UTM83-8	WHI11000949	1.2	267	10.3	0.14	0.44	89	39.41	90.5
120920	7109348	353745		UTM83-9	WHI11000949	1.5	475	10.4	0.12	0.53	56	47.7	100.2
120921	7109344	353795		UTM83-9	WHI11000949	1.8	305	12.9	0.15	0.55	60	43.42	98.6
120922	7109339	353845		UTM83-9	WHI11000949	1.2	383	11.6	0.13	0.52	62	41.02	102.9
120923	7109334	353895		UTM83-9	WHI11000949	2	693	13.4	0.15	0.54	87	43.16	116.9
120924	7109350	646049		UTM83-8	WHI11000949	0.9	67	15.5	0.15	0.62	142	31.29	89.9
120925	7109350	645999		UTM83-8	WHI11000949	1.5	58	11.8	0.09	0.55	26	26.06	85
120926	7109350	645949		UTM83-8	WHI11000949	1.3	32	13.4	0.1	0.64	31	22.19	80
120927	7109350	645899		UTM83-8	WHI11000949	1.7	47	12.5	0.1	0.62	34	26.13	78.5
120928	7109350	645849		UTM83-8	WHI11000949	2	95	10.4	0.12	0.68	39	24.35	67.8
120929	7109350	645799		UTM83-8	WHI11000949	5.3	113	12.7	0.11	0.51	69	30.43	111.5
120930	7109350	645749		UTM83-8	WHI11000949	1.8	62	9.1	0.07	0.54	27	21.75	75.4
120931	7109350	645699		UTM83-8	WHI11000949	1.4	59	12.1	0.12	0.72	35	24.26	76.1
120932	7109350	645649		UTM83-8	WHI11000949	1.5	39	13.7	0.1	0.82	34	28.39	79.5
120933	7109350	645599		UTM83-8	WHI11000949	1.9	113	12.1	0.12	0.83	150	20.51	92.4
120934	7109350	645549		UTM83-8	WHI11000949	3.6	153	19.9	0.11	1.16	323	20.46	69.1
120935	7109350	645499		UTM83-8	WHI11000949	6	168	18.2	0.09	1.2	326	19.2	75.3
120936	7109350	645449		UTM83-8	WHI11000949	6.4	158	16.2	0.16	0.57	174	15.87	90.2
120937	7109350	645399		UTM83-8	WHI11000949	6.6	143	24.7	0.1	1.27	63	22.24	119.5
120938	7109350	645349		UTM83-8	WHI11000949	6.5	125	33.1	0.1	2.57	539	23.59	104.3
120939	7109350	645299		UTM83-8	WHI11000949	3.1	40	18.9	0.1	0.21	330	23.26	130.2
120940	7109350	645249		UTM83-8	WHI11000949	3.9	72	16	0.06	0.84	107	25.03	103.8
120941	7109350	645149		UTM83-8	WHI11000949	4.6	100	23.3	0.08	1.56	127	56.63	135.5
120942	7109350	645099		UTM83-8	WHI11000949	6	124	25.7	0.15	1.92	142	54.29	129.9

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
120943	7109350	645049		UTM83-8	WHI11000949	9.7	74	38.9	0.07	1.73	324	37.73	109.7
120944	7109350	644999		UTM83-8	WHI11000949	3.4	91	19.8	0.08	0.81	258	21.72	92.6
120945	7109350	644949		UTM83-8	WHI11000949	1.6	82	14.8	0.01	0.87	120	34.7	103.9
120946	7109350	644899		UTM83-8	WHI11000949	27.5	706	70.4	0.28	2.87	349	23.28	104.5
120947	7109350	644849		UTM83-8	WHI11000949	1.4	65	27.8	0.14	1.38	190	33.01	110.4
120948	7109350	644799		UTM83-8	WHI11000949	2.5	63	24	0.09	0.96	465	20.78	109.7
120949	7109350	644749		UTM83-8	WHI11000949	1.5	49	17.5	0.09	0.68	160	21.15	115.3
120950	7109350	644699		UTM83-8	WHI11000949	6.2	428	35.9	0.11	1.11	674	44.78	87.4
120951	7109850	644699		UTM83-8	WHI11000919	1.4	76	18.4	0.16	0.61	291	23.21	85.2
120952	7109850	644649		UTM83-8	WHI11000919	1.2	79	14.6	0.13	0.57	174	23.84	82.1
120953	7109850	644599		UTM83-8	WHI11000919	0.8	107	14.1	0.11	0.42	161	21.24	67.1
120954	7109850	644549		UTM83-8	WHI11000919	1.3	93	21.6	0.14	0.51	128	83.39	139.3
120955	7109850	644499		UTM83-8	WHI11000919	1	49	24.7	0.12	0.73	182	28	86.7
120956	7109850	644449		UTM83-8	WHI11000919	2.9	135	30.3	0.11	0.79	406	54.69	104
120957	7109850	644399		UTM83-8	WHI11000919	2	154	20.8	0.12	0.64	297	24.72	87.3
120958	7109850	644349		UTM83-8	WHI11000919	3	160	16.7	0.09	0.55	268	22.61	102.2
120959	7109850	644299		UTM83-8	WHI11000919	0.6	53	17	0.1	0.51	101	23.81	86.7
120960	7109850	644249		UTM83-8	WHI11000919	0.8	54	15.2	0.04	0.35	499	13.27	51.6
120961	7109850	644199		UTM83-8	WHI11000919	1.4	79	10.7	0.06	0.35	267	15.98	71.7
120962	7109850	644149		UTM83-8	WHI11000919	0.7	85	10.1	0.08	0.4	102	29.77	65.4
120963	7109850	644099		UTM83-8	WHI11000919	0.6	139	5.3	0.06	0.38	247	11.69	31.4
120964	7109850	644049		UTM83-8	WHI11000919	0.6	103	27	0.1	0.53	93	42.73	89.3
120965	7109850	643999		UTM83-8	WHI11000919	0.6	90	13.2	0.11	0.31	103	30.99	87.2
120966	7109800	643999		UTM83-8	WHI11000919	1.1	84	8.5	0.11	0.25	100	29.91	88.4
120967	7109600	646149		UTM83-8	WHI11000919	0.3	357	10.6	0.2	0.32	119	53.31	152.3
120968	7109600	646199		UTM83-8	WHI11000919	0.3	278	8.1	0.21	0.23	208	45.22	128.7
120969	7109600	646249		UTM83-8	WHI11000919	0.5	244	7.9	0.42	0.21	99	50.9	180.4
120970	7109597	353769		UTM83-9	WHI11000919	0.4	273	7.9	0.27	0.24	108	51.01	130
120971	7109593	353819		UTM83-9	WHI11000919	1.1	179	9.3	0.38	0.37	171	57.68	187.5
120972	7109588	353868		UTM83-9	WHI11000919	2.4	206	13.7	0.15	0.91	174	45.15	154
120973	7109583	353918		UTM83-9	WHI11000919	0.1	202	5.9	0.17	0.26	48	47.35	129.9
120974	7109600	646099		UTM83-8	WHI11000919	1	192	6.1	0.14	0.45	165	29.78	114.2
120975	7109600	646049		UTM83-8	WHI11000919	1.4	158	10.8	0.08	0.71	210	34.58	162
120976	7109600	645999		UTM83-8	WHI11000919	2.3	217	11.8	0.09	1.05	202	28.66	81.6
120977	7109600	645949		UTM83-8	WHI11000919	0.1	158	6.8	0.14	0.33	82	28.83	100.4
120978	7109600	645899		UTM83-8	WHI11000919	1	431	11.3	0.12	0.42	88	30.63	100.8
120979	7109600	645849		UTM83-8	WHI11000919	0.4	135	7.9	0.1	0.39	38	27.79	81.8
120980	7109600	645799		UTM83-8	WHI11000919	0.4	72	6.3	0.1	0.36	26	24.42	77.1
120981	7109600	645749		UTM83-8	WHI11000919	0.1	140	8.7	0.1	0.43	34	25.68	78
120982	7109600	645699		UTM83-8	WHI11000919	0.3	75	6.2	0.11	0.3	22	22.62	76
120983	7109600	645649		UTM83-8	WHI11000919	0.1	31	6.5	0.14	0.33	9	17.81	60.8
120984	7109600	645599		UTM83-8	WHI11000919	0.1	72	7.5	0.12	0.51	29	19.32	70
120985	7109600	645549		UTM83-8	WHI11000919	1.6	58	8.5	0.13	0.54	19	16.41	67.6
120986	7109600	645499		UTM83-8	WHI11000919	0.8	53	9.7	0.13	0.64	32	21.89	80.9
120987	7109600	645449		UTM83-8	WHI11000919	2.5	163	11.5	0.07	0.62	96	26.7	92.8
120988	7109600	645399		UTM83-8	WHI11000919	1.3	134	10.7	0.08	0.5	72	23.4	83
120989	7109600	645349		UTM83-8	WHI11000919	1.3	86	14.5	0.06	0.44	75	27.64	92.2
120990	7109600	645299		UTM83-8	WHI11000919	1.5	94	15.4	0.1	0.69	96	25.15	95.7
120991	7109600	645249		UTM83-8	WHI11000919	11.4	127	205.5	0.75	6.01	10715	30.62	107
120992	7109600	645199		UTM83-8	WHI11000919	7.4	217	269.6	1.25	17.22	3704	21.36	97.8
120993	7109600	645149		UTM83-8	WHI11000919	27.3	681	54.1	0.17	3.09	345	25.6	111.4
120994	7109600	645099		UTM83-8	WHI11000919	9.6	322	214.4	0.65	5.77	6354	16.75	59.2
120995	7109600	645049		UTM83-8	WHI11000919	6.8	274	43.7	0.23	2.33	2609	28.29	105.7
120996	7109600	644999		UTM83-8	WHI11000919	2.7	148	28.6	0.1	0.85	397	21.33	84.5
120997	7109600	644949		UTM83-8	WHI11000919	5.5	153	36	0.2	1.2	284	21.17	117.8
120998	7109600	644899		UTM83-8	WHI11000919	4.1	118	81.6	0.13	2.21	999	26.81	108.3
120999	7109600	644849		UTM83-8	WHI11000919	4	68	58.1	0.18	1.65	337	29.1	114.5
121000	7109600	644799		UTM83-8	WHI11000919	6.1	176	27.4	0.16	0.57	305	36.04	106.7
121432	7110432	643433	1140	UTM83-8		0	0	0	0	0	0	0	0
121501	7107640	633182	1400	UTM83-8	WHI11000332	1	89	33.9	0.19	2.16	291	51.46	46.9
121502	7107534	633217	1355	UTM83-8	WHI11000332	0.7	50	11.4	0.2	0.16	45	104.9	59.5
121503	7107427	633228	1325	UTM83-8	WHI11000332	0.1	48	10.2	0.09	0.44	56	16.11	97.8

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
121504	7107330	633229	1287	UTM83-8	WHI11000332	0.2	137	8	0.15	0.4	17	25.44	87
121505	7107232	633246	1248	UTM83-8	WHI11000332	1.3	108	8.9	0.1	0.6	35	31.71	87.2
121506	7107133	633249	1202	UTM83-8	WHI11000332	0.8	139	18.6	0.1	0.44	13	53.45	67.9
121507	7107036	633200	1167	UTM83-8	WHI11000332	1.4	64	7.6	0.11	0.61	21	31.73	66.3
121508	7106937	633204	1119	UTM83-8	WHI11000332	0.3	47	9.9	0.09	0.27	10	25.46	95.1
121509	7106840	633202	1064	UTM83-8	WHI11000332	1.2	81	11	0.14	0.65	42	29.41	69.7
121510	7106761	633263	1016	UTM83-8	WHI11000332	0.5	125	8	0.14	0.53	26	28.89	103.6
121511	7106671	633291	974	UTM83-8	WHI11000332	0.7	37	7.2	0.09	0.39	17	19.68	79.4
121512	7106569	633321	941	UTM83-8	WHI11000332	1	72	4.9	0.12	0.21	47	24.6	118.8
121552	7110302	354287	1708	UTM83-9	WHI11000951	18.9	138	22.6	0.06	2.21	220	26.84	128.2
121553	7110297	354338	1700	UTM83-9	WHI11000951	8.4	141	22.2	0.05	1.5	935	21.37	378.3
121554	7110291	354387	1690	UTM83-9	WHI11000951	4.2	178	17.1	0.06	1.92	913	21.92	341.7
121555	7110289	354439	1674	UTM83-9	WHI11000951	8.5	189	18.4	0.1	2.56	4482	21.9	913.7
121556	7110285	354488	1649	UTM83-9	WHI11000951	5.9	106	15.7	0.04	2.32	972	24.78	813.2
121557	7110278	354538	1631	UTM83-9	WHI11000951	28.3	137	20.7	0.04	3.13	1078	19.5	484.7
121558	7110274	354586	1610	UTM83-9	WHI11000951	1.6	108	23.3	0.08	2.22	126	37.55	225.9
121559	7110269	354634	1588	UTM83-9	WHI11000951	0.8	108	22.9	0.06	0.72	88	40.57	139.9
121560	7110263	354686	1567	UTM83-9	WHI11000951	0.3	34	9.6	0.1	0.42	32	21.36	50.9
121561	7110260	354735	1547	UTM83-9	WHI11000951	0.5	50	7.2	0.09	0.25	27	27.31	67.8
121562	7110254	354787	1515	UTM83-9	WHI11000951	0.6	35	4.9	0.06	0.27	14	14.76	27.3
121563	7108252	645148	1414	UTM83-8	WHI11000951	1.1	56	44	0.08	1.16	29	21.76	65.6
121564	7108250	645100	1412	UTM83-8	WHI11000951	1.1	81	20.4	0.05	0.76	11	14.3	75.6
121565	7108251	645046	1429	UTM83-8	WHI11000951	0.1	138	13	0.09	0.59	19	30.34	92.9
121566	7108250	644998	1455	UTM83-8	WHI11000951	0.8	141	7.6	0.08	0.54	23	25.03	108.7
121567	7108250	644950	1479	UTM83-8	WHI11000951	11.4	23	178.5	0.09	1.04	15	20.87	97.3
121568	7108250	644898	1494	UTM83-8	WHI11000951	0.1	37	24.2	0.1	0.44	123	26.12	82.6
121569	7108250	644847	1497	UTM83-8	WHI11000951	1.2	57	34.8	0.19	0.72	45	26.67	82.7
121570	7108250	644799	1496	UTM83-8	WHI11000951	0.8	95	10.6	0.1	0.32	45	40.32	137.2
121571	7108248	644749	1497	UTM83-8	WHI11000952	1.5	29	12.4	0.12	0.83	22	24.54	85.4
121572	7108252	644699	1513	UTM83-8	WHI11000952	1.6	77	10.1	0.13	0.88	35	23.53	85.2
121573	7108251	644648	1515	UTM83-8	WHI11000952	0.8	86	14.6	0.19	0.86	15	22	88.7
121574	7108251	644597	1521	UTM83-8	WHI11000952	0.5	59	11.4	0.13	0.84	42	20.05	80.9
121575	7108251	644547	1526	UTM83-8	WHI11000952	0.1	27	14.2	0.15	0.66	34	24.67	84.4
121576	7108252	644500	1532	UTM83-8	WHI11000952	0.2	51	8.3	0.16	0.25	19	22.7	75.2
121577	7108252	644449	1526	UTM83-8	WHI11000952	0.9	123	14.9	0.08	0.85	267	20.86	74.9
121578	7108252	644401	1511	UTM83-8	WHI11000952	4.8	320	22.7	0.14	1.13	337	20.48	91.6
121579	7108249	644348	1481	UTM83-8	WHI11000952	7.9	268	49.9	0.32	1.66	233	23.6	110.7
121580	7108252	644251	1420	UTM83-8	WHI11000952	7.5	84	53.3	0.15	3.16	696	24.61	120.2
121581	7108249	644200	1389	UTM83-8	WHI11000952	10.3	140	145.9	0.2	5.11	265	22.04	99.3
121582	7108251	644099	1308	UTM83-8	WHI11000952	7.2	148	80.8	0.2	4.06	560	22.03	107.7
121583	7108249	644046	1292	UTM83-8	WHI11000952	2.5	31	18.1	0.08	0.53	144	20.06	103.9
121584	7108251	643997	1280	UTM83-8	WHI11000952	3.3	69	26.8	0.18	0.62	96	36.62	111.5
121585	7108252	643897	1256	UTM83-8	WHI11000952	3.8	57	28.1	0.14	0.75	178	38.66	129.4
121586	7108251	643849	1252	UTM83-8	WHI11000952	2.8	53	17.7	0.09	0.43	174	23.21	111.3
121587	7108250	643798	1250	UTM83-8	WHI11000952	1.8	40	15.3	0.1	0.55	46	31.48	78
121588	7108251	643751	1256	UTM83-8	WHI11000952	6.7	92	39.5	0.12	0.68	157	20.18	72.8
121589	7108252	643696	1248	UTM83-8	WHI11000952	4.1	111	31	0.1	0.56	179	21.05	78.2
121590	7108248	643646	1236	UTM83-8	WHI11000952	3.7	85	38.1	0.1	1.05	77	29.55	105.3
121591	7108251	643601	1221	UTM83-8	WHI11000952	4.5	69	496.3	0.31	0.93	480	26.73	124.5
121592	7108252	643551	1233	UTM83-8	WHI11000952	7.2	128	155.2	0.17	1.04	370	18.04	86.7
121593	7108249	643449	1233	UTM83-8	WHI11000952	11.6	395	51.7	0.14	1.91	180	21.51	81.5
121594	7108249	643398	1210	UTM83-8	WHI11000952	5.1	126	65	0.1	1.18	137	27.65	97.3
121595	7108250	643346	1180	UTM83-8	WHI11000952	2.1	72	33.3	0.09	0.9	79	25.85	97.8
121596	7108250	643299	1147	UTM83-8	WHI11000952	2.3	90	28.8	0.11	0.51	117	20.98	87.5
121597	7108252	643248	1130	UTM83-8	WHI11000952	1.9	86	20	0.08	0.37	148	15.06	53
121598	7108250	643145	1085	UTM83-8	WHI11000952	1.4	67	21.2	0.11	0.58	101	24.43	66.3
121599	7108249	643098	1067	UTM83-8	WHI11000952	1	58	26.9	0.12	0.4	65	23.34	78.2
121600	7108251	643051	1053	UTM83-8	WHI11000952	2.4	87	36.1	0.14	1.35	219	22.23	82.4
121601	7108665	645207	1476	UTM83-8	WHI11000332	0.1	116	21.2	0.11	0.7	108	28.17	81.4
121602	7108573	645167	1463	UTM83-8	WHI11000332	0.7	89	11.8	0.09	0.45	47	33.19	114.4
121603	7108473	645149	1450	UTM83-8	WHI11000332	0.3	155	8.9	0.08	0.54	29	30.56	136.3
121604	7108359	645167	1433	UTM83-8	WHI11000332	0.7	41	26.1	0.06	1.11	23	11	53.7

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
121605	7108267	645149	1421	UTM83-8	WHI11000332	1.1	39	19.2	0.11	1.11	51	23.54	66.8
121606	7108247	645059	1421	UTM83-8	WHI11000332	0.1	90	14.4	0.08	0.77	38	24.74	116.1
121607	7108138	645053	1412	UTM83-8	WHI11000332	0.1	128	10.7	0.12	0.57	91	56.12	92
121608	7108033	645056	1401	UTM83-8	WHI11000332	0.1	135	8.2	0.09	0.51	45	28.24	111.5
121609	7108038	644946	1412	UTM83-8	WHI11000332	1.1	217	26.4	0.1	0.72	48	29.61	83.7
121610	7108040	644836	1414	UTM83-8	WHI11000332	0.1	99	10.8	0.09	0.71	26	20.27	82.7
121611	7108035	644744	1427	UTM83-8	WHI11000332	0.1	244	9.5	0.09	0.5	91	39.81	182
121612	7107991	644643	1428	UTM83-8	WHI11000332	0.1	153	12.3	0.1	0.52	113	34.5	121.3
121613	7108014	644516	1428	UTM83-8	WHI11000332	0.7	228	12.7	0.11	0.89	55	32.05	101
121614	7107944	644446	1416	UTM83-8	WHI11000332	0.1	125	11.9	0.1	0.71	29	15.85	98.3
121615	7107875	644356	1423	UTM83-8	WHI11000332	0.1	113	18.9	0.1	0.53	67	32.84	121.5
121616	7107780	644158	1435	UTM83-8	WHI11000332	0.3	107	29.5	0.09	0.7	76	31.1	116.6
121617	7107632	644051	1403	UTM83-8	WHI11000332	0.3	129	15.5	0.07	0.47	54	38.38	80.8
121618	7107520	643814	1440	UTM83-8	WHI11000332	0.5	60	24.8	0.13	0.85	60	42.63	96.9
121619	7108892	645700	1519	UTM83-8	WHI11000332	0.6	67	20.8	0.1	0.64	29	41.72	99.2
121620	7108914	645608	1506	UTM83-8	WHI11000332	0.2	106	18.9	0.15	0.7	45	95.35	114
121621	7108858	645517	1507	UTM83-8	WHI11000332	0.4	96	15.4	0.13	0.43	63	54.07	94.3
121622	7108810	645428	1478	UTM83-8	WHI11000332	0.6	150	7.3	0.07	0.26	43	36.82	65.3
121623	7108756	645349	1476	UTM83-8	WHI11000332	0.9	53	9.8	0.07	0.47	59	21.73	106.5
121624	7108699	645294	1465	UTM83-8	WHI11000332	182.4	189	248.1	0.19	1.02	141	35.43	96
121625	7106704	634322	944	UTM83-8	WHI11000332	2	60	5.7	0.1	0.3	16	23.15	67.2
121626	7106619	634378	911	UTM83-8	WHI11000332	0.5	55	6.1	0.1	0.28	18	19.3	62.4
121627	7106548	634441	896	UTM83-8	WHI11000332	1.3	144	6	0.1	0.31	63	25.64	130.4
121628	7106438	634428	886	UTM83-8	WHI11000332	0.1	18	5.4	0.1	0.34	19	16.51	49
121629	7106349	634434	868	UTM83-8	WHI11000332	0.5	27	6.9	0.08	0.34	14	19.44	85.3
121630	7106241	634350	851	UTM83-8	WHI11000332	2.6	99	7.2	0.09	0.41	55	25.96	90.8
121631	7106181	634274	852	UTM83-8	WHI11000332	2.6	32	5.6	0.08	0.31	14	17.09	73.7
121632	7106119	634179	846	UTM83-8	WHI11000332	1.3	33	6.4	0.07	0.31	14	20.3	84.6
121633	7106106	634051	843	UTM83-8	WHI11000332	1.1	51	6.2	0.04	0.35	17	20	68.9
121634	7106127	633939	855	UTM83-8	WHI11000332	2.7	141	4.8	0.09	0.19	52	26.11	76.8
121635	7107951	638123	1401	UTM83-8	WHI11000454	2.8	48	7.1	0.09	0.47	22	22.86	91.1
121636	7108046	638086	1361	UTM83-8	WHI11000454	2.3	62	8.2	0.1	0.7	29	13.71	96
121637	7108118	638009	1305	UTM83-8	WHI11000454	2.7	73	18.8	0.08	1.33	70	19.79	77.1
121638	7108187	637930	1255	UTM83-8	WHI11000454	2.4	141	13.3	0.07	1.31	92	21.3	66.7
121639	7108267	637858	1210	UTM83-8	WHI11000454	3.9	135	7.9	0.07	0.93	75	16.93	51.8
121640	7108335	637788	1174	UTM83-8	WHI11000454	2.5	211	18.7	0.29	3.06	116	37.85	139.4
121641	7108422	637731	1140	UTM83-8	WHI11000454	1.9	445	11.5	0.27	1.07	91	64.83	184.4
121642	7108506	637672	1107	UTM83-8	WHI11000454	0.7	181	7.2	0.08	0.55	45	24.09	79.3
121643	7108653	637581	1060	UTM83-8	WHI11000454	2.2	110	11.1	0.09	0.99	94	23.37	81.7
121644	7107672	640149	1371	UTM83-8	WHI11000454	1.5	52	6.1	0.11	0.28	79	43.93	96.9
121645	7107605	640075	1339	UTM83-8	WHI11000454	0.8	58	5.1	0.12	0.28	44	64.26	129.3
121646	7107504	640065	1299	UTM83-8	WHI11000454	1.8	84	7.6	0.09	0.66	14	20.37	75
121647	7107410	640036	1242	UTM83-8	WHI11000454	0.4	182	3.5	0.12	0.31	23	30.64	128.1
121648	7107318	640054	1200	UTM83-8	WHI11000454	0.4	195	4	0.14	0.25	11	29.33	126
121649	7107217	640066	1168	UTM83-8	WHI11000454	0.4	66	7.1	0.12	0.59	22	22	110.3
121657	7108755	644706	1423	UTM83-8	WHI11000951	22.3	221	85.7	0.17	10.53	1557	31.37	100.6
121658	7108747	644647	1416	UTM83-8	WHI11000951	7.8	73	23.2	0.11	2.78	795	18.73	65.3
121659	7108752	644491	1388	UTM83-8	WHI11000951	6.1	40	25	0.1	1.29	382	43.23	125.5
121660	7108751	644449	1384	UTM83-8	WHI11000951	1.1	51	34.4	0.09	1.35	394	25.71	108.7
121661	7108746	644398	1385	UTM83-8	WHI11000951	3.2	67	4.9	0.1	0.53	46	33.73	129.8
121662	7108749	644353	1375	UTM83-8	WHI11000951	3	69	49.2	0.21	3.99	508	29.28	141.2
121663	7108754	644303	1362	UTM83-8	WHI11000951	2	44	72.4	0.12	1.54	352	28.81	107.5
121664	7108749	644255	1343	UTM83-8	WHI11000951	2	27	118.3	0.21	1.64	786	30.17	95.6
121665	7108753	644202	1313	UTM83-8	WHI11000951	1.8	106	30.1	0.08	0.74	228	28.9	90.7
121666	7108747	644104	1269	UTM83-8	WHI11000951	1	53	15.3	0.06	0.62	135	22.71	94
121667	7108746	644056	1244	UTM83-8	WHI11000951	0.6	98	13	0.08	0.54	138	23.54	86.2
121668	7108744	644001	1224	UTM83-8	WHI11000951	1	23	13.2	0.08	0.48	68	28.56	86.4
121669	7108742	643954	1210	UTM83-8	WHI11000951	0.8	71	9.7	0.09	0.48	89	26.6	81.6
121670	7108751	643902	1200	UTM83-8	WHI11000951	0.1	106	15.9	0.07	0.53	169	25.38	71.3
121671	7108748	643843	1204	UTM83-8	WHI11000951	0.1	37	15.4	0.08	0.74	52	31.01	92.9
121672	7108746	643800	1193	UTM83-8	WHI11000951	0.1	87	21.8	0.06	0.56	17	35.89	94.3
121673	7108752	643747	1186	UTM83-8	WHI11000951	2.4	131	12.8	0.09	0.69	168	31.66	89.6

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
121674	7108737	643646	1144	UTM83-8	WHI11000951	1.3	141	5.9	0.11	0.33	104	51.44	81.1
121675	7108753	643600	1136	UTM83-8	WHI11000951	2.2	127	8.2	0.1	0.62	215	24.25	83.6
121676	7108756	643551	1130	UTM83-8	WHI11000951	3.6	56	10.6	0.07	0.6	111	26.47	85.4
121677	7108757	643404	1077	UTM83-8	WHI11000951	1.8	109	8.7	0.07	0.61	140	28.69	83.5
121678	7108751	643300	1035	UTM83-8	WHI11000951	5.3	69	26.3	0.07	1.39	170	23.33	113.1
121679	7108746	643256	1029	UTM83-8	WHI11000951	3.4	65	33.1	0.09	1.28	161	25.5	122.2
121680	7108740	643201	1034	UTM83-8	WHI11000951	0.7	30	11.2	0.08	0.53	70	24.85	69.5
121681	7109851	643152	1016	UTM83-8	WHI11000951	1.8	77	11.3	0.08	0.69	234	21.4	94.8
121682	7108348	644900	1506	UTM83-8	WHI11000952	1.8	67	46.4	0.11	1.18	321	35.98	116.6
121683	7108351	644851	1511	UTM83-8	WHI11000952	0.8	41	14.9	0.11	0.67	36	32.35	98.2
121684	7108348	644801	1510	UTM83-8	WHI11000952	0.6	94	5.9	0.07	0.3	40	19.14	123.4
121685	7108349	644748	1518	UTM83-8	WHI11000952	0.7	76	9.5	0.11	0.61	41	23.71	95
121686	7108351	644695	1527	UTM83-8	WHI11000952	1	41	14	0.14	0.48	43	31.57	78.5
121687	7108356	644646	1529	UTM83-8	WHI11000952	1.3	26	10.9	0.13	0.61	25	17.21	69.3
121688	7108347	644596	1530	UTM83-8	WHI11000952	2.1	39	22.6	0.13	2.43	43	37.93	88.6
121689	7108347	644544	1528	UTM83-8	WHI11000952	0.8	21	13.7	0.18	0.82	48	20.43	68.2
121690	7108351	644498	1527	UTM83-8	WHI11000952	17.8	129	30.4	0.11	2.75	91	27.69	90.8
121691	7108344	644440	1493	UTM83-8	WHI11000952	11.3	489	44.9	0.21	4.01	423	30.09	148.7
121692	7108350	644351	1432	UTM83-8	WHI11000952	3.1	148	10.9	0.11	0.62	83	17.33	94.3
121693	7108351	644305	1406	UTM83-8	WHI11000952	3.1	101	11.9	0.13	0.5	87	22.29	107.5
121694	7108351	644253	1365	UTM83-8	WHI11000952	7.1	153	34.4	0.28	0.8	208	29.59	124.1
121695	7108349	644205	1338	UTM83-8	WHI11000952	3.8	70	25	0.18	0.73	374	24.61	117.3
121696	7108350	644147	1312	UTM83-8	WHI11000952	5.5	125	96.1	0.25	0.98	515	48.12	115.4
121697	7108347	644107	1291	UTM83-8	WHI11000952	4.4	74	50	0.19	0.87	192	44.15	121.5
121698	7108353	644053	1263	UTM83-8	WHI11000952	6	158	112.2	0.14	4.4	279	20.16	87.7
121699	7108350	643948	1229	UTM83-8	WHI11000952	3.1	63	21.3	0.13	0.49	161	27.19	112.6
121700	7108341	643851	1218	UTM83-8	WHI11000952	3.6	58	29.7	0.11	0.58	159	19.86	113.9
121701	7107698	632720	1462	UTM83-8	WHI11000332	1.3	108	48.1	0.1	1.86	253	32.97	34.2
121702	7107606	632592	1389	UTM83-8	WHI11000332	0.1	60	17	0.06	0.77	37	12.6	45.5
121703	7107603	632476	1353	UTM83-8	WHI11000332	2.1	159	9.1	0.05	0.61	158	19.93	42.7
121704	7107608	632374	1305	UTM83-8	WHI11000332	0.8	43	13.7	0.16	0.72	84	27.22	84.4
121705	7107627	632298	1266	UTM83-8	WHI11000332	0.3	176	31.4	0.11	1.45	415	31.61	224
121706	7107701	632224	1207	UTM83-8	WHI11000332	0.1	190	46.2	0.12	1.97	422	36.81	104
121707	7107675	632108	1172	UTM83-8	WHI11000332	0.1	97	16.3	0.1	1.15	293	18.56	31.6
121708	7107666	632015	1134	UTM83-8	WHI11000332	0.8	22	7.9	0.11	0.49	22	23.07	106.8
121709	7107613	631932	1090	UTM83-8	WHI11000332	0.8	115	24.1	0.12	1.21	245	16.61	66.3
121710	7107614	631836	1051	UTM83-8	WHI11000332	0.6	38	6.6	0.12	0.44	47	15.88	50.2
121711	7107576	631769	1030	UTM83-8	WHI11000332	1	33	11.5	0.1	0.56	61	21.3	55.8
121712	7107600	631692	1003	UTM83-8	WHI11000332	0.9	105	10.9	0.09	0.58	130	21.68	59.4
121713	7107512	632504	1310	UTM83-8	WHI11000332	0.6	87	22.7	0.19	1.18	73	30.24	130.2
121714	7107348	632449	1234	UTM83-8	WHI11000332	0.1	14	3.3	0.16	0.66	16	19.74	38.2
121715	7107271	632388	1223	UTM83-8	WHI11000332	0.1	104	5.2	0.1	0.24	19	14	88.8
121716	7107211	632304	1188	UTM83-8	WHI11000332	0.1	103	5.5	0.09	0.31	21	20.62	82.6
121717	7107159	632227	1166	UTM83-8	WHI11000332	0.5	61	4.6	0.11	0.2	24	20.65	64.7
121718	7107107	632125	1131	UTM83-8	WHI11000332	0.3	17	7.8	0.1	0.28	35	23.59	54.9
121719	7107040	632052	1090	UTM83-8	WHI11000332	0.6	149	1.2	0.09	0.1	38	8.87	65
121720	7107044	631937	1047	UTM83-8	WHI11000332	1	68	6.2	0.14	0.47	20	19.38	82.1
121721	7106999	631842	999	UTM83-8	WHI11000332	0.1	67	6.8	0.1	0.24	11	18.84	49.3
121722	7106980	631703	954	UTM83-8	WHI11000332	0.1	21	6.7	0.09	0.31	24	17.17	74.5
121723	7106956	631615	929	UTM83-8	WHI11000332	0.1	74	7.1	0.1	0.22	34	25.92	102.5
121724	7110257	356401	1021	UTM83-9	WHI11000332	0.3	122	5.8	0.08	0.36	29	22.36	66.3
121725	7110165	356357	1022	UTM83-9	WHI11000332	0.8	69	3.3	0.11	0.25	16	15.86	70.2
121726	7110090	356285	1024	UTM83-9	WHI11000332	0.5	119	4.5	0.12	0.26	35	27.47	71.8
121727	7109993	356213	1020	UTM83-9	WHI11000332	0.1	32	3.3	0.05	0.13	11	19.09	71.9
121728	7109925	356121	1022	UTM83-9	WHI11000332	0.1	75	3.2	0.1	0.2	25	14.48	66.1
121729	7109845	356063	1015	UTM83-9	WHI11000332	2	84	4	0.04	0.17	13	15.22	61.8
121730	7109762	356003	1015	UTM83-9	WHI11000332	1.3	91	8.9	0.04	0.25	58	19.52	112.6
121731	7109682	355955	1014	UTM83-9	WHI11000332	1.4	232	4.2	0.1	0.3	22	27.63	76.3
121732	7109597	355881	1021	UTM83-9	WHI11000332	1	177	6.2	0.09	0.41	25	18.49	96
121733	7109498	355821	1016	UTM83-9	WHI11000332	0.9	57	4.4	0.06	0.26	2	18.27	61.8
121738	7109106	355470	1019	UTM83-9	WHI11000332	0.3	89	4	0.05	0.25	32	23.09	89
121739	7109028	355406	1013	UTM83-9	WHI11000332	0.1	54	4	0.09	0.39	33	25.85	73.7

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
121740	7108931	355346	1012	UTM83-9	WHI11000332	2.5	79	53	0.1	1.56	210	26.2	112.4
121741	7108830	355331	992	UTM83-9	WHI11000332	3.9	48	72.8	0.11	2.09	284	29.02	133.9
121742	7108752	355257	988	UTM83-9	WHI11000332	0.5	108	8.7	0.07	0.49	106	22.74	108.5
121743	7108663	355194	979	UTM83-9	WHI11000332	0.8	103	12.2	0.08	1.06	117	23.44	87.6
121744	7108616	355104	984	UTM83-9	WHI11000332	2.7	36	181.8	0.16	13.79	1028	30.49	223.6
121745	7108587	354979	999	UTM83-9	WHI11000332	3.2	57	48	0.25	2.38	238	20.08	440.5
121746	7110383	645989	1511	UTM83-8	WHI11000332	0.3	300	9.4	0.2	0.41	68	42.93	111
121747	7110382	645898	1519	UTM83-8	WHI11000332	0.1	171	5.6	0.15	0.3	61	36.17	87
121748	7110342	645761	1526	UTM83-8	WHI11000332	1.2	262	7.2	0.12	0.35	54	32.4	109.3
121749	7110240	645759	1562	UTM83-8	WHI11000332	1	264	7.2	0.14	0.35	68	35.53	114.9
121750	7110175	645660	1560	UTM83-8	WHI11000332	1.4	85	7.3	0.15	0.53	20	38.33	98
121751	7110113	645519	1548	UTM83-8	WHI11000332	0.8	132	10	0.11	0.36	51	34.41	96.5
121752	7110112	645421	1527	UTM83-8	WHI11000332	0.6	263	10	0.08	0.44	52	24.99	93
121753	7110119	645333	1505	UTM83-8	WHI11000332	0.9	43	10	0.16	0.59	17	18.87	72.5
121754	7110118	645221	1492	UTM83-8	WHI11000332	0.9	84	8.2	0.12	0.41	37	24.25	77.4
121755	7110138	645120	1452	UTM83-8	WHI11000332	1.4	81	12.1	0.11	0.49	34	21.19	73.8
121756	7110168	645049	1418	UTM83-8	WHI11000332	1.1	76	13.8	0.1	0.61	54	29.72	91.4
121757	7110204	644932	1432	UTM83-8	WHI11000332	0.9	45	11.7	0.13	0.72	39	22.75	74.9
121758	7110200	644808	1432	UTM83-8	WHI11000332	1.2	134	44.5	0.09	0.57	1464	31.54	84.9
121759	7110208	644642	1388	UTM83-8	WHI11000332	2.1	139	45.4	0.11	0.84	1086	20.5	128.9
121760	7110250	644527	1398	UTM83-8	WHI11000332	3.1	240	22.4	0.07	0.53	653	22.88	82.1
121761	7110296	644414	1377	UTM83-8	WHI11000332	3.9	203	17.5	0.09	0.54	312	15.5	98.5
121762	7110247	644336	1395	UTM83-8	WHI11000332	1	87	9.8	0.1	0.42	126	15.33	91.6
121763	7110260	644229	1410	UTM83-8	WHI11000332	0.9	107	8.9	0.11	0.53	75	13.85	74.6
121764	7110256	644121	1419	UTM83-8	WHI11000332	1	104	14.5	0.1	0.46	413	21.46	59.1
121765	7110286	644031	1360	UTM83-8	WHI11000332	0.6	51	14.5	0.06	0.39	73	24.14	92.3
121766	7110288	643913	1288	UTM83-8	WHI11000332	0.1	63	15.5	0.08	0.5	37	20.54	62.5
121767	7109900	643949	1284	UTM83-8	WHI11001139	0.9	63	10.6	0.12	0.34	57	23.25	79
121768	7109904	643908	1266	UTM83-8	WHI11001139	0.6	25	12	0.07	0.48	34	30.19	94.5
121769	7109904	643859	1246	UTM83-8	WHI11001139	0.8	58	13.6	0.09	0.46	29	39.57	111.3
121770	7109902	643805	1207	UTM83-8	WHI11001139	2.1	79	6	0.08	0.38	33	19.5	56.2
121771	7109895	643596	1084	UTM83-8	WHI11001139	1.3	89	1.8	0.04	0.2	30	7.12	36.4
121772	7109900	643549		UTM83-8	WHI11001139	0.8	121	10.4	0.09	0.49	80	29.84	92.3
121773	7109952	643951	1296	UTM83-8	WHI11001139	0.1	32	12.3	0.06	0.46	16	24.92	75.5
121774	7109950	643907	1272	UTM83-8	WHI11001139	3.2	106	9.7	0.07	0.51	41	26.67	69.2
121775	7109951	643853	1248	UTM83-8	WHI11001139	0.9	48	9.3	0.07	0.38	33	24.9	73.9
121776	7109952	643804	1208	UTM83-8	WHI11001139	1.7	170	10.2	0.09	0.42	89	31.73	78.7
121777	7109955	643760	1171	UTM83-8	WHI11001139	1.6	124	8.2	0.1	0.38	62	26.97	85.5
121778	7109951	643602	1081	UTM83-8	WHI11001139	1.4	180	7	0.09	0.39	89	22.26	90.5
121779	7109942	643557	1059	UTM83-8	WHI11001139	1	83	6	0.07	0.29	68	22.96	73.4
121780	7109856	643956	1254	UTM83-8	WHI11001139	2.1	185	9.9	0.08	0.31	169	24.29	62.5
121781	7109851	643903	1238	UTM83-8	WHI11001139	1.8	100	11.9	0.07	0.38	191	30.31	82.3
121782	7109850	643860	1211	UTM83-8	WHI11001139	1.5	103	9	0.12	0.41	51	30.45	81.7
121783	7109852	643800	1184	UTM83-8	WHI11001139	0.8	328	9.6	0.09	0.5	44	25.57	58.3
121784	7109849	643701	1135	UTM83-8	WHI11001139	2.6	221	7.6	0.1	0.41	66	21.69	95.5
121785	7109852	643611	1076	UTM83-8	WHI11001139	1.1	190	7	0.09	0.32	69	22.83	69.7
121786	7109500	644352	1365	UTM83-8	WHI11001139	0.6	128	20.5	0.12	0.86	407	21.35	95.5
121787	7109503	644307	1350	UTM83-8	WHI11001139	2.1	166	22.5	0.1	0.9	506	33.62	106.7
121788	7109504	644250	1325	UTM83-8	WHI11001139	0.5	85	22.3	0.1	0.58	129	24.11	114.9
121789	7109500	644201	1293	UTM83-8	WHI11001139	0.6	120	13.6	0.09	0.54	101	25.65	83.7
121790	7109498	644152	1267	UTM83-8	WHI11001139	2.1	140	12.1	0.09	0.48	299	19.11	77.1
121791	7109506	644109	1254	UTM83-8	WHI11001139	2.9	125	11.7	0.11	0.48	328	21.1	96.8
121792	7109499	644048	1229	UTM83-8	WHI11001139	1.7	174	16.5	0.07	0.56	364	24.77	91.8
121793	7109497	643949	1198	UTM83-8	WHI11001139	2.4	285	13.4	0.09	0.44	249	30.15	95
121794	7109498	643902	1179	UTM83-8	WHI11001139	3.6	188	7	0.06	0.43	298	13.82	58.7
121795	7109496	643851	1159	UTM83-8	WHI11001139	1.6	141	9.8	0.06	0.46	270	15.7	56
121796	7109499	643798	1139	UTM83-8	WHI11001139	1.1	63	31.4	0.13	0.95	75	70.11	81.6
121797	7109500	643753	1115	UTM83-8	WHI11001139	0.1	53	6.3	0.01	0.32	70	15.4	45.9
121798	7109496	643649	1082	UTM83-8	WHI11001139	1.6	96	8.7	0.07	0.31	73	24.75	84.4
121799	7109494	643606	1051	UTM83-8	WHI11001139	2.3	111	10.3	0.06	0.41	102	22.98	82.1
121800	7109456	643953	1202	UTM83-8	WHI11001139	1.1	35	17.8	0.11	0.64	138	22.29	69.4
121885	7108393	643305	1126	UTM83-8	WHI11001025	4	137	32.4	0.1	0.88	189	19.88	65.5

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
121886	7108406	643249	1133	UTM83-8	WHI11001025	9.3	178	16.1	0.1	0.79	233	19.75	76.8
121887	7108396	643211	1113	UTM83-8	WHI11001025	2.3	61	14.6	0.1	0.53	79	14.81	67.6
121888	7108396	643149	1094	UTM83-8	WHI11001025	1.6	40	15	0.1	0.47	46	16.24	59.5
121889	7108397	643057	1072	UTM83-8	WHI11001025	7.1	181	25.2	0.1	1.24	341	14.6	61.1
121890	7108395	643004	1055	UTM83-8	WHI11001025	2	52	20.4	0.07	0.57	154	27.29	69.5
121891	7108396	642952	1016	UTM83-8	WHI11001025	2.9	150	26.5	0.06	1.26	568	16.52	49.3
121892	7107850	643898	1519	UTM83-8	WHI11001025	2.4	123	13.6	0.13	0.64	100	17.46	72.5
121893	7107851	643952	1514	UTM83-8	WHI11001025	2.5	171	12.6	0.12	0.5	110	17.83	69.7
121894	7107852	644002	1506	UTM83-8	WHI11001025	1.4	67	21.2	0.19	1.05	31	22.06	74
121895	7107848	644043	1493	UTM83-8	WHI11001025	2.7	203	20.6	0.11	1.11	135	16.56	94.4
121896	7107851	644099	1475	UTM83-8	WHI11001025	3	99	50.1	0.15	1.42	127	21.66	80.1
121897	7107856	644149	1450	UTM83-8	WHI11001025	0.6	53	44.4	0.14	1.04	110	16.14	68.4
121898	7107856	644198	1429	UTM83-8	WHI11001025	4.3	218	337.9	0.22	3.74	1561	24.62	73.5
121899	7107848	644249	1416	UTM83-8	WHI11001025	2.8	161	186.9	0.19	3.1	626	15.19	134.3
121900	7107845	644297	1415	UTM83-8	WHI11001025	0.8	75	25.9	0.09	0.64	53	18.26	76.8
121901	7110456	643627	1242	UTM83-8	WHI11000332	0.1	128	9	0.09	0.38	32	21.59	87.2
121902	7110442	643532	1202	UTM83-8	WHI11000332	0.1	121	8.7	0.06	0.39	13	18.46	63.5
121903	7110432	643433	1140	UTM83-8	WHI11000332	0.1	258	9	0.1	0.51	15	29.64	71.3
121904	7110408	643331	1088	UTM83-8	WHI11000332	0.1	131	9.2	0.09	0.36	45	24.94	71.4
121905	7110417	643224	1040	UTM83-8	WHI11000332	0.5	155	10.4	0.07	0.47	27	28.12	88.9
121906	7110405	643127	1012	UTM83-8	WHI11000332	0.1	150	8.7	0.13	0.35	20	21.99	114.7
121907	7107150	637570	1367	UTM83-8	WHI11000454	0.1	45	5.9	0.11	0.55	33	22.09	95.1
121908	7107086	637645	1335	UTM83-8	WHI11000454	1.5	51	6.2	0.16	0.27	35	42.98	105.7
121909	7107026	637727	1284	UTM83-8	WHI11000454	0.7	126	6.5	0.15	0.38	44	13.56	146.9
121910	7106967	637824	1243	UTM83-8	WHI11000454	0.9	90	2.9	0.11	0.23	29	15.57	121.3
121911	7106916	637901	1210	UTM83-8	WHI11000454	0.6	151	5.8	0.12	0.34	29	23.54	84
121912	7106866	637988	1178	UTM83-8	WHI11000454	1.2	268	4.8	0.12	0.33	38	15.79	70.3
121913	7106815	638073	1179	UTM83-8	WHI11000454	0.6	64	7.7	0.12	0.42	23	19.89	78.9
121914	7106739	638002	1176	UTM83-8	WHI11000454	0.8	64	6.4	0.15	0.23	19	27.52	71.5
121915	7106697	637910	1167	UTM83-8	WHI11000454	0.5	111	8.7	0.1	0.31	37	20.95	92.1
121916	7106741	637806	1166	UTM83-8	WHI11000454	0.1	83	3.1	0.14	0.15	29	19.89	123.3
121917	7106770	637716	1164	UTM83-8	WHI11000454	0.4	228	3.5	0.11	0.28	30	19.94	77.9
121918	7106714	637632	1155	UTM83-8	WHI11000454	0.9	142	4.4	0.16	0.23	33	28.39	112.5
121919	7106666	637546	1160	UTM83-8	WHI11000454	0.3	115	4	0.15	0.21	15	14.37	93.8
121951	7109932	353951		UTM83-9	WHI11000918	1.4	233	8.7	0.33	0.31	309	34.76	117.2
121952	7109936	353901		UTM83-9	WHI11000918	0.8	286	8.8	0.28	0.27	89	50.03	129.1
121953	7109941	353852		UTM83-9	WHI11000918	0.5	236	8.6	0.17	0.29	244	46.9	116
121954	7109946	353802		UTM83-9	WHI11000918	8.6	45	36.2	0.07	2.17	517	23.31	220.3
121955	7109950	353752		UTM83-9	WHI11000918	6.3	48	45.9	0.06	1.66	481	43.43	153.3
121956	7109950	646149		UTM83-8	WHI11000918	5.1	123	52.3	0.17	2.84	628	46.11	230.9
121957	7109950	645999		UTM83-8	WHI11000918	0	0	0	0	0	0	0	0
121958	7109950	645949		UTM83-8	WHI11000918	0.7	295	11.3	0.21	0.43	144	38.94	136.7
121959	7109950	645899		UTM83-8	WHI11000918	1.3	245	31.5	0.2	1.69	422	58.5	191.5
121960	7109950	645849		UTM83-8	WHI11000918	0.3	177	6.4	0.13	0.27	124	37.4	102.5
121961	7109950	645799		UTM83-8	WHI11000918	0.7	250	9.8	0.22	0.36	104	61.2	140.6
121962	7109950	645749		UTM83-8	WHI11000918	0.9	535	5.3	0.16	0.32	104	55.18	75.1
121963	7109950	645699		UTM83-8	WHI11000918	3.5	181	6.8	0.15	0.37	32	48.76	104.5
121964	7109950	645649		UTM83-8	WHI11000918	1.4	313	14.8	0.11	0.5	77	39.3	107
121965	7109950	645599		UTM83-8	WHI11000918	2.7	278	12.1	0.14	0.54	80	95	100.2
121966	7109950	645549		UTM83-8	WHI11000918	1.4	209	8.5	0.1	0.41	52	46.06	91.4
121967	7109950	645499		UTM83-8	WHI11000918	1	108	9.8	0.14	0.6	51	56.48	91.5
121968	7109950	645449		UTM83-8	WHI11000918	1.2	199	6.7	0.1	0.43	92	40.48	90.5
121969	7109950	645399		UTM83-8	WHI11000918	0.9	202	9	0.09	0.34	84	29.25	101
121970	7109950	645349		UTM83-8	WHI11000918	1	64	8.6	0.11	0.39	37	32.77	88.2
121971	7109950	645299		UTM83-8	WHI11000918	1.4	225	7.6	0.13	0.3	104	20.69	81.6
121972	7109950	645249		UTM83-8	WHI11000918	0.8	37	9.9	0.1	0.46	28	25.18	82.9
121973	7109950	645199		UTM83-8	WHI11000918	1	30	10.6	0.09	0.42	40	19.18	70.2
121974	7109950	645149		UTM83-8	WHI11000918	0.5	13	9.1	0.12	0.34	32	25.85	85.2
121975	7109950	645099		UTM83-8	WHI11000918	0.4	28	9.8	0.1	0.34	36	31.02	87.4
121976	7109950	645049		UTM83-8	WHI11000918	0.4	26	11.2	0.1	0.4	43	25.93	79.5
121977	7109950	644999		UTM83-8	WHI11000918	0.9	170	12.9	0.1	0.34	104	28.99	92.4
121978	7109950	644949		UTM83-8	WHI11000918	0.5	75	9.3	0.06	0.31	112	21.79	71.7

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
121979	7109950	644899		UTM83-8	WHI11000918	0.6	45	11.7	0.08	0.35	86	30.82	83.2
121980	7109950	644849		UTM83-8	WHI11000918	8.1	631	38.5	0.24	1.63	1559	32.38	92.8
121981	7109950	644799		UTM83-8	WHI11000918	0.1	45	13.9	0.1	0.36	72	26.27	70.2
121982	7109950	644749		UTM83-8	WHI11000918	3	93	23.9	0.1	0.73	340	30.05	103.4
121983	7109950	644699		UTM83-8	WHI11000918	0.2	28	13.9	0.1	0.42	106	19.85	76.1
121984	7109950	644649		UTM83-8	WHI11000918	2	105	16.9	0.09	0.5	328	19.18	102.3
121985	7109950	644599		UTM83-8	WHI11000918	2.6	116	24.2	0.11	0.64	564	20.77	85
121986	7109950	644549		UTM83-8	WHI11000918	1.7	69	17.8	0.11	0.55	120	35.16	105.5
121987	7109950	644499		UTM83-8	WHI11000918	0.1	116	4.2	0.1	0.44	42	15.91	55.5
121988	7109950	644449		UTM83-8	WHI11000918	1.7	118	15	0.12	0.62	193	47.74	111.9
121989	7109950	644349		UTM83-8	WHI11000918	2.7	129	16	0.09	0.56	266	35.83	107.5
121990	7109950	644299		UTM83-8	WHI11000918	1.5	79	14.8	0.06	0.42	793	21.21	70.5
121991	7109950	644199		UTM83-8	WHI11000918	2.1	178	14.1	0.08	0.82	422	21.87	76.1
121992	7109950	644149		UTM83-8	WHI11000918	1.5	126	8.4	0.06	0.56	257	15.31	42.9
121993	7109700	646149		UTM83-8	WHI11000918	0.7	224	9.4	0.2	0.45	416	45.4	134.7
121994	7109700	646099		UTM83-8	WHI11000918	1.4	144	11.9	0.08	0.97	238	49.39	251.2
121995	7109700	646049		UTM83-8	WHI11000918	2.1	182	30.1	0.1	2.51	353	33.85	196.7
121996	7109700	645999		UTM83-8	WHI11000918	0.1	281	9.6	0.15	0.59	311	35.94	131.2
121997	7109700	645949		UTM83-8	WHI11000918	0.7	197	8.5	0.2	0.42	112	52.61	98
121998	7109700	645899		UTM83-8	WHI11000918	0.9	124	5.8	0.12	0.39	83	34	109.2
121999	7109700	645849		UTM83-8	WHI11000918	0.7	319	6.9	0.18	0.65	144	53.23	161
122000	7109700	645799		UTM83-8	WHI11000918	0.3	165	7.4	0.16	0.31	53	42.89	107.6
612001	7109199	644598	1223	UTM83-8	WHI11000950	3	112	15.6	0.09	0.78	231	17.18	89.4
612002	7109196	644556	1211	UTM83-8	WHI11000950	3.5	162	14.4	0.09	0.58	210	28.29	82
612003	7109203	644497	1251	UTM83-8	WHI11000950	5.6	111	19.3	0.12	0.77	245	18.01	79.8
612004	7109200	644445	1202	UTM83-8	WHI11000950	1.4	69	17.4	0.12	0.57	114	28.73	94.1
612005	7109199	644398	1199	UTM83-8	WHI11000950	1.6	114	11.7	0.07	0.43	98	22.37	84
612006	7109202	644352	1195	UTM83-8	WHI11000950	1.6	88	15.4	0.08	0.47	170	26.84	91.5
612007	7109198	644305	1188	UTM83-8	WHI11000950	4.9	97	16.4	0.09	0.66	285	19.95	78.8
612008	7109202	644252	1170	UTM83-8	WHI11000950	1.7	141	11.9	0.07	0.59	113	26.59	84.3
612009	7108799	645848	1520	UTM83-8	WHI11000950	1.4	78	12.9	0.06	0.63	67	23.27	109.7
612010	7108798	645800	1491	UTM83-8	WHI11000950	0.6	39	6.5	0.07	0.37	43	25.83	70.6
612011	7108800	645747	1463	UTM83-8	WHI11000950	1.5	36	16	0.08	0.54	101	24.21	108.8
612012	7108802	645697	1454	UTM83-8	WHI11000950	1.5	200	13.1	0.09	0.52	48	35.03	97.1
612013	7108800	645647	1448	UTM83-8	WHI11000950	0.9	112	15.4	0.1	0.54	29	33.5	90.3
612014	7108803	645501	1468	UTM83-8	WHI11000950	0.8	28	4.3	0.08	0.23	17	15.59	45.3
612016	7108796	645397	1483	UTM83-8	WHI11000950	0.4	220	5.7	0.11	0.37	40	18.46	79.7
612017	7108802	645348	1502	UTM83-8	WHI11000950	0.2	83	5.2	0.13	0.25	26	22.91	78.2
612018	7108801	645300	1490	UTM83-8	WHI11000950	1.5	58	8.1	0.11	0.36	45	25.88	86.8
612019	7108801	645249	1478	UTM83-8	WHI11000950	1.9	55	11.7	0.07	0.37	37	18.15	82.6
612020	7108800	645202	1457	UTM83-8	WHI11000950	1.5	112	6.5	0.12	0.42	30	15.01	62.8
612021	7108796	645148	1447	UTM83-8	WHI11000950	2.2	73	9.2	0.1	0.5	58	14.6	89.2
612022	7108800	644999	1461	UTM83-8	WHI11000950	3	49	20.4	0.09	0.59	33	31.67	105.4
612023	7108801	644949	1438	UTM83-8	WHI11000950	0.8	99	17.5	0.1	0.74	41	36.06	106.6
612024	7108800	644897	1409	UTM83-8	WHI11000950	1.5	35	19.5	0.13	1.19	41	33.3	104
612025	7108800	644849	1382	UTM83-8	WHI11000950	0.9	43	11.8	0.11	0.59	32	14.53	73
612026	7108800	644800	1378	UTM83-8	WHI11000950	12.2	297	29.3	0.14	4.27	639	21.36	101.3
612027	7108799	644748	1395	UTM83-8	WHI11000950	12.1	232	38	0.16	3.63	584	15.36	73.6
612028	7108800	644698	1402	UTM83-8	WHI11000950	11.2	263	21.9	0.15	3.6	1106	14.07	58.9
612029	7108799	644650	1386	UTM83-8	WHI11000950	13.4	183	25.9	0.11	3.1	547	20.08	72
612030	7108800	644496	1348	UTM83-8	WHI11000950	5.1	77	16.4	0.12	0.91	262	14.19	85.1
612031	7108801	644443	1350	UTM83-8	WHI11000950	5.7	199	45.3	0.23	4.88	769	18.46	86.3
612032	7108798	644400	1354	UTM83-8	WHI11000950	0.1	18	15	0.11	0.59	136	13.02	65.5
612033	7108797	644347	1354	UTM83-8	WHI11000950	0.5	10	15.4	0.14	0.48	55	12.14	46.1
612034	7108800	644299	1342	UTM83-8	WHI11000950	1.9	17	19.5	0.1	0.58	140	19.39	71.3
612035	7108799	644250	1322	UTM83-8	WHI11000950	0.7	21	37.8	0.16	0.95	195	16.73	62.4
612036	7108804	644198	1297	UTM83-8	WHI11000950	2.4	91	34.7	0.14	0.71	197	17.06	88.8
612037	7108799	644152	1282	UTM83-8	WHI11000950	3.1	60	18.7	0.1	0.53	168	20.58	98.3
612038	7108797	644097	1262	UTM83-8	WHI11000950	1.2	75	12.1	0.09	0.51	150	15.01	83.3
612039	7108797	644050	1250	UTM83-8	WHI11000950	2	130	16.9	0.13	0.64	193	14.31	62.2
612040	7108804	644003	1238	UTM83-8	WHI11000950	0.5	31	16.3	0.09	0.55	60	16.85	96.3
612041	7108803	643951	1227	UTM83-8	WHI11000950	2.1	72	15.9	0.11	0.51	243	18.65	86.5

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
612042	7108799	643850	1223	UTM83-8	WHI11000950	0.7	30	14.5	0.09	0.34	111	16.84	82
612043	7108804	643802	1227	UTM83-8	WHI11000950	1.8	38	8.8	0.1	0.96	72	21.46	93.1
612044	7108801	643752	1225	UTM83-8	WHI11000950	0.9	47	12	0.08	0.6	111	16.61	71.2
612045	7108801	643552	1160	UTM83-8	WHI11000950	5.1	121	9.6	0.09	0.87	191	21.48	79.1
612046	7108449	645397	1305	UTM83-8	WHI11000951	1.2	147	10.3	0.09	0.6	85	23.78	103.4
612047	7108453	645334	1332	UTM83-8	WHI11000951	0.5	82	13.2	0.08	0.62	62	25.46	126.7
612048	7108448	645299	1357	UTM83-8	WHI11000951	0.1	55	14.1	0.09	0.72	39	27.72	118.5
612049	7108453	645250	1388	UTM83-8	WHI11000951	1.1	90	35.6	0.09	2.23	191	36.19	118.5
612050	7108448	645195	1423	UTM83-8	WHI11000951	0.1	108	23.6	0.09	1	60	30.31	144.5
612051	7109100	644799		UTM83-8	WHI11000949	4	65	23.7	0.11	2.63	373	17.09	58.4
612052	7109100	644749		UTM83-8	WHI11000949	5.2	170	21.6	0.13	1.16	464	21.73	98.8
612053	7109100	644699		UTM83-8	WHI11000949	1.9	78	17.5	0.12	0.82	278	23.7	95.2
612054	7109100	644649		UTM83-8	WHI11000949	5.1	137	27.4	0.12	1.1	374	21.25	109.8
612055	7109100	644599		UTM83-8	WHI11000949	4	116	28.5	0.13	1.34	396	21.18	111.3
612056	7109100	644549		UTM83-8	WHI11000949	3.4	99	12.8	0.11	0.53	167	19.76	113.7
612057	7109100	644499		UTM83-8	WHI11000949	6.1	181	14.8	0.16	0.39	181	19.19	115.1
612058	7109100	644449		UTM83-8	WHI11000949	3.3	124	14.1	0.12	0.5	187	18.66	102.5
612059	7109100	644399		UTM83-8	WHI11000949	6.2	252	16.8	0.25	0.7	246	24.86	91.8
612060	7109100	644349		UTM83-8	WHI11000949	0	0	0	0	0	0	0	0
612061	7109100	644099		UTM83-8	WHI11000949	3.2	84	7	0.08	0.43	165	16.31	85.5
612062	7109100	644049		UTM83-8	WHI11000949	3.2	103	9.3	0.1	0.57	228	17.85	81.4
612063	7109100	643999		UTM83-8	WHI11000949	4.9	150	10.8	0.09	0.56	295	20.15	97.1
612064	7109186	353874	1537	UTM83-9	WHI11000950	0.4	203	20.5	0.23	0.77	97	129.19	92.5
612065	7109191	353832	1568	UTM83-9	WHI11000950	0.1	162	18.3	0.1	0.55	43	41.41	87.9
612066	7109193	353782	1606	UTM83-9	WHI11000950	0.4	119	26.1	0.15	1.08	72	68.33	88.7
612067	7109200	353730	1616	UTM83-9	WHI11000950	0.6	243	10.5	0.08	0.55	48	28.32	89
612068	7109200	646251	1620	UTM83-8	WHI11000950	1.1	300	15.5	0.12	0.6	66	61.57	122.2
612069	7109200	646201	1631	UTM83-8	WHI11000950	0.8	83	16.7	0.1	0.47	34	23.33	83.7
612070	7109203	646149	1660	UTM83-8	WHI11000950	1.5	54	12.5	0.05	0.73	29	33.89	88.2
612071	7109200	646099	1689	UTM83-8	WHI11000950	1.5	74	11.1	0.12	0.66	35	19.08	54.2
612072	7109199	646049	1697	UTM83-8	WHI11000950	3.8	23	24.6	0.06	0.64	20	20.23	62
612073	7109200	646000	1688	UTM83-8	WHI11000950	5	50	13.8	0.11	0.69	20	19.39	60.5
612074	7109199	645948	1679	UTM83-8	WHI11000950	2.4	37	10.5	0.11	0.54	35	19.65	65.5
612075	7109202	645898	1674	UTM83-8	WHI11000950	2.5	95	13.4	0.07	0.74	44	20.22	72
612076	7109201	645847	1665	UTM83-8	WHI11000950	2.4	94	11.1	0.1	0.63	51	19.85	71.3
612077	7109200	645797	1652	UTM83-8	WHI11000950	2.5	23	13.7	0.07	0.68	25	22.39	80
612078	7109202	645752	1643	UTM83-8	WHI11000950	1.4	40	9.8	0.14	0.62	33	17.16	68.4
612079	7109200	645699	1629	UTM83-8	WHI11000950	2.7	191	20.1	0.09	0.76	128	31.91	95
612080	7109201	645650	1601	UTM83-8	WHI11000950	1.8	114	13.6	0.06	0.4	69	25.26	94.9
612081	7109200	645598	1581	UTM83-8	WHI11000950	10.2	219	18.9	0.13	1.14	249	17.12	83.6
612082	7109202	645547	1582	UTM83-8	WHI11000950	6.4	149	43.3	0.1	2.27	235	21.85	105.1
612083	7109202	645498	1584	UTM83-8	WHI11000950	5.1	138	20.3	0.09	0.97	112	20.31	99.2
612084	7109199	645448	1590	UTM83-8	WHI11000950	3.8	179	10.7	0.11	0.65	128	17.94	97.6
612085	7109200	645399	1595	UTM83-8	WHI11000950	2.1	180	9.3	0.1	0.56	80	17.5	96.2
612086	7109199	645349	1575	UTM83-8	WHI11000950	3.9	151	16.9	0.2	1.1	120	19.88	120.7
612087	7109202	645300	1540	UTM83-8	WHI11000950	4.6	124	16.4	0.12	1.23	91	22.48	109.7
612088	7109198	645249	1496	UTM83-8	WHI11000950	3.9	126	16	0.11	2.6	99	19.5	106.3
612089	7109199	645202	1458	UTM83-8	WHI11000950	5.3	123	22.7	0.16	2.34	417	21.12	90.4
612090	7109200	645148	1428	UTM83-8	WHI11000950	1.9	69	14.2	0.11	0.92	99	23.45	82.2
612091	7109200	645099	1396	UTM83-8	WHI11000950	1.6	70	17.1	0.14	1.39	379	25.58	87.4
612092	7109204	645048	1364	UTM83-8	WHI11000950	7.7	308	30.8	0.17	3.91	956	25.99	117
612093	7109206	644996	1347	UTM83-8	WHI11000950	1.6	45	22.2	0.11	0.74	177	22.93	74.4
612094	7109198	644953	1326	UTM83-8	WHI11000950	1.9	106	29	0.09	1.66	651	22.29	77.6
612095	7109203	644901	1314	UTM83-8	WHI11000950	1.8	51	31.3	0.11	1.01	445	18.6	82.5
612096	7109204	644850	1290	UTM83-8	WHI11000950	2.5	117	16	0.09	0.66	268	25.19	93.4
612097	7109199	644803	1267	UTM83-8	WHI11000950	4.1	102	21.9	0.1	0.76	284	17.93	94.2
612098	7109202	644751	1252	UTM83-8	WHI11000950	2.9	123	14.3	0.15	0.87	105	20.68	103
612099	7109199	644700	1240	UTM83-8	WHI11000950	1.8	133	13	0.08	0.54	108	25.45	87.9
612100	7109199	644646	1240	UTM83-8	WHI11000950	2.8	55	12.2	0.08	0.53	91	27.27	92.8
612101	7109250	644799		UTM83-8	WHI11000949	2.9	97	19.8	0.06	0.84	248	22.73	78
612102	7109250	644749		UTM83-8	WHI11000949	2.9	106	14.5	0.08	0.59	426	20.82	87.1
612103	7109250	644699		UTM83-8	WHI11000949	0.1	91	14.5	0.1	0.65	70	40.98	75.6

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
612104	7109250	644649		UTM83-8	WHI11000949	0.6	35	12.4	0.06	0.46	58	22.14	98.1
612105	7109250	644599		UTM83-8	WHI11000949	0.1	77	11.7	0.07	0.46	107	42.09	85
612106	7109250	644499		UTM83-8	WHI11000949	0.8	244	16.2	0.07	0.6	173	32.31	89
612107	7109250	644449		UTM83-8	WHI11000949	1.4	108	15.5	0.08	0.6	108	45.12	84.7
612108	7109250	644399		UTM83-8	WHI11000949	1.9	112	10.9	0.07	0.41	122	27.02	74.2
612109	7109250	644349		UTM83-8	WHI11000949	1.1	133	17.2	0.08	0.59	96	46.75	90.8
612110	7108849	645902	1552	UTM83-8	WHI11000950	1.1	54	8.7	0.09	0.4	52	22.73	80
612111	7108851	645848	1521	UTM83-8	WHI11000950	1.6	84	22.4	0.08	1.15	412	34.03	92.7
612112	7108850	645804	1491	UTM83-8	WHI11000950	2.4	102	17.2	0.1	0.78	188	25.36	97.3
612113	7108854	645746	1488	UTM83-8	WHI11000950	1.1	115	15.5	0.1	0.42	67	38.93	116.6
612114	7108849	645698	1485	UTM83-8	WHI11000950	0.9	37	13.6	0.09	0.56	31	28.49	92.5
612115	7108852	645649	1482	UTM83-8	WHI11000950	1.9	42	16.2	0.09	0.87	45	30.36	86.1
612116	7108854	645605	1464	UTM83-8	WHI11000950	0.9	151	20.1	0.2	0.79	37	56.55	122.4
612117	7108849	645550	1476	UTM83-8	WHI11000950	0	0	0	0	0	0	0	0
612118	7108848	645497	1505	UTM83-8	WHI11000950	1.1	129	16	0.18	0.48	54	68.28	108.4
612119	7108850	645448	1507	UTM83-8	WHI11000950	2.5	110	11.8	0.14	0.29	35	63.28	112.3
612120	7108851	645407	1480	UTM83-8	WHI11000950	1.5	130	17.8	0.2	0.83	69	54.18	124.1
612121	7108846	645347	1468	UTM83-8	WHI11000950	0.3	87	11.1	0.1	0.31	58	33.27	115.7
612122	7108852	645299	1449	UTM83-8	WHI11000950	1.4	131	5	0.17	0.22	39	37.62	102.7
612123	7108851	645251	1440	UTM83-8	WHI11000950	1.7	64	5.9	0.1	0.28	47	26.42	99.3
612124	7108853	645198	1427	UTM83-8	WHI11000950	2.4	71	14.4	0.13	0.47	91	30.57	97.7
612125	7108851	645148	1416	UTM83-8	WHI11000950	0.8	59	10.2	0.11	0.6	47	30.15	84.8
612126	7108851	645100	1428	UTM83-8	WHI11000950	0.9	153	16.6	0.16	0.37	75	36.97	107.9
612127	7108850	645045	1434	UTM83-8	WHI11000950	1.3	238	14.4	0.12	0.62	76	36.62	118.6
612128	7108851	645000	1433	UTM83-8	WHI11000950	2.4	155	17.8	0.18	0.35	168	38.6	131.7
612129	7108851	644950	1417	UTM83-8	WHI11000950	1.6	65	14.8	0.14	0.52	118	33.15	109.5
612130	7108849	644898	1386	UTM83-8	WHI11000950	6.2	167	15	0.13	0.44	111	36.44	97.2
612131	7108849	644847	1364	UTM83-8	WHI11000950	3.4	66	15.6	0.08	0.64	63	33.32	91.4
612132	7108849	644800	1346	UTM83-8	WHI11000950	12.4	184	37.6	0.12	3.45	790	23.13	76.8
612133	7108852	644750	1374	UTM83-8	WHI11000950	12.4	321	32	0.13	3.84	654	27.48	102.1
612134	7108853	644698	1388	UTM83-8	WHI11000950	17.7	373	35.3	0.17	4.88	1339	24.33	89.2
612135	7108850	644650	1380	UTM83-8	WHI11000950	2.7	78	17.5	0.06	1.27	98	28.94	96.2
612136	7108851	644600	1356	UTM83-8	WHI11000950	16.5	165	44.8	0.14	4.9	649	20.52	115.2
612137	7108850	644549	1330	UTM83-8	WHI11000950	8.9	217	34.2	0.12	3.11	584	15.8	45.6
612138	7108853	644496	1323	UTM83-8	WHI11000950	6	103	25.8	0.15	2.57	400	22.91	123.8
612139	7108848	644448	1320	UTM83-8	WHI11000950	5.3	194	65.6	0.22	6.13	2314	22.52	124.9
612140	7108851	644399	1329	UTM83-8	WHI11000950	0.8	101	26.5	0.16	1.05	194	23.86	128.7
612141	7108850	644349	1331	UTM83-8	WHI11000950	1.3	20	19.9	0.05	0.55	110	23.29	81.7
612142	7108849	644298	1323	UTM83-8	WHI11000950	0.7	17	15.4	0.08	0.62	68	13.07	59.9
612143	7108853	644253	1307	UTM83-8	WHI11000950	1.8	27	22.5	0.1	0.92	153	20.52	77.8
612144	7108851	644197	1283	UTM83-8	WHI11000950	1.3	63	14.1	0.08	0.52	298	18.45	103.1
612145	7108852	644150	1264	UTM83-8	WHI11000950	2.9	71	15.4	0.08	0.58	248	18.54	90.6
612146	7108848	644052	1234	UTM83-8	WHI11000950	1.9	92	15.9	0.08	0.49	207	17.7	68.9
612147	7108853	643997	1214	UTM83-8	WHI11000950	2.1	115	14	0.09	0.64	157	21.46	85.7
612148	7108850	643951	1205	UTM83-8	WHI11000950	1.8	86	13.2	0.12	0.77	92	18.33	98.3
612149	7108852	643899	1213	UTM83-8	WHI11000950	0.9	52	9.9	0.1	0.42	46	17.67	58.9
612150	7108849	643850	1226	UTM83-8	WHI11000950	0.9	18	15.5	0.07	0.56	93	18.08	79.7
612151	7109005	646095	1638	UTM83-8	WHI11000951	0.9	78	8.9	0.07	0.53	50	27.14	84.4
612152	7109003	646146	1620	UTM83-8	WHI11000951	0.3	313	4.9	0.1	0.26	73	36.61	78.1
612153	7109004	646199	1604	UTM83-8	WHI11000951	0	0	0	0	0	0	0	0
612154	7108997	646246	1571	UTM83-8	WHI11000951	0.8	273	7.5	0.14	0.33	62	53.19	99.3
612155	7108998	353713	1538	UTM83-9	WHI11000951	0.1	262	23.3	0.19	0.69	86	55.02	145.4
612156	7108995	353762		UTM83-9	WHI11000951	0.1	187	12.7	0.12	0.51	48	34.74	108.8
612157	7108994	353808	1466	UTM83-9	WHI11000951	2.1	466	45.9	0.17	0.78	60	71.45	125.9
612158	7108986	353858	1476	UTM83-9	WHI11000951	0.1	123	35.4	0.1	0.6	23	52.47	149.3
612159	7109003	646045	1634	UTM83-8	WHI11000951	0.5	72	9.7	0.08	0.59	90	37.69	68.1
612160	7108997	645998	1625	UTM83-8	WHI11000951	0.1	38	8	0.21	0.71	21	16.9	59.9
612161	7109002	645949	1617	UTM83-8	WHI11000951	0.4	23	11.2	0.1	0.6	20	19.68	57.4
612162	7109002	645899	1605	UTM83-8	WHI11000951	2.1	61	16.3	0.08	0.62	28	19.61	68.5
612163	7109004	645849	1598	UTM83-8	WHI11000951	0.1	110	15.5	0.11	0.4	41	32.14	86.7
612164	7109002	645796	1594	UTM83-8	WHI11000951	0.1	53	11.4	0.09	0.33	17	42.2	123.4
612165	7108998	645749	1594	UTM83-8	WHI11000951	1.7	84	17	0.08	0.43	44	31.88	86.8

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
612166	7109004	645698	1596	UTM83-8	WHI11000951	0.2	53	16.3	0.1	0.39	29	39.29	96.5
612167	7109004	645647	1563	UTM83-8	WHI11000951	0.1	161	25.2	0.13	0.46	40	39.97	104.2
612168	7109003	645601	1564	UTM83-8	WHI11000951	2.3	156	21.3	0.09	0.61	70	26.78	89.3
612169	7109001	645549	1572	UTM83-8	WHI11000951	0.1	106	15.9	0.11	0.46	50	23.93	82.6
612170	7109000	645496	1531	UTM83-8	WHI11000951	1.3	179	23	0.1	0.61	86	32.16	103.5
612171	7108994	645451	1493	UTM83-8	WHI11000951	2.3	178	21.2	0.07	0.57	89	32.16	111.5
612172	7108992	645403	1450	UTM83-8	WHI11000951	3.6	108	19.2	0.11	1.21	67	25.16	102.8
612173	7109012	645201	1379	UTM83-8	WHI11000951	9.1	185	16	0.22	1.82	285	18.64	99
612174	7109005	645148	1372	UTM83-8	WHI11000951	2.9	123	12.7	0.1	0.75	160	19.79	86.4
612175	7108995	645099	1364	UTM83-8	WHI11000951	1.4	127	21.5	0.07	0.55	183	27.88	111.7
612176	7109003	645045	1364	UTM83-8	WHI11000951	0.8	84	18.5	0.09	0.31	105	22.51	101.5
612177	7108998	644998	1361	UTM83-8	WHI11000951	0.7	77	20.8	0.08	0.44	137	24.75	109.8
612178	7109002	644948	1360	UTM83-8	WHI11000951	0.7	77	14.1	0.12	0.47	49	29.89	97.9
612179	7108999	644901	1355	UTM83-8	WHI11000951	0.7	124	17.7	0.08	0.52	280	29.37	102.2
612180	7108991	644798	1306	UTM83-8	WHI11000951	1.3	103	19.3	0.07	0.61	243	23.99	95.6
612181	7109003	644749	1297	UTM83-8	WHI11000951	3.4	186	22.6	0.13	1.31	478	21.28	90.6
612182	7109004	644696	1315	UTM83-8	WHI11000951	1.1	18	18.9	0.07	1.38	146	17.48	65.2
612183	7109000	644647	1316	UTM83-8	WHI11000951	5.1	214	53.8	0.09	5.67	1317	24.79	109.8
612184	7108999	644594	1308	UTM83-8	WHI11000951	9.8	108	33.7	0.09	2.08	672	18.7	78.3
612185	7109004	644453	1228	UTM83-8	WHI11000951	3.5	93	27.7	0.09	1.36	530	18.12	104.2
612186	7109001	644394	1220	UTM83-8	WHI11000951	5.3	112	47.8	0.17	1.45	442	17.46	96.4
612187	7109002	644147	1213	UTM83-8	WHI11000951	1.6	78	9.6	0.08	0.32	100	15.07	94
612188	7109000	644098	1204	UTM83-8	WHI11000951	2.5	112	12.1	0.08	0.38	288	14.34	78.6
612189	7108998	644006	1178	UTM83-8	WHI11000951	3	127	13	0.08	0.52	236	13.25	97.6
612190	7108752	645245	1489	UTM83-8	WHI11000951	0.6	63	6.7	0.1	0.3	43	32.83	123.5
612191	7108752	645199	1470	UTM83-8	WHI11000951	0.9	46	8.6	0.08	0.45	35	22.9	81.8
612192	7108753	645150	1459	UTM83-8	WHI11000951	2.2	68	14.6	0.1	0.64	67	56.83	95.8
612193	7108751	645105	1475	UTM83-8	WHI11000951	2.4	128	9	0.13	0.45	82	57.44	86.4
612194	7108745	645047	1502	UTM83-8	WHI11000951	1.5	98	12.1	0.11	0.56	49	32.37	77.2
612195	7108746	645003	1484	UTM83-8	WHI11000951	1.8	113	13.5	0.09	0.63	58	59.09	80
612196	7108747	644958	1460	UTM83-8	WHI11000951	1.3	16	22.4	0.11	0.64	43	37.53	102.2
612197	7108747	644888	1419	UTM83-8	WHI11000951	2.1	92	11.1	0.11	0.51	913	25.14	78.5
612198	7108746	644845	1404	UTM83-8	WHI11000951	2.8	49	17.4	0.11	1.1	341	31.48	94.5
612199	7108750	644799	1413	UTM83-8	WHI11000951	99	290	25.7	0.11	3.72	985	17.85	62.7
612200	7108747	644755	1421	UTM83-8	WHI11000951	5	326	21.9	0.15	1.75	212	28.9	148.3
612201	7109050	644449		UTM83-8	WHI11000949	8.5	119	7.9	0.13	0.46	150	15.92	84.3
612202	7109050	644399		UTM83-8	WHI11000949	4.6	83	17	0.12	0.63	212	15.77	84.3
612203	7109050	644299		UTM83-8	WHI11000949	4.4	98	29.5	0.14	0.55	220	20.51	111.4
612204	7109050	644199		UTM83-8	WHI11000949	1.2	35	4.9	0.08	0.2	47	13.85	136.8
612205	7109050	644149		UTM83-8	WHI11000949	0.1	93	6.1	0.03	0.27	115	16.22	93.1
612206	7109050	644099		UTM83-8	WHI11000949	3.3	93	8.3	0.1	0.35	175	14.5	93.6
612207	7109050	644049		UTM83-8	WHI11000949	3.6	126	8.7	0.14	0.4	247	15.77	95.2
612208	7109050	643999		UTM83-8	WHI11000949	3.9	136	11.7	0.12	0.53	286	17.89	89.3
612209	7108899	646001	1600	UTM83-8	WHI11000950	1	43	8	0.09	0.47	28	22.6	70.5
612210	7108902	645950	1594	UTM83-8	WHI11000950	3.4	124	14.9	0.12	0.69	69	45.2	78.1
612211	7108900	645898	1569	UTM83-8	WHI11000950	3.7	87	21.4	0.08	0.53	53	140.06	97.3
612212	7108901	645848	1538	UTM83-8	WHI11000950	0.9	35	9.2	0.1	0.41	22	83.44	73.5
612213	7108900	645797	1533	UTM83-8	WHI11000950	1.9	55	44	0.15	2.89	65	26.27	74.4
612214	7108901	645748	1526	UTM83-8	WHI11000950	1.5	159	16.4	0.09	0.5	64	135.79	98.4
612215	7108899	645698	1524	UTM83-8	WHI11000950	0.6	20	14.3	0.07	0.37	17	45.58	119
612216	7108900	645650	1519	UTM83-8	WHI11000950	1.2	149	18.6	0.1	0.65	93	46.32	110.7
612217	7108903	645599	1497	UTM83-8	WHI11000950	0.2	42	11.5	0.1	0.46	37	53.38	106.4
612218	7108900	645547	1523	UTM83-8	WHI11000950	2.4	124	7.2	0.09	0.36	32	86.78	114.1
612219	7108900	645498	1542	UTM83-8	WHI11000950	0.9	77	20.7	0.08	0.34	21	39.66	97.6
612220	7108902	645447	1513	UTM83-8	WHI11000950	1.2	169	11.7	0.13	0.72	85	119.28	97.3
612221	7108899	645400	1482	UTM83-8	WHI11000950	1.2	87	9.8	0.07	0.42	32	42.37	84.6
612222	7108901	645347	1446	UTM83-8	WHI11000950	2.4	153	17.6	0.11	0.79	155	87.58	124.2
612223	7108901	645301	1427	UTM83-8	WHI11000950	0.9	160	19.9	0.12	0.4	154	38.35	107.2
612224	7108900	645249	1413	UTM83-8	WHI11000950	3.7	135	19.4	0.13	0.57	139	58.98	107.9
612225	7108901	645199	1408	UTM83-8	WHI11000950	2.9	126	16.3	0.11	0.58	67	35.77	102.4
612226	7108900	645148	1404	UTM83-8	WHI11000950	3.5	107	10	0.1	0.74	43	26.1	81.8
612227	7108900	645099	1411	UTM83-8	WHI11000950	1.6	161	19	0.12	0.41	84	30.52	96.4

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
612228	7108900	645049	1419	UTM83-8	WHI11000950	1.1	188	17.7	0.14	0.5	176	35.88	105.6
612229	7108900	644999	1421	UTM83-8	WHI11000950	1.1	232	22.9	0.15	0.46	200	84.14	110.2
612230	7108900	644947	1416	UTM83-8	WHI11000950	0.6	68	16.3	0.09	0.46	108	30.91	87.5
612231	7108900	644898	1391	UTM83-8	WHI11000950	0.9	51	15.6	0.09	0.83	48	27.99	78.4
612232	7108901	644849	1351	UTM83-8	WHI11000950	0.7	85	14.6	0.1	0.77	128	25.36	85.8
612233	7108901	644798	1333	UTM83-8	WHI11000950	0.7	212	10.9	0.09	0.88	156	48.26	135.5
612234	7108901	644700	1358	UTM83-8	WHI11000950	0.4	53	9.5	0.1	0.61	72	16.6	70.4
612235	7108901	644647	1364	UTM83-8	WHI11000950	0.6	50	11.2	0.08	0.86	492	25.71	94.4
612236	7108901	644597	1340	UTM83-8	WHI11000950	1.2	81	13.5	0.15	0.93	509	28.32	80.7
612237	7108901	644548	1318	UTM83-8	WHI11000950	0.6	60	12.6	0.1	1.25	206	21.49	63.7
612238	7108900	644498	1309	UTM83-8	WHI11000950	4.9	129	33.9	0.19	3.32	436	151.2	103.1
612239	7108898	644398	1304	UTM83-8	WHI11000950	2.8	76	69.1	0.27	4.92	775	18.66	79.1
612240	7108901	644298	1312	UTM83-8	WHI11000950	1.2	71	12.8	0.09	0.56	170	40.23	82
612241	7108899	644147	1270	UTM83-8	WHI11000950	1.6	92	11.8	0.07	0.38	154	15.64	69.3
612242	7108901	644098	1253	UTM83-8	WHI11000950	1.7	98	9	0.1	0.39	177	16.17	75.5
612243	7108901	644049	1239	UTM83-8	WHI11000950	3.5	144	13.4	0.14	0.56	222	20.43	64.7
612244	7108899	643998	1224	UTM83-8	WHI11000950	0.8	103	10.5	0.12	0.62	208	17.79	67.3
612245	7108900	643949	1218	UTM83-8	WHI11000950	0.6	26	12.3	0.11	0.52	232	19.7	58.1
612246	7108901	643897	1222	UTM83-8	WHI11000950	1.4	74	16.2	0.09	0.53	321	24.8	73.5
612247	7108901	643848	1230	UTM83-8	WHI11000950	0.1	29	15.7	0.09	0.54	78	53.4	57.6
612248	7108901	643800	1238	UTM83-8	WHI11000950	3.6	55	8.1	0.12	0.51	71	39.63	120.6
612249	7108900	643749	1237	UTM83-8	WHI11000950	0.1	71	13.6	0.1	0.65	98	35.31	86
612250	7108901	643695	1226	UTM83-8	WHI11000950	0.7	125	7.8	0.13	0.59	85	26.28	58.3
612251	7109400	644949		UTM83-8	WHI11000949	1.7	52	22.3	0.1	1.16	104	34.98	123.9
612252	7109400	644899		UTM83-8	WHI11000949	6.6	156	63.2	0.19	1.98	1122	21.73	168.3
612253	7109400	644849		UTM83-8	WHI11000949	6.1	87	30.6	0.08	1.5	325	30.9	86.2
612254	7109400	644799		UTM83-8	WHI11000949	1.1	57	16.5	0.08	0.93	98	39.23	125.6
612255	7109400	644749		UTM83-8	WHI11000949	5.4	69	97.6	0.1	3.28	885	144.29	144.2
612256	7109400	644699		UTM83-8	WHI11000949	1.4	68	34.4	0.13	1.28	302	30.08	99.3
612257	7109400	644649		UTM83-8	WHI11000949	0.4	42	15.1	0.12	0.53	84	27.52	79.7
612258	7109400	644599		UTM83-8	WHI11000949	0.4	104	15.3	0.08	0.89	144	27.46	78.7
612259	7109400	644549		UTM83-8	WHI11000949	0.1	66	13	0.07	0.47	38	44.08	113.5
612260	7109400	644499		UTM83-8	WHI11000949	0.6	194	33.2	0.19	0.75	73	124.34	135.2
612261	7109400	644449		UTM83-8	WHI11000949	0.8	85	20.2	0.11	0.78	51	59.07	111.4
612262	7109400	644399		UTM83-8	WHI11000949	0.4	157	15.3	0.09	0.5	79	76.38	99.9
612263	7109400	644349		UTM83-8	WHI11000949	0.7	95	16.3	0.1	0.48	71	39.5	122.7
612264	7109400	644299		UTM83-8	WHI11000949	0.5	166	25.9	0.14	0.63	128	71.5	93.8
612265	7109400	644249		UTM83-8	WHI11000949	0.7	183	17	0.09	1.21	250	67.15	84.3
612266	7109400	644199		UTM83-8	WHI11000949	1.4	96	16.1	0.11	0.4	294	30.54	69.7
612267	7109400	644149		UTM83-8	WHI11000949	1.4	136	12.4	0.08	0.38	263	29.37	83.2
612268	7109400	644099		UTM83-8	WHI11000949	2.1	62	16.6	0.1	0.43	257	24.36	65.7
612269	7109400	644049		UTM83-8	WHI11000949	3.4	219	15.8	0.1	0.63	396	26.97	82.8
612270	7109400	643999		UTM83-8	WHI11000949	1.2	234	9.8	0.08	0.51	218	21.71	53.7
612271	7109249	353736		UTM83-9	WHI11000949	0.8	264	8.8	0.11	0.56	71	30.9	77.4
612272	7109250	646249		UTM83-8	WHI11000949	3.9	492	23	0.17	0.78	116	71.96	136.3
612273	7109250	646199		UTM83-8	WHI11000949	1.5	269	17	0.19	0.51	54	51.16	143.6
612274	7109250	646149		UTM83-8	WHI11000949	1.6	132	11.3	0.11	0.29	63	20.17	81
612275	7109250	646099		UTM83-8	WHI11000949	1.7	26	46.1	0.08	0.57	38	17.96	84.6
612276	7109250	646049		UTM83-8	WHI11000949	5.4	52	22.6	0.09	0.55	36	20.49	67.2
612277	7109250	645999		UTM83-8	WHI11000949	3	30	18	0.13	0.5	28	26.93	87.1
612278	7109250	645949		UTM83-8	WHI11000949	3.1	49	13.6	0.11	0.78	39	23.53	87.2
612279	7109250	645899		UTM83-8	WHI11000949	7.7	33	14.5	0.1	0.76	30	19.48	90.8
612280	7109250	645849		UTM83-8	WHI11000949	1.9	36	13.5	0.1	0.69	22	26.44	87.7
612281	7109250	645799		UTM83-8	WHI11000949	1.4	82	12.1	0.12	0.64	38	30.51	86.1
612282	7109250	645749		UTM83-8	WHI11000949	1.9	113	14.6	0.09	0.52	62	28.76	88.6
612283	7109250	645699		UTM83-8	WHI11000949	1.6	92	13.8	0.1	0.46	127	25.37	93
612284	7109250	645649		UTM83-8	WHI11000949	5.7	229	23.9	0.11	1.38	431	25.88	98.9
612285	7109250	645599		UTM83-8	WHI11000949	8.3	222	18.7	0.11	1.15	243	17.43	82.6
612286	7109250	645549		UTM83-8	WHI11000949	4.2	144	14.7	0.14	0.77	230	19.48	104.1
612287	7109250	645499		UTM83-8	WHI11000949	3.2	117	42.5	0.14	1.41	227	23.07	109.9
612288	7109250	645449		UTM83-8	WHI11000949	5.7	155	33.6	0.14	1.09	428	25.75	121.7
612289	7109250	645399		UTM83-8	WHI11000949	2.3	82	7.6	0.1	0.49	131	13.19	89.6

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
612290	7109250	645349		UTM83-8	WHI11000949	4.1	90	26.5	0.11	1.17	438	27.29	119.1
612291	7109250	645299		UTM83-8	WHI11000949	3.5	104	19.6	0.11	0.98	396	19.15	107.8
612292	7109250	645249		UTM83-8	WHI11000949	3.7	75	22	0.13	1.06	222	19.29	110.8
612293	7109250	645199		UTM83-8	WHI11000949	3.7	95	33.8	0.27	1.64	310	22.47	123
612294	7109250	645149		UTM83-8	WHI11000950	6.5	239	61.3	0.16	3.9	516	17.52	74.6
612295	7109250	645099		UTM83-8	WHI11000950	8.6	172	27	0.12	1.63	238	58.07	120.6
612296	7109250	645049		UTM83-8	WHI11000950	14	182	24.2	0.11	1.5	192	40.94	118
612297	7109250	644999		UTM83-8	WHI11000950	7.2	122	29.8	0.15	2.01	681	59.18	89.6
612298	7109250	644949		UTM83-8	WHI11000950	4.5	83	23.9	0.1	1.22	453	19.58	96.2
612299	7109250	644899		UTM83-8	WHI11000950	4.4	123	23.3	0.15	1.07	302	27.25	97.1
612300	7109250	644849		UTM83-8	WHI11000950	2.6	68	34.7	0.13	1.5	605	21.3	128.5
612301	7110131	353970		UTM83-9	WHI11000918	3.3	296	13	0.3	0.35	203	39.42	112.2
612302	7110135	353920		UTM83-9	WHI11000918	4.7	220	199.8	0.35	4.48	1343	47.44	163.3
612303	7110140	353870		UTM83-9	WHI11000918	2.9	217	42.3	0.18	1.5	364	36.37	113.8
612304	7110145	353821		UTM83-9	WHI11000918	5.1	131	50.9	0.18	2.15	616	42.67	204.1
612305	7110150	353771		UTM83-9	WHI11000918	3.3	140	21.1	0.1	2.75	300	39.74	203.2
612306	7110150	646199		UTM83-8	WHI11000918	2.8	254	32.6	0.3	3.67	424	91.32	151.6
612307	7110150	645899		UTM83-8	WHI11000918	0.8	328	14.1	0.18	0.55	141	42.2	154.6
612308	7110150	645849		UTM83-8	WHI11000918	0.8	364	12.3	0.18	0.42	137	40.26	143
612309	7110150	645799		UTM83-8	WHI11000918	1.3	392	8.5	0.16	0.34	87	41.46	137.6
612310	7110150	645749		UTM83-8	WHI11000918	1	304	18.7	0.18	0.86	219	44.06	153.8
612311	7110150	645698		UTM83-8	WHI11000918	1.7	271	9.1	0.14	0.61	69	55.54	111.3
612312	7110150	645648		UTM83-8	WHI11000918	0.7	238	7.2	0.14	0.34	40	52.52	110.5
612313	7110150	645599		UTM83-8	WHI11000918	1.8	84	10.9	0.13	0.64	20	30.54	96.2
612314	7110150	645549		UTM83-8	WHI11000918	1.1	213	14.4	0.17	0.37	91	31.01	100.9
612316	7110150	645449		UTM83-8	WHI11000918	1.4	512	12	0.18	0.65	124	37.33	107.4
612317	7110150	645399		UTM83-8	WHI11000918	1.2	212	10.3	0.12	0.53	69	26.58	100.6
612318	7110150	645349		UTM83-8	WHI11000918	1.2	186	8.1	0.09	0.41	62	25.11	89.5
612319	7110150	645299		UTM83-8	WHI11000918	0.5	67	12.6	0.18	0.59	31	25.98	85.3
612320	7110150	645249		UTM83-8	WHI11000918	0.3	64	9.9	0.13	0.43	34	25.72	92.9
612321	7110150	645199		UTM83-8	WHI11000918	0.1	86	7.8	0.14	0.41	46	23.12	73.3
612322	7110150	645149		UTM83-8	WHI11000918	0.9	84	14.8	0.12	0.46	63	30.5	94.8
612323	7110150	645099		UTM83-8	WHI11000918	0.7	208	13.8	0.1	0.51	62	33.99	98.3
612324	7110150	645049		UTM83-8	WHI11000918	8.6	88	16.2	0.08	0.53	68	32.18	97.5
612325	7110150	644999		UTM83-8	WHI11000918	1.7	41	11.4	0.12	0.61	33	28.67	70.8
612326	7110150	644949		UTM83-8	WHI11000918	1	52	17.5	0.14	0.65	69	32.06	78.4
612327	7110150	644899		UTM83-8	WHI11000918	1.1	154	27	0.17	0.48	503	41.84	111
612328	7110150	644849		UTM83-8	WHI11000918	0.5	29	17.2	0.08	0.57	114	28.25	77.4
612329	7110150	644799		UTM83-8	WHI11000918	0.1	52	18	0.12	0.47	85	33.48	81.2
612330	7110150	644749		UTM83-8	WHI11000918	1.2	93	21	0.11	0.66	150	31.06	98.6
612331	7110150	644699		UTM83-8	WHI11000918	2.6	198	98	0.25	1.22	2135	31.75	98.4
612332	7110150	644649		UTM83-8	WHI11000918	2.6	227	51.4	0.14	1.11	729	21.6	120.3
612333	7110150	644599		UTM83-8	WHI11000918	1.5	122	32	0.08	0.64	386	20.04	93.6
612334	7110150	644499		UTM83-8	WHI11000918	1.3	170	11.6	0.07	0.39	215	19.19	70.2
612335	7110150	644449		UTM83-8	WHI11000918	1.5	182	23.6	0.09	0.62	936	27.49	80.3
612336	7110150	644399		UTM83-8	WHI11000918	1.3	116	9.1	0.12	0.53	170	23.58	99.5
612337	7110150	644349		UTM83-8	WHI11000918	1	114	10.3	0.1	0.51	93	22.53	105
612338	7110150	644299		UTM83-8	WHI11000918	1	46	9.9	0.09	0.43	127	21.79	95.4
612339	7110150	644249		UTM83-8	WHI11000918	2.6	184	11.9	0.09	0.49	278	20.65	100.6
612340	7110150	644198		UTM83-8	WHI11000918	0.9	85	12.6	0.13	0.69	205	21.59	79.5
612341	7110150	644149		UTM83-8	WHI11000918	0.1	24	9.9	0.12	0.34	45	18.26	72.2
612342	7110150	644099		UTM83-8	WHI11000918	1	77	10	0.06	0.37	233	23.8	105.1
612343	7110150	644049		UTM83-8	WHI11000918	1.1	102	5.9	0.05	0.34	118	13.95	43.2
612344	7108347	645256	1379	UTM83-8	WHI11000952	0.4	71	14.2	0.08	0.71	20	17.92	71.3
612345	7108348	645202	1410	UTM83-8	WHI11000952	0.7	55	17.9	0.05	0.74	32	12.67	58.5
612346	7108345	645150	1438	UTM83-8	WHI11000952	0.1	61	15.8	0.07	0.95	38	16.09	77.7
612347	7108359	645095	1463	UTM83-8	WHI11000952	1	44	20.3	0.1	0.79	40	22.68	58.4
612348	7108353	645053	1464	UTM83-8	WHI11000952	0.6	131	8.8	0.1	0.44	57	21	73.6
612349	7108349	644996	1479	UTM83-8	WHI11000952	0.7	127	14.6	0.11	0.54	50	41.97	130.6
612350	7108348	644947	1491	UTM83-8	WHI11000952	4.4	58	11.8	0.11	0.71	45	22.42	97.2
612351	7110403	644845	1392	UTM83-8	WHI11001171	1.3	72	19.7	0.13	0.45	135	24.33	55.7
612352	7110400	644794	1406	UTM83-8	WHI11001171	1.5	57	24	0.15	0.77	359	28.13	87.9

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
612353	7110396	644701	1416	UTM83-8	WHI11001171	2.7	74	25.4	0.16	0.86	590	26.43	75
612354	7110400	644647	1424	UTM83-8	WHI11001171	4.2	253	27.4	0.15	0.59	351	26.01	66.5
612355	7110395	644597	1424	UTM83-8	WHI11001171	3.1	200	24.7	0.13	0.66	311	26.64	84.6
612356	7110173	354072	1781	UTM83-9	WHI11001171	22.3	100	78.3	0.16	2.87	477	30.37	221.6
612357	7110167	354119	1790	UTM83-9	WHI11001171	6.4	122	55.1	0.17	2.11	593	31.55	176.7
612358	7110164	354178	1784	UTM83-9	WHI11001171	5.1	93	27.3	0.07	1.36	161	17.07	95.5
612359	7110151	354222	1754	UTM83-9	WHI11001171	8.3	260	62.9	0.18	2.85	257	67.76	217.8
612360	7110145	354363	1654	UTM83-9	WHI11001171	55.2	252	38	0.09	5.51	232	37.57	121.4
612361	7110148	354421	1618	UTM83-9	WHI11001171	4.3	98	48.5	0.09	3.78	837	35.65	1508.2
612362	7110135	354467	1593	UTM83-9	WHI11001171	47.6	201	91.4	0.14	6.72	339	74.99	575.2
612363	7110131	354511	1546	UTM83-9	WHI11001171	3.3	130	40.1	0.1	2.21	263	28.26	299.7
612364	7110120	354567	1517	UTM83-9	WHI11001171	4.5	67	25.9	0.04	3.64	671	23.45	315.7
612365	7110114	354669	1474	UTM83-9	WHI11001171	1.3	43	15.9	0.08	1.54	41	28.41	62.4
612366	7110110	354721		UTM83-9	WHI11001171	2.2	133	10.3	0.17	0.29	217	57.36	44.4
612367	7109742	354430	1601	UTM83-9	WHI11001171	6.3	144	65.5	0.13	2.32	304	54.51	232
612368	7109729	354481	1591	UTM83-9	WHI11001171	4.1	141	94.7	0.11	1.62	1690	54.34	111.4
612369	7109722	354530	1563	UTM83-9	WHI11001171	3.7	69	23.1	0.08	0.69	75	22.58	97.3
612370	7109713	354578	1544	UTM83-9	WHI11001171	3.5	98	54.9	0.14	1.46	264	35.42	83.7
612371	7109713	354634	1526	UTM83-9	WHI11001171	10	46	567.3	0.27	17.25	727	42.87	392.8
612372	7109716	354683	1526	UTM83-9	WHI11001171	5.4	42	17	0.19	0.79	33	30.83	54.6
612373	7109430	354462	1579	UTM83-9	WHI11001171	10	232	26.4	0.16	1.27	404	66.38	122.7
612374	7109388	354448	1568	UTM83-9	WHI11001171	9.4	223	57.4	0.47	0.98	454	55.42	171.8
612375	7109327	354447	1548	UTM83-9	WHI11001171	44.3	147	58.7	0.15	5	761	48.41	357
612376	7109281	354432	1526	UTM83-9	WHI11001171	54.5	269	60.3	0.23	5.66	596	73.58	561.2
612377	7109238	354430	1536	UTM83-9	WHI11001171	9.1	122	33.8	0.22	2.28	228	42.5	266.6
612378	7109182	354426	1523	UTM83-9	WHI11001171	15.4	144	42.8	0.24	2.05	450	47.87	359.7
612379	7109136	354422	1500	UTM83-9	WHI11001171	6.7	124	18.7	0.16	1.43	159	32.08	179
612380	7109086	354415	1482	UTM83-9	WHI11001171	5.3	167	14.7	0.15	1.56	177	14.74	122.5
612381	7109374	354602	1483	UTM83-9	WHI11001171	4.6	141	33.8	0.15	0.72	502	48.4	83.3
612382	7109321	354591	1463	UTM83-9	WHI11001171	3.8	95	27.2	0.1	0.5	157	20.76	62.7
612383	7109210	354584	1414	UTM83-9	WHI11001171	7.6	105	60.5	0.13	1.61	133	23.88	77.4
612384	7109172	354578	1409	UTM83-9	WHI11001171	17.3	135	46.7	0.14	2.5	484	30.17	168.3
612385	7109123	354579	1391	UTM83-9	WHI11001171	3.8	248	20.5	0.17	0.77	331	25.32	77.9
612386	7108922	354560	1324	UTM83-9	WHI11001171	183.1	508	128.8	0.28	4.93	4628	81.52	514.9
612387	7109515	354611	1502	UTM83-9	WHI11001171	0.1	72	187.2	0.18	3.38	260	53.2	156.6
612388	7109559	354616	1483	UTM83-9	WHI11001171	19.5	103	83.1	0.15	3.18	624	23.32	199.4
612389	7109569	354569	1501	UTM83-9	WHI11001171	18.3	120	43.3	0.15	2.93	360	37.14	149.7
612390	7109523	354576	1521	UTM83-9	WHI11001171	21.9	101	48.1	0.15	2.38	1550	21.96	622.3
612391	7109478	354556	1531	UTM83-9	WHI11001171	14.7	98	28.3	0.14	2.3	214	39.25	244.7
612392	7109906	644394	1315	UTM83-8	WHI11001139	1.1	145	19	0.1	0.65	172	32.61	100.8
612393	7109900	644352	1291	UTM83-8	WHI11001139	1.8	128	30.4	0.12	0.66	546	36.4	101
612394	7109898	644304	1267	UTM83-8	WHI11001139	2.7	169	27.1	0.12	0.79	513	26.07	91.4
612395	7109897	644252	1255	UTM83-8	WHI11001139	3.8	127	11.2	0.08	0.52	99	24.1	89.5
612396	7109893	644194	1264	UTM83-8	WHI11001139	3.2	159	18.9	0.09	0.83	444	21.94	80.1
612397	7109896	644151	1272	UTM83-8	WHI11001139	3.6	178	14.8	0.1	0.67	460	21.37	79.4
612398	7109900	644103	1281	UTM83-8	WHI11001139	1	35	14.8	0.1	0.66	114	25.79	106.4
612399	7109904	644047	1288	UTM83-8	WHI11001139	1.9	103	15.4	0.09	0.52	157	27.54	81.8
612400	7109895	644003	1289	UTM83-8	WHI11001139	1.7	39	10.4	0.08	0.47	58	23.81	78.8
612401	7109750	646149		UTM83-8	WHI11000919	2.4	133	11.9	0.08	1.02	425	39.92	337.4
612402	7109750	646099		UTM83-8	WHI11000919	1.9	134	13	0.06	1.04	457	43.19	317.8
612403	7109750	646049		UTM83-8	WHI11000919	5	106	79.9	0.19	6.79	847	55.17	393.6
612404	7109750	645999		UTM83-8	WHI11000919	1.5	174	8.7	0.13	0.51	120	29.28	138.3
612405	7109750	645949		UTM83-8	WHI11000919	2.2	219	12.1	0.07	0.5	185	68.27	205.5
612406	7109750	645899		UTM83-8	WHI11000919	0.7	223	6.7	0.15	0.31	227	39.94	112
612407	7109750	645849		UTM83-8	WHI11000919	1.5	276	6.6	0.17	0.36	138	41.93	107.7
612408	7109750	645799		UTM83-8	WHI11000919	0.4	111	6.8	0.1	0.3	53	39.16	94.2
612409	7109750	645749		UTM83-8	WHI11000919	5	151	13	0.11	0.54	112	35.73	102.4
612410	7109750	645699		UTM83-8	WHI11000919	2.7	211	10.7	0.08	0.51	63	34.48	101.4
612411	7109750	645649		UTM83-8	WHI11000919	1.6	237	5.9	0.07	0.33	78	27	74.8
612412	7109750	645599		UTM83-8	WHI11000919	1.4	91	5.9	0.08	0.45	68	34.75	76.8
612413	7109750	645549		UTM83-8	WHI11000919	1.5	42	14	0.1	0.59	44	31.68	102.9
612414	7109750	645499		UTM83-8	WHI11000919	4.4	51	7.6	0.16	0.65	26	37.14	81.5

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
612415	7109750	645449		UTM83-8	WHI11000919	1.5	64	7.7	0.09	0.46	53	27.4	88
612416	7109750	645399		UTM83-8	WHI11000919	1.4	60	11.9	0.08	0.57	49	24.47	92.5
612417	7109750	645349		UTM83-8	WHI11000919	2.3	189	7.6	0.11	0.4	94	29.26	94.1
612418	7109750	645299		UTM83-8	WHI11000919	1.6	149	7.9	0.14	0.55	59	22.27	66.6
612419	7109750	645249		UTM83-8	WHI11000919	1.3	50	11.8	0.11	0.62	51	21.46	73.7
612420	7109750	645199		UTM83-8	WHI11000919	1.6	60	12.1	0.14	0.76	66	41.36	108.7
612421	7109750	645149		UTM83-8	WHI11000919	1.1	110	16.6	0.13	0.71	469	27.77	103.5
612422	7109750	645099		UTM83-8	WHI11000919	1.5	94	9.1	0.09	0.39	83	27.18	102.7
612423	7109750	645049		UTM83-8	WHI11000919	1.5	97	7.7	0.08	0.4	203	31.59	100.1
612424	7109750	644999		UTM83-8	WHI11000919	6.2	258	47.1	0.24	2.16	695	25.5	101.6
612425	7109750	644949		UTM83-8	WHI11000919	6.3	398	17.4	0.12	1.29	285	18.04	101.6
612426	7109750	644899		UTM83-8	WHI11000919	2.2	88	23.1	0.1	1.19	529	29.61	130.7
612427	7109750	644849		UTM83-8	WHI11000919	2.1	110	19.3	0.09	0.92	636	23.44	102.7
612428	7109750	644799		UTM83-8	WHI11000919	0.9	74	4.6	0.07	0.4	148	18.49	85.2
612429	7109750	644749		UTM83-8	WHI11000919	0.3	41	9.5	0.14	0.32	194	17.49	52.6
612430	7109750	644699		UTM83-8	WHI11000919	0.7	89	10.1	0.1	0.47	105	22.24	96.1
612431	7109750	644649		UTM83-8	WHI11000919	2.1	218	8.9	0.14	0.49	125	18.8	57.1
612432	7109750	644599		UTM83-8	WHI11000919	1.6	77	21.3	0.12	0.71	118	37.31	87.6
612433	7109750	644549		UTM83-8	WHI11000919	1.9	63	12.1	0.1	0.55	61	46.83	108.1
612434	7109750	644499		UTM83-8	WHI11000919	3.9	148	18.1	0.1	0.9	210	34.85	140.5
612435	7109750	644449		UTM83-8	WHI11000919	4.9	128	16.5	0.12	2.52	797	33.39	135.8
612436	7109500	646099		UTM83-8	WHI11000919	1	62	8.7	0.13	0.48	37	27.4	84.3
612437	7109500	646049		UTM83-8	WHI11000919	1.1	185	11.9	0.14	0.49	80	32.15	91.2
612438	7109500	645999		UTM83-8	WHI11000919	0.8	155	14.7	0.14	0.48	94	27.47	91
612439	7109500	645949		UTM83-8	WHI11000919	0.2	59	5.7	0.12	0.31	35	22.89	65.6
612440	7109500	645899		UTM83-8	WHI11000919	1	111	6.3	0.08	0.32	42	26.95	78.8
612441	7109500	645849		UTM83-8	WHI11000919	0.3	27	6.1	0.09	0.38	20	23.57	75.9
612442	7109500	645799		UTM83-8	WHI11000919	0.4	51	6	0.09	0.3	22	20.68	70.3
612443	7109500	645749		UTM83-8	WHI11000919	0.8	55	6.9	0.1	0.47	44	26.04	68.8
612444	7109500	645699		UTM83-8	WHI11000919	0.9	85	7.4	0.11	0.49	30	27.8	81.6
612445	7109500	645649		UTM83-8	WHI11000919	3.6	54	7.9	0.11	0.52	18	18.7	71.9
612446	7109500	645599		UTM83-8	WHI11000918	1.4	54	9.1	0.11	0.63	33	21.28	78.7
612447	7109500	645549		UTM83-8	WHI11000918	2.1	79	11	0.11	0.61	46	21.93	88.5
612448	7109500	645499		UTM83-8	WHI11000918	1.8	97	9.7	0.06	0.54	62	24.39	88.6
612449	7109500	645449		UTM83-8	WHI11000918	2.8	129	15.6	0.07	1.01	124	36.73	101.1
612450	7109500	645399		UTM83-8	WHI11000918	6.4	112	10.1	0.06	0.68	91	35.29	76.6
612451	7109500	645349		UTM83-8	WHI11000918	10.8	189	37.4	0.11	3.18	246	22.55	73
612452	7109500	645299		UTM83-8	WHI11000918	10.8	322	28.9	0.16	1.82	316	21.62	87.1
612453	7109500	645249		UTM83-8	WHI11000918	9.8	289	32.4	0.16	1.47	340	22.42	90.1
612454	7109500	645199		UTM83-8	WHI11000918	5.7	137	25.7	0.1	1.77	362	16.89	48.7
612455	7109500	645149		UTM83-8	WHI11000918	6.2	187	78	0.23	6.49	3449	24.06	103.4
612456	7109500	645099		UTM83-8	WHI11000918	8.5	196	95.5	0.36	3.75	2537	28.62	140.7
612457	7109500	645049		UTM83-8	WHI11000918	3.3	98	39.5	0.15	1.41	431	26.87	123.2
612458	7109500	644999		UTM83-8	WHI11000918	6.1	140	54.2	0.13	1.71	926	33.41	133.1
612459	7109500	644949		UTM83-8	WHI11000918	3.5	85	28.8	0.08	1.1	343	19.54	85.3
612460	7109500	644849		UTM83-8	WHI11000918	1.6	49	17.4	0.07	0.58	43	24.77	98
612461	7109500	644799		UTM83-8	WHI11000918	1.5	73	12.4	0.1	0.55	61	29.78	114.9
612462	7109500	644749		UTM83-8	WHI11000918	1.6	152	8.8	0.1	0.46	56	28.82	104.2
612463	7109500	644699		UTM83-8	WHI11000918	11.1	182	107.9	0.41	4.51	745	36.19	143.8
612464	7109500	644649		UTM83-8	WHI11000918	2.6	131	10.9	0.12	1.3	126	20.8	110.5
612465	7109500	644599		UTM83-8	WHI11000918	1.7	136	6.6	0.08	0.43	85	19.13	87.9
612466	7109500	644549		UTM83-8	WHI11000918	2.8	316	19.2	0.14	0.56	102	17.46	91.3
612467	7109500	644499		UTM83-8	WHI11000918	1.5	110	12.3	0.14	0.42	77	24.78	62.5
612468	7109500	644449		UTM83-8	WHI11000918	2.7	170	24.9	0.1	0.62	86	21.67	119.3
612469	7109500	644399		UTM83-8	WHI11000918	0.4	108	17.4	0.08	0.62	65	18.47	83.3
612470	7109300	646099		UTM83-8	WHI11000949	1.7	159	14.6	0.11	0.38	111	30.03	86.1
612471	7109300	646149		UTM83-8	WHI11000949	0.7	193	9.1	0.11	0.34	53	41.21	86.2
612472	7109300	646049		UTM83-8	WHI11000949	1.2	128	13.2	0.14	0.44	57	32.69	90.1
612473	7109300	645999		UTM83-8	WHI11000949	1.8	65	11.7	0.12	0.6	49	26.73	82.4
612474	7109300	645949		UTM83-8	WHI11000949	2.9	45	12.5	0.08	0.63	26	21.12	86.5
612475	7109300	645899		UTM83-8	WHI11000949	1.7	29	18.8	0.07	0.76	26	31.5	94.4
612476	7109300	645849		UTM83-8	WHI11000949	2.6	46	13.1	0.1	0.73	40	31.35	86.7

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
612477	7109300	645799		UTM83-8	WHI11000949	3.3	74	15.8	0.14	0.71	36	42.96	92.7
612478	7109300	645749		UTM83-8	WHI11000949	1.7	75	10.7	0.07	0.59	51	23.4	77.4
612479	7109300	645699		UTM83-8	WHI11000949	2.6	54	18.3	0.07	0.86	70	23.07	83.8
612480	7109300	645649		UTM83-8	WHI11000949	2	93	15.5	0.07	0.72	127	21.38	75.1
612481	7109300	645599		UTM83-8	WHI11000949	6.1	190	19.6	0.1	1.32	278	19.99	80
612482	7109300	645549		UTM83-8	WHI11000949	3.2	139	16.9	0.09	0.78	213	19.39	89.5
612483	7109300	645499		UTM83-8	WHI11000949	3	133	22.1	0.08	1.41	321	20.75	87.3
612484	7109300	645449		UTM83-8	WHI11000949	2.9	161	16.2	0.07	1.23	250	21	72.8
612485	7109300	645399		UTM83-8	WHI11000949	6.3	100	23.5	0.11	1.6	346	25.52	112.2
612486	7109300	645349		UTM83-8	WHI11000949	2.8	104	7.8	0.15	0.74	95	46.52	117.9
612487	7109300	645299		UTM83-8	WHI11000949	7.3	105	37.5	0.14	1.98	961	32.61	133.7
612488	7109300	645249		UTM83-8	WHI11000949	4.2	104	6.2	0.2	0.7	95	66.76	147.8
612489	7109300	645199		UTM83-8	WHI11000949	1.3	83	15.5	0.12	0.73	56	63.5	140
612490	7109300	645149		UTM83-8	WHI11000949	6.1	138	23.3	0.12	1.44	191	48.24	109.3
612491	7109300	645099		UTM83-8	WHI11000949	2.9	156	19.4	0.16	1.45	90	63.66	117.5
612492	7109300	644999		UTM83-8	WHI11000949	1	94	22	0.09	0.98	307	17.44	92.7
612493	7109300	644949		UTM83-8	WHI11000949	1.1	17	18.7	0.11	1.06	95	30.11	117.1
612494	7109300	644899		UTM83-8	WHI11000949	1.1	62	33.6	0.14	1.27	295	22.71	81
612495	7109300	644849		UTM83-8	WHI11000949	6.4	181	26.4	0.18	1.07	148	13.46	62.5
612496	7109300	644799		UTM83-8	WHI11000949	0.6	52	14	0.09	0.63	54	15.25	58.7
612497	7109300	644749		UTM83-8	WHI11000949	0.4	74	12.5	0.12	0.74	84	24.51	88.1
612498	7109300	644649		UTM83-8	WHI11000949	1.4	86	14.4	0.08	0.45	132	23.89	94.7
612499	7109300	644599		UTM83-8	WHI11000949	0.1	61	14.2	0.06	0.43	45	18.48	93.7
612500	7109300	644549		UTM83-8	WHI11000949	0.8	227	13.5	0.07	0.59	106	24.44	91.6
612501	7108951	645951	1596	UTM83-8	WHI11000950	0.9	34	5.6	0.08	0.37	29	32.43	89
612502	7108953	645901	1579	UTM83-8	WHI11000950	1.4	107	9.6	0.13	0.49	49	27.83	77
612503	7108954	645852	1562	UTM83-8	WHI11000950	1.7	53	19.2	0.08	1.09	30	30.04	52.7
612504	7108950	645800	1559	UTM83-8	WHI11000950	2.1	176	15.1	0.14	0.4	103	30.45	101.8
612505	7108948	645747	1557	UTM83-8	WHI11000950	1.2	53	19	0.1	0.43	31	49.18	99.6
612506	7108953	645700	1558	UTM83-8	WHI11000950	0.6	95	16.4	0.12	0.61	34	53.09	106.8
612507	7108953	645651	1550	UTM83-8	WHI11000950	0.1	88	23.3	0.11	0.48	43	53	91.6
612508	7108950	645601	1520	UTM83-8	WHI11000950	0.1	109	14	0.08	0.51	41	25.97	91.1
612509	7108949	645550	1539	UTM83-8	WHI11000950	0.2	98	10.7	0.1	0.47	37	44.53	94
612510	7108949	645497	1555	UTM83-8	WHI11000950	0.1	141	8.3	0.1	0.44	75	26.06	69.3
612511	7108955	645450	1517	UTM83-8	WHI11000950	2.8	274	34.1	0.12	1.11	73	54.65	123.2
612512	7108956	645404	1477	UTM83-8	WHI11000950	0.1	112	11	0.08	0.44	59	31.87	102.8
612513	7108953	645349	1431	UTM83-8	WHI11000950	1.1	114	15.3	0.08	0.51	53	40.67	112.2
612514	7108952	645295	1387	UTM83-8	WHI11000950	3.6	186	15	0.11	0.92	123	22.9	105.2
612515	7108955	645252	1383	UTM83-8	WHI11000950	3.9	173	10.2	0.1	0.69	133	20.37	103.5
612516	7108952	645204	1360	UTM83-8	WHI11000950	1.7	191	13.6	0.12	0.44	108	33.72	107
612517	7108953	645152	1357	UTM83-8	WHI11000950	1.4	86	13.6	0.1	0.46	76	35.6	104.2
612518	7108952	645099	1364	UTM83-8	WHI11000950	0.9	148	13.5	0.09	0.31	119	30.21	106
612519	7108949	645051	1375	UTM83-8	WHI11000950	1.3	189	14.4	0.16	0.35	280	35.24	110
612520	7108950	644997	1375	UTM83-8	WHI11000950	0.4	104	15.5	0.1	0.46	116	39.37	104.6
612521	7108950	644950	1378	UTM83-8	WHI11000950	0.8	33	15.5	0.11	0.59	41	31.27	73.6
612522	7108950	644903	1362	UTM83-8	WHI11000950	0.8	36	10.4	0.13	0.7	30	16.64	61.9
612523	7108954	644853	1334	UTM83-8	WHI11000950	0.4	86	14.3	0.07	0.6	158	32.67	105.2
612524	7108952	644801	1302	UTM83-8	WHI11000950	1.8	70	12.6	0.08	0.8	96	17.29	83.3
612525	7108947	644752	1309	UTM83-8	WHI11000950	1.2	98	11.1	0.08	0.58	202	25.53	91
612526	7108955	644701	1317	UTM83-8	WHI11000950	0.6	46	10.4	0.11	0.63	81	20.93	83.6
612527	7108951	644648	1345	UTM83-8	WHI11000950	1.3	95	32.3	0.26	1.48	1246	35.77	106.1
612528	7108948	644598	1339	UTM83-8	WHI11000950	1	100	24.3	0.22	1.63	1405	26.51	98.1
612529	7108947	644548	1321	UTM83-8	WHI11000950	5.7	104	36.8	0.1	2.77	731	19.6	68.5
612530	7108950	644497	1294	UTM83-8	WHI11000950	15.5	91	44.4	0.1	2.86	1267	22.35	92.5
612531	7108950	644396	1274	UTM83-8	WHI11000950	6	95	89.6	0.2	4.97	952	28.88	87.5
612532	7108953	644350	1274	UTM83-8	WHI11000950	1.8	54	11.3	0.09	0.39	111	13.31	79.6
612533	7108950	644254	1276	UTM83-8	WHI11000950	2	66	14.2	0.13	0.41	100	24.68	78.2
612534	7108950	644151	1242	UTM83-8	WHI11000950	3	95	6.3	0.07	0.35	85	13.54	72.9
612535	7108952	644101	1226	UTM83-8	WHI11000950	2.5	83	7.8	0.08	0.28	325	12.59	76.7
612536	7108948	644050	1209	UTM83-8	WHI11000950	2.2	77	10.9	0.09	0.46	230	13.06	82
612537	7108951	643997	1192	UTM83-8	WHI11000950	2	163	15	0.12	0.67	401	15.65	67.9
612538	7108945	643950	1183	UTM83-8	WHI11000950	2.3	180	9.3	0.11	0.61	205	15.66	103.5

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
612539	7108952	643903	1187	UTM83-8	WHI11000950	2	125	8.3	0.1	0.43	197	20.88	87.6
612540	7108952	643848	1207	UTM83-8	WHI11000950	1.1	85	8.5	0.09	0.4	113	14.04	62.1
612541	7108953	643799	1215	UTM83-8	WHI11000950	1.4	27	7.8	0.1	0.33	57	19.54	55.1
612542	7108948	643750	1217	UTM83-8	WHI11000950	2.2	51	8.7	0.11	0.33	159	15.31	49.8
612543	7108949	643696	1213	UTM83-8	WHI11000950	0.7	49	9.9	0.09	0.56	107	22.25	71.3
612544	7108955	643647	1205	UTM83-8	WHI11000950	2.4	32	7.2	0.09	1.56	149	15.65	107.9
612545	7108949	643602	1197	UTM83-8	WHI11000950	0.9	23	7.7	0.09	0.93	73	15.21	53.8
612546	7108705	645247	1478	UTM83-8	WHI11000951	0.1	112	18.9	0.15	0.6	52	32.41	76.6
612547	7108698	645200	1468	UTM83-8	WHI11000951	0.1	66	17.5	0.07	0.68	32	50.86	94
612548	7108700	645153	1478	UTM83-8	WHI11000951	1	106	15	0.11	0.55	52	81.46	93.6
612549	7108701	645102	1500	UTM83-8	WHI11000951	1.3	157	12.6	0.1	0.59	76	56.96	76.7
612550	7108700	645050	1512	UTM83-8	WHI11000951	1.9	71	16.8	0.16	0.83	51	43.55	103.8
612551	7107601	643547	1500	UTM83-8	WHI11001169	0.5	50	29.2	0.19	0.78	68	24.16	59.3
612552	7107600	643498	1488	UTM83-8	WHI11001169	1.1	39	26	0.13	0.69	51	16.87	57.7
612553	7107600	643452	1471	UTM83-8	WHI11001169	0.7	52	12.3	0.11	1.79	81	22.27	82.4
612554	7107599	643402	1466	UTM83-8	WHI11001169	1.7	138	38.9	0.07	1.4	67	22.51	99.2
612555	7107600	643349		UTM83-8	WHI11001169	220.6	75	320.3	0.06	1.41	65	33.39	66.2
612556	7107600	643302	1398	UTM83-8	WHI11001169	93.6	153	179.2	0.12	0.74	113	48.23	68.7
612557	7107601	643250	1362	UTM83-8	WHI11001169	11.4	252	18.3	0.1	0.37	115	32.47	73.5
612558	7107599	643199	1332	UTM83-8	WHI11001169	2.8	237	11.7	0.1	0.33	145	32.34	82.7
612559	7107602	643150	1300	UTM83-8	WHI11001169	1.5	227	12.9	0.12	0.35	150	35.01	88.9
612560	7107600	643095	1262	UTM83-8	WHI11001169	1.4	280	14.5	0.09	0.32	185	29.64	85
612561	7107600	643054	1231	UTM83-8	WHI11001169	1.5	217	7.3	0.09	0.25	113	17.03	61.5
612562	7107606	643000	1193	UTM83-8	WHI11001169	1.1	203	6.8	0.09	0.26	119	20.55	70.3
612563	7107601	642947	1161	UTM83-8	WHI11001169	0.3	195	7.1	0.09	0.32	110	19.81	48.9
612564	7107602	642899	1133	UTM83-8	WHI11001169	1	131	8.9	0.08	0.22	91	19.02	63.5
612565	7107599	642799	1088	UTM83-8	WHI11001169	2	162	9.8	0.1	0.21	118	20.49	69.3
612566	7107598	642750	1073	UTM83-8	WHI11001169	0.7	137	8.2	0.1	0.26	121	19.57	77.5
612567	7107602	642649	1045	UTM83-8	WHI11001169	1	182	10.6	0.09	0.33	126	22.36	109.8
612568	7107600	642596	1032	UTM83-8	WHI11001169	1.9	199	18.6	0.1	0.52	142	25.36	79.6
612569	7107600	642550	1020	UTM83-8	WHI11001169	1	121	11.1	0.09	0.25	119	23.02	61.9
612570	7107600	642499	1005	UTM83-8	WHI11001169	1.8	177	12	0.1	0.31	148	21.63	79.6
612571	7107253	643799	1321	UTM83-8	WHI11001169	9.5	116	152.9	0.09	2.54	114	27.54	86.4
612572	7107253	643750	1312	UTM83-8	WHI11001169	1.2	72	283.3	0.13	2	115	25.21	95
612573	7107250	643702	1306	UTM83-8	WHI11001169	5.1	112	181.7	0.18	1.12	46	62.34	75.4
612574	7107252	643649	1311	UTM83-8	WHI11001169	2.9	96	121.4	0.1	0.94	32	31.24	70.1
612575	7107249	643602	1304	UTM83-8	WHI11001169	4.3	169	78.9	0.1	0.86	42	23.24	86.8
612576	7107248	643551	1316	UTM83-8	WHI11001169	1	66	87	0.08	0.97	41	34.72	78.1
612577	7107246	643500	1332	UTM83-8	WHI11001169	0.7	187	18.5	0.09	0.99	72	42.16	92.3
612578	7107249	643451	1338	UTM83-8	WHI11001169	0.7	110	12.1	0.09	0.49	27	30.28	83.8
612579	7107251	643346	1325	UTM83-8	WHI11001169	0.1	274	11.2	0.07	0.7	48	48.69	83
612580	7107250	643248	1344	UTM83-8	WHI11001169	0.4	142	12.1	0.1	0.47	69	27.95	87
612581	7107253	643198	1349	UTM83-8	WHI11001169	1	99	13.7	0.09	0.66	72	30.41	141.8
612582	7107249	643152	1346	UTM83-8	WHI11001169	0.1	248	12.1	0.11	0.38	50	32.97	120.2
612583	7107252	643098	1334	UTM83-8	WHI11001169	2.4	29	6.5	0.08	0.51	56	17.48	61.5
612584	7107247	643050	1312	UTM83-8	WHI11001169	0.6	82	5.9	0.11	0.41	18	23.11	75.1
612585	7107251	643001	1280	UTM83-8	WHI11001169	0.9	104	5.2	0.09	0.3	31	41.91	70.2
612586	7107252	642951	1254	UTM83-8	WHI11001169	1	297	15.3	0.1	0.63	27	27.05	105.8
612587	7107254	642899	1231	UTM83-8	WHI11001169	1.6	53	47.8	0.12	0.52	34	23.14	61.5
612588	7107250	642847	1209	UTM83-8	WHI11001169	0.1	91	32.6	0.12	0.42	36	21.15	67.7
612589	7107249	642800	1189	UTM83-8	WHI11001169	0.5	28	6.2	0.12	0.35	407	25.17	64.9
612590	7107251	642752	1170	UTM83-8	WHI11001169	0.7	287	12.1	0.12	0.48	513	34.83	83.6
612591	7107251	642702	1148	UTM83-8	WHI11001169	1.3	190	9.1	0.13	0.39	356	29.24	97
612592	7107251	642602	1094	UTM83-8	WHI11001169	1.3	236	12.6	0.14	0.85	348	32.86	95.6
612593	7107250	642550	1069	UTM83-8	WHI11001169	2.7	207	12.3	0.12	1.09	397	33.19	84.8
612594	7107251	642496	1049	UTM83-8	WHI11001169	1.3	187	7	0.11	0.42	269	25.61	86
612595	7110426	354000	1636	UTM83-9	WHI11001169	1.9	154	10.4	0.23	0.85	311	50.05	136.7
612596	7110433	353952	1608	UTM83-9	WHI11001169	15.8	130	26.7	0.17	1.94	204	39.33	348.7
612597	7110284	353934	1638	UTM83-9	WHI11001170	15.9	54	47.9	0.08	3.01	896	21.97	392
612598	7110290	353887	1608	UTM83-9	WHI11001170	12.8	52	43.8	0.1	2.19	418	20.19	154.3
612599	7110294	353836	1589	UTM83-9	WHI11001170	2.7	125	52.7	0.19	1.03	262	29.38	133.9
612600	7110298	353785	1572	UTM83-9	WHI11001170	2.7	110	27.8	0.12	1.67	354	31.65	206.3

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
612601	7108005	644800	1402	UTM83-8	WHI11001169	0.7	114	17.8	0.11	0.57	53	33.6	103.4
612602	7108000	644751	1406	UTM83-8	WHI11001169	0.1	92	15.5	0.11	0.84	35	31.7	132.9
612603	7108000	644700	1417	UTM83-8	WHI11001169	1.7	66	20	0.12	0.64	27	24.49	71.4
612604	7108000	644650	1426	UTM83-8	WHI11001169	0.1	295	13.8	0.12	0.59	38	23.49	131.7
612605	7108003	644598	1426	UTM83-8	WHI11001169	0.1	113	13.8	0.11	0.53	31	38.17	149.2
612606	7108001	644550	1419	UTM83-8	WHI11001169	4.3	157	18	0.11	0.74	57	31.15	78.4
612607	7107999	644498	1419	UTM83-8	WHI11001169	2.8	88	18.1	0.03	0.89	32	26.18	80.9
612608	7108000	644449	1430	UTM83-8	WHI11001169	1.9	133	14	0.15	0.47	73	28.81	89.1
612609	7108000	644396	1447	UTM83-8	WHI11001169	0.5	71	14.2	0.11	0.45	586	25.75	77.9
612610	7107999	644348	1459	UTM83-8	WHI11001169	2.3	168	25	0.13	0.75	259	27.4	69.7
612611	7108001	644299	1468	UTM83-8	WHI11001169	1.3	97	21.4	0.15	0.87	83	19.25	80
612612	7108002	644248	1470	UTM83-8	WHI11001169	0.4	128	76.8	0.08	1.58	162	21.41	258.1
612613	7108001	644203	1472	UTM83-8	WHI11001169	12.5	333	82.3	0.22	2.87	598	22.29	76.3
612614	7108004	644149	1469	UTM83-8	WHI11001169	0.1	91	10.5	0.18	0.39	42	15.35	80.3
612615	7108001	644100	1462	UTM83-8	WHI11001169	1.9	84	22.6	0.16	0.94	117	19.26	87
612616	7107999	643850	1409	UTM83-8	WHI11001169	4.3	154	39.9	0.2	1.12	255	19.56	119.5
612617	7108000	643697	1380	UTM83-8	WHI11001169	3.5	70	15.9	0.11	0.73	132	31.45	117
612618	7108002	643650	1370	UTM83-8	WHI11001169	3.4	70	15.5	0.1	0.42	153	22.61	112.4
612619	7107997	643598	1371	UTM83-8	WHI11001169	5.6	96	1008.6	3.61	1.49	1126	21.24	134.7
612620	7108002	643551	1358	UTM83-8	WHI11001169	2.3	68	120.9	0.26	0.8	256	20.79	112.5
612621	7108000	643502	1331	UTM83-8	WHI11001169	3.5	66	33.8	0.12	1.67	96	31.28	108.9
612622	7108002	643453	1292	UTM83-8	WHI11001169	0.6	89	15.1	0.1	0.81	107	40.03	80.2
612623	7108003	643347	1262	UTM83-8	WHI11001169	1.6	237	22.4	0.1	0.6	528	43.12	106.2
612624	7108003	643247	1211	UTM83-8	WHI11001169	0.7	198	23	0.11	0.44	81	54.08	119
612625	7108001	643202	1179	UTM83-8	WHI11001169	1.2	226	19.3	0.11	0.33	99	33.84	102.6
612626	7108004	643149	1146	UTM83-8	WHI11001169	0.8	195	23.3	0.1	0.37	130	20.34	84.4
612627	7107999	643096	1123	UTM83-8	WHI11001169	1.2	175	20.3	0.11	0.35	116	31.2	107.4
612628	7108000	643053	1103	UTM83-8	WHI11001169	0.4	151	16.1	0.09	0.27	86	24.39	81.6
612629	7107998	642999	1074	UTM83-8	WHI11001169	1	152	16.9	0.09	0.51	96	23.55	80.2
612630	7108004	642895	1027	UTM83-8	WHI11001169	1.2	160	14.4	0.09	0.34	122	22.87	91.4
612631	7107996	642849	1015	UTM83-8	WHI11001169	1.2	172	13.5	0.09	0.39	144	22.46	94.8
612632	7107996	642798	999	UTM83-8	WHI11001169	3	147	13.2	0.09	0.35	111	19.43	90.4
612633	7108000	642748	982	UTM83-8	WHI11001169	1.7	156	11.9	0.1	0.39	123	18.59	98.1
612634	7108000	642700	974	UTM83-8	WHI11001169	1.2	189	11.1	0.1	0.33	122	20.16	90.5
612635	7107999	642654	964	UTM83-8	WHI11001169	1	199	11.5	0.1	0.39	140	22.92	95.7
612636	7107600	643747	1490	UTM83-8	WHI11001169	0.6	92	14.2	0.08	0.57	63	22.21	91.8
612637	7107602	643798	1474	UTM83-8	WHI11001169	1	79	12.5	0.06	0.5	78	19.98	114.2
612638	7107601	643847	1457	UTM83-8	WHI11001169	0.7	91	19.7	0.09	0.87	33	20.84	80.5
612639	7107602	643899	1447	UTM83-8	WHI11001169	2.8	90	22.2	0.11	1.38	103	25.47	102.4
612640	7107603	643946	1434	UTM83-8	WHI11001169	1.4	78	24.4	0.09	1.27	135	14.17	79.2
612641	7107603	644001	1422	UTM83-8	WHI11001169	1.1	86	29.9	0.1	1.26	110	18.87	135.5
612642	7107600	644047	1397	UTM83-8	WHI11001169	2	138	56.9	0.11	0.57	126	23.37	80.4
612643	7107601	644096	1385	UTM83-8	WHI11001169	0.1	115	51.5	0.1	0.56	35	18.88	108.5
612644	7107601	644150	1377	UTM83-8	WHI11001169	0.3	76	21.7	0.1	0.74	38	17.94	91.9
612645	7107603	644196	1370	UTM83-8	WHI11001169	0.2	49	14.9	0.09	0.44	201	22.17	102.4
612646	7107600	644249		UTM83-8	WHI11001169	0.1	50	14.2	0.1	0.6	35	15.62	84.2
612647	7107599	644301	1338	UTM83-8	WHI11001169	0.4	104	11.6	0.07	0.35	26	18.24	80
612648	7107599	643699	1496	UTM83-8	WHI11001169	3.2	112	13.5	0.09	0.72	145	31.16	113.8
612649	7107599	643650	1502	UTM83-8	WHI11001169	1.5	11	56.1	0.07	0.77	21	57.43	94.3
612650	7107602	643601	1507	UTM83-8	WHI11001169	1.4	207	11.8	0.17	0.66	52	25.04	86.1
612651	7108503	644050	1235	UTM83-8	WHI11000951	5.5	152	24.2	0.12	0.86	287	19.95	79.1
612652	7108500	643853	1183	UTM83-8	WHI11000951	8.5	121	24.6	0.13	1.41	372	45.61	91.7
612653	7108499	643800	1169	UTM83-8	WHI11000951	2	43	17.4	0.08	0.61	164	19.36	100.2
612654	7108500	643754	1159	UTM83-8	WHI11000951	2.6	72	31.9	0.12	0.54	280	24.16	90.9
612655	7108502	643702	1152	UTM83-8	WHI11000951	3.7	110	16	0.1	0.81	400	27.34	68
612656	7108501	643648	1150	UTM83-8	WHI11000951	8.1	163	38.4	0.12	0.97	203	22.95	113.6
612657	7108500	643599	1142	UTM83-8	WHI11000951	5	93	14.8	0.08	0.65	187	22.98	80.4
612658	7108498	643551	1126	UTM83-8	WHI11000951	2.9	96	19.7	0.08	0.72	725	26.91	94.1
612659	7108499	643501	1111	UTM83-8	WHI11000951	3.1	108	17.3	0.09	0.7	233	22.15	99.1
612660	7108500	643451	1103	UTM83-8	WHI11000951	10.8	94	54.6	0.06	1.39	91	20.59	99.2
612661	7108498	643400	1106	UTM83-8	WHI11000951	1	29	25.6	0.06	1.01	31	18.75	94.2
612662	7108198	645047	1425	UTM83-8	WHI11000952	0.1	92	13.3	0.08	0.49	35	22.28	69.7

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
612663	7108202	645000	1453	UTM83-8	WHI11000952	8.3	180	36.5	0.06	1.79	70	32.08	82.9
612664	7108201	644945	1482	UTM83-8	WHI11000952	0.8	188	11.6	0.09	0.53	73	36.08	70.7
612665	7108199	644899	1485	UTM83-8	WHI11000952	0.1	50	31.1	0.12	0.76	37	26.53	82.2
612666	7108203	644850	1484	UTM83-8	WHI11000952	0.1	39	15.1	0.06	0.4	40	25.26	40.8
612667	7108200	644799	1477	UTM83-8	WHI11000952	0.3	138	16	0.08	0.65	51	33.88	133.6
612668	7108201	644749	1488	UTM83-8	WHI11000952	0.3	158	14.9	0.09	0.53	25	20.99	67.2
612669	7108201	644699	1500	UTM83-8	WHI11000952	0.1	139	9.8	0.09	0.89	72	21.25	103.6
612670	7108202	644648	1502	UTM83-8	WHI11000952	0.5	77	9.2	0.11	0.72	27	21.74	80
612671	7108200	644602	1506	UTM83-8	WHI11000952	0.1	54	11.6	0.1	0.71	30	24	86.9
612672	7108199	644548	1516	UTM83-8	WHI11000952	0.1	85	10.1	0.1	0.45	39	23.53	115.7
612673	7108201	644501	1527	UTM83-8	WHI11000952	0.1	51	8.8	0.11	0.61	23	25.7	70.6
612674	7108203	644450	1522	UTM83-8	WHI11000952	0.5	104	9.3	0.06	0.46	58	22.22	94.2
612675	7108202	644400	1513	UTM83-8	WHI11000952	7	467	36	0.14	2.16	728	23.59	70.8
612676	7108200	644351	1500	UTM83-8	WHI11000952	29.8	516	59.9	0.22	2.05	897	22.46	92.3
612677	7108202	644304	1471	UTM83-8	WHI11000952	0.1	59	14	0.08	0.78	66	18.06	91.1
612678	7108197	644252	1444	UTM83-8	WHI11000952	12.8	314	164.7	0.17	8.24	397	23.86	95
612679	7108200	644204	1410	UTM83-8	WHI11000952	15.1	137	92	0.24	3.18	335	23.93	117.7
612680	7108199	644104	1351	UTM83-8	WHI11000952	2.7	58	33.1	0.15	1.41	557	22.2	107
612681	7108199	644051	1325	UTM83-8	WHI11000952	4.1	114	27.7	0.13	0.59	186	40.14	118
612682	7108200	644002	1309	UTM83-8	WHI11000952	1.6	97	36.4	0.18	1.02	139	72.3	197.4
612683	7108199	643947	1286	UTM83-8	WHI11000952	6.2	59	17.5	0.16	0.7	152	27.49	117.9
612684	7108198	643903	1277	UTM83-8	WHI11000952	2.7	70	18	0.1	0.52	160	29.14	113.5
612685	7108205	643799	1272	UTM83-8	WHI11000952	3	146	26.7	0.26	0.65	254	39.2	55.7
612686	7108200	643753	1277	UTM83-8	WHI11000952	2.3	35	32	0.08	1.26	52	82.95	99
612687	7108197	643699	1275	UTM83-8	WHI11000952	1.5	32	14.5	0.08	0.49	53	20.48	71.9
612688	7108201	643599	1257	UTM83-8	WHI11000952	3.3	98	919	0.7	1.33	889	25.09	112.8
612689	7108202	643551	1266	UTM83-8	WHI11000952	1.6	39	63.9	0.09	0.63	98	22.94	108.1
612690	7108199	643502	1264	UTM83-8	WHI11000952	9.4	345	403.4	0.35	2.66	480	23.44	105.2
612691	7108203	643453	1245	UTM83-8	WHI11000952	1	109	28.7	0.12	0.58	88	26.05	87.5
612692	7108198	643400	1215	UTM83-8	WHI11000952	0.7	107	26.4	0.08	0.66	114	25.47	76.1
612693	7108199	643349	1185	UTM83-8	WHI11000952	0.7	105	34.5	0.14	0.77	191	24.29	81.5
612694	7108199	643301	1153	UTM83-8	WHI11000952	2.4	101	26.3	0.09	0.44	94	24.52	90.9
612695	7108198	643249	1124	UTM83-8	WHI11000952	2	136	26.4	0.09	0.53	168	21.3	80.5
612696	7108201	643197	1096	UTM83-8	WHI11000952	1.5	143	20.2	0.08	0.45	154	17.37	71.4
612697	7108200	642999		UTM83-8	WHI11000952	3.6	141	145.7	0.34	1.03	327	30.54	93.2
612698	7108201	642898	1000	UTM83-8	WHI11000952	4.7	88	167.3	0.23	1.48	465	28.75	123.2
612699	7108202	642851	991	UTM83-8	WHI11000952	4.4	93	110.7	0.19	1.02	299	26.32	109
612700	7108201	642801	980	UTM83-8	WHI11000952	2.3	97	138.8	0.24	1.02	296	31.68	99.8
612701	7108601	645501	1354	UTM83-8	WHI11000950	2.3	70	14.5	0.08	0.69	67	28.24	99.1
612702	7108600	645449		UTM83-8	WHI11000950	1.6	30	10.4	0.1	0.48	45	18.35	57.9
612703	7108597	645402	1373	UTM83-8	WHI11000950	1.7	68	25	0.08	0.4	30	46.89	54.5
612704	7108606	645347	1395	UTM83-8	WHI11000950	2.5	82	27.6	0.07	0.76	28	31.39	81.6
612705	7108599	645302	1404	UTM83-8	WHI11000950	0.9	142	12.5	0.08	0.29	79	48.73	101.3
612706	7108598	645250	1429	UTM83-8	WHI11000950	1.6	101	15.7	0.08	0.39	113	46.75	94.6
612707	7108598	645201	1453	UTM83-8	WHI11000950	2	123	18.5	0.08	0.74	82	42.58	111.4
612708	7108601	645145	1487	UTM83-8	WHI11000950	0.8	227	21.1	0.12	0.29	47	74.96	74.4
612709	7108602	645047	1524	UTM83-8	WHI11000950	1.2	27	9.8	0.14	0.73	25	26.09	61.6
612710	7108598	644998	1519	UTM83-8	WHI11000950	0.6	47	10.6	0.09	0.59	39	25.36	71
612711	7108600	644950	1489	UTM83-8	WHI11000950	1.8	93	12.2	0.11	0.6	46	71.37	87.5
612712	7108598	644898	1468	UTM83-8	WHI11000950	0.8	63	12.5	0.11	0.72	39	32.83	98.6
612713	7108601	644403	1418	UTM83-8	WHI11000950	3.3	73	27.4	0.1	1.11	116	30.53	113.9
612714	7108602	644351	1391	UTM83-8	WHI11000950	2.1	59	14.7	0.08	0.85	54	37.38	109.5
612715	7108600	644300	1366	UTM83-8	WHI11000950	1.4	57	13.8	0.07	0.74	38	12.03	75.7
612716	7108604	644253	1344	UTM83-8	WHI11000950	3.3	72	13.6	0.14	0.65	67	17.92	55.6
612717	7108599	644195	1318	UTM83-8	WHI11000951	0.7	39	13.8	0.11	0.4	76	24.55	72.6
612718	7108600	644146	1291	UTM83-8	WHI11000951	1.3	50	13.4	0.1	0.39	60	32.86	65.7
612719	7108602	644099	1264	UTM83-8	WHI11000951	1.2	81	17	0.09	0.45	112	32.92	91.1
612720	7108600	644050	1233	UTM83-8	WHI11000951	1.7	108	46	0.19	0.69	186	26.12	82.6
612721	7108598	644000	1209	UTM83-8	WHI11000951	1.3	62	17.3	0.1	0.36	126	19.73	86
612722	7108598	643951	1193	UTM83-8	WHI11000951	2.5	104	15.9	0.07	0.62	449	29.57	79.5
612723	7108595	643752	1134	UTM83-8	WHI11000951	4.5	114	13.9	0.08	0.52	438	22.07	88.7
612724	7108605	643700	1122	UTM83-8	WHI11000951	14.4	74	43.9	0.09	3.87	122	39.76	102.3

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
612725	7108603	643651	1120	UTM83-8	WHI11000951	2.5	50	37.8	0.1	0.92	163	35.3	103.1
612726	7108598	643500	1085	UTM83-8	WHI11000951	2	80	16.3	0.06	0.87	207	27.8	104.7
612727	7108501	645447	1326	UTM83-8	WHI11000951	1.7	43	9.5	0.06	0.69	58	32.74	111.2
612728	7108505	645395	1314	UTM83-8	WHI11000951	2.3	94	15.2	0.08	0.58	49	35.69	104.1
612729	7108500	645302	1367	UTM83-8	WHI11000951	0.7	147	9.8	0.08	0.44	42	72.82	149.1
612730	7108500	645249	1398	UTM83-8	WHI11000951	1.5	138	12.4	0.15	0.42	232	72.62	108
612731	7108503	645198	1432	UTM83-8	WHI11000951	0.2	84	8.3	0.08	0.51	24	27.74	104.4
612732	7108501	645154	1460	UTM83-8	WHI11000951	0.6	95	11.5	0.08	0.45	24	35.94	122.7
612733	7108502	645102	1489	UTM83-8	WHI11000951	0.1	50	9.5	0.09	0.51	21	23.78	77.6
612734	7108499	645051	1511	UTM83-8	WHI11000951	1.4	46	12.7	0.1	0.71	14	31.85	83.5
612735	7108499	645002	1516	UTM83-8	WHI11000951	1.3	29	10.3	0.16	0.84	24	15.65	70.7
612736	7108502	644948	1514	UTM83-8	WHI11000951	2	43	12	0.13	0.87	25	21.83	68.1
612737	7108502	644898	1509	UTM83-8	WHI11000951	0.9	28	13.1	0.1	0.86	17	24.81	89
612738	7108500	644851	1513	UTM83-8	WHI11000951	1.2	22	11.9	0.09	0.76	21	22.31	73.8
612739	7108502	644800	1518	UTM83-8	WHI11000951	1.1	117	12.1	0.09	0.54	93	27.13	88.7
612740	7108500	644747	1522	UTM83-8	WHI11000951	0.6	39	10.7	0.1	0.56	34	21.9	90.1
612741	7108498	644697	1522	UTM83-8	WHI11000951	0.5	19	11.6	0.11	0.69	27	18.44	62
612742	7108501	644648	1524	UTM83-8	WHI11000951	1.6	39	14.3	0.11	1	40	17.78	65.3
612743	7108500	644600	1519	UTM83-8	WHI11000951	5.6	78	19.1	0.11	1.59	629	17.3	78.4
612744	7108498	644549	1512	UTM83-8	WHI11000951	4.4	64	17	0.11	1.45	934	20.28	86.8
612745	7108498	644353	1385	UTM83-8	WHI11000951	30.5	101	69.6	0.1	4.44	50	42.77	142.3
612746	7108500	644299	1357	UTM83-8	WHI11000951	8.1	96	50.8	0.09	3.91	35	32.66	117.2
612747	7108500	644252	1332	UTM83-8	WHI11000951	39.6	133	73.1	0.14	10.18	251	39.89	95.5
612748	7108499	644197	1308	UTM83-8	WHI11000951	17.9	96	68	0.12	10.81	192	41.77	48.8
612749	7108499	644147	1288	UTM83-8	WHI11000951	4.9	113	39.9	0.34	1.96	315	35.79	47.9
612750	7108499	644100	1260	UTM83-8	WHI11000951	3	50	16.5	0.09	0.37	50	29.64	85.5
612751	7110376	354547	1587	UTM83-9	WHI11000951	5.1	40	28.2	0.14	1.41	106	31.43	112.2
612752	7110374	354595	1568	UTM83-9	WHI11000951	4.7	99	18.5	0.1	1.21	585	21.17	257.6
612753	7110369	354645	1550	UTM83-9	WHI11000951	6.1	67	21.9	0.05	0.96	49	11.48	98.3
612754	7110365	354695	1542	UTM83-9	WHI11000951	1	122	9.5	0.08	0.59	140	20.57	114.7
612755	7110358	354745	1549	UTM83-9	WHI11000951	4.7	122	11	0.08	0.74	117	31.09	294.9
612756	7110355	354792	1560	UTM83-9	WHI11000951	4.2	87	14	0.07	0.89	63	33.01	85
612757	7108152	644998	1454	UTM83-8	WHI11000952	0.1	251	10.1	0.12	0.53	62	41.09	81.1
612758	7108151	644951	1469	UTM83-8	WHI11000952	1.4	69	9.7	0.13	0.39	22	22.64	74.7
612759	7108149	644895	1465	UTM83-8	WHI11000952	0.6	50	22	0.07	0.57	23	16.65	70
612760	7108152	644849	1460	UTM83-8	WHI11000952	0.7	123	119.2	0.13	1.04	113	23.14	80.5
612761	7108150	644796	1463	UTM83-8	WHI11000952	0.8	190	19.8	0.11	0.67	33	35.77	122.6
612762	7108150	644749	1473	UTM83-8	WHI11000952	2.6	93	16	0.13	0.55	38	29.25	78.1
612763	7108151	644699	1486	UTM83-8	WHI11000952	0.8	158	14.1	0.1	0.57	62	47.76	98.8
612764	7108152	644647	1490	UTM83-8	WHI11000952	1.5	59	25.7	0.13	0.78	43	30.2	86.3
612765	7108151	644599	1487	UTM83-8	WHI11000952	0.1	187	9.2	0.08	0.56	72	26.66	126.9
612766	7108150	644549	1502	UTM83-8	WHI11000952	1.4	116	12.6	0.1	0.47	72	29.21	107.2
612767	7108149	644496	1513	UTM83-8	WHI11000952	0.7	81	7.8	0.1	0.35	39	30.18	88
612768	7108150	644449	1511	UTM83-8	WHI11000952	2.3	152	14.6	0.09	0.47	252	30.16	101
612769	7108150	644396	1500	UTM83-8	WHI11000952	4.2	222	25.6	0.11	2.71	659	19.1	152.4
612770	7108151	644350	1498	UTM83-8	WHI11000952	3.5	49	56.5	0.2	3.13	402	21.93	73.9
612771	7108150	644299	1489	UTM83-8	WHI11000952	21.4	371	378	0.23	18.77	2072	21.07	99.8
612772	7108151	644200	1441	UTM83-8	WHI11000952	3.6	112	19.7	0.13	0.63	196	17.71	101.3
612773	7108151	644148	1409	UTM83-8	WHI11000952	4	106	23.6	0.14	0.82	202	21.87	107.7
612774	7108154	644100	1387	UTM83-8	WHI11000952	3	59	9.1	0.09	0.34	63	20.97	117.4
612775	7108150	644050	1380	UTM83-8	WHI11000952	4.6	61	10.8	0.15	0.29	64	26.02	118
612776	7108150	643998	1338	UTM83-8	WHI11000952	3.8	88	64.7	0.72	0.95	612	33.4	87.1
612777	7108152	643950	1317	UTM83-8	WHI11000952	2.6	71	13.8	0.1	0.61	178	29.4	121.3
612778	7108149	643898	1303	UTM83-8	WHI11000952	3.6	58	31.7	0.1	0.64	179	19.79	101
612779	7108150	643850	1292	UTM83-8	WHI11000952	5.3	86	39.4	0.14	0.81	205	46.79	124.6
612780	7108149	643799	1298	UTM83-8	WHI11000952	3.5	73	18.3	0.07	0.62	152	18.06	85.8
612781	7108151	643750	1295	UTM83-8	WHI11000952	2.7	50	22.5	0.1	1.01	87	30.38	102.9
612782	7108148	643697	1277	UTM83-8	WHI11000952	10.3	77	37.7	0.17	1.52	131	29.85	124.1
612783	7108151	643650	1278	UTM83-8	WHI11000952	3.1	41	17.5	0.11	0.73	29	26.63	107.6
612784	7108150	643550	1274	UTM83-8	WHI11000952	3	108	239.5	0.55	0.91	417	17.54	66.5
612785	7108148	643498	1281	UTM83-8	WHI11000952	3.3	183	42.7	0.11	2.1	569	31.5	84.3
612786	7108151	643400	1232	UTM83-8	WHI11000952	1.4	139	38.2	0.09	1.4	206	21.2	87.6

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
612787	7108149	643349	1203	UTM83-8	WHI11000952	0.1	95	17	0.01	0.66	99	27.5	90.2
612788	7108146	643300	1172	UTM83-8	WHI11000952	0	0	0	0	0	0	0	0
612789	7108156	643252		UTM83-8	WHI11000952	0.8	151	53.1	0.27	1.07	183	102.22	139.2
612790	7108153	643199	1115	UTM83-8	WHI11000952	0.1	189	26.1	0.11	0.81	86	52.36	94.3
612791	7108151	643147	1093	UTM83-8	WHI11000952	0.1	200	29.8	0.09	0.41	163	28.08	70.7
612792	7108153	643099	1071	UTM83-8	WHI11000952	0.5	119	26.3	0.07	0.59	129	20.2	82.5
612793	7108152	643051	1048	UTM83-8	WHI11000952	3.4	117	195	0.36	1.27	306	28.38	100.1
612794	7108153	642999	1034	UTM83-8	WHI11000952	5.6	83	59.3	0.1	1.28	173	29.99	81.4
612795	7108148	642947	1023	UTM83-8	WHI11000952	1	81	10.6	0.07	0.42	86	23.72	118.8
612796	7108150	642896	1002	UTM83-8	WHI11000952	0.8	100	12.5	0.05	0.4	68	25.95	82.6
612797	7107951	644747	1380	UTM83-8	WHI11001025	0.4	291	12.8	0.11	0.4	48	27.58	133
612798	7107952	644698	1389	UTM83-8	WHI11001025	0.1	105	5.2	0.09	0.29	31	20.06	109.8
612799	7107952	644648	1398	UTM83-8	WHI11001025	0.8	253	14.3	0.13	0.66	46	42.11	90.4
612800	7107952	644602	1401	UTM83-8	WHI11001025	0.1	37	14.5	0.08	0.38	22	17.38	72.3
612801	7108556	645494	1351	UTM83-8	WHI11000950	2.3	116	12.5	0.1	0.82	98	30.18	135.3
612802	7108552	645450	1335	UTM83-8	WHI11000950	2	124	12	0.07	0.78	84	32.64	116.2
612803	7108556	645397	1337	UTM83-8	WHI11000950	0.6	201	17.1	0.1	1.17	75	33.77	95.5
612804	7108548	645353	1360	UTM83-8	WHI11000950	0.3	269	11.1	0.07	0.54	37	30.25	221
612805	7108545	645303	1392	UTM83-8	WHI11000950	1.2	213	12.9	0.09	0.55	179	31.81	96.1
612806	7108554	645200	1445	UTM83-8	WHI11000950	0.7	115	12.5	0.09	0.53	46	41.91	112.1
612807	7108540	645149		UTM83-8	WHI11000950	1	47	14.9	0.09	0.67	26	37.24	85.7
612808	7108557	645097	1502	UTM83-8	WHI11000950	1	220	20.8	0.14	0.73	62	60.57	95.9
612809	7108553	645049	1525	UTM83-8	WHI11000950	0.8	70	10.5	0.09	0.68	38	22.21	58.7
612810	7108549	644995	1519	UTM83-8	WHI11000950	0.4	49	7.3	0.12	0.83	35	13.41	56.6
612811	7108550	644948	1511	UTM83-8	WHI11000950	2.6	55	12.9	0.12	0.71	44	27.79	92.2
612812	7108546	644901	1500	UTM83-8	WHI11000950	1.2	55	10.7	0.12	0.61	38	21.32	74.7
612813	7108551	644850	1490	UTM83-8	WHI11000950	0.7	43	11.8	0.13	0.73	32	19.33	70.3
612814	7108548	644801	1490	UTM83-8	WHI11000950	1.5	122	14.3	0.08	0.53	75	29.54	93.9
612815	7108553	644751	1494	UTM83-8	WHI11000950	1.3	94	7.6	0.05	0.43	69	24.11	99
612816	7108552	644701	1510	UTM83-8	WHI11000950	3.1	139	17.8	0.13	1.58	166	19.01	78.3
612817	7108551	644649	1514	UTM83-8	WHI11000950	5.7	132	26.3	0.11	3.07	233	19.08	81.1
612818	7108549	644601	1513	UTM83-8	WHI11000950	0.6	44	27.9	0.08	0.96	326	14.13	103.5
612819	7108549	644547	1500	UTM83-8	WHI11000950	1.8	74	29.9	0.09	1.75	109	20.19	105.7
612820	7108555	644501	1476	UTM83-8	WHI11000950	15.3	150	85.8	0.4	3.06	331	31.43	125.3
612821	7108550	644401	1415	UTM83-8	WHI11000950	5.3	123	25.9	0.11	1.82	154	31.51	121.5
612822	7108552	644355	1379	UTM83-8	WHI11000950	5.5	131	41.1	0.15	3.26	253	40.69	104.6
612823	7108549	644302	1349	UTM83-8	WHI11000950	3.4	74	33.6	0.16	1.32	83	47.46	113.5
612824	7108551	644248	1316	UTM83-8	WHI11000950	6.8	183	26.8	0.89	1.4	364	71.16	131.9
612825	7108549	644202	1289	UTM83-8	WHI11000950	5.1	136	34.8	0.15	1.25	138	46.82	103.2
612826	7108547	644154	1279	UTM83-8	WHI11000950	0.9	93	28.9	0.15	1.57	146	35.05	98.6
612827	7108554	644102	1252	UTM83-8	WHI11000950	15.6	131	47.7	0.17	3.53	145	86.37	126
612828	7108552	644054	1237	UTM83-8	WHI11000950	22.2	63	45.9	0.09	7.65	117	20.98	45.9
612829	7108557	644005	1215	UTM83-8	WHI11000950	18.2	98	43.2	0.09	5.08	139	21.65	74.8
612830	7108551	643902	1185	UTM83-8	WHI11000950	3.5	86	10.6	0.12	0.56	111	24.5	63.5
612831	7108552	643852	1171	UTM83-8	WHI11000950	4.2	34	24.9	0.12	1.57	187	18.91	83
612832	7108550	643802	1159	UTM83-8	WHI11000950	3.6	72	39	0.16	1.09	460	30.12	99.3
612833	7108550	643744	1151	UTM83-8	WHI11000950	3.3	77	27.5	0.15	0.7	260	23.05	98.8
612834	7108548	643701	1139	UTM83-8	WHI11000950	5.4	28	17.3	0.09	0.52	115	25.03	107.6
612835	7108552	643649	1135	UTM83-8	WHI11000950	11.6	86	31	0.11	0.72	209	21.18	80.4
612836	7108553	643601	1130	UTM83-8	WHI11000950	7.8	102	23.5	0.12	0.99	260	38.11	100.8
612837	7108550	643546	1113	UTM83-8	WHI11000950	3.6	141	13.7	0.11	0.77	191	21.26	77.7
612838	7108552	643500	1099	UTM83-8	WHI11000950	3.5	140	11	0.1	0.57	263	20.83	86.9
612839	7108550	643398	1081	UTM83-8	WHI11000950	6.8	95	32.3	0.06	1.11	83	19.07	88.6
612840	7108552	643348	1075	UTM83-8	WHI11000950	4.7	103	19	0.13	1.75	108	62.48	84.8
612841	7110420	354048	1656	UTM83-9	WHI11000951	6.9	119	23.5	0.09	2.67	540	33.41	178.3
612842	7110419	354096	1643	UTM83-9	WHI11000951	3.3	111	25.2	0.08	2.63	563	31.99	270.7
612843	7110417	354145	1648	UTM83-9	WHI11000951	115.7	175	330.7	0.11	3.67	558	49.35	324.4
612844	7110411	354194	1664	UTM83-9	WHI11000951	14.6	88	38.5	0.07	2.63	1240	25.79	188.1
612845	7110405	354249	1673	UTM83-9	WHI11000951	7.8	104	37.9	0.08	1.5	235	24.29	115.3
612846	7110400	354296	1673	UTM83-9	WHI11000951	14.7	134	39.7	0.09	1.29	163	23.7	105.9
612847	7110396	354345	1663	UTM83-9	WHI11000951	8.4	67	27.1	0.06	1.04	73	16.02	65
612848	7110391	354397	1649	UTM83-9	WHI11000951	5.3	144	24.5	0.1	1.69	305	33.43	207.1

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
612849	7110386	354445	1635	UTM83-9	WHI11000951	3.8	151	23.2	0.09	2.11	747	47.15	661
612850	7110385	354493	1610	UTM83-9	WHI11000951	0.9	43	8.8	0.1	0.51	37	29.03	30.6
612851	7110453	643596	1146	UTM83-8	WHI11001171	0.4	70	12.6	0.08	0.4	27	26.1	81
612852	7110450	643650	1257	UTM83-8	WHI11001171	1	66	17.3	0.1	0.45	35	36.55	77.5
612853	7110447	643699	1215	UTM83-8	WHI11001171	0.6	69	16.7	0.11	0.42	23	32.66	87.5
612854	7110454	643753	1259	UTM83-8	WHI11001171	0.9	288	14.6	0.17	0.69	59	170.23	142.1
612855	7109879	353998	1859	UTM83-9	WHI11001171	3.3	238	8.7	0.23	0.36	340	25.24	109.3
612856	7109873	354045	1850	UTM83-9	WHI11001171	3.7	186	10.3	0.19	0.54	113	21.09	89.1
612857	7109868	354094	1843	UTM83-9	WHI11001171	4.2	88	15.6	0.18	0.9	115	17.95	89
612858	7109864	354145	1827	UTM83-9	WHI11001171	9.3	150	43.4	0.18	1.44	817	23.39	123.8
612859	7109859	354194	1803	UTM83-9	WHI11001171	5.9	150	42.2	0.21	1.46	455	23.7	139.8
612860	7109854	354245	1765	UTM83-9	WHI11001171	4.5	127	26.5	0.22	0.78	290	26.51	121.5
612861	7109849	354293	1735	UTM83-9	WHI11001171	5.6	75	162.6	0.21	2.98	531	40.72	228.7
612862	7109844	354346	1715	UTM83-9	WHI11001171	5.7	214	51.5	0.17	2.02	518	55.12	158.8
612863	7109839	354395	1700	UTM83-9	WHI11001171	4.7	59	44.9	0.17	1.1	241	20.98	59.6
612864	7109830	354447	1671	UTM83-9	WHI11001171	3.8	116	153.5	0.17	1.33	282	33.98	337.4
612865	7109824	354494	1649	UTM83-9	WHI11001171	4.7	153	106.2	0.24	6.95	341	62.33	79
612866	7109825	354544	1614	UTM83-9	WHI11001171	14.7	61	128.5	0.17	1.9	1159	18.78	633.6
612867	7109822	354589	1602	UTM83-9	WHI11001171	1.6	25	7.5	0.16	0.12	113	18.23	23.1
612868	7109817	354639	1559	UTM83-9	WHI11001171	4.3	74	24.6	0.14	0.52	128	33.17	154.7
612869	7109809	354688	1521	UTM83-9	WHI11001171	5.1	99	18.3	0.15	0.95	116	21.8	143.6
612870	7110276	354034	1715	UTM83-9	WHI11001171	5.7	71	38.7	0.14	1.45	206	32.95	127
612871	7110272	354084	1730	UTM83-9	WHI11001171	9.1	131	42.8	0.14	1.62	605	32.19	196.5
612872	7110265	354179	1729	UTM83-9	WHI11001171	6	105	22.4	0.07	1.38	424	24.56	180.2
612873	7110257	354229	1728	UTM83-9	WHI11001171	3.7	52	10.2	0.04	0.84	104	10.85	38.7
612874	7110253	354283	1714	UTM83-9	WHI11001171	5.7	140	25	0.08	2.24	248	31.6	152.3
612875	7110247	354332	1701	UTM83-9	WHI11001171	3.1	127	18.7	0.06	1.72	1059	15.59	520.4
612876	7110243	354381	1684	UTM83-9	WHI11001171	3	99	9.6	0.05	5.4	404	27.55	214.2
612877	7110241	354431	1652	UTM83-9	WHI11001171	4.6	60	10	0.02	4.46	527	16.2	220.1
612878	7110234	354479	1623	UTM83-9	WHI11001171	3.7	59	10.6	0.03	3.73	2150	24.41	597
612879	7110230	354532	1599	UTM83-9	WHI11001171	8.7	211	19.9	0.06	2.99	1827	31.79	1323.1
612880	7110224	354578	1580	UTM83-9	WHI11001171	1.2	49	19	0.1	1.48	89	43.87	153.9
612881	7110222	354631	1556	UTM83-9	WHI11001171	2	48	11.7	0.1	0.56	67	25.06	52.4
612882	7110215	354679	1536	UTM83-9	WHI11001171	1.2	46	8.7	0.08	0.46	41	23.19	44.6
612883	7110209	354729	1513	UTM83-9	WHI11001171	0.7	32	6.8	0.08	0.41	62	20.99	41.9
612884	7109429	354506	1560	UTM83-9	WHI11001171	1.7	148	18.7	0.09	0.79	336	40.03	113.3
612885	7109379	354502	1534	UTM83-9		0	0	0	0	0	0	0	0
612886	7109330	354497	1518	UTM83-9	WHI11001171	4.7	89	99.7	0.1	2.4	219	36.38	112.6
612887	7109279	354491	1493	UTM83-9		0	0	0	0	0	0	0	0
612888	7109230	354487	1491	UTM83-9		0	0	0	0	0	0	0	0
612889	7109179	354481	1483	UTM83-9	WHI11001171	3.8	252	20	0.14	1.76	330	24.93	121
612890	7109132	354478	1465	UTM83-9		0	0	0	0	0	0	0	0
612891	7109083	354472	1448	UTM83-9	WHI11001171	7	83	18.7	0.06	1.28	231	22.43	191.3
612892	7109423	354556	1524	UTM83-9		0	0	0	0	0	0	0	0
612893	7109376	354550	1505	UTM83-9		0	0	0	0	0	0	0	0
612894	7109325	354545	1483	UTM83-9		0	0	0	0	0	0	0	0
612895	7109275	354541	1459	UTM83-9	WHI11001171	4.1	115	83	0.11	1.49	309	42.96	129.5
612896	7109224	354536	1447	UTM83-9	WHI11001171	30.4	153	41.1	0.06	8.71	501	84.45	254.7
612897	7109177	354532	1438	UTM83-9		0	0	0	0	0	0	0	0
612898	7109126	354528	1422	UTM83-9		0	0	0	0	0	0	0	0
612899	7109077	354522	1408	UTM83-9		0	0	0	0	0	0	0	0
612900	7109027	354518	1394	UTM83-9		0	0	0	0	0	0	0	0
612901	7107949	644548	1397	UTM83-8	WHI11001169	2.2	44	15.5	0.12	0.45	28	20.99	104.2
612902	7107950	644500	1393	UTM83-8	WHI11001169	1.4	146	10.1	0.1	0.59	25	21.73	78.9
612903	7107952	644450	1408	UTM83-8	WHI11001169	0.7	56	18.2	0.15	0.69	26	19.27	87.3
612904	7107949	644396	1432	UTM83-8	WHI11001169	1.1	54	13.3	0.09	0.28	39	24.57	127.7
612905	7107952	644348	1440	UTM83-8	WHI11001169	2.1	109	21	0.13	0.73	242	28.04	82.4
612906	7107953	644298	1455	UTM83-8	WHI11001169	1.4	160	28.4	0.16	0.7	328	23.49	95.6
612907	7107952	644199	1454	UTM83-8	WHI11001169	3.8	140	76.9	0.17	2.52	259	19.17	107.4
612908	7107950	644146	1455	UTM83-8	WHI11001169	6.3	376	114.9	0.11	2.28	367	22.72	138.3
612909	7107949	644099	1463	UTM83-8	WHI11001169	3.1	171	75.5	0.12	1.26	194	18.25	158.1
612910	7107949	644048	1479	UTM83-8	WHI11001169	2.9	44	17.3	0.12	0.64	82	14.88	90.5

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
612911	7107951	643995	1482	UTM83-8	WHI11001169	0.3	32	5.4	0.1	0.36	25	15.52	65.4
612912	7107950	643951	1466	UTM83-8	WHI11001169	2.7	75	30	0.09	1.01	157	20.49	103.9
612913	7107950	643899	1455	UTM83-8	WHI11001169	3	86	24.6	0.11	0.58	224	29.4	102
612914	7107951	643849	1443	UTM83-8	WHI11001169	3.8	103	27.3	0.13	0.81	101	18.53	106.1
612915	7107950	643750	1428	UTM83-8	WHI11001169	7.7	132	124.3	0.36	1.97	232	20.76	145.9
612916	7107950	643699	1421	UTM83-8	WHI11001169	2.5	49	7.3	0.09	0.53	57	21.2	121.3
612917	7107951	643649	1415	UTM83-8	WHI11001169	3	83	88.4	0.1	1.09	258	34.92	130.4
612918	7107949	643599	1410	UTM83-8	WHI11001169	1.9	55	14.5	0.07	0.38	65	21.49	111.2
612919	7107952	643549	1380	UTM83-8	WHI11001169	2.3	57	14.5	0.08	0.48	81	23.68	119.6
612920	7107951	643500	1347	UTM83-8	WHI11001169	2.5	59	14.4	0.07	0.58	101	22.6	106.3
612921	7107949	643450	1304	UTM83-8	WHI11001169	1.4	218	30.2	0.12	0.67	168	47.02	100.4
612922	7107951	643401	1298	UTM83-8	WHI11001169	0.5	426	33.6	0.18	1.03	292	97.14	131.7
612923	7107951	643351	1286	UTM83-8	WHI11001169	1.4	396	67.5	0.15	0.74	97	100.95	157.3
612924	7107952	643202	1179	UTM83-8	WHI11001169	0.3	149	15.9	0.08	0.31	74	36.37	97.5
612925	7107953	643000	1092	UTM83-8	WHI11001169	0.8	175	20.7	0.09	0.39	113	26.38	85.5
612926	7107950	642897	1045	UTM83-8	WHI11001169	0.4	182	13.4	0.1	0.3	122	22.55	98.6
612927	7107953	642847	1025	UTM83-8	WHI11001169	0.3	160	13.7	0.08	0.3	119	19.87	86.7
612928	7107951	642802	1012	UTM83-8	WHI11001169	0.7	169	8.6	0.08	0.33	122	16.62	76.3
612929	7107952	642749	1001	UTM83-8	WHI11001169	0.9	146	10.3	0.09	0.32	118	20.32	91.4
612930	7107953	642697	994	UTM83-8	WHI11001169	1	231	10.5	0.12	0.39	158	18.45	83.3
612931	7107949	642649	991	UTM83-8	WHI11001169	0.2	138	3.4	0.07	0.23	122	15.66	80.8
612932	7107949	642600	968	UTM83-8	WHI11001169	0.1	149	6.1	0.07	0.27	81	19.89	82.1
612933	7107750	643699	1525	UTM83-8	WHI11001169	15.2	292	1579.2	0.59	4.85	979	23.74	125
612934	7107751	643747	1525	UTM83-8	WHI11001169	2.4	193	20.3	0.12	0.68	129	17.23	62.4
612935	7107750	643798	1513	UTM83-8	WHI11001169	0.8	25	14.8	0.15	0.6	64	11.06	57.3
612936	7107753	643850	1507	UTM83-8	WHI11001169	1	24	32.5	0.12	1.27	195	16.12	77.1
612937	7107749	643898	1496	UTM83-8	WHI11001169	0.9	74	28	0.14	1.1	85	18.69	83.7
612938	7107749	643949	1484	UTM83-8	WHI11001169	0.5	63	25.3	0.12	1.05	54	14.25	83.8
612939	7107750	643999	1478	UTM83-8	WHI11001169	0.1	62	21.1	0.1	0.78	59	21.45	84.4
612940	7107751	644050	1467	UTM83-8	WHI11001169	0.1	64	14.5	0.07	0.37	43	29.59	69.4
612941	7107753	644099	1454	UTM83-8	WHI11001169	0.2	149	19.9	0.1	0.69	61	20.6	84.9
612942	7107753	644149	1440	UTM83-8	WHI11001169	0.1	50	29.4	0.07	0.45	36	27.05	85.2
612943	7107750	644199	1415	UTM83-8	WHI11001169	0.4	120	66.9	0.1	0.5	69	27.6	73.6
612944	7107751	644248	1397	UTM83-8	WHI11001169	0.1	147	515.3	0.15	0.87	60	26.23	111.8
612945	7107747	644299	1377	UTM83-8	WHI11001169	0.1	65	72.9	0.14	2.48	131	16.97	70.4
612946	7107751	644400	1376	UTM83-8	WHI11001169	3.2	131	22.6	0.09	0.81	33	24.5	91.5
612947	7107751	644448	1361	UTM83-8	WHI11001169	0.8	65	20.8	0.08	0.87	50	24.31	122.1
612948	7107750	644496	1344	UTM83-8	WHI11001169	0.9	132	10.6	0.11	0.43	22	21.51	63.1
612949	7107749	643649	1514	UTM83-8	WHI11001169	21.4	235	115	0.16	4.16	481	28.98	86.5
612950	7107748	643600	1476	UTM83-8	WHI11001169	7	125	85.3	0.59	2.9	188	31.64	123.2
612951	7108899	643648	1216	UTM83-8	WHI11000950	3.9	52	7.9	0.13	0.69	68	15.11	81.3
612952	7108899	643600	1198	UTM83-8	WHI11000950	1.1	35	2.7	0.1	0.22	34	22.79	85.7
612953	7108649	645650	1432	UTM83-8	WHI11000950	0.9	91	8.9	0.13	0.62	48	14.48	60.5
612954	7108649	645600	1406	UTM83-8	WHI11000950	3.3	33	10.4	0.1	0.74	35	18.65	65
612955	7108650	645549	1383	UTM83-8	WHI11000950	3.1	135	9.1	0.1	0.84	91	17.3	110.7
612956	7108651	645498	1365	UTM83-8	WHI11000950	1.2	107	10.7	0.12	0.41	49	28.87	91.7
612957	7108651	645450	1384	UTM83-8	WHI11000950	0.7	238	7.1	0.12	0.28	51	30.1	97.2
612958	7108652	645400	1404	UTM83-8	WHI11000950	27.6	134	18.9	0.12	0.97	210	24.07	31.4
612959	7108650	645351	1419	UTM83-8	WHI11000950	12.3	175	26.1	0.14	2.56	177	29.31	63.3
612960	7108653	645300	1435	UTM83-8	WHI11000950	1.4	149	13.1	0.11	0.44	67	29.59	78.3
612961	7108650	645247	1456	UTM83-8	WHI11000950	0.9	78	19	0.13	0.47	185	35.1	92.3
612962	7108652	645198	1476	UTM83-8	WHI11000950	0.7	36	18.4	0.07	0.61	47	33.18	104.8
612963	7108653	645148	1507	UTM83-8	WHI11000950	4.5	229	41.9	0.16	0.66	77	53.85	106.3
612964	7108652	645098	1527	UTM83-8	WHI11000950	1.2	87	11.2	0.17	0.7	31	22.93	56.5
612965	7108652	645049	1524	UTM83-8	WHI11000950	1.6	53	11.3	0.13	0.89	36	23.3	79.9
612966	7108650	645000	1501	UTM83-8	WHI11000950	1.1	67	14.2	0.14	0.53	60	53.02	84.3
612967	7108652	644946	1475	UTM83-8	WHI11000950	0.8	57	9.4	0.09	0.43	44	22.57	74
612968	7108653	644897	1455	UTM83-8	WHI11000950	1	52	10.6	0.11	0.67	55	30.58	84.9
612969	7108652	644797	1441	UTM83-8	WHI11000950	1.3	66	13.2	0.06	0.79	177	26.12	110.1
612970	7108651	644700	1474	UTM83-8	WHI11000950	11.5	206	24.2	0.09	6.68	1060	20.77	90.2
612971	7108648	644649	1471	UTM83-8	WHI11000950	32.8	163	87.2	0.21	10.58	928	22.43	120.7
612972	7108649	644597	1458	UTM83-8	WHI11000950	16.9	115	100.4	0.28	3.37	473	24.89	140.2

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
612973	7108651	644448	1436	UTM83-8	WHI11000950	3.2	55	21.3	0.1	1.17	224	19.03	100.4
612974	7108651	644396	1420	UTM83-8	WHI11000950	2.1	28	10.5	0.08	0.83	58	33.43	118.8
612975	7108650	644347	1395	UTM83-8	WHI11000950	3.5	76	14	0.1	0.65	62	23.1	92.5
612976	7108649	644299	1373	UTM83-8	WHI11000950	3.7	65	19	0.13	1.2	196	40.55	90.7
612977	7108649	644248	1344	UTM83-8	WHI11000950	2.3	98	105.8	0.42	3.8	1457	34.02	96.6
612978	7108651	644203	1324	UTM83-8	WHI11000950	1.5	18	30	0.12	0.53	140	25.3	74.5
612979	7108651	644100	1271	UTM83-8	WHI11000950	1.2	31	26.4	0.09	0.44	130	24.02	79.9
612980	7108650	643998	1236	UTM83-8	WHI11000950	3.3	139	12	0.08	0.52	164	20.45	81.4
612981	7108651	643950	1222	UTM83-8	WHI11000950	2.6	84	12.1	0.08	0.57	144	21.46	77.2
612982	7108653	643897	1201	UTM83-8	WHI11000950	3.2	85	10.9	0.06	0.53	163	20.16	73.2
612983	7108648	643850	1173	UTM83-8	WHI11000950	2	104	7.7	0.07	0.39	176	17.04	68
612984	7108651	643797	1172	UTM83-8	WHI11000950	2.5	99	12.8	0.12	0.69	223	22.61	101.4
612985	7108651	643748	1161	UTM83-8	WHI11000950	1.8	51	8.5	0.06	0.65	99	24.53	81.7
612986	7108652	643646	1132	UTM83-8	WHI11000950	10	134	5.9	0.08	0.7	233	27.6	75
612987	7108649	643598	1118	UTM83-8	WHI11000950	1.8	81	8.1	0.07	0.55	150	23.82	85.6
612988	7108647	643501	1100	UTM83-8	WHI11000950	1.6	77	10.2	0.07	0.66	209	23.95	69.8
612989	7108649	643444	1079	UTM83-8	WHI11000950	58.5	98	12.2	0.08	0.76	152	21.42	81.1
612990	7108651	643352	1048	UTM83-8	WHI11000950	3.5	55	64.2	0.1	0.91	156	23.45	121.4
612991	7108650	643299	1048	UTM83-8	WHI11000950	5.1	166	280.5	0.12	1.49	278	20.51	87.8
612992	7108652	643246	1042	UTM83-8	WHI11000950	8.7	88	30.3	0.08	1.77	157	27.45	98.9
612993	7108650	643200	1036	UTM83-8	WHI11000950	3.4	111	25.3	0.07	1.14	187	28.42	96.5
612994	7108651	643145	1024	UTM83-8	WHI11000950	7.1	99	24.5	0.06	1.57	177	28.92	119.8
612995	7108652	643098	1013	UTM83-8	WHI11000950	4.1	110	26.7	0.06	1.24	158	28.08	121.2
612996	7110325	354039	1716	UTM83-9	WHI11000951	19	103	28.6	0.08	2.81	597	149.55	292.8
612997	7110320	354089	1713	UTM83-9	WHI11000951	3.8	134	40	0.11	1.8	334	30.99	153.9
612998	7110316	354138	1716	UTM83-9	WHI11000951	5.7	123	47.9	0.11	1.95	489	37.11	246
612999	7110313	354189	1718	UTM83-9	WHI11000951	7.5	138	26.8	0.07	1.59	290	24.59	183.1
613000	7110305	354237	1716	UTM83-9	WHI11000951	7.4	107	24	0.06	1.8	224	21.84	116.9
617001	7106954	632098	1072	UTM83-8	WHI11001353	0.1	148	3.7	0.17	0.15	21	15.87	106.6
617002	7106903	632101	1047	UTM83-8	WHI11001353	0.1	117	4.1	0.11	0.22	18	15.28	62.5
617003	7106855	632100	1032	UTM83-8	WHI11001353	0.1	64	4.7	0.13	0.17	24	17.92	125.6
617004	7106800	632100	1000	UTM83-8	WHI11001351	0.6	49	4.8	0.1	0.25	15	13.79	71.3
617005	7106750	632102	988	UTM83-8	WHI11001352	2.4	118	6.4	0.1	0.27	39	20.58	67.9
617006	7106701	632101	981	UTM83-8	WHI11001352	1.9	31	5.4	0.09	0.22	10	20.41	60.2
617007	7106652	632103	967	UTM83-8	WHI11001352	2.3	67	5	0.1	0.21	29	21.06	68
617008	7106598	632102	962	UTM83-8	WHI11001352	0.8	40	4.5	0.12	0.2	11	15.12	63.2
617009	7106556	632097	935	UTM83-8	WHI11001352	1.3	71	5.7	0.11	0.3	20	18.55	70.4
617010	7106505	632098	923	UTM83-8	WHI11001352	1.3	14	5.4	0.08	0.2	14	16.69	54.5
617011	7106402	632101	924	UTM83-8	WHI11001352	1.1	23	8.6	0.08	0.31	58	23.67	85.4
617012	7106351	632095	921	UTM83-8	WHI11001352	0.8	23	8.9	0.11	0.32	24	17.64	59.7
617013	7106304	632102	902	UTM83-8	WHI11001352	0.7	37	17.9	0.12	0.84	46	31.49	49
617014	7106252	632100	869	UTM83-8	WHI11001352	1.3	101	33.8	0.11	2	263	35.35	187.2
617015	7106204	632098	850	UTM83-8	WHI11001352	1.1	52	34	0.1	1.22	220	30.92	104.9
617016	7106151	632100	823	UTM83-8	WHI11001352	1.7	45	9.6	0.11	0.49	70	18.05	88.1
617017	7106103	632099	816	UTM83-8	WHI11001352	2	46	6.2	0.1	0.29	55	25.94	81.6
617018	7106052	632097	804	UTM83-8	WHI11001352	1.6	47	7	0.11	0.21	27	32.83	111.9
617019	7105952	632098	791	UTM83-8	WHI11001352	2.2	120	6.8	0.1	0.31	59	16.98	98.9
617020	7107510	635097	1061	UTM83-8	WHI11001352	1.9	75	5.9	0.13	0.32	20	22.01	93.8
617021	7107400	635097	1020	UTM83-8	WHI11001352	0.6	160	4.3	0.11	0.22	40	25.72	48.8
617022	7107298	635095	995	UTM83-8	WHI11001352	0.3	191	5.5	0.12	0.26	23	19.41	70.5
617023	7107206	635102	960	UTM83-8	WHI11001352	0.7	214	4.6	0.12	0.19	30	24.18	56.3
617024	7107101	635096	944	UTM83-8	WHI11001352	0.7	65	6.5	0.11	0.25	27	25.39	84.2
617025	7106997	635098	925	UTM83-8	WHI11001352	1.1	109	7.1	0.09	0.34	72	22.74	71.5
617026	7106908	635104	919	UTM83-8	WHI11001352	2.7	31	7.9	0.11	0.45	23	21.47	65.5
617027	7106703	635104	890	UTM83-8	WHI11001352	1.8	15	6	0.09	0.31	21	22.96	78.4
617028	7106601	635101	876	UTM83-8	WHI11001352	2.3	80	11.1	0.11	0.4	68	28.05	76.7
617029	7106404	635097	888	UTM83-8	WHI11001352	1.2	66	5.4	0.08	0.22	49	21.52	73.1
617030	7106298	635099	898	UTM83-8	WHI11001352	0.8	78	4.8	0.09	0.2	37	21.97	83.4
617031	7106201	635098	863	UTM83-8	WHI11001352	0.6	51	5.5	0.12	0.22	18	22.64	71.8
617032	7106110	635104	846	UTM83-8	WHI11001352	0.7	110	6.1	0.11	0.37	20	21.23	65.4
617033	7105955	635098	825	UTM83-8	WHI11001352	1.1	46	6.5	0.08	0.21	41	29.34	107.6
617034	7105948	640095	856	UTM83-8	WHI11001352	1.2	51	5	0.14	0.24	53	33.58	88.2

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
617035	7106050	640097	863	UTM83-8	WHI11001352	1.5	135	7.1	0.09	0.38	85	23.57	77.8
617036	7106158	640101	868	UTM83-8	WHI11001352	1.4	112	5.8	0.07	0.31	67	20.77	86.4
617037	7106250	640092	877	UTM83-8	WHI11001352	1.2	155	6.5	0.09	0.34	76	23.74	70.1
617038	7106449	640094	897	UTM83-8	WHI11001352	1.1	108	4.1	0.09	0.13	65	24.36	107.3
617039	7106547	640095	906	UTM83-8	WHI11001356	2.9	130	9.8	0.11	0.35	98	26.14	89.5
617040	7107000	642102	986	UTM83-8	WHI11001353	1.7	44	22.2	0.1	0.53	92	21.45	67.9
617041	7106950	642101	984	UTM83-8	WHI11001353	4.3	153	24.9	0.1	0.89	251	28.15	77.3
617051	7107551	640695	1125	UTM83-8	WHI11001351	0.7	75	1	0.19	0.25	34	27.65	74.4
617052	7107354	640703	1021	UTM83-8	WHI11001351	2	63	7.2	0.11	0.41	62	26.83	76.8
617053	7108606	640800	1388	UTM83-8	WHI11001351	28.7	146	23.5	0.11	2.6	307	26.45	33.2
617054	7107552	635104	1126	UTM83-8	WHI11001352	0.7	68	4.2	0.11	0.3	24	21.13	137.9
617055	7107451	635099	1089	UTM83-8	WHI11001352	1.2	73	3.8	0.08	0.21	26	19.34	73
617056	7107355	635097	1069	UTM83-8	WHI11001352	0.8	69	6	0.11	0.31	19	23.33	71.7
617057	7107252	635099	1017	UTM83-8	WHI11001352	0.6	107	7.4	0.12	0.44	21	19.23	84.5
617058	7107149	635096	1030	UTM83-8	WHI11001352	0.5	74	6	0.08	0.25	59	24.71	80.9
617059	7107051	635100	1017	UTM83-8	WHI11001352	1.2	162	6.6	0.09	0.31	57	19.15	76.3
617060	7106948	635098	955	UTM83-8	WHI11001352	0.8	40	8.6	0.12	0.42	30	18.43	78.6
617061	7106851	635098	874	UTM83-8	WHI11001352	0.4	35	8	0.11	0.38	15	15.43	60.5
617062	7106652	635101	813	UTM83-8	WHI11001352	1	80	7.5	0.09	0.37	34	27.75	81.4
617063	7106552	635108	808	UTM83-8	WHI11001352	0.8	42	7.5	0.06	0.34	43	19.46	81.4
617064	7106450	635104	824	UTM83-8	WHI11001352	2.7	105	5.5	0.11	0.2	36	28.9	99.7
617065	7106351	635099	922	UTM83-8	WHI11001352	0.7	19	6.1	0.09	0.24	12	18.67	75
617066	7106250	635098	911	UTM83-8	WHI11001352	0.8	40	5.5	0.08	0.2	21	20.81	85.8
617067	7106152	635097	906	UTM83-8	WHI11001352	0.3	30	4.3	0.11	0.18	9	12.72	70.9
617068	7106053	635092	882	UTM83-8	WHI11001352	0.6	50	4.5	0.11	0.15	15	16.19	71.7
617069	7106099	640096	865	UTM83-8	WHI11001352	1.1	127	6.1	0.07	0.27	59	20.19	87.7
617070	7106299	640100	886	UTM83-8	WHI11001352	0.7	61	6.4	0.08	0.19	50	23.04	102.4
617071	7106498	640097	902	UTM83-8	WHI11001352	1.6	156	8.7	0.07	0.46	96	22.85	87.2
617072	7107603	641603	1120	UTM83-8	WHI11001353	2.9	186	20.3	0.14	1.97	117	39.56	66.9
617073	7107552	641604	1084	UTM83-8	WHI11001353	1	191	16.2	0.09	0.87	123	24.4	87.2
617074	7107502	641599	1058	UTM83-8	WHI11001353	0.1	74	10.2	0.11	0.54	49	22.52	103.7
617075	7107451	641604	1033	UTM83-8	WHI11001353	1.3	138	12.4	0.1	0.59	142	25.17	84
617076	7107405	641602	1020	UTM83-8	WHI11001353	1.1	82	13	0.1	0.59	110	25.41	76
617077	7107356	641600	997	UTM83-8	WHI11001353	1.1	78	13.3	0.13	0.56	118	30.37	78.8
617078	7107306	641598	971	UTM83-8	WHI11001353	2	166	14.6	0.11	1	197	25.98	63.1
617079	7107254	641599	952	UTM83-8	WHI11001353	1	38	14.7	0.12	0.76	129	29.16	85.4
617080	7107205	641594	935	UTM83-8	WHI11001353	2.1	138	12.6	0.09	0.79	172	20.61	75.1
617081	7107154	641599	921	UTM83-8	WHI11001353	0.6	127	12.7	0.09	0.69	209	22.04	76.3
617082	7107106	641598	915	UTM83-8	WHI11001353	0.8	113	12.6	0.1	0.62	144	21.79	71.4
617083	7107054	641596	904	UTM83-8	WHI11001353	1.2	109	11.3	0.09	0.57	162	24.43	78.7
617084	7107009	641597	889	UTM83-8	WHI11001353	1.6	151	12.4	0.08	0.6	145	22.92	109.3
617085	7106897	641603	884	UTM83-8	WHI11001353	2.3	157	18.7	0.1	3	330	28.89	107.5
617086	7107852	642095	1016	UTM83-8	WHI11001353	1.5	157	12	0.09	0.64	308	28.93	76.2
617087	7107806	642101	997	UTM83-8	WHI11001353	1.1	133	10.6	0.11	0.59	326	29.65	81.9
617088	7107750	642104	976	UTM83-8	WHI11001353	3	150	11.1	0.09	0.7	279	27.8	75.4
617089	7107704	642096	967	UTM83-8	WHI11001353	4.6	116	14	0.11	0.8	165	27.01	90
617090	7107655	642100	950	UTM83-8	WHI11001353	3.2	132	17.8	0.09	1.07	169	30.59	119.7
617091	7107603	642099	937	UTM83-8	WHI11001353	0.9	132	9.9	0.12	0.44	157	30.46	85.5
617092	7107548	642101	917	UTM83-8	WHI11001353	1.1	145	9.1	0.11	0.46	223	25.95	95.6
617093	7107449	642100	925	UTM83-8	WHI11001353	1.2	175	13.7	0.09	0.44	142	24.26	98.1
617094	7107402	642098	932	UTM83-8	WHI11001353	1.8	171	16.7	0.1	0.75	407	32.04	107.1
617095	7107351	642099	935	UTM83-8	WHI11001353	1.6	161	9.5	0.07	0.39	204	19.51	83
617096	7107254	642091	950	UTM83-8	WHI11001353	1.7	80	16.3	0.06	0.45	261	20.19	99.7
617097	7107204	642100	961	UTM83-8	WHI11001353	2.2	137	13.7	0.08	0.71	316	26.91	105.5
617098	7107155	642102	970	UTM83-8	WHI11001353	2.8	160	13.9	0.08	0.68	479	28.03	185
617099	7107106	642099	979	UTM83-8	WHI11001353	3.9	119	28.9	0.08	0.82	204	20.12	103.1
617100	7107053	642103	987	UTM83-8	WHI11001353	2	87	26.7	0.07	0.71	241	22.57	88.7
617101	7108451	638999	1628	UTM83-8	WHI11001356	10.5	225	27.1	0.1	3.22	353	39.94	73.1
617102	7108402	638999	1600	UTM83-8	WHI11001356	2.8	136	18.6	0.12	2.21	145	43.66	174
617103	7108350	639001	1580	UTM83-8	WHI11001356	3.3	75	8.1	0.09	1.1	76	14.85	29
617104	7108301	638998	1565	UTM83-8	WHI11001356	3.1	170	22.4	0.24	2.4	261	38.56	129.4
617105	7108251	638998	1541	UTM83-8	WHI11001356	1.7	111	13.1	0.09	1.59	112	22.94	68.6

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
617106	7108201	638997	1526	UTM83-8	WHI11001356	2.1	174	10.9	0.09	1.06	112	20.68	86.2
617107	7108151	638999	1521	UTM83-8	WHI11001356	0.1	34	9.3	0.12	0.68	91	17.25	43.8
617108	7108102	639000	1519	UTM83-8	WHI11001356	0.1	81	27.4	0.17	1	45	21.47	28.6
617109	7108051	638999	1506	UTM83-8	WHI11001356	0.1	68	9.4	0.13	0.44	63	23.19	28.9
617110	7108000	638999	1492	UTM83-8	WHI11001356	0.1	85	9.6	0.1	0.47	51	17.87	32.7
617111	7107952	638999	1487	UTM83-8	WHI11001356	2.3	54	5.8	0.14	0.38	32	57.47	124.8
617112	7107901	639000	1478	UTM83-8	WHI11001356	1.5	47	5.3	0.13	0.37	19	32.81	103
617113	7107848	639001	1489	UTM83-8	WHI11001356	0.9	38	6.1	0.25	0.32	18	75.23	94.2
617114	7107802	638999	1486	UTM83-8	WHI11001356	2.3	102	5.3	0.21	0.27	54	155.38	96.5
617115	7107750	638998	1464	UTM83-8	WHI11001356	1.7	98	3.9	0.13	0.32	58	55.52	89
617116	7107701	638994	1461	UTM83-8	WHI11001356	1	27	6.2	0.19	0.44	26	17.68	62.9
617117	7107650	638998	1448	UTM83-8	WHI11001356	1.1	80	5.2	0.14	0.2	32	18.09	57.4
617118	7107601	639000	1454	UTM83-8	WHI11001356	0.1	25	5.3	0.13	0.14	9	27.22	90.5
617119	7107551	639000	1430	UTM83-8	WHI11001356	0.1	82	6	0.11	0.23	26	40.7	92
617120	7107501	639002	1408	UTM83-8	WHI11001356	0.3	109	5.7	0.09	0.16	75	42.39	95.9
617121	7107450	638998	1395	UTM83-8	WHI11001356	0.9	83	5.3	0.14	0.28	39	37.14	97.4
617122	7107401	638998	1386	UTM83-8	WHI11001356	0.3	106	7	0.13	0.43	40	31.04	84
617123	7107350	638998	1376	UTM83-8	WHI11001356	0.1	61	7.1	0.11	0.37	53	29.35	123.6
617124	7108650	639099	1694	UTM83-8	WHI11001356	0.1	280	14.4	0.44	0.45	34	90.82	124.5
617125	7108598	639100	1661	UTM83-8	WHI11001356	0.4	140	14.7	0.37	0.43	10	67.7	84
617126	7108552	639097	1628	UTM83-8	WHI11001356	0.8	331	12.3	0.35	0.38	57	70.21	211.5
617127	7108500	639100	1586	UTM83-8	WHI11001356	0.5	279	8.9	0.21	0.26	22	45.47	166.7
617128	7108451	639097	1557	UTM83-8	WHI11001356	2.7	136	12.2	0.15	0.74	111	31.15	104.4
617129	7108401	639099	1539	UTM83-8	WHI11001356	2.7	119	19.9	0.2	1.89	177	39.06	188.4
617130	7108353	639098	1518	UTM83-8	WHI11001356	1.9	109	15.9	0.2	1.84	108	17.42	74.7
617131	7108300	639099	1499	UTM83-8	WHI11001356	1.2	165	11.9	0.13	1.15	109	22.77	128.9
617132	7108250	639098	1485	UTM83-8	WHI11001356	2	140	11	0.13	1.22	108	17.33	59.8
617133	7108203	639099	1451	UTM83-8	WHI11001356	10.3	239	23.7	0.09	3.56	254	40.34	31
617134	7108153	639100	1432	UTM83-8	WHI11001356	0.5	47	12.5	0.13	0.73	48	16.21	56.3
617135	7108100	639100	1437	UTM83-8	WHI11001356	0.6	30	6.1	0.13	0.44	17	14.33	54.4
617136	7108050	639102	1435	UTM83-8	WHI11001356	0.3	53	3.7	0.07	0.31	35	19.25	120.4
617137	7108003	639099	1442	UTM83-8	WHI11001356	0.7	55	6	0.2	0.45	46	76.96	92.4
617138	7107952	639100	1435	UTM83-8	WHI11001356	1.5	136	7.1	0.11	0.59	51	37.15	79.7
617139	7107901	639099	1451	UTM83-8	WHI11001356	0.3	25	6.3	0.11	0.25	22	40.72	108.6
617140	7107804	639100	1429	UTM83-8	WHI11001356	0	0	0	0	0	0	0	0
617141	7107752	639096	1414	UTM83-8	WHI11001356	0.6	213	2.2	0.2	0.29	65	35.79	94.3
617142	7107698	639099	1403	UTM83-8	WHI11001356	1.4	59	12.3	0.26	0.37	27	110.3	163.3
617143	7107651	639103	1408	UTM83-8	WHI11001356	0.3	124	5.2	0.11	0.26	50	28.23	100.3
617144	7107602	639100	1420	UTM83-8	WHI11001356	0.4	55	7.5	0.14	0.36	31	39.41	104.5
617145	7107551	639099	1409	UTM83-8	WHI11001356	0.8	84	6.4	0.13	0.2	62	46.94	96.9
617146	7107502	639101	1375	UTM83-8	WHI11001356	0.6	63	5.9	0.1	0.17	9	37.59	94.5
617147	7107454	639100	1346	UTM83-8	WHI11001356	0.6	162	5.7	0.07	0.36	33	26.31	151
617148	7107402	639098	1334	UTM83-8	WHI11001356	0.7	120	4.5	0.12	0.32	35	29.95	132.9
617149	7107354	639099	1331	UTM83-8	WHI11001356	0.4	152	3.6	0.12	0.22	29	18.27	96
617150	7108449	640501	1432	UTM83-8	WHI11001356	1.9	63	16.7	0.07	1.27	107	23.13	37.6
617151	7108099	638400	1525	UTM83-8	WHI11001356	2.2	92	28.1	0.09	1.2	90	15.37	59.9
617152	7108148	638396	1532	UTM83-8	WHI11001356	0.8	33	3.1	0.13	0.34	33	6.39	29.6
617153	7108197	638400	1527	UTM83-8	WHI11001356	4	185	27.1	17.73	4.83	149	27.66	136.4
617154	7108248	638400	1504	UTM83-8	WHI11001356	13.9	172	22.1	7.57	2.8	399	107.39	217.8
617155	7108300	638401	1476	UTM83-8	WHI11001356	10.7	87	22.6	0.16	2.7	161	33.1	51.8
617156	7108349	638397	1449	UTM83-8	WHI11001356	0.5	58	7.9	0.09	0.76	32	10.46	35.3
617157	7108650	640296	1626	UTM83-8	WHI11001350	3.1	31	4.6	0.03	0.58	48	12.43	12
617158	7108603	640299	1600	UTM83-8	WHI11001350	13.2	140	20.2	0.09	2.08	756	24.21	495.9
617159	7108553	640299	1557	UTM83-8	WHI11001350	24.6	98	40.4	0.1	2.64	99	24.74	29.4
617160	7108501	640299	1541	UTM83-8	WHI11001350	6.3	122	14.8	0.07	1.49	284	25.49	933
617161	7108455	640299	1534	UTM83-8	WHI11001350	3.3	64	10	0.1	1.64	47	21.18	39.4
617162	7108401	640297	1505	UTM83-8	WHI11001350	3.5	124	13	0.11	1.43	111	22.01	105.1
617163	7108351	640300	1467	UTM83-8	WHI11001350	5.5	107	16.9	0.13	1.39	101	32.39	70.1
617164	7108300	640301	1450	UTM83-8	WHI11001350	2.9	166	7.3	0.11	0.61	57	28.67	88.3
617165	7108251	640300	1450	UTM83-8	WHI11001350	1.7	50	3.9	0.16	0.16	10	31.61	80.9
617166	7108201	640297	1444	UTM83-8	WHI11001350	1.3	79	3.4	0.15	0.3	43	19.58	109.5
617167	7108149	640299	1434	UTM83-8	WHI11001350	1	39	4.4	0.12	0.38	37	23.51	79.1

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
617168	7108102	640300	1447	UTM83-8	WHI11001350	3.3	40	3.1	0.14	0.37	21	16.95	66.1
617169	7108054	640297	1456	UTM83-8	WHI11001350	1.5	38	2.7	0.13	0.26	19	20.85	81
617170	7108002	640296	1430	UTM83-8	WHI11001350	0.5	53	4.6	0.13	0.34	31	22.61	88.3
617171	7107952	640299	1407	UTM83-8	WHI11001350	0.8	72	4.2	0.14	0.32	22	28.27	84.4
617172	7107899	640300	1395	UTM83-8	WHI11001350	0.9	46	6.4	0.14	0.4	24	26.01	76.5
617173	7107853	640297	1388	UTM83-8	WHI11001350	0.1	159	7.5	0.11	0.6	39	17.9	83.5
617174	7107803	640297	1372	UTM83-8	WHI11001350	1	119	5.6	0.12	0.38	54	28.61	103.2
617175	7107752	640298	1357	UTM83-8	WHI11001351	1.9	65	5.7	0.1	0.31	29	32.83	102.7
617176	7107702	640299	1351	UTM83-8	WHI11001351	0.9	119	5.9	0.1	0.19	19	31.67	109.2
617177	7107652	640300	1333	UTM83-8	WHI11001351	1.3	57	7.8	0.12	0.45	18	35.78	82.9
617178	7107600	640300	1311	UTM83-8	WHI11001351	0.3	99	6.2	0.09	0.29	24	26.12	122.9
617179	7107551	640301	1309	UTM83-8	WHI11001351	0.8	64	7.7	0.1	0.59	50	35.07	80.3
617180	7107500	640299	1309	UTM83-8	WHI11001351	0.4	74	6.4	0.1	0.29	24	26.75	75.4
617181	7107456	640296	1286	UTM83-8	WHI11001351	0.4	43	3.9	0.15	0.27	27	37.22	130.3
617182	7107405	640298	1253	UTM83-8	WHI11001351	0.1	66	4.4	0.15	0.24	20	35.97	115.2
617183	7107355	640296	1217	UTM83-8	WHI11001351	0.1	130	5	0.11	0.25	23	35.6	106.4
617184	7108647	640396	1577	UTM83-8	WHI11001351	7	82	14.7	0.08	1.74	190	17.57	36.6
617185	7108607	640399	1584	UTM83-8	WHI11001351	37.8	133	18.2	0.11	2.68	514	36.11	20
617186	7108501	640400	1508	UTM83-8	WHI11001351	4	118	10.7	0.06	1.25	119	16.2	44.3
617187	7108453	640400	1475	UTM83-8	WHI11001351	18	80	35.4	0.22	2.72	324	21.85	107.1
617188	7108402	640398	1463	UTM83-8	WHI11001351	3.6	261	18.9	0.12	1.26	667	78.64	47.5
617189	7108356	640395	1466	UTM83-8	WHI11001351	0.7	37	2.1	0.11	0.19	41	8.52	33.9
617190	7108304	640400	1435	UTM83-8	WHI11001351	0.4	30	4.4	0.1	0.23	18	31.68	53
617191	7108253	640401	1407	UTM83-8	WHI11001351	0.6	85	5.4	0.1	0.48	27	21.21	64.5
617192	7108202	640398	1400	UTM83-8	WHI11001351	1	114	3.2	0.12	0.16	52	43.35	72.4
617193	7108154	640400	1394	UTM83-8	WHI11001351	1.9	44	6.5	0.1	0.56	37	19.85	73.6
617194	7108107	640397	1398	UTM83-8	WHI11001351	1.6	50	6.7	0.11	0.45	37	30.45	81.3
617195	7108051	640401	1411	UTM83-8	WHI11001351	1.1	83	2.9	0.15	0.19	30	28.77	66.6
617196	7107950	640397	1394	UTM83-8	WHI11001351	0.8	60	2.8	0.17	0.34	8	29.19	94.8
617197	7107902	640395	1359	UTM83-8	WHI11001351	0.9	72	3.7	0.15	0.25	24	30.56	84.2
617198	7107851	640400	1326	UTM83-8	WHI11001351	0.5	14	1.6	0.19	0.29	11	27.38	78.5
617199	7107804	640398	1304	UTM83-8	WHI11001351	0.8	69	7.5	0.09	0.56	39	20.22	66.8
617200	7107752	640400	1298	UTM83-8	WHI11001351	1	45	8.1	0.07	0.61	75	18.36	71.9
617201	7108161	638200	1428	UTM83-8	WHI11001350	2.9	195	24.8	0.18	3.89	387	61.74	52.4
617202	7108210	638202	1421	UTM83-8	WHI11001350	3.3	190	22.4	0.14	3.41	176	33.92	66.1
617203	7108251	638196	1425	UTM83-8	WHI11001350	5.2	223	48.1	0.18	5.94	526	50.85	98.8
617204	7108342	638195	1388	UTM83-8	WHI11001350	0.6	78	8.5	0.06	1.13	82	14.14	60.5
617205	7108450	638201	1319	UTM83-8	WHI11001350	0.6	240	8	0.15	0.47	73	32.46	122.6
617206	7108502	638201	1294	UTM83-8	WHI11001350	3.7	329	9.2	0.13	0.64	63	33.56	84.2
617207	7107797	638192	1422	UTM83-8	WHI11001351	1	74	4.4	0.12	0.29	32	35.76	90.9
617208	7107751	638197	1413	UTM83-8	WHI11001351	3	39	2.7	0.15	0.2	34	48.27	94.1
617209	7107702	638192	1395	UTM83-8	WHI11001351	0.3	108	2.7	0.06	0.2	34	27.84	112.1
617210	7107646	638196	1378	UTM83-8	WHI11001351	0.8	45	3.5	0.17	0.35	35	23.23	84.8
617211	7107599	638194	1363	UTM83-8	WHI11001351	0.5	59	5.2	0.17	0.23	31	71.17	111.8
617212	7107552	638196	1336	UTM83-8	WHI11001351	0.3	159	3.4	0.06	0.18	29	21.14	123.3
617213	7107512	638192	1320	UTM83-8	WHI11001351	0.8	43	5	0.08	0.11	24	29.06	110.2
617214	7107457	638194	1295	UTM83-8	WHI11001351	0.6	142	4.2	0.1	0.14	28	23.68	101.5
617215	7107417	638199	1274	UTM83-8	WHI11001351	0.7	87	4.9	0.1	0.16	23	44.82	85.5
617216	7107353	638190	1237	UTM83-8	WHI11001351	1.5	178	3.1	0.1	0.16	26	21.96	94.4
617217	7108448	640100	1621	UTM83-8	WHI11001351	5.6	51	20.2	0.14	0.81	177	13.06	30.8
617218	7108402	640104	1608	UTM83-8	WHI11001351	1.7	56	6	0.07	0.17	26	17.03	45.2
617219	7108351	640103	1582	UTM83-8	WHI11001351	1.7	108	6.7	0.21	0.19	82	46.63	72
617220	7108292	640102	1550	UTM83-8	WHI11001351	1.9	54	3.3	0.17	0.35	40	26.7	84.4
617221	7108246	640095	1544	UTM83-8	WHI11001351	5.8	271	6.8	0.22	0.38	148	40.34	90.1
617222	7108201	640099	1529	UTM83-8	WHI11001351	1	25	1	0.14	0.2	39	21.19	86.7
617223	7108151	640098	1513	UTM83-8	WHI11001351	0.3	74	4	0.15	0.23	24	25.02	94.3
617224	7108098	640098	1490	UTM83-8	WHI11001351	0.3	27	4.7	0.14	0.26	26	36.52	94.9
617225	7108050	640098	1474	UTM83-8	WHI11001351	0.5	49	4.6	0.17	0.28	21	33.32	91.2
617226	7108001	640100	1457	UTM83-8	WHI11001351	1.1	44	4.4	0.14	0.23	22	28.73	83.2
617227	7107949	640104	1445	UTM83-8	WHI11001351	0.7	50	4.6	0.16	0.18	49	63.29	91.2
617228	7107906	640097	1425	UTM83-8	WHI11001351	0.1	58	3.7	0.14	0.31	29	32.37	99.7
617229	7107848	640101	1394	UTM83-8	WHI11001351	0.1	23	4.3	0.19	0.22	13	30.96	88.4

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
617230	7107697	640100	1349	UTM83-8	WHI11001351	0.1	35	8	0.11	0.38	43	28.45	85.8
617231	7107650	640093	1349	UTM83-8	WHI11001351	0.1	41	6.2	0.1	0.26	47	24.01	110.3
617232	7107596	640097	1346	UTM83-8	WHI11001351	0.1	36	6.8	0.12	0.18	21	54.84	120.1
617233	7107550	640097	1320	UTM83-8	WHI11001351	0.1	86	5.6	0.11	0.16	32	51.17	111
617234	7107500	640103	1308	UTM83-8	WHI11001351	0.1	24	6.6	0.11	0.38	28	25.05	105.5
617235	7107455	640106	1283	UTM83-8	WHI11001351	0.1	287	7.3	0.1	0.46	38	33.37	99.1
617236	7107403	640110	1250	UTM83-8	WHI11001351	0.1	121	5	0.14	0.18	36	35.1	147.7
617237	7107354	640101	1227	UTM83-8	WHI11001351	0.5	193	6	0.12	0.25	34	28.93	125.6
617238	7108246	640198	1518	UTM83-8	WHI11001351	1	74	4.8	0.26	0.17	44	49.03	88.5
617239	7108201	640197	1509	UTM83-8	WHI11001351	0.6	34	4	0.13	0.18	25	26.75	89.4
617240	7108151	640199	1498	UTM83-8	WHI11001351	0.1	22	4	0.13	0.17	11	28.73	87.7
617241	7108096	640203	1496	UTM83-8	WHI11001351	0.1	53	6.5	0.28	0.28	44	94.38	131.2
617242	7108049	640198	1485	UTM83-8	WHI11001351	0.5	22	1.4	0.14	0.19	23	29.37	87.4
617243	7107995	640195	1467	UTM83-8	WHI11001351	0.8	28	4.1	0.17	0.14	23	33.22	85.5
617244	7107951	640199	1452	UTM83-8	WHI11001351	0.1	22	5	0.13	0.31	33	33.4	102
617245	7107906	640207	1440	UTM83-8	WHI11001351	0.1	43	2.7	0.21	0.36	23	29.97	79.3
617246	7107848	640198	1421	UTM83-8	WHI11001351	0.1	39	5.1	0.17	0.21	30	35.88	99.2
617247	7107808	640192	1408	UTM83-8	WHI11001351	0.1	96	4.8	0.14	0.18	33	38.91	87
617248	7107750	640200	1387	UTM83-8	WHI11001351	0.1	32	6.3	0.14	0.3	18	35.19	104
617249	7107694	640202	1374	UTM83-8	WHI11001351	0.1	62	9.8	0.13	0.5	52	32.34	114.2
617250	7107657	640197	1362	UTM83-8	WHI11001351	0.1	112	5.4	0.11	0.31	28	22.74	128.6
617251	7108003	637997	1385	UTM83-8	WHI11001350	1.6	82	11.3	0.13	0.97	43	31.77	52.5
617252	7108048	637999	1350	UTM83-8	WHI11001350	1.6	102	12.5	0.11	1.12	53	27.76	74.5
617253	7108100	637996	1313	UTM83-8	WHI11001350	2.1	124	10.3	0.09	0.42	42	24.66	78.1
617254	7108152	638000	1294	UTM83-8	WHI11001350	2	69	9.3	0.11	0.46	37	22.86	85
617255	7108197	637996	1293	UTM83-8	WHI11001350	2	170	10.1	0.12	0.69	72	21.75	102
617256	7108256	637996	1302	UTM83-8	WHI11001350	8.8	496	33.4	0.16	5.97	711	79.37	236.9
617257	7108299	637999	1306	UTM83-8	WHI11001350	1.2	91	6.6	0.06	0.47	98	27.21	34
617258	7108450	638000	1251	UTM83-8	WHI11001350	0.6	278	6.8	0.17	0.25	142	38.38	139.8
617259	7108497	637996	1225	UTM83-8	WHI11001350	1.2	231	7	0.13	0.43	225	40.51	105.1
617260	7108553	637995	1218	UTM83-8	WHI11001350	1.4	160	9.1	0.11	0.4	57	23.23	88.1
617261	7108635	637998	1247	UTM83-8	WHI11001350	1.5	354	15.7	0.13	0.61	49	48.37	108.8
617262	7107801	637999	1465	UTM83-8	WHI11001350	0.7	60	3.8	0.11	0.23	37	33.67	77.9
617263	7107753	637999	1459	UTM83-8	WHI11001350	2.3	28	8.1	0.11	0.67	30	21.8	67.3
617264	7107698	637999	1444	UTM83-8	WHI11001350	3.3	39	3.5	0.11	0.4	21	22.27	64.4
617265	7107651	637997	1420	UTM83-8	WHI11001350	0.9	113	4.8	0.1	0.34	51	26.86	107.3
617266	7107602	638002	1405	UTM83-8	WHI11001350	0.6	117	5.4	0.11	0.36	38	24.7	117.1
617267	7107551	637997	1386	UTM83-8	WHI11001350	1.4	154	5.9	0.09	0.56	46	20.07	87.3
617268	7107500	638000	1379	UTM83-8	WHI11001350	0.6	58	5.8	0.1	0.25	39	30.89	73.3
617269	7107452	637997	1375	UTM83-8	WHI11001350	0.1	109	6	0.12	0.29	55	40.8	90.7
617270	7107401	637999	1351	UTM83-8	WHI11001350	2.5	177	5.5	0.13	0.22	32	48.82	97.9
617271	7107350	638001	1325	UTM83-8	WHI11001350	0.8	52	2.9	0.15	0.13	24	25.04	81.2
617272	7107852	638098	1440	UTM83-8	WHI11001350	1.4	65	4.4	0.1	0.34	53	27.37	73.2
617273	7107899	638098	1428	UTM83-8	WHI11001350	0.8	49	6.1	0.12	0.45	26	31.08	72.5
617274	7107954	638098	1396	UTM83-8	WHI11001350	1.1	71	5.6	0.12	0.42	43	31.37	68.9
617275	7108002	638098	1377	UTM83-8	WHI11001350	2.8	168	8.2	0.12	0.54	50	15.25	97.7
617276	7108051	638098	1354	UTM83-8	WHI11001350	2.6	182	12.3	0.11	1.46	62	16.35	80.6
617277	7108101	638098	1348	UTM83-8	WHI11001350	1.9	63	14.8	0.08	1.03	78	17.5	82.1
617278	7108154	638097	1343	UTM83-8	WHI11001350	2.4	161	14.9	0.1	1.65	93	25.72	88.5
617279	7108203	638101	1366	UTM83-8	WHI11001350	3.8	128	14	0.15	1.41	95	19.01	58.8
617280	7108251	638096	1365	UTM83-8	WHI11001350	0.7	31	11.6	0.1	0.56	30	21.4	73.7
617281	7108299	638099	1378	UTM83-8	WHI11001350	1.2	141	17.6	0.12	1.32	117	21.45	69.4
617282	7108350	638099	1352	UTM83-8	WHI11001350	3.9	121	17	0.08	2.59	142	23.92	22.6
617283	7108400	638099	1321	UTM83-8	WHI11001350	2.4	149	20.1	0.06	2.9	256	29.59	100.3
617284	7108453	638098	1297	UTM83-8	WHI11001350	3	142	14.7	0.18	0.46	72	42.25	72.5
617285	7108498	638100	1271	UTM83-8	WHI11001350	2.3	134	7.5	0.1	0.43	49	27.48	57.7
617286	7108550	638097	1227	UTM83-8	WHI11001350	5.5	147	14.8	0.41	1.31	207	45.75	95.7
617287	7107800	638101	1451	UTM83-8	WHI11001350	1.1	50	6.5	0.12	0.34	22	53.16	94.2
617288	7107751	638099	1435	UTM83-8	WHI11001350	1.1	46	5	0.15	0.25	23	91.55	99.6
617289	7107700	638099	1421	UTM83-8	WHI11001350	0.4	20	4.8	0.11	0.51	11	15.62	63.7
617290	7107654	638099	1415	UTM83-8	WHI11001350	2.1	56	10	0.12	1.01	24	18.66	87.2
617291	7107601	638098	1392	UTM83-8	WHI11001350	0.9	105	8.9	0.2	0.48	72	75.59	102.7

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
617292	7107553	638099	1370	UTM83-8	WHI11001350	0.6	31	6.1	0.12	0.2	16	45.56	119
617293	7107502	638099	1336	UTM83-8	WHI11001350	0.5	100	4.1	0.09	0.13	36	28.94	100
617294	7107453	638099	1308	UTM83-8	WHI11001350	0.5	158	6	0.08	0.37	37	27.11	151.6
617295	7107398	638097	1295	UTM83-8	WHI11001350	0.9	268	5.6	0.15	0.21	24	47.02	102
617296	7107350	638101	1286	UTM83-8	WHI11001350	0.3	62	5.8	0.08	0.34	19	27.62	55.4
617297	7108650	638997	1709	UTM83-8	WHI11001350	0.1	88	8.1	0.14	0.35	25	42.97	53.2
617298	7108600	638998	1693	UTM83-8	WHI11001350	0.5	295	9.7	0.29	0.31	138	47.87	171.5
617299	7108548	638997	1667	UTM83-8	WHI11001350	0.8	187	8.5	0.25	0.22	100	40.5	138.6
617300	7108500	638996	1649	UTM83-8	WHI11001350	2.5	164	29.7	0.17	2.51	254	56.11	217.6
617301	7107849	637698	1379	UTM83-8	WHI11001350	2	59	2.7	0.14	0.19	24	46.34	83.3
617302	7108150	637700	1276	UTM83-8	WHI11001350	0.8	133	10.7	0.08	1.49	106	18.21	61.9
617303	7108244	637697	1220	UTM83-8	WHI11001350	1.1	68	13.9	0.04	1.99	132	11.14	122.7
617304	7108349	637698	1167	UTM83-8	WHI11001350	1.5	154	9.3	0.09	1.51	154	22.24	99.2
617305	7108447	637698	1117	UTM83-8	WHI11001350	2.3	145	8.5	0.1	0.45	83	21.77	86.6
617306	7108556	637698	1101	UTM83-8	WHI11001350	3	133	8.1	0.09	0.34	68	19.57	67.5
617307	7108651	637697	1082	UTM83-8	WHI11001350	1.4	167	7.9	0.1	0.32	56	22.25	90.1
617308	7108603	638799	1598	UTM83-8	WHI11001350	2.6	460	15.5	0.52	0.53	114	105.32	105.8
617309	7108505	638802	1600	UTM83-8	WHI11001350	0.6	95	8.4	0.16	0.37	42	39.84	154.9
617310	7108401	638801	1618	UTM83-8	WHI11001350	2.8	89	16.5	0.1	1.42	74	17.39	57.3
617311	7108306	638799	1642	UTM83-8	WHI11001350	6.6	58	10.1	0.06	1.33	93	15.8	14
617312	7108204	638805	1627	UTM83-8	WHI11001350	2.8	55	7.2	0.06	1.16	66	11.98	59.2
617313	7108102	638797	1600	UTM83-8	WHI11001350	7.9	63	16.5	0.12	1.87	203	30.81	22.2
617314	7108002	638798	1543	UTM83-8	WHI11001350	3.2	67	14.6	0.07	1.67	162	19.62	42.3
617315	7107901	638798	1509	UTM83-8	WHI11001350	1.7	42	4.7	0.1	0.43	32	26.84	73.8
617316	7107803	638799	1512	UTM83-8	WHI11001350	1	39	8.9	0.13	0.79	35	21.93	90.7
617317	7107704	638802	1477	UTM83-8	WHI11001350	1.1	33	3.3	0.21	0.33	23	43.46	88.6
617318	7107601	638799	1426	UTM83-8	WHI11001350	0.7	141	6.7	0.11	0.27	36	36.07	110
617319	7107503	638799	1379	UTM83-8	WHI11001350	0.5	117	6.9	0.15	0.27	17	41.36	103.8
617320	7107405	638799	1335	UTM83-8	WHI11001350	0.6	150	7.7	0.09	0.38	43	33.76	81.3
617321	7108649	638899	1669	UTM83-8	WHI11001350	3.5	285	7	0.16	0.3	105	39.64	118.1
617322	7108549	638900	1672	UTM83-8	WHI11001350	1.3	120	7.2	0.17	0.24	64	37.35	136.9
617323	7108446	638901	1654	UTM83-8	WHI11001350	3.3	76	13.2	0.11	1.54	56	13.25	37.7
617324	7108353	638898	1639	UTM83-8	WHI11001350	1.6	145	11.9	0.06	1.72	147	43.6	102.4
617325	7108149	638901	1569	UTM83-8	WHI11001350	2.9	72	14.5	0.08	1.2	111	16.3	90.5
617326	7108050	638904	1561	UTM83-8	WHI11001350	0.4	15	35.9	0.07	0.58	47	4.01	13.2
617327	7107953	638898	1508	UTM83-8	WHI11001350	0.6	63	6.6	0.12	0.39	32	13.82	76.1
617328	7107748	638894	1494	UTM83-8	WHI11001350	0.6	25	4.3	0.16	0.45	24	33.05	82.7
617329	7107651	638897	1450	UTM83-8	WHI11001350	0.9	103	3.9	0.14	0.28	23	24.61	76.2
617330	7107552	638902	1446	UTM83-8	WHI11001350	0.7	43	7.4	0.12	0.26	36	42.12	94.8
617331	7107452	638902	1400	UTM83-8	WHI11001350	1.2	48	5.8	0.17	0.28	18	59.63	96.6
617332	7107357	638904	1359	UTM83-8	WHI11001350	0.7	74	6.6	0.14	0.29	36	65.71	122.2
617333	7108604	640702	1437	UTM83-8	WHI11001351	0.1	34	4.9	0.04	0.42	202	8.11	73.2
617334	7108505	640698	1425	UTM83-8	WHI11001351	6.1	65	12.3	0.19	1.86	217	24.86	22.1
617335	7108405	640698	1362	UTM83-8	WHI11001351	1.5	73	20.7	0.13	0.59	36	21.59	24.1
617336	7108304	640700	1282	UTM83-8	WHI11001351	0.8	43	12.8	0.1	0.53	44	24.77	36.7
617337	7108204	640701	1244	UTM83-8	WHI11001351	1.1	109	4.2	0.14	0.4	50	29.33	74.2
617338	7108098	640706	1225	UTM83-8	WHI11001351	1.2	66	5.5	0.14	0.39	28	18.52	67.2
617339	7108003	640700	1263	UTM83-8	WHI11001351	1.1	141	1.9	0.14	0.22	34	18	68.6
617340	7107902	640699	1266	UTM83-8	WHI11001351	0.6	75	4.8	0.15	0.36	37	32.78	122.2
617341	7107799	640696	1242	UTM83-8	WHI11001351	1.4	102	4	0.16	0.35	21	14.53	61.7
617342	7107704	640698	1303	UTM83-8	WHI11001351	0.9	88	3.9	0.14	0.24	20	22.7	91.3
617343	7107599	640697	1326	UTM83-8	WHI11001351	1.1	96	3.8	0.13	0.22	42	20.89	108.3
617344	7107496	640692	1256	UTM83-8	WHI11001351	1.3	103	6.3	0.13	0.39	28	27.22	74.6
617345	7107405	640695	1203	UTM83-8	WHI11001351	1.8	126	5.5	0.11	0.43	18	19.13	55.2
617346	7108646	640793	1289	UTM83-8	WHI11001351	8.5	152	29.4	0.18	2.34	164	34.95	156.8
617347	7107150	632099	1126	UTM83-8	WHI11001351	0.3	108	8.3	0.09	0.21	36	30.74	84.4
617348	7107101	632099	1121	UTM83-8	WHI11001351	0.1	423	5.6	0.11	0.3	33	14.32	96.3
617349	7107051	632102	1117	UTM83-8	WHI11001351	0.1	72	3.2	0.12	0.19	13	16.57	121.1
617350	7107003	632101	1111	UTM83-8	WHI11001351	0.1	169	5.8	0.1	0.28	24	15.83	65.9
617351	7107450	637000	1258	UTM83-8	WHI11001350	0.1	36	4.6	0.13	0.25	18	17.19	70
617352	7107498	636999	1228	UTM83-8	WHI11001350	0.1	53	6.6	0.13	0.38	28	32.95	106.2
617353	7107550	637000	1189	UTM83-8	WHI11001350	0.1	161	6.3	0.13	0.46	36	37.81	71.5

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
617354	7107600	637000	1155	UTM83-8	WHI11001350	0.1	103	6.2	0.09	0.23	30	38.96	116.8
617355	7107651	636998	1136	UTM83-8	WHI11001350	0.3	95	6.5	0.09	0.25	21	28.77	94.8
617356	7107701	637000	1117	UTM83-8	WHI11001350	0.1	58	8.4	0.11	0.8	26	34.8	93.5
617357	7107803	636999	1101	UTM83-8	WHI11001350	1.7	132	6.4	0.11	0.44	47	24.8	78.5
617358	7107853	636998	1083	UTM83-8	WHI11001350	2.4	61	6.3	0.12	0.39	21	24.7	88.3
617359	7107897	636999	1062	UTM83-8	WHI11001350	0.5	80	4.2	0.12	0.3	40	22.55	74.3
617360	7107950	636998	1026	UTM83-8	WHI11001350	1.8	75	4.1	0.09	0.33	20	32.41	89.2
617361	7108003	637001	996	UTM83-8	WHI11001350	1.2	20	7.5	0.08	0.46	14	20.81	68.8
617362	7108055	637005	985	UTM83-8	WHI11001350	1.4	85	11.7	0.11	0.76	71	24.17	74.3
617363	7108100	637000	991	UTM83-8	WHI11001350	0.3	69	8.3	0.09	0.42	55	22.58	91.1
617364	7108149	638499	1589	UTM83-8	WHI11001355	2	48	10.3	0.06	1.22	106	19.33	58.6
617365	7108102	638499	1594	UTM83-8	WHI11001356	1.6	57	5.3	0.05	0.71	274	14.64	228.4
617366	7108051	638499	1584	UTM83-8	WHI11001356	1.5	7	5.2	0.04	0.78	50	7.06	21.2
617367	7108003	638499	1552	UTM83-8	WHI11001356	1.5	44	4.7	0.03	0.82	55	8.08	51.2
617368	7107952	638500	1517	UTM83-8	WHI11001356	3.8	88	12.1	0.09	1.16	91	20.6	93.8
617369	7107901	638498	1497	UTM83-8	WHI11001356	4	313	12.1	0.13	1.07	97	16.03	107.9
617370	7107851	638500	1483	UTM83-8	WHI11001356	2.7	95	11.2	0.11	0.82	38	20.21	54.2
617371	7107801	638500	1476	UTM83-8	WHI11001356	0.8	102	3.7	0.2	0.29	70	17.6	79.4
617372	7107755	638499	1451	UTM83-8	WHI11001356	1.5	28	1	0.2	0.26	28	20.47	93.2
617373	7107654	638497	1399	UTM83-8	WHI11001356	1.2	108	3.5	0.15	0.33	57	33.46	66.4
617374	7107602	638500	1375	UTM83-8	WHI11001356	0.7	64	5.1	0.11	0.27	29	29.87	92.8
617375	7107552	638498	1353	UTM83-8	WHI11001356	0.5	77	6.8	0.11	0.46	38	24.12	100.9
617376	7107496	638498	1337	UTM83-8	WHI11001356	1.5	70	6.2	0.12	0.39	39	23.83	98.6
617377	7107403	638496	1323	UTM83-8		0	0	0	0	0	0	0	0
617378	7107352	638498	1319	UTM83-8	WHI11001356	0.8	150	5.3	0.12	0.34	29	20.59	84.2
617379	7108002	638400	1531	UTM83-8	WHI11001356	1.9	70	41.6	0.14	1.45	209	20.75	42.5
617380	7107902	638400	1462	UTM83-8	WHI11001356	3.9	182	16.8	0.24	0.78	101	37.39	145.8
617381	7107799	638399	1427	UTM83-8	WHI11001356	1.5	39	1.8	0.17	0.41	49	29.48	60.2
617382	7107752	638401	1413	UTM83-8	WHI11001356	1.1	34	2.4	0.13	0.29	36	16.63	75.3
617383	7107703	638398	1390	UTM83-8	WHI11001356	1.2	46	4.8	0.13	0.15	21	47.49	80.9
617384	7107656	638397	1370	UTM83-8	WHI11001356	0.7	41	2.9	0.17	0.28	28	24.26	92.9
617385	7107601	638397	1340	UTM83-8	WHI11001356	0.9	105	2.9	0.12	0.21	18	19.54	98.3
617386	7107554	638393	1324	UTM83-8	WHI11001356	0.9	68	5.3	0.09	0.16	43	19.49	87.9
617387	7107503	638398	1325	UTM83-8	WHI11001356	0.5	28	4	0.11	0.14	23	26.44	84.3
617388	7107451	638399	1320	UTM83-8	WHI11001356	0.3	35	6.1	0.12	0.32	25	25.38	81.9
617389	7107403	638399	1303	UTM83-8	WHI11001356	0.6	52	6.2	0.18	0.23	34	34.94	82.4
617390	7107354	638401	1278	UTM83-8	WHI11001356	0.1	59	2.1	0.19	0.12	21	24.84	108
617391	7108201	638502	1544	UTM83-8	WHI11001356	7.9	73	18.5	0.06	1.62	102	21.07	31.3
617392	7108249	638498	1519	UTM83-8	WHI11001356	1.7	41	6.8	0.08	0.83	77	11.67	18.6
617393	7108299	638499	1496	UTM83-8	WHI11001356	0.4	127	12.1	0.09	1.92	329	38.8	32.9
617394	7108349	638502	1461	UTM83-8	WHI11001356	2.9	106	19.2	0.1	2.15	172	26.94	54.2
617395	7108450	638496	1435	UTM83-8	WHI11001356	0.7	213	12.1	0.11	0.76	116	24.18	99.4
617396	7108500	638501	1408	UTM83-8	WHI11001356	1.3	201	10.2	0.16	0.6	96	37.6	123.5
617397	7108546	638502	1433	UTM83-8	WHI11001356	0.1	119	9.3	0.12	0.5	27	25.79	98.9
617398	7108598	638491	1438	UTM83-8	WHI11001356	0.4	98	8.6	0.18	0.42	48	49.51	224.2
617399	7108645	638495	1438	UTM83-8	WHI11001356	0.2	183	11	0.22	0.5	35	57.86	127.8
617400	7108052	638399	1538	UTM83-8	WHI11001356	2.8	57	23.6	0.08	1.69	62	18.96	56.2
617401	7107756	637199	1147	UTM83-8	WHI11001350	1	39	2.2	0.18	0.27	29	23.23	86.5
617402	7107798	637200	1142	UTM83-8	WHI11001350	1.4	49	6.2	0.11	0.44	39	25.5	73.6
617403	7107851	637203	1156	UTM83-8	WHI11001350	0.7	29	6.1	0.11	0.41	23	30.65	60.6
617404	7107901	637194	1145	UTM83-8	WHI11001350	1.5	42	8.8	0.12	0.57	23	46.31	73.1
617405	7107948	637202	1098	UTM83-8	WHI11001350	0.5	44	7.8	0.13	0.64	33	30.13	81.9
617406	7107999	637197	1116	UTM83-8	WHI11001350	0.4	89	5.4	0.15	0.4	21	32.9	71.2
617407	7108048	637202	1094	UTM83-8	WHI11001350	1	66	6.4	0.14	0.43	40	27.76	110.8
617408	7108095	637199	1068	UTM83-8	WHI11001350	1.9	114	12.1	0.15	0.94	69	24.77	90.1
617409	7108151	637203	1075	UTM83-8	WHI11001350	0.1	70	2.8	0.13	0.21	34	19.63	68.6
617410	7108196	637197	1071	UTM83-8	WHI11001350	0.7	77	3.7	0.11	0.24	26	29.89	70
617411	7108252	637203	1041	UTM83-8	WHI11001350	0.1	46	3.9	0.13	0.19	18	40.79	93.7
617412	7108306	637199	1026	UTM83-8	WHI11001350	1.3	171	19.8	0.16	0.9	57	46.44	114.1
617413	7108354	637199	1019	UTM83-8	WHI11001350	0.6	132	7.7	0.13	0.59	137	29	109.3
617414	7108450	637197	980	UTM83-8	WHI11001350	0.3	99	6.3	0.08	0.23	64	19.8	69
617415	7107352	637300	1379	UTM83-8	WHI11001350	0.5	27	8.3	0.12	0.6	39	22.6	81.8

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
617416	7107399	637299	1368	UTM83-8	WHI11001350	0.1	52	7	0.12	0.46	24	26.18	79.2
617417	7107452	637302	1327	UTM83-8	WHI11001350	0.6	38	5.8	0.2	0.27	16	52.07	69.9
617418	7107499	637302	1299	UTM83-8	WHI11001350	0.8	93	3.7	0.15	0.21	24	28.05	78.7
617419	7107552	637301	1276	UTM83-8	WHI11001350	0.3	43	6.6	0.09	0.27	26	29.71	70.9
617420	7107603	637302	1260	UTM83-8	WHI11001350	1	19	6.2	0.11	0.28	23	25.5	55.9
617421	7107649	637300	1230	UTM83-8	WHI11001350	0.4	47	7	0.09	0.32	24	20.76	74
617422	7107691	637294	1218	UTM83-8	WHI11001350	0.1	36	4	0.13	0.34	24	28.68	84.5
617423	7107748	637299	1201	UTM83-8	WHI11001350	0.3	28	7.6	0.1	0.41	21	21.63	70.2
617424	7107798	637298	1184	UTM83-8	WHI11001350	4.1	88	6.4	0.1	0.59	41	20.82	75.4
617425	7107849	637295	1188	UTM83-8	WHI11001350	1.5	88	12.7	0.13	1.23	99	25.47	89.4
617426	7107896	637298	1188	UTM83-8	WHI11001350	0.8	126	10.9	0.1	1.08	86	24.12	71.6
617427	7107947	637301	1178	UTM83-8	WHI11001350	0.2	100	6	0.13	0.36	21	27.5	62.8
617428	7108047	637300	1132	UTM83-8	WHI11001350	1.8	152	11.8	0.15	0.82	87	20.68	89.8
617429	7108096	637301	1129	UTM83-8	WHI11001350	0.6	88	6.7	0.13	0.23	44	48.32	100.4
617430	7108152	637298	1119	UTM83-8	WHI11001350	0.5	20	2.4	0.12	0.21	13	21.39	47.7
617431	7108197	637297	1109	UTM83-8	WHI11001350	2	142	16.8	0.1	2.04	169	25.19	132.6
617432	7108251	637298	1088	UTM83-8	WHI11001350	1.4	49	5.6	0.15	0.29	30	34.63	80.4
617433	7108302	637304	1085	UTM83-8	WHI11001350	0.9	157	8.1	0.09	0.58	181	34.9	92.1
617434	7108350	637301	1059	UTM83-8	WHI11001350	1.8	151	16.1	0.1	1.46	227	34.5	114.8
617435	7108456	637300	1015	UTM83-8	WHI11001350	0.6	170	6.1	0.09	0.24	63	26.62	91.8
617436	7108547	637297	1002	UTM83-8	WHI11001350	0.8	172	6.5	0.09	0.36	77	25.25	100.7
617437	7108597	637301	990	UTM83-8	WHI11001350	0.1	135	6	0.09	0.19	59	31.65	58.7
617438	7108648	637299	982	UTM83-8	WHI11001350	1	78	11.5	0.09	0.73	76	21.2	110
617439	7108651	639404	1573	UTM83-8	WHI11001356	0.1	113	7.1	0.17	0.25	24	40.59	87.6
617440	7108599	639403	1533	UTM83-8	WHI11001356	0.1	169	5.6	0.22	0.29	38	39.34	155.8
617441	7108548	639394	1527	UTM83-8	WHI11001356	0.1	134	6.4	0.19	0.27	35	39.31	131
617442	7108502	639398	1528	UTM83-8	WHI11001356	0.1	91	6.2	0.15	0.18	29	30.55	115.9
617443	7108454	639399	1499	UTM83-8	WHI11001356	1.7	176	16.2	0.15	1.12	315	37.7	123.5
617444	7108400	639401	1492	UTM83-8	WHI11001356	3.7	127	33.3	0.15	1.72	252	26.97	130.8
617445	7108353	639401	1499	UTM83-8	WHI11001356	0.1	11	5	0.05	0.4	33	3.69	7.8
617446	7108302	639400	1480	UTM83-8	WHI11001356	3	149	22.6	0.11	1.74	219	25.89	50.3
617447	7108252	639396	1482	UTM83-8	WHI11001356	0.1	29	5.1	0.07	0.65	31	8.35	19.4
617448	7108196	639399	1451	UTM83-8	WHI11001356	0.6	31	10.8	0.13	1.51	52	10.49	25.7
617449	7108153	639399	1435	UTM83-8	WHI11001356	0.9	216	22	0.12	1.91	484	56.61	93.5
617450	7108096	639401	1376	UTM83-8	WHI11001356	0.3	75	7.4	0.1	1.19	58	19.02	52.6
617501	7108048	639701	1250	UTM83-8	WHI11001351	1	87	10.1	0.13	0.5	63	25.55	73.3
617502	7108005	639696	1251	UTM83-8	WHI11001351	5.6	241	10.5	0.16	0.87	65	28.58	74.6
617503	7107900	639704	1209	UTM83-8	WHI11001351	2	137	6.3	0.13	0.42	47	33.99	82.5
617504	7107850	639704	1185	UTM83-8	WHI11001351	1.9	75	9.5	0.09	0.61	98	31.76	101
617505	7107805	639699	1164	UTM83-8	WHI11001351	2.4	85	8.8	0.08	0.52	116	27.36	79.4
617506	7107756	639700	1161	UTM83-8	WHI11001351	1.5	100	6.3	0.1	0.42	112	18.19	75.5
617507	7107705	639701	1136	UTM83-8	WHI11001351	2.2	128	5.2	0.11	0.36	75	20.25	87.5
617508	7107652	639695	1128	UTM83-8	WHI11001351	1.5	82	6.2	0.08	0.41	87	21.58	90.9
617509	7107598	639696	1111	UTM83-8	WHI11001351	1.9	94	7.5	0.08	0.5	114	24.65	103.6
617510	7107549	639695	1106	UTM83-8	WHI11001351	2.3	84	8	0.08	0.51	140	25.28	79.2
617511	7107501	639694	1134	UTM83-8	WHI11001351	2	92	8.8	0.08	0.55	133	26.64	80.6
617512	7107451	639693	1131	UTM83-8	WHI11001351	1.1	81	6.4	0.09	0.37	57	21.32	68.9
617513	7107405	639699	1128	UTM83-8	WHI11001351	1.4	66	5.7	0.09	0.33	78	21.25	74.3
617514	7107352	639700	1141	UTM83-8	WHI11001351	1.8	57	9.1	0.09	0.31	78	29.72	81.3
617515	7108656	639797	1553	UTM83-8	WHI11001351	0.5	134	6.9	0.14	0.2	39	30.3	109.7
617516	7108598	639796	1522	UTM83-8	WHI11001351	0.8	114	6.8	0.26	0.18	34	26.71	95.6
617517	7108547	639796	1470	UTM83-8	WHI11001351	0.6	113	8.3	0.25	0.23	97	37.03	75.3
617518	7108500	639800	1453	UTM83-8	WHI11001351	7	120	27	0.09	1.85	164	24.81	83.3
617519	7108451	639795	1433	UTM83-8	WHI11001351	7.2	116	20.8	0.09	2.07	286	19.98	126.4
617520	7108400	639795	1445	UTM83-8	WHI11001351	2.9	88	11.2	0.1	0.81	76	18.53	74.4
617521	7108354	639800	1411	UTM83-8	WHI11001351	9.1	185	19.9	0.19	1.38	223	29.23	134.1
617522	7108300	639798	1378	UTM83-8	WHI11001351	1.9	75	18.8	0.18	1.75	111	40.12	76.8
617523	7108255	639802	1362	UTM83-8	WHI11001351	1.2	52	17.6	0.12	0.85	31	29.75	74.6
617524	7108202	639803	1358	UTM83-8	WHI11001351	0.8	32	9.7	0.1	0.26	16	9.54	31.4
617525	7108153	639803	1332	UTM83-8	WHI11001351	1.9	83	29.2	0.11	0.79	226	27.2	87.8
617526	7108055	639796	1294	UTM83-8	WHI11001351	1.1	60	10.1	0.1	0.8	104	21.33	67.1
617527	7108001	639793	1298	UTM83-8	WHI11001351	3	114	8.3	0.11	0.52	26	17.84	65.8

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
617528	7107950	639801	1277	UTM83-8	WHI11001351	1.1	78	5.8	0.12	0.29	37	31.12	81.1
617529	7107903	639796	1253	UTM83-8	WHI11001351	0.7	110	5.9	0.1	0.31	32	22.54	69.1
617530	7107853	639801	1246	UTM83-8	WHI11001351	0.1	85	7.1	0.09	0.36	84	23.19	65.7
617531	7107807	639797	1239	UTM83-8	WHI11001351	2.1	68	6.1	0.16	0.39	37	41.09	94.3
617532	7107754	639801	1213	UTM83-8	WHI11001351	1.5	90	4.6	0.13	0.21	28	20.38	68.8
617533	7107702	639803	1182	UTM83-8	WHI11001351	2.1	78	8.3	0.08	0.45	96	26.19	91.3
617534	7107604	639799	1166	UTM83-8	WHI11001351	0.8	186	7.5	0.09	0.38	24	44.3	87.7
617535	7107555	639800	1151	UTM83-8	WHI11001351	1.9	84	3.5	0.16	0.21	36	66.41	117.6
617536	7107454	639798	1142	UTM83-8	WHI11001351	2.6	145	9.1	0.12	0.41	81	33.81	82.8
617537	7107405	639797	1144	UTM83-8	WHI11001351	0.7	45	5	0.11	0.2	54	19.73	70.9
617538	7107347	639800	1140	UTM83-8	WHI11001351	1.3	43	7.4	0.09	0.36	72	23.17	86.3
617539	7107154	632599	1140	UTM83-8	WHI11001351	0.8	32	4.6	0.09	0.22	24	15.51	51.7
617540	7107103	632599	1116	UTM83-8	WHI11001351	1.8	73	4.9	0.11	0.22	49	27.04	73.9
617541	7107003	632598	1079	UTM83-8	WHI11001351	1.4	112	4.1	0.13	0.14	63	23.67	75.6
617542	7106948	632597	1072	UTM83-8	WHI11001351	1.1	128	7.2	0.12	0.27	22	19.02	57.2
617543	7106901	632603	1060	UTM83-8	WHI11001351	0.6	173	5.3	0.11	0.2	28	25.89	49.1
617544	7106853	632599	1050	UTM83-8	WHI11001351	2	87	7.3	0.11	0.32	22	21.73	59
617545	7106804	632594	1037	UTM83-8	WHI11001351	0.7	53	6	0.11	0.13	18	24.46	81.9
617546	7106751	632596	1022	UTM83-8	WHI11001351	0.9	37	6.6	0.1	0.14	20	27.53	84.7
617547	7106698	632597	1005	UTM83-8	WHI11001351	0.3	61	5.2	0.1	0.15	17	24.75	66.1
617548	7106650	632599	992	UTM83-8	WHI11001351	0.3	61	5.2	0.11	0.16	17	24.64	73.6
617549	7106601	632598	972	UTM83-8	WHI11001351	1.3	84	5.6	0.11	0.18	43	24.44	73.6
617550	7106552	632595	964	UTM83-8	WHI11001351	0.6	37	4.7	0.11	0.19	17	21.11	54.4
617551	7108054	639395	1345	UTM83-8	WHI11001356	0.8	118	6.2	0.1	0.68	68	16.86	50.9
617552	7108002	639397	1312	UTM83-8	WHI11001356	0.7	67	4.7	0.06	0.6	67	18.84	31.9
617553	7107950	639399	1282	UTM83-8	WHI11001356	0.7	71	6.7	0.08	0.7	65	21.28	142.3
617554	7107901	639399	1280	UTM83-8	WHI11001356	11.8	59	5.2	0.13	0.33	31	36.36	89.7
617555	7107851	639403	1308	UTM83-8	WHI11001356	0.4	42	7	0.12	0.56	40	19.52	56
617556	7107801	639394	1296	UTM83-8	WHI11001356	0.6	98	5.2	0.17	0.4	28	37.51	83.6
617557	7107753	639403	1266	UTM83-8	WHI11001356	0.2	122	2.9	0.21	0.26	17	19.83	99.9
617558	7107697	639400	1232	UTM83-8	WHI11001356	2.1	117	5.8	0.09	0.39	59	27.94	87.4
617559	7107653	639401	1248	UTM83-8	WHI11001356	0.6	166	5.1	0.1	0.17	36	24.84	64.5
617560	7107602	639403	1258	UTM83-8	WHI11001356	0.8	45	6	0.11	0.33	41	46.21	117.8
617561	7107555	639400	1270	UTM83-8	WHI11001356	0.1	124	4.7	0.13	0.27	28	26.95	108.2
617562	7107502	639395	1250	UTM83-8	WHI11001356	0.3	128	4	0.1	0.23	29	27.11	81.7
617563	7107455	639398	1236	UTM83-8	WHI11001356	0.3	277	5.4	0.14	0.29	43	26.18	111.2
617564	7107406	639399	1230	UTM83-8	WHI11001356	0.6	118	4.9	0.11	0.22	22	35.23	83
617565	7107348	639403	1198	UTM83-8	WHI11001356	1.6	130	6.4	0.13	0.22	23	47.57	89.7
617566	7108650	639497	1575	UTM83-8	WHI11001356	0.5	190	5.5	0.16	0.21	34	30.28	120.6
617567	7108599	639499	1541	UTM83-8	WHI11001356	0.7	168	7.1	0.18	0.34	30	45.84	137.5
617568	7108553	639500	1514	UTM83-8	WHI11001356	0.5	88	8.2	0.17	0.34	34	38.85	153.4
617569	7108503	639496	1483	UTM83-8	WHI11001356	1.2	205	10.3	0.3	0.38	76	44.12	246.6
617570	7108453	639499	1437	UTM83-8	WHI11001356	0.7	208	8.1	0.18	0.31	46	37.47	142.2
617571	7108405	639499	1434	UTM83-8	WHI11001356	1.8	156	16.9	0.13	1	95	33.08	104.2
617572	7108352	639502	1429	UTM83-8	WHI11001356	1.1	74	11.9	0.13	2.18	61	12.54	130.5
617573	7108303	639494	1418	UTM83-8	WHI11001356	3.1	165	13.8	0.12	1.25	149	26.3	128.1
617574	7108248	639502	1420	UTM83-8	WHI11001356	0.9	85	20.3	0.14	1.68	112	19.25	50.2
617575	7108200	639501	1418	UTM83-8	WHI11001356	0.7	75	9.9	0.09	1.39	71	20.46	48.3
617576	7108150	639496	1417	UTM83-8	WHI11001356	2.3	89	15.3	0.1	2.29	67	27.56	124.6
617577	7108003	639495	1292	UTM83-8	WHI11001356	0.3	114	6.9	0.09	0.75	57	16.92	46.3
617578	7107946	639497	1256	UTM83-8	WHI11001356	0.7	73	6.1	0.1	0.45	23	19.81	48.1
617579	7107901	639504	1246	UTM83-8	WHI11001356	1.3	115	10.2	0.11	0.78	84	27.16	102.1
617580	7107850	639500	1265	UTM83-8	WHI11001356	3	103	8.8	0.13	0.85	72	26.85	88.8
617581	7107801	639495	1263	UTM83-8	WHI11001356	0.5	100	4.6	0.13	0.35	43	35.05	91.5
617582	7107755	639496	1233	UTM83-8	WHI11001356	0.7	101	6.1	0.17	0.45	26	34.88	84.8
617583	7107697	639498	1206	UTM83-8	WHI11001356	3.1	58	6.8	0.09	0.37	53	32.39	90.6
617584	7107654	639501	1215	UTM83-8	WHI11001356	2.4	121	8.4	0.07	0.57	114	24.64	92.1
617585	7107603	639502	1221	UTM83-8	WHI11001356	1.6	46	6.8	0.06	0.39	99	24.06	74.9
617586	7107551	639503	1231	UTM83-8	WHI11001356	0.9	30	9	0.07	0.51	38	21.1	63.8
617587	7107499	639497	1208	UTM83-8	WHI11001356	1.1	60	3.8	0.14	0.23	27	46.62	95.6
617588	7107454	639501	1177	UTM83-8	WHI11001356	0.8	114	3.5	0.1	0.24	26	28.25	102.1
617589	7107353	639501	1124	UTM83-8	WHI11001356	1.4	117	10.5	0.11	0.24	31	85.33	88.1

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
617590	7108649	639700	1514	UTM83-8	WHI11001351	3.9	275	9.6	0.27	0.38	38	55.43	138.9
617591	7108599	639703	1492	UTM83-8	WHI11001351	1	200	7.4	0.16	0.28	40	42.13	123.6
617592	7108555	639697	1460	UTM83-8	WHI11001351	0.3	226	5.4	0.1	0.23	28	22	83
617593	7108505	639699	1424	UTM83-8	WHI11001351	1.7	129	7	0.18	0.28	95	34.35	96.1
617594	7108449	639698	1418	UTM83-8	WHI11001351	0.2	183	7.6	0.16	0.27	49	39.04	111.1
617595	7108399	639693	1381	UTM83-8	WHI11001351	4.7	85	17	0.07	2	74	23.49	40.7
617596	7108355	639697	1360	UTM83-8	WHI11001351	7.2	279	39.6	0.16	4.17	360	56.89	69.6
617597	7108301	639694	1332	UTM83-8	WHI11001351	3.9	168	17.3	0.13	1.46	142	36.01	91.5
617598	7108248	639694	1304	UTM83-8	WHI11001351	5.6	70	13.1	0.13	1.37	264	25.53	110.1
617599	7108198	639704	1290	UTM83-8	WHI11001351	5.4	123	15.2	0.12	1.24	119	28.74	89.2
617600	7108152	639699	1297	UTM83-8	WHI11001351	3.3	141	15	0.13	1.4	102	34.58	111.1
617601	7108594	637603	1069	UTM83-8	WHI11001356	3.2	176	7.7	0.1	0.36	98	18.85	81.1
617602	7107596	637600	1384	UTM83-8	WHI11001356	1	130	6.8	0.26	0.32	38	100.05	101.4
617603	7107502	637598	1405	UTM83-8	WHI11001356	0.7	46	6.8	0.17	0.42	37	51.19	95.7
617604	7107399	637602	1415	UTM83-8	WHI11001356	1.3	81	7.8	0.14	0.48	43	34.12	84.4
617605	7107398	637697	1402	UTM83-8	WHI11001356	0.7	66	9	0.14	0.49	36	35.35	74.1
617606	7107501	637699	1434	UTM83-8	WHI11001356	1.2	73	6.7	0.18	0.6	22	18.91	58.9
617607	7107598	637693	1432	UTM83-8	WHI11001356	1	58	5.9	0.15	0.32	35	22.06	57.7
617608	7107702	637692	1411	UTM83-8	WHI11001356	0.5	69	4.6	0.11	0.19	27	39.04	80
617609	7107801	637699	1392	UTM83-8	WHI11001356	1.5	35	4.1	0.15	0.28	27	41.64	88.5
617610	7107898	637703	1351	UTM83-8	WHI11001356	1.6	67	3	0.17	0.2	25	62.63	96.2
617611	7108101	637695	1306	UTM83-8	WHI11001356	1.8	115	13.7	0.11	3.61	158	38.18	123.2
617612	7108201	637697	1247	UTM83-8	WHI11001356	2.5	129	19	0.15	2.97	156	26.03	90.8
617613	7108305	637702	1189	UTM83-8	WHI11001356	2.3	152	12.5	0.09	1.54	189	28.93	92.5
617614	7108402	637701	1144	UTM83-8	WHI11001356	2.2	141	8.6	0.09	1.28	171	26.54	96.8
617615	7108498	637693	1096	UTM83-8	WHI11001356	2.4	157	8.4	0.12	0.56	88	23.88	85.2
617616	7108598	637695	1094	UTM83-8	WHI11001356	1.9	99	10.7	0.09	0.4	43	25.21	73.2
617617	7108651	638803	1617	UTM83-8	WHI11001356	0.3	237	8.8	0.14	0.36	60	40.68	99.8
617618	7108553	638798	1597	UTM83-8	WHI11001356	0.1	159	7.9	0.15	0.21	157	39.18	106.5
617619	7108452	638798	1589	UTM83-8	WHI11001356	2.2	69	8.6	0.08	0.94	86	16.05	46.7
617620	7108350	638799	1621	UTM83-8	WHI11001356	4.6	98	20	0.09	3.3	143	19.97	46.6
617621	7108253	638797	1653	UTM83-8	WHI11001356	3.5	73	11.4	0.07	1.77	110	20.16	24
617622	7108153	638802	1606	UTM83-8	WHI11001356	1.6	57	7.9	0.04	0.78	102	13.07	53.4
617623	7108058	638797	1578	UTM83-8	WHI11001356	5.1	104	18.5	0.1	3	202	37.38	24
617624	7107953	638799	1517	UTM83-8	WHI11001356	2.9	63	9.8	0.04	0.92	69	14.34	31.5
617625	7107852	638801	1523	UTM83-8	WHI11001356	1.7	56	6	0.11	0.56	75	30.92	76.6
617626	7107753	638799	1498	UTM83-8	WHI11001356	0.3	43	3.1	0.15	0.42	43	36.16	84
617627	7107656	638801	1443	UTM83-8	WHI11001356	0.4	48	6.1	0.13	0.37	39	36.37	82
617628	7107553	638799	1407	UTM83-8	WHI11001356	0.5	33	6.3	0.05	0.15	21	46.04	108.3
617629	7107451	638798	1354	UTM83-8	WHI11001356	0.5	111	5.9	0.12	0.31	31	21.1	84.2
617630	7107350	638797	1313	UTM83-8	WHI11001356	0.2	160	5.7	0.14	0.28	36	25.42	102.8
617631	7108601	638899	1659	UTM83-8	WHI11001356	0.8	307	8.2	0.15	0.25	53	31.11	128.9
617632	7108499	638896	1646	UTM83-8	WHI11001356	13.9	170	35.1	0.11	3.63	237	41.31	28.5
617633	7108401	638897	1655	UTM83-8	WHI11001356	5.8	34	10.7	0.11	1.11	50	15.1	21.2
617634	7108304	638896	1623	UTM83-8	WHI11001356	2.8	57	6.7	0.06	1.09	32	12.57	15.2
617635	7108201	638896	1575	UTM83-8	WHI11001356	2.8	89	10.9	0.1	1.26	71	21.29	85.3
617636	7108102	638898	1566	UTM83-8	WHI11001356	5.1	116	22.4	0.13	2.13	245	29.79	111.5
617637	7108000	638898	1540	UTM83-8	WHI11001356	1.8	39	11.3	0.09	0.56	37	23.46	34.7
617638	7107901	638899	1497	UTM83-8	WHI11001356	3.5	122	10.4	0.08	0.81	83	14.62	88.9
617639	7107801	638899	1517	UTM83-8	WHI11001356	1.4	52	3.5	0.13	0.51	43	31.43	75.3
617640	7107701	638899	1469	UTM83-8	WHI11001356	1.5	32	4.6	0.16	0.4	35	22.21	73.1
617641	7107601	638899	1458	UTM83-8	WHI11001356	1.2	30	5.9	0.13	0.37	23	16.77	62.4
617642	7107498	638900	1421	UTM83-8	WHI11001356	1.1	55	5.6	0.1	0.24	31	38.42	90.7
617643	7107400	638900	1376	UTM83-8	WHI11001356	0.7	48	4.7	0.15	0.24	37	46.03	121.7
617644	7108452	640697	1407	UTM83-8	WHI11001351	2.7	78	13.7	0.12	1.29	77	11.14	27.5
617645	7108154	640702	1237	UTM83-8	WHI11001351	0.1	28	2.7	0.15	0.25	11	26.13	80.3
617646	7108047	640697	1254	UTM83-8	WHI11001351	0.5	57	3.2	0.09	0.21	25	27.35	80.1
617647	7107949	640704	1279	UTM83-8	WHI11001351	0.1	34	5.5	0.1	0.47	36	23.96	62.8
617648	7107848	640697	1270	UTM83-8	WHI11001351	1	38	2.2	0.15	0.3	59	23.98	74.3
617649	7107754	640700	1241	UTM83-8	WHI11001351	0.1	101	1.2	0.17	0.21	22	13.74	106.4
617650	7107652	640697	1189	UTM83-8	WHI11001351	0.1	135	3.4	0.12	0.17	16	21.56	99.4
617651	7108552	639297	1586	UTM83-8	WHI11001351	0.1	261	10.2	0.11	0.31	38	60.76	137.9

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
617652	7108500	639298	1565	UTM83-8	WHI11001351	0.1	164	7.7	0.12	0.22	60	30.1	112.8
617653	7108452	639301	1563	UTM83-8	WHI11001351	0.3	199	21.7	0.11	1.37	363	61.08	119.7
617654	7108402	639301	1559	UTM83-8	WHI11001351	2.3	553	31	0.12	2.47	640	84.93	65.7
617655	7108352	639295	1558	UTM83-8	WHI11001351	5.3	198	29.1	0.13	3.22	246	43.55	122.6
617656	7108298	639295	1533	UTM83-8	WHI11001351	0.1	31	5.3	0.02	0.54	24	7.25	19.3
617657	7108254	639297	1500	UTM83-8	WHI11001351	5.1	145	27.1	0.1	1.91	220	28.37	54.4
617658	7108203	639299	1475	UTM83-8	WHI11001351	0.5	58	11.1	0.06	0.92	40	9.9	38.7
617659	7108155	639301	1446	UTM83-8	WHI11001351	2.7	280	24.7	0.09	2.71	293	45.03	76.9
617660	7108004	639299	1315	UTM83-8	WHI11001351	2.1	111	12.9	0.06	1.14	96	60.54	284
617661	7107904	639303	1329	UTM83-8	WHI11001351	0.1	102	9.8	0.11	0.84	58	21.83	88.2
617662	7107857	639300	1295	UTM83-8	WHI11001351	0.1	39	8.8	0.1	0.62	29	17.54	61
617663	7107806	639300	1334	UTM83-8	WHI11001351	0.1	83	5	0.11	0.34	43	43.8	82.2
617664	7107755	639296	1318	UTM83-8	WHI11001351	0.5	129	8.6	0.11	0.43	104	66.53	88.2
617665	7107706	639298	1241	UTM83-8	WHI11001351	0.7	47	9.6	0.11	0.92	130	26.47	84.4
617666	7107651	639305	1257	UTM83-8	WHI11001351	0.1	53	8.8	0.07	0.68	66	31.37	86.7
617667	7107597	639301	1205	UTM83-8	WHI11001351	0.1	93	6.6	0.09	0.42	38	23.05	62.6
617668	7107550	639297	1277	UTM83-8	WHI11001351	0.1	208	7.8	0.08	0.33	26	32.48	107.3
617669	7107504	639303	1165	UTM83-8	WHI11001351	3.7	131	10.7	0.13	0.98	61	27.82	81.9
617670	7107450	639304	1089	UTM83-8	WHI11001351	1.1	29	8.4	0.12	0.38	20	35.16	98.3
617671	7107401	639300	1323	UTM83-8	WHI11001351	1	132	6	0.16	0.36	32	31.08	113
617672	7107353	639301	1329	UTM83-8	WHI11001351	1.3	230	5.1	0.16	0.26	60	48.2	99.1
617673	7108658	639601	1494	UTM83-8	WHI11001351	1.8	211	7.5	0.21	0.38	122	39.97	175.5
617674	7108605	639602	1473	UTM83-8	WHI11001351	2.1	193	9.8	0.24	0.42	36	54.66	110.3
617675	7108551	639596	1477	UTM83-8	WHI11001351	0.8	245	7.7	0.15	0.45	29	31.11	102.9
617676	7108506	639599	1468	UTM83-8	WHI11001351	0.1	172	6.7	0.21	0.27	30	40.37	107.9
617677	7108459	639599	1449	UTM83-8	WHI11001351	0.9	116	6.9	0.16	0.32	37	25.96	97
617678	7108404	639590	1430	UTM83-8	WHI11001351	2.5	190	21.8	0.14	1.28	243	29.37	88.5
617679	7108344	639593	1371	UTM83-8	WHI11001351	1.4	32	7.6	0.05	0.86	22	8.55	14.3
617680	7108307	639600	1340	UTM83-8	WHI11001351	0.8	213	9.3	0.27	0.33	46	49.94	189.4
617681	7107153	633102	1188	UTM83-8	WHI11001352	0.7	79	7.3	0.1	0.28	23	42.28	93
617682	7107104	633103	1196	UTM83-8	WHI11001352	0.8	202	13.5	0.16	0.68	91	66.42	191
617683	7107052	633096	1183	UTM83-8	WHI11001352	0.9	39	3.5	0.13	0.17	15	22.34	33.2
617684	7107001	633101	1195	UTM83-8	WHI11001352	0.3	83	6.3	0.11	0.22	18	20.31	102
617685	7106951	633102	1146	UTM83-8	WHI11001352	0.9	133	6.5	0.1	0.22	13	19.86	102.8
617686	7106904	633102	1139	UTM83-8	WHI11001352	0.8	87	6.1	0.12	0.22	20	23.84	91.3
617687	7106853	633096	1075	UTM83-8	WHI11001352	0.3	133	4.2	0.12	0.21	17	21.17	94.9
617688	7106803	633098	1040	UTM83-8	WHI11001352	0.8	289	5.6	0.12	0.34	15	11.57	64.4
617689	7106751	633098	1070	UTM83-8	WHI11001352	0.9	78	7.2	0.15	0.22	10	40.86	85
617690	7106701	633097	1053	UTM83-8	WHI11001352	0.6	42	5.6	0.11	0.2	11	11.79	53.4
617691	7106657	633100	1017	UTM83-8	WHI11001352	0.8	76	3.9	0.09	0.18	12	12.7	50.6
617692	7106604	633101	879	UTM83-8	WHI11001352	0.5	69	7.6	0.13	0.14	15	25.73	97.7
617694	7106451	633098	879	UTM83-8	WHI11001352	3.6	286	5.8	0.13	0.15	98	31.16	94.5
617695	7106403	633096	880	UTM83-8	WHI11001352	4.8	106	7	0.1	0.23	67	30.91	117.6
617696	7106304	633095	862	UTM83-8	WHI11001352	1.6	96	7	0.1	0.47	37	26.57	88.9
617697	7106251	633094	860	UTM83-8	WHI11001352	2.5	79	6.7	0.07	0.23	40	22.01	83
617698	7106199	633100	850	UTM83-8	WHI11001352	1.1	43	5.7	0.07	0.19	20	19.8	93.8
617699	7106149	633097	837	UTM83-8	WHI11001352	1.1	28	4.8	0.08	0.21	10	20.19	79.1
617700	7106104	633097	829	UTM83-8	WHI11001352	0.7	30	4.5	0.08	0.21	23	17.81	83.7
617701	7107787	354898	931	UTM83-9		0	0	0	0	0	0	0	0
617702	7107737	354896	924	UTM83-9		0	0	0	0	0	0	0	0
617703	7107691	354897	918	UTM83-9		0	0	0	0	0	0	0	0
617751	7108247	635900	1128	UTM83-8	WHI11001349	0.6	38	9.3	0.11	0.5	20	23.36	73.2
617752	7108195	635897	1094	UTM83-8	WHI11001349	1.4	50	9.8	0.14	0.55	46	23.38	70.9
617753	7108152	635898	1076	UTM83-8	WHI11001349	0.1	14	9.1	0.09	0.54	9	20.69	43.4
617754	7108102	635900	1056	UTM83-8	WHI11001349	0.8	62	8.8	0.13	0.56	41	22.23	64
617755	7108051	635900	1034	UTM83-8	WHI11001349	0.5	124	9.6	0.11	0.61	51	22.2	68.3
617756	7108000	635900	1011	UTM83-8	WHI11001349	0.1	31	9.1	0.1	0.39	32	26.77	65
617757	7108650	636597	1135	UTM83-8	WHI11001350	3.4	57	9.6	0.1	0.56	38	30.51	73
617758	7108602	636598	1111	UTM83-8	WHI11001350	2.6	40	8.6	0.13	0.44	13	23.83	70.4
617759	7108554	636598	1077	UTM83-8	WHI11001350	1.9	114	10.7	0.1	0.52	45	31.55	132.6
617760	7108506	636598	1059	UTM83-8	WHI11001350	2.2	101	8.7	0.09	0.54	66	25.55	85.8
617761	7108451	636596	1065	UTM83-8	WHI11001350	2	134	10.1	0.1	0.62	74	29.59	103.1

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
617762	7108408	636595	1056	UTM83-8	WHI11001350	2.2	74	8.7	0.09	0.54	65	26.28	89.8
617763	7108347	636597	1041	UTM83-8	WHI11001350	2	63	9	0.11	0.51	42	21.46	80.1
617764	7108302	636595	1023	UTM83-8	WHI11001350	1	77	8.1	0.09	0.53	36	18.68	105.5
617765	7108248	636596	1003	UTM83-8	WHI11001350	1.3	88	9	0.09	0.43	50	22.07	72.1
617766	7108249	636695	975	UTM83-8	WHI11001350	2.2	192	8.1	0.09	0.6	134	19.88	101.7
617767	7108297	636700	998	UTM83-8	WHI11001350	0.5	60	7.8	0.12	0.48	29	18.29	102.7
617768	7108348	636693	993	UTM83-8	WHI11001350	0.6	31	8.4	0.13	0.36	18	21.83	78.4
617769	7108403	636700	1012	UTM83-8	WHI11001350	1.2	102	9.2	0.07	0.46	41	27.38	123.8
617770	7108447	636697	1018	UTM83-8	WHI11001350	1.3	147	9.4	0.07	0.45	47	36.7	128.3
617771	7108498	636696	1045	UTM83-8	WHI11001350	0.9	98	10.1	0.08	0.9	51	26.06	73.7
617772	7108551	636699	1076	UTM83-8	WHI11001350	0.8	92	13	0.14	0.76	60	28.61	130.8
617773	7108596	636696	1082	UTM83-8	WHI11001350	1.2	143	11.2	0.1	0.6	62	26.88	98
617774	7108642	636696	1110	UTM83-8	WHI11001350	1.6	154	9	0.14	0.46	74	21.12	186.5
617775	7108652	636793	1095	UTM83-8	WHI11001350	0.9	127	9.1	0.11	0.5	56	22.21	64.3
617776	7108546	636803	1053	UTM83-8	WHI11001350	0.9	106	7.8	0.1	0.47	58	22.33	109.6
617777	7108507	636799	1041	UTM83-8	WHI11001350	0.8	125	6.3	0.06	0.49	71	23.67	48.3
617778	7108452	636798	1022	UTM83-8	WHI11001350	0.7	27	6.6	0.14	0.32	14	17.49	46.7
617779	7108404	636799	1006	UTM83-8	WHI11001350	0.5	11	11.4	0.1	0.42	23	31.95	113.6
617780	7107351	637099	1338	UTM83-8	WHI11001356	1	38	7.5	0.14	0.58	25	17.45	73.4
617781	7107399	637101	1314	UTM83-8	WHI11001356	2.7	31	6	0.12	0.35	23	35.35	84.8
617782	7107450	637099	1277	UTM83-8	WHI11001356	6	138	9.7	0.2	0.55	41	82.83	87.1
617783	7107500	637097	1261	UTM83-8	WHI11001356	2.7	75	6.3	0.11	0.43	32	31.83	89.3
617784	7107549	637098	1253	UTM83-8	WHI11001356	1.8	134	6.6	0.15	0.21	39	62.45	106.2
617785	7107599	637098	1230	UTM83-8	WHI11001356	1.8	83	8	0.11	0.3	37	45.01	88.6
617786	7107648	637098	1213	UTM83-8	WHI11001356	2.3	89	5.3	0.1	0.32	32	22.4	63.4
617787	7107697	637099	1191	UTM83-8	WHI11001356	1.1	121	7.6	0.14	0.93	42	30.75	76.2
617788	7107751	637100	1154	UTM83-8	WHI11001356	1	40	2.4	0.15	0.42	24	29.36	43
617789	7107801	637100	1117	UTM83-8	WHI11001356	2.1	41	4.9	0.13	0.46	31	27.36	81.2
617790	7107849	637101	1084	UTM83-8	WHI11001356	1.7	41	5.3	0.11	0.27	14	31.77	85.9
617791	7107907	637096	1059	UTM83-8	WHI11001356	2.9	102	6.2	0.15	0.39	41	37.53	81.4
617792	7107950	637108	1055	UTM83-8	WHI11001356	0.9	41	5.9	0.13	0.37	11	32.8	75.4
617793	7108003	637102	1050	UTM83-8	WHI11001356	2.8	102	9.4	0.14	0.7	80	28.65	72.1
617794	7108050	637100	1039	UTM83-8	WHI11001356	1.7	67	12.1	0.1	0.76	78	28.94	79
617795	7108099	637100	1033	UTM83-8	WHI11001356	2.6	85	10.9	0.12	0.47	103	27.99	91.8
617796	7108147	637100	1028	UTM83-8	WHI11001356	2.2	90	12.5	0.13	0.72	70	29.88	88.6
617797	7108198	637100	1012	UTM83-8	WHI11001356	3	149	17.9	0.15	1.15	90	25.94	108
617798	7108247	637100	1002	UTM83-8	WHI11001356	2.6	78	19.9	0.35	1.1	97	37.07	72.2
617799	7107349	636994	1275	UTM83-8	WHI11001356	1	50	6.1	0.11	0.36	19	18.83	102
617800	7107400	637000	1278	UTM83-8	WHI11001356	1	79	6.4	0.13	0.33	48	35.59	87.8
617801	7108053	634190	1277	UTM83-8	WHI11001349	0.4	82	6.2	0.17	0.38	27	26.91	86.7
617802	7108012	634197	1256	UTM83-8	WHI11001349	2	195	9.8	0.11	0.64	66	27.95	146.6
617803	7107896	634190	1199	UTM83-8	WHI11001349	1.1	150	10.2	0.1	0.35	32	31.84	98.2
617804	7107856	634196	1193	UTM83-8	WHI11001349	1.2	154	9.8	0.11	0.33	21	31.3	96.1
617805	7107803	634195	1178	UTM83-8	WHI11001349	1.2	123	8.8	0.09	0.62	104	23.65	79.2
617806	7107753	634193	1163	UTM83-8	WHI11001349	0.6	117	4.3	0.11	0.25	59	21.74	116.7
617807	7107700	634193	1141	UTM83-8	WHI11001349	0.6	103	5.8	0.11	0.28	40	23.12	81.8
617808	7107641	634190	1125	UTM83-8	WHI11001349	0.8	242	6	0.11	0.29	87	26.13	124.7
617809	7107541	634205	1104	UTM83-8	WHI11001349	0.6	124	4.8	0.08	0.27	55	19.81	94.9
617810	7107457	634216	1076	UTM83-8	WHI11001349	0.9	61	5.8	0.1	0.22	49	22.23	77.5
617811	7107410	634196	1062	UTM83-8	WHI11001349	1	208	5.9	0.11	0.31	55	18.38	67.8
617812	7107355	634192	1069	UTM83-8	WHI11001349	0.4	75	5.7	0.1	0.26	18	23.98	87.4
617813	7107305	634191	1079	UTM83-8	WHI11001349	0.1	75	6.2	0.11	0.19	21	30.54	85.7
617814	7107255	634199	1093	UTM83-8	WHI11001349	0.1	82	4.7	0.11	0.24	27	21.43	73.5
617815	7107210	634196	1112	UTM83-8	WHI11001349	0.1	159	7	0.12	0.37	29	21.94	52.5
617816	7108602	635989	1346	UTM83-8	WHI11001349	5.8	189	14.5	0.13	2.07	159	30.34	18.9
617817	7108555	636002	1311	UTM83-8	WHI11001349	0.1	40	4.1	0.05	0.23	22	6.73	12.9
617818	7108503	636007	1276	UTM83-8	WHI11001349	1.3	79	11.8	0.14	0.62	23	21.4	81
617819	7108454	635998	1239	UTM83-8	WHI11001349	0.6	128	6.4	0.09	0.44	57	10.37	36.1
617820	7108408	636005	1201	UTM83-8	WHI11001349	1.5	93	14.4	0.18	1.05	21	33.07	72.4
617821	7108336	635996	1168	UTM83-8	WHI11001349	0.3	45	11	0.18	0.64	34	29.9	68.1
617822	7108310	636004	1153	UTM83-8	WHI11001349	2.1	136	7.5	0.1	0.45	67	22.18	49
617823	7108263	635996	1111	UTM83-8	WHI11001349	0.4	67	9.1	0.13	0.44	29	22.67	61.7

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
617824	7108204	636001	1100	UTM83-8	WHI11001349	0.2	140	9.1	0.13	0.59	47	22.55	82.6
617825	7108155	635998	1059	UTM83-8	WHI11001349	0.5	49	9.4	0.16	0.39	31	23.8	80.6
617826	7108106	636001	1028	UTM83-8	WHI11001349	0.9	39	9.5	0.13	0.38	30	22.27	74.6
617827	7108057	635992	1001	UTM83-8	WHI11001349	0.5	98	11.1	0.12	0.51	42	23.65	77.3
617828	7108000	635999	985	UTM83-8	WHI11001349	0.4	73	9.6	0.11	0.52	61	20.58	64
617829	7107342	636586	1103	UTM83-8	WHI11001349	3.4	503	5.1	0.16	0.34	90	26.04	63.8
617830	7107402	636593	1080	UTM83-8	WHI11001349	1.2	37	3.2	0.2	0.22	17	40.11	80.1
617831	7107453	636595	1058	UTM83-8	WHI11001349	0.4	52	5.1	0.15	0.33	15	32.73	83.4
617832	7107494	636599	1030	UTM83-8	WHI11001349	1.8	84	7.2	0.13	0.45	17	35.17	86.7
617833	7107545	636597	1022	UTM83-8	WHI11001349	0.8	49	6.4	0.14	0.4	14	27.12	79.6
617834	7107597	636597	1013	UTM83-8	WHI11001349	1	56	6.1	0.17	0.37	16	35.15	94.2
617835	7107698	636594	979	UTM83-8	WHI11001349	1.7	116	7.1	0.13	0.52	43	28.58	86.7
617836	7107754	636600	955	UTM83-8	WHI11001349	0.8	19	5.3	0.09	0.25	11	20.77	91.8
617837	7107347	636706	1133	UTM83-8	WHI11001349	0.9	251	5.4	0.11	0.25	45	34.75	108.3
617838	7107396	636706	1113	UTM83-8	WHI11001349	0.4	19	4.8	0.12	0.26	26	29.81	84.9
617839	7107448	636690	1107	UTM83-8	WHI11001349	0.2	59	4.1	0.11	0.26	15	24.19	75.7
617840	7107502	636694	1096	UTM83-8	WHI11001349	0.1	102	7	0.08	0.5	16	27.3	65.9
617841	7107545	636700	1084	UTM83-8	WHI11001349	1.1	68	4.6	0.15	0.34	20	27.87	88.1
617842	7107596	636703	1069	UTM83-8	WHI11001349	0.7	48	5.2	0.12	0.39	10	17.84	63.1
617843	7107652	636707	1040	UTM83-8	WHI11001349	1	139	9.5	0.17	0.42	43	70.47	103.2
617844	7107702	636700	1016	UTM83-8	WHI11001349	2.5	42	7.4	0.16	0.39	17	49.69	115.9
617845	7107745	636698	994	UTM83-8	WHI11001349	0.6	22	6	0.11	0.28	7	40.84	95.8
617846	7107804	636689	971	UTM83-8	WHI11001349	0.5	19	5.3	0.11	0.2	2	33.41	109
617847	7107850	636692	965	UTM83-8	WHI11001349	0.8	21	6.7	0.12	0.46	11	32.97	105.4
617848	7107347	636802	1180	UTM83-8	WHI11001356	1.4	54	7.4	0.1	0.29	23	26.16	86.8
617849	7107400	636793	1150	UTM83-8	WHI11001356	0.4	309	5.2	0.13	0.32	30	17.48	85.2
617850	7107445	636788	1151	UTM83-8	WHI11001356	0.2	62	10.3	0.13	0.78	18	27.85	86.3
617851	7107495	636797	1141	UTM83-8	WHI11001356	1.4	72	7.6	0.12	0.57	43	35.22	97.1
617852	7107653	636808	1073	UTM83-8	WHI11001356	0.1	145	8.4	0.12	0.48	38	38.84	82.5
617853	7107703	636796	1042	UTM83-8	WHI11001356	0.7	128	6.2	0.12	0.24	43	49.43	104.6
617854	7107748	636800	1023	UTM83-8	WHI11001356	0.1	55	6.3	0.12	0.25	24	49.71	93.3
617855	7107796	636795	1005	UTM83-8	WHI11001356	0.9	39	5.9	0.1	0.22	22	28.36	99.7
617856	7107899	636799	997	UTM83-8	WHI11001356	0.3	37	2.5	0.12	0.37	6	14.99	32.3
617857	7107348	636904	1223	UTM83-8	WHI11001356	1.5	164	5.6	0.12	0.28	41	25.15	83.3
617858	7107402	636901	1219	UTM83-8	WHI11001356	0.6	72	5	0.13	0.24	20	20.88	78.8
617859	7107462	636897	1209	UTM83-8	WHI11001356	0.3	169	8.1	0.16	0.56	58	44.71	93.9
617860	7107551	636908	1169	UTM83-8	WHI11001356	0.8	96	5.1	0.2	0.31	71	49.46	85.7
617861	7107601	636905	1138	UTM83-8	WHI11001356	0.7	99	5.4	0.18	0.29	42	25.59	71.5
617862	7107739	636894	1046	UTM83-8	WHI11001356	0.6	89	4.7	0.11	0.24	53	24.61	84.2
617863	7107802	636900	1043	UTM83-8	WHI11001356	1	71	5.3	0.16	0.3	23	36.19	89.7
617864	7107842	636900	1027	UTM83-8	WHI11001356	1	53	5.5	0.13	0.37	30	26.75	82.9
617865	7107899	636902	1010	UTM83-8	WHI11001356	0.9	80	5.8	0.12	0.31	30	44.38	84.7
617866	7108000	636901	982	UTM83-8	WHI11001356	1.6	65	3.4	0.15	0.25	28	21.97	73.8
617867	7108002	638302	1494	UTM83-8	WHI11001356	1.2	160	9	0.18	1.83	69	50.38	50.6
617868	7108050	638299	1475	UTM83-8	WHI11001356	1.1	69	10.9	0.12	0.5	79	28.9	44.9
617869	7108101	638298	1462	UTM83-8	WHI11001356	5.2	79	12.1	0.21	1.65	94	24.62	41
617870	7108152	638292	1472	UTM83-8	WHI11001356	0.8	48	4.9	0.13	0.66	50	9.93	23.9
617871	7108202	638297	1483	UTM83-8	WHI11001356	2.2	98	9.8	0.1	1.62	94	20.65	111.2
617872	7108252	638303	1460	UTM83-8	WHI11001356	5.7	102	15.4	0.07	2.56	187	22.27	180.9
617873	7108297	638291	1426	UTM83-8	WHI11001356	4.5	148	22.9	0.12	2.86	183	28.02	86.2
617874	7108343	638301	1397	UTM83-8	WHI11001356	5.5	105	10.5	0.12	2.1	482	23.68	305.3
617875	7108403	638299	1372	UTM83-8	WHI11001356	1.7	40	9.9	0.12	0.46	44	23.16	82.1
617876	7108446	638300	1343	UTM83-8	WHI11001356	1.9	380	13	0.41	0.46	344	67.88	189.7
617877	7108498	638298	1332	UTM83-8	WHI11001356	1.4	208	7.9	0.15	0.4	47	87.34	122.7
617878	7108547	638299	1333	UTM83-8	WHI11001356	1	187	9	0.1	0.52	24	19.3	64.4
617879	7108593	638305	1353	UTM83-8	WHI11001356	1.1	172	17.5	0.14	0.78	54	56.71	112.8
617880	7108644	638305	1392	UTM83-8	WHI11001356	2.1	76	22.1	0.11	0.61	18	36.11	81.2
617881	7108642	638209	1371	UTM83-8	WHI11001356	1.5	503	12	0.14	0.53	84	41.95	104.3
617882	7108608	638197	1338	UTM83-8	WHI11001356	1.2	202	11.2	0.11	0.47	36	64.25	103.4
617883	7108552	638200	1306	UTM83-8	WHI11001356	1.8	123	10.1	0.1	0.67	20	46.13	91.7
617884	7107957	638299	1480	UTM83-8	WHI11001356	6.6	950	26.9	0.2	1.36	174	74.48	419.6
617885	7107854	638296	1419	UTM83-8	WHI11001356	2.2	123	9.6	0.11	0.67	61	21.39	127.3

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
617886	7107736	638297	1377	UTM83-8	WHI11001356	3.8	63	5.6	0.13	0.37	22	40.89	106.4
617887	7107698	638297	1357	UTM83-8	WHI11001356	3	130	8.7	0.12	0.57	53	31.53	134.6
617888	7107646	638302	1331	UTM83-8	WHI11001356	1.2	87	5	0.14	0.45	28	17.06	113
617889	7107608	638303	1325	UTM83-8	WHI11001356	2.1	84	6.2	0.11	0.49	40	25.22	107.5
617890	7107544	638303	1307	UTM83-8	WHI11001356	2.1	123	10.4	0.09	1.05	737	23.65	95.9
617891	7107508	638298	1300	UTM83-8	WHI11001356	0.6	55	7.1	0.1	0.2	24	31.24	88
617892	7107451	638300	1278	UTM83-8	WHI11001356	0.8	63	4.5	0.1	0.19	38	28.53	80.3
617893	7107400	638303	1263	UTM83-8	WHI11001356	0.1	126	6.1	0.1	0.34	42	21.84	105.2
617894	7107359	638312	1248	UTM83-8	WHI11001356	0.1	118	6.5	0.12	0.26	38	66.21	112.7
617895	7107860	638205	1414	UTM83-8	WHI11001356	0.8	21	5.6	0.15	0.52	15	13.2	43.9
617896	7107902	638192	1421	UTM83-8	WHI11001356	1.6	40	6.9	0.08	0.6	18	16.75	85.7
617897	7107956	638194	1434	UTM83-8	WHI11001356	3.4	137	14.8	0.09	0.87	53	21.05	69.4
617898	7107995	638202	1440	UTM83-8	WHI11001356	0.5	29	24.3	0.08	2.25	15	17.89	58.2
617899	7108055	638202	1420	UTM83-8	WHI11001356	2.5	96	22.1	0.09	2.18	82	22.65	82
617900	7108110	638203	1417	UTM83-8	WHI11001356	2.1	145	13	0.12	1.24	91	24.42	78.5
617901	7107554	637798	1446	UTM83-8	WHI11001350	0.3	25	6.1	0.12	0.43	21	60.05	83.4
617902	7107601	637799	1441	UTM83-8	WHI11001350	2.6	39	8.1	0.13	0.62	20	25.68	74.8
617903	7107651	637801	1442	UTM83-8	WHI11001350	2	63	10.3	0.17	0.5	49	41.73	97
617904	7107703	637799	1463	UTM83-8	WHI11001350	2	102	10.7	0.19	0.34	50	78.92	160
617905	7107750	637798		UTM83-8	WHI11001356	1.6	44	4.4	0.12	0.19	45	58.49	82.6
617906	7108151	638598	1617	UTM83-8	WHI11001356	0.7	23	4	0.05	0.66	75	4.55	154.9
617907	7108102	638596	1598	UTM83-8	WHI11001356	6.3	49	13.1	0.07	1.86	56	22.43	34.9
617908	7108052	638598	1578	UTM83-8	WHI11001356	7.6	68	11.6	0.07	1.67	121	15.78	46.1
617909	7108001	638599	1556	UTM83-8	WHI11001356	3.1	82	7.4	0.05	0.9	75	10.38	40.6
617910	7107954	638596	1534	UTM83-8	WHI11001356	1.7	87	13.1	0.08	1.01	76	18.86	115.8
617911	7107899	638599	1516	UTM83-8	WHI11001356	2.1	76	8.1	0.05	0.57	43	10.96	34
617912	7107851	638599	1508	UTM83-8	WHI11001356	1.8	29	3.6	0.12	0.47	58	31.9	74.9
617913	7107798	638601	1502	UTM83-8	WHI11001356	2.8	12	0.7	0.11	0.42	17	27.18	101.2
617914	7107747	638596	1476	UTM83-8	WHI11001356	0.7	43	2	0.1	0.38	38	26.31	79.4
617915	7107700	638596	1454	UTM83-8	WHI11001356	5	46	7.8	0.08	0.58	28	24.83	113.8
617916	7107654	638598	1435	UTM83-8	WHI11001356	1.3	58	2.5	0.08	0.1	19	27.93	71.8
617917	7107599	638603	1406	UTM83-8	WHI11001356	1.3	83	4.7	0.07	0.14	26	53.27	82.6
617918	7107547	638601	1397	UTM83-8	WHI11001356	1.4	103	4.8	0.08	0.13	29	49.73	98.6
617919	7107501	638598	1394	UTM83-8	WHI11001356	1.7	185	5.7	0.23	0.27	33	121.85	103.2
617920	7107449	638600	1393	UTM83-8	WHI11001356	1.1	45	7.1	0.11	0.37	32	19.77	103.4
617921	7107401	638598	1375	UTM83-8	WHI11001356	1.1	33	4.7	0.15	0.23	23	34.61	103.4
617922	7107354	638597	1351	UTM83-8	WHI11001356	1.2	61	4.6	0.1	0.27	25	36.95	109.1
617923	7108151	638699	1620	UTM83-8	WHI11001356	12.1	123	25.7	0.07	4.21	575	39.24	68.5
617924	7108100	638698	1593	UTM83-8	WHI11001356	4	123	10.5	0.06	0.94	96	16.26	60.5
617925	7108052	638698	1577	UTM83-8	WHI11001356	2.8	94	9	0.05	1.04	112	14.35	36.2
617926	7108003	638699	1566	UTM83-8	WHI11001356	2.7	56	11	0.05	1.26	171	16.9	83.9
617927	7107951	638696	1534	UTM83-8	WHI11001356	2.3	90	8.7	0.07	0.58	56	18.06	41
617928	7107901	638699	1508	UTM83-8	WHI11001356	1.7	132	8.9	0.07	0.67	66	14.89	115.7
617929	7107848	638702	1508	UTM83-8	WHI11001356	1.6	67	5.9	0.11	0.58	38	22.07	60.1
617930	7107800	638699	1515	UTM83-8	WHI11001356	1.3	53	5.5	0.12	0.45	28	37.95	78.3
617931	7107750	638699	1504	UTM83-8	WHI11001356	1.3	33	4.6	0.1	0.54	52	24.63	61.8
617932	7107704	638699	1474	UTM83-8	WHI11001356	0.6	35	1.7	0.09	0.36	18	27.68	66.5
617933	7107650	638700	1442	UTM83-8	WHI11001356	0.1	50	4.9	0.13	0.24	37	70.69	99.2
617934	7107601	638697	1433	UTM83-8	WHI11001356	0.1	76	7.6	0.12	0.3	46	59.1	127.7
617935	7107554	638701	1408	UTM83-8	WHI11001356	1.8	91	6.2	0.09	0.31	32	30.75	106.4
617936	7107499	638699	1379	UTM83-8	WHI11001356	1.1	49	6.6	0.19	0.36	24	69.68	104.9
617937	7107449	638699	1350	UTM83-8	WHI11001356	1.4	239	6.5	0.12	0.35	23	42.05	191.2
617938	7107399	638694	1328	UTM83-8	WHI11001356	0.8	145	7	0.1	0.36	19	28.94	116
617939	7107353	638695	1303	UTM83-8	WHI11001356	1.7	147	5.7	0.1	0.27	25	34.31	104.2
617940	7108204	638596	1584	UTM83-8	WHI11001356	27.8	257	47.4	0.14	5.49	485	67.4	95.8
617941	7108256	638600	1555	UTM83-8	WHI11001356	4.1	47	6.6	0.04	0.89	43	12.16	12.9
617942	7108303	638603	1531	UTM83-8	WHI11001356	3.9	44	10.3	0.05	0.98	103	15.71	7.6
617943	7108351	638602	1504	UTM83-8	WHI11001356	3.2	131	18.4	0.08	2.11	253	34.39	94
617944	7108400	638599	1506	UTM83-8	WHI11001356	0.8	189	19.1	0.08	1.75	230	26.35	113
617945	7108453	638603	1483	UTM83-8	WHI11001356	1.3	298	13.5	0.17	0.44	115	46.57	181.2
617946	7108499	638596	1471	UTM83-8	WHI11001356	0.6	236	8.8	0.19	0.26	151	40.8	169
617947	7108561	638599	1470	UTM83-8	WHI11001356	1.7	447	23.3	0.47	0.63	153	122.5	127.7

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
617948	7108602	638602	1498	UTM83-8	WHI11001356	1.4	291	9.2	0.14	0.43	33	54.14	129
617949	7108654	638598	1525	UTM83-8	WHI11001356	0.9	253	13.4	0.21	0.5	28	76.04	148.9
617950	7108202	638697	1631	UTM83-8	WHI11001356	0.4	43	6.5	0.02	0.64	72	12.11	30.7
617951	7108301	634995	1227	UTM83-8	WHI11001349	1.8	234	20.7	0.08	1.19	183	61.99	60.3
617952	7108202	635000	1134	UTM83-8	WHI11001349	1	100	10	0.1	0.33	23	32.74	113.6
617953	7108154	635002	1122	UTM83-8	WHI11001349	2	65	6.9	0.05	0.67	115	22.35	110.9
617954	7108103	635001	1139	UTM83-8	WHI11001349	1.3	60	6.7	0.08	0.38	48	26.33	84.7
617955	7108053	635001	1147	UTM83-8	WHI11001349	0.8	78	5.9	0.06	0.38	50	19.24	69.8
617956	7107998	635003	1152	UTM83-8	WHI11001349	0.9	53	5.4	0.06	0.27	67	20.6	91.2
617957	7107954	635001	1156	UTM83-8	WHI11001349	1	50	5.8	0.1	0.47	23	26.25	127.9
617958	7107904	634998	1147	UTM83-8	WHI11001349	1.7	68	8.6	0.06	0.54	104	11.75	39.8
617959	7107850	635000	1160	UTM83-8	WHI11001349	0.8	90	3.5	0.12	0.21	15	26.45	112.2
617960	7107801	635000	1157	UTM83-8	WHI11001349	0.9	109	4.7	0.08	0.35	31	14.99	58.3
617961	7107753	634998	1160	UTM83-8	WHI11001349	1.1	128	7.6	0.1	0.62	30	16.34	69.1
617962	7107702	634998	1158	UTM83-8	WHI11001349	1.1	163	4	0.1	0.3	16	12.91	83.3
617963	7107647	635002	1141	UTM83-8	WHI11001349	0.2	57	3.4	0.08	0.25	14	11.8	89.1
617964	7107601	634998	1124	UTM83-8	WHI11001349	0.1	77	2.9	0.09	0.14	10	12.55	115.1
617965	7108651	635096	1332	UTM83-8	WHI11001349	0.8	327	9.7	0.08	0.54	26	26.41	65.5
617966	7108598	635100	1316	UTM83-8	WHI11001349	0.7	176	8.5	0.09	0.64	29	27.36	95.4
617967	7108552	635098	1307	UTM83-8	WHI11001349	2.8	312	4.9	0.09	0.53	18	23.29	85.6
617968	7108498	635097	1309	UTM83-8	WHI11001349	0.5	90	4.5	0.14	0.18	30	25.54	113.6
617969	7108450	635101	1311	UTM83-8	WHI11001349	0.9	52	5	0.17	0.14	42	27.91	110.5
617970	7108402	635096	1341	UTM83-8	WHI11001349	0.1	118	4.5	0.02	0.34	247	10.48	92.3
617971	7108200	635101	1147	UTM83-8	WHI11001349	0.1	128	9.4	0.07	1.44	77	59.93	326.3
617972	7108151	635096	1122	UTM83-8	WHI11001349	0.7	121	5.9	0.06	0.85	106	30.65	154.3
617973	7108101	635104	1108	UTM83-8	WHI11001349	0.3	74	5.6	0.09	0.39	45	19.15	56.8
617974	7108054	635100	1110	UTM83-8	WHI11001349	0.3	66	7.1	0.11	0.35	47	20.42	91.2
617975	7107998	635105	1106	UTM83-8	WHI11001349	0.1	151	7.8	0.1	0.42	180	22.42	68.9
617976	7107954	635103	1105	UTM83-8	WHI11001349	0.3	117	6.3	0.09	0.33	28	26.14	75.6
617977	7107904	635102	1096	UTM83-8	WHI11001349	0.1	118	4.7	0.08	0.28	40	18.78	70.4
617978	7107852	635102	1088	UTM83-8	WHI11001349	0.6	62	3.8	0.12	0.24	15	20.39	70.6
617979	7107803	635100	1087	UTM83-8	WHI11001349	1.3	76	6	0.12	0.34	38	18.48	67.6
617980	7107754	635101	1101	UTM83-8	WHI11001349	0.1	66	6.8	0.11	0.42	17	13.55	47.2
617981	7107702	635099	1102	UTM83-8	WHI11001349	1.1	188	5.3	0.12	0.31	28	15.18	47.1
617982	7107648	635097	1099	UTM83-8	WHI11001349	1.1	77	3.3	0.1	0.19	13	6.23	25.7
617983	7107603	635098	1091	UTM83-8	WHI11001349	0.5	69	3.2	0.11	0.21	40	13.5	125.8
617984	7108651	636094	1339	UTM83-8	WHI11001349	0.1	84	10.1	0.1	1.09	50	25.69	74.2
617985	7108605	636100	1313	UTM83-8	WHI11001349	0.1	55	4.9	0.04	0.4	31	7.37	30.7
617986	7108549	636098	1274	UTM83-8	WHI11001349	0.8	75	18.7	0.65	1.94	103	67.75	71.2
617987	7108503	636099	1248	UTM83-8	WHI11001349	0.5	113	14.3	0.29	1.37	67	36.83	60.7
617988	7108453	636100	1209	UTM83-8	WHI11001349	1.8	116	19.9	0.29	2.26	75	38.86	69.8
617989	7108400	636102	1180	UTM83-8	WHI11001349	0.6	108	11.7	0.17	1.02	130	23.29	32
617990	7108350	636102	1149	UTM83-8	WHI11001349	1	60	10.8	0.15	1.01	60	29.67	48.1
617991	7108301	636099	1128	UTM83-8	WHI11001349	3.4	54	10.6	0.15	1.5	84	25.49	44.7
617992	7108253	636101	1091	UTM83-8	WHI11001349	1.4	48	14.6	0.14	1.71	40	24.51	34.4
617993	7108200	636095	1059	UTM83-8	WHI11001349	1.8	93	12.2	0.16	0.93	57	24.6	98.6
617994	7108151	636103	1044	UTM83-8	WHI11001349	1.2	19	9.3	0.15	0.73	23	19.75	79
617995	7108102	636100	1033	UTM83-8	WHI11001349	0.8	43	10.2	0.12	0.77	30	25.37	91.1
617996	7108050	636097	1011	UTM83-8	WHI11001349	0.9	83	5.6	0.11	0.52	54	19.15	90.1
617997	7108001	636095	989	UTM83-8	WHI11001349	0.6	13	10.8	0.17	0.8	11	20.04	93.7
617998	7107849	637995	1480	UTM83-8	WHI11001350	1.2	46	3.1	0.15	0.22	34	49.36	97.8
617999	7107901	637998	1460	UTM83-8	WHI11001350	2.3	65	2.9	0.15	0.2	36	33.35	82.9
618000	7107950	637996	1424	UTM83-8	WHI11001350	1.1	79	2.9	0.15	0.23	32	37.11	74.8
1096001	7107751	643543	1447	UTM83-8	WHI11001169	7	94	270.1	1.49	1.39	608	37.32	105.4
1096002	7107752	643500	1426	UTM83-8	WHI11001169	2.3	191	30.8	0.08	1.08	205	50.62	118.2
1096003	7107751	643449	1419	UTM83-8	WHI11001169	1.7	390	54.9	0.2	0.52	382	61.87	137.5
1096004	7107752	643400	1383	UTM83-8	WHI11001169	2.2	351	31.5	0.16	0.63	166	66.63	151.9
1096005	7107750	643300	1338	UTM83-8	WHI11001169	3.5	486	44.7	0.17	0.67	201	51.91	112.5
1096006	7107741	643242	1317	UTM83-8	WHI11001169	2.9	345	11.4	0.04	0.39	117	35.32	79.7
1096007	7107750	643200	1288	UTM83-8	WHI11001169	1.3	176	13.2	0.14	0.3	116	38.69	96.3
1096008	7107749	643150	1257	UTM83-8	WHI11001169	1.9	313	8.9	0.11	0.3	105	29.06	86.4
1096009	7107754	643054	1197	UTM83-8	WHI11001169	0.9	98	2.7	0.04	0.15	63	10.23	32.4

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1096010	7107752	642950	1145	UTM83-8	WHI11001169	1.9	246	10.5	0.1	0.33	87	18.63	62.3
1096011	7107750	642850	1112	UTM83-8	WHI11001169	1.5	190	9.4	0.08	0.28	129	12.97	56.4
1096012	7107751	642746	1101	UTM83-8	WHI11001169	2.1	168	17.6	0.13	0.57	94	30.18	96.2
1096013	7107749	642700	1085	UTM83-8	WHI11001169	2.3	312	13.1	0.12	0.38	170	24.13	77.6
1096014	7107750	642649	1060	UTM83-8	WHI11001169	1.9	137	16.3	0.11	0.49	76	22.83	73.5
1096015	7107750	642601	1046	UTM83-8	WHI11001169	0.9	80	22.6	0.13	0.68	83	49.96	91.8
1096016	7107750	642551	1023	UTM83-8	WHI11001169	1.5	186	10	0.1	0.5	138	32.41	83.7
1096017	7107751	642499	1004	UTM83-8	WHI11001169	1.3	223	8.9	0.11	0.46	185	20.72	80.3
1096018	7107401	643299	1425	UTM83-8	WHI11001169	1.6	268	9.4	0.14	0.51	101	46.56	114.8
1096019	7107401	643347	1423	UTM83-8	WHI11001169	0.7	68	19	0.07	0.8	19	22.79	69.5
1096020	7107401	643401	1407	UTM83-8	WHI11001169	0.5	52	6.6	0.08	0.27	130	25.01	70.7
1096021	7107399	643446	1419	UTM83-8	WHI11001169	3.4	140	15.5	0.1	0.61	122	28.4	80.3
1096022	7107400	643497	1427	UTM83-8	WHI11001169	0.5	29	8.4	0.09	0.35	30	21.68	77.8
1096023	7107400	643549	1406	UTM83-8	WHI11001169	0.7	110	8.8	0.09	0.43	56	25.73	79.4
1096024	7107400	643598	1397	UTM83-8	WHI11001169	6.1	146	117.5	0.08	1.16	54	13.15	60.3
1096025	7107398	643648	1405	UTM83-8	WHI11001169	8.2	44	39.9	0.09	0.54	17	19.66	47
1096026	7107401	643698	1418	UTM83-8	WHI11001169	5.8	129	71.5	0.11	0.93	47	25.94	75.4
1096027	7107400	643748	1409	UTM83-8	WHI11001169	66.9	103	372.1	0.08	1.08	76	32.01	90.2
1096028	7107400	643798	1406	UTM83-8	WHI11001169	1.2	40	32	0.05	1.06	157	25.27	37
1096029	7107398	643849	1379	UTM83-8	WHI11001169	1.5	153	27.8	0.09	1.36	98	27.57	192.1
1096030	7107402	643898	1369	UTM83-8	WHI11001169	0.4	52	13.5	0.05	0.35	16	40.12	75.1
1096031	7107401	643946	1356	UTM83-8	WHI11001169	0.4	155	24.8	0.06	0.27	28	13.34	73.2
1096032	7107405	643997	1339	UTM83-8	WHI11001169	0.3	193	19	0.09	0.32	15	13.47	61.9
1096033	7107399	644049	1317	UTM83-8	WHI11001169	0.2	48	15.3	0.09	0.22	17	12.11	76.5
1096034	7107401	643250	1390	UTM83-8	WHI11001169	2.4	208	11.8	0.08	0.45	52	27.13	66.6
1096035	7107399	643201	1357	UTM83-8	WHI11001169	1.8	80	25.5	0.1	1.37	30	51.54	134.7
1096036	7107398	643153	1320	UTM83-8	WHI11001169	1.4	104	26.7	0.07	0.64	61	33.2	78.2
1096037	7107403	643100	1281	UTM83-8	WHI11001169	2.1	177	17.5	0.09	0.84	135	51.97	82.1
1096038	7107403	643047	1244	UTM83-8	WHI11001169	1.2	235	9.9	0.08	0.48	218	31.29	68.4
1096039	7107402	642998	1215	UTM83-8	WHI11001169	0.9	100	13.7	0.11	0.34	35	34.64	107.9
1096040	7107400	642949	1192	UTM83-8	WHI11001169	1	322	11	0.16	0.33	127	40.76	122
1096041	7107401	642897	1166	UTM83-8	WHI11001169	0.5	170	7.6	0.11	0.27	90	27.16	84.7
1096042	7107402	642850	1149	UTM83-8	WHI11001169	1.2	206	8.1	0.1	0.25	96	21.59	109.6
1096043	7107401	642800	1127	UTM83-8	WHI11001169	1.3	263	6.9	0.12	0.22	178	27.62	90.1
1096044	7107400	642750	1103	UTM83-8	WHI11001169	0.7	119	7.2	0.09	0.22	108	26.18	71.1
1096045	7107400	642699	1082	UTM83-8	WHI11001169	0.6	208	7.5	0.11	0.32	169	29.99	69.1
1096046	7107402	642651	1063	UTM83-8	WHI11001169	0.7	95	9.1	0.07	0.33	89	26.95	74.6
1096047	7107401	642597	1049	UTM83-8	WHI11001169	0.8	173	7.6	0.08	0.36	232	29.43	64.8
1096048	7107400	642551	1034	UTM83-8	WHI11001169	0.7	68	13.4	0.08	0.33	47	24.74	93.4
1096049	7107402	642499	1012	UTM83-8	WHI11001169	1.3	212	7.6	0.09	0.28	125	23.14	63
1096050	7109152	642197	1432	UTM83-8	WHI11001140	1.2	238	16.3	0.11	0.63	38	70.14	127.2
1096051	7110300	646151	1561	UTM83-8	WHI11001170	5.2	125	27.8	0.18	1.84	545	38.53	238.2
1096052	7110302	646099	1564	UTM83-8	WHI11001170	1.2	214	9.5	0.19	0.33	133	44.01	134.5
1096053	7110299	646048	1568	UTM83-8	WHI11001170	0.7	241	8.1	0.19	0.35	145	30.37	128.8
1096054	7110300	645997	1572	UTM83-8	WHI11001170	0.8	223	6.8	0.24	0.27	75	43.61	120
1096055	7110300	645949		UTM83-8	WHI11001170	0.4	259	7.6	0.19	0.28	104	41.53	110.5
1096056	7110301	645899	1566	UTM83-8	WHI11001170	0.7	190	11.5	0.16	0.46	165	40.74	128.1
1096057	7110301	645849	1559	UTM83-8	WHI11001170	1	263	8.5	0.17	0.39	97	42.3	121.6
1096058	7110299	645800	1546	UTM83-8	WHI11001170	0.9	312	7.5	0.14	0.37	89	40.67	113.4
1096059	7110301	645746	1536	UTM83-8	WHI11001170	1.2	236	6.7	0.12	0.33	59	34.05	109.9
1096060	7110299	645699	1526	UTM83-8	WHI11001170	0.6	241	6.4	0.12	0.35	64	33.86	103.6
1096061	7110300	645649	1522	UTM83-8	WHI11001170	1.4	202	15.7	0.1	1.07	191	27	109.4
1096062	7110300	645549	1499	UTM83-8	WHI11001170	0.1	49	8	0.09	0.63	30	30.76	80
1096063	7110300	645500	1489	UTM83-8	WHI11001170	0.9	205	6.9	0.08	0.54	74	21.46	69.9
1096064	7110302	645448	1480	UTM83-8	WHI11001170	0.9	161	9.7	0.12	0.48	60	24.97	73.2
1096065	7110300	645400	1471	UTM83-8	WHI11001170	0.4	46	9.6	0.1	0.58	22	26.4	87.9
1096066	7110302	645349	1466	UTM83-8	WHI11001170	0.4	145	8.5	0.09	0.41	53	23.85	74.9
1096067	7110303	645301	1464	UTM83-8	WHI11001170	0.4	129	7.9	0.08	0.31	43	25.21	85.2
1096068	7110300	645249	1458	UTM83-8	WHI11001170	0.9	58	12.3	0.12	0.51	52	27.86	92.1
1096069	7110300	645199	1452	UTM83-8	WHI11001170	1.3	214	11.7	0.12	0.47	86	23.97	91.4
1096070	7110301	645149	1446	UTM83-8	WHI11001170	0.5	40	21.6	0.1	0.42	42	19.31	95.2
1096071	7110301	645101	1440	UTM83-8	WHI11001170	0.7	44	21.8	0.08	0.46	44	40.09	109.3

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1096072	7110301	645051	1432	UTM83-8	WHI11001170	1.5	42	16.8	0.05	0.44	61	32.62	92.6
1096073	7110301	645000	1423	UTM83-8	WHI11001170	0.8	16	14	0.1	0.42	108	29.39	82.2
1096074	7110300	644949	1394	UTM83-8	WHI11001170	0.9	40	12.9	0.1	0.63	48	20.74	73.2
1096075	7110302	644899	1396	UTM83-8	WHI11001170	0.6	42	14.8	0.16	0.61	62	28.95	83.9
1096076	7110299	644850	1404	UTM83-8	WHI11001170	0.9	145	20.8	0.11	0.65	110	31.79	92.5
1096077	7110299	644798	1405	UTM83-8	WHI11001170	0.9	111	17	0.15	0.56	274	19	63.9
1096078	7110301	644748	1399	UTM83-8	WHI11001170	0	0	0	0	0	0	0	0
1096079	7110302	644698	1405	UTM83-8	WHI11001170	1.5	139	43.2	0.16	1.55	670	23.82	103
1096080	7110300	644649	1408	UTM83-8	WHI11001170	0.9	71	23.1	0.13	0.55	572	24.64	76.2
1096081	7110300	644598	1409	UTM83-8	WHI11001170	1.3	124	29.1	0.12	0.66	1041	23.76	74.3
1096082	7110300	644548	1403	UTM83-8	WHI11001170	1.1	125	23.2	0.14	1.05	16056	22.39	80.4
1096083	7110300	644499	1399	UTM83-8	WHI11001170	1.8	129	15.7	0.08	0.61	403	17.06	80
1096084	7110300	644449		UTM83-8	WHI11001170	1.5	139	15.4	0.08	0.58	375	17.4	85.2
1096085	7110300	644400	1384	UTM83-8	WHI11001170	1.2	104	12.8	0.09	0.48	491	16.27	214.3
1096086	7110302	644348	1414	UTM83-8	WHI11001170	2.8	203	15.9	0.11	0.56	8230	14	79.3
1096087	7110301	644301	1420	UTM83-8	WHI11001170	1	41	10.4	0.14	0.37	399	15.09	74.4
1096088	7110300	644247	1423	UTM83-8	WHI11001170	2.4	174	13.8	0.09	0.69	473	17.88	80.4
1096089	7110300	644199	1384	UTM83-8	WHI11001170	1.7	131	16.6	0.13	0.66	488	20.33	71.8
1096090	7110300	644149		UTM83-8	WHI11001170	2.6	131	18.1	0.1	0.49	435	26.38	74.7
1096091	7110300	644099		UTM83-8	WHI11001170	1.6	119	13.5	0.1	0.38	53	27.59	83.7
1096092	7110299	643948	1319	UTM83-8	WHI11001170	0.1	137	13.7	0.1	0.52	99	22.66	83.4
1096093	7110303	643907	1304	UTM83-8	WHI11001170	0.1	58	13.3	0.1	0.56	70	25.58	62.9
1096094	7110300	643845	1268	UTM83-8	WHI11001170	0.2	136	8.2	0.09	0.54	81	24.15	68.1
1096095	7110301	643801	1246	UTM83-8	WHI11001170	0.1	81	16.5	0.1	0.62	42	57.06	116
1096096	7110300	643752	1260	UTM83-8	WHI11001170	1.2	219	11	0.08	0.59	111	21.68	70.2
1096097	7110301	643698	1150	UTM83-8	WHI11001170	0.1	122	18.7	0.12	0.78	132	51.7	93
1096098	7110302	643651	1190	UTM83-8	WHI11001170	0.1	149	6.5	0.07	0.3	102	19.53	61.6
1096099	7110301	643598	1134	UTM83-8	WHI11001170	0.4	106	8.2	0.07	0.31	45	20.78	65.4
1096100	7110297	643553	1095	UTM83-8	WHI11001170	0.1	154	12.6	0.09	0.52	62	37.11	76.1
1096101	7109149	644201	1142	UTM83-8	WHI11001139	1.8	79	6.2	0.1	0.37	69	25.15	101
1096102	7109151	644103	1141	UTM83-8	WHI11001139	2.3	95	7.3	0.08	0.49	168	14.72	78.4
1096103	7109153	644053	1141	UTM83-8	WHI11001139	1.8	135	8.9	0.1	0.56	186	14.43	55.4
1096104	7109151	643998	1123	UTM83-8	WHI11001139	4.1	189	10.4	0.1	0.82	369	18.45	87.6
1096105	7109153	643950	1118	UTM83-8	WHI11001139	5.9	112	13.9	0.11	0.58	159	31.05	100.1
1096106	7109153	643896	1115	UTM83-8	WHI11001139	5.9	184	9.9	0.12	0.86	309	17.97	79.2
1096107	7109153	643853	1121	UTM83-8	WHI11001139	6.7	191	12.2	0.12	1.57	291	22.07	85.9
1096108	7109147	643805	1131	UTM83-8	WHI11001139	6.3	244	12.4	0.11	0.97	234	19.05	97.3
1096109	7109151	643704	1144	UTM83-8	WHI11001139	2.9	141	3.7	0.09	0.49	143	12.89	79.7
1096110	7109154	643646	1136	UTM83-8	WHI11001139	2.2	55	12.5	0.1	0.43	182	31.01	74.8
1096111	7109150	643598	1125	UTM83-8	WHI11001139	1.7	82	7.1	0.1	0.33	142	19.86	80.2
1096112	7109153	643550	1118	UTM83-8	WHI11001139	2	79	7	0.09	0.27	99	18.64	68
1096113	7109148	643501	1110	UTM83-8	WHI11001139	2.2	108	10.2	0.11	0.43	162	19.98	74.1
1096114	7109149	643451	1086	UTM83-8	WHI11001139	3.9	163	7.8	0.1	0.55	201	21.27	73.2
1096115	7109149	643403	1064	UTM83-8	WHI11001139	2.3	147	7.6	0.12	0.43	155	19.91	76.8
1096116	7109201	643447	1060	UTM83-8	WHI11001139	2.6	82	11.2	0.11	0.46	131	28.31	87
1096117	7109199	643501	1082	UTM83-8	WHI11001139	2.6	91	9.9	0.12	0.53	162	24.86	93.4
1096118	7109201	643547	1090	UTM83-8	WHI11001139	1.6	103	10.4	0.13	0.78	143	30.86	92.3
1096119	7109200	643595	1093	UTM83-8	WHI11001139	1.4	90	6.4	0.1	0.31	144	17.85	77.9
1096120	7109199	643649	1098	UTM83-8	WHI11001139	1.6	104	7.7	0.1	0.49	233	18.95	85.8
1096121	7109195	643697	1109	UTM83-8	WHI11001139	3.8	160	11.5	0.14	0.99	230	27.59	96.8
1096122	7109200	643796	1091	UTM83-8	WHI11001139	1.9	58	13.8	0.09	0.39	90	33.16	98.4
1096123	7109197	643849	1090	UTM83-8	WHI11001139	5.2	171	10.3	0.12	1.27	306	27.68	87.9
1096124	7109195	643901	1096	UTM83-8	WHI11001139	3.7	130	11.1	0.12	0.66	217	25.35	82.5
1096125	7109199	643943	1109	UTM83-8	WHI11001140	1.4	88	0.4	0.06	0.08	182	2.87	24.4
1096126	7109351	643954	1168	UTM83-8	WHI11001140	1.7	323	17.1	0.15	0.79	166	51.05	101.8
1096127	7109356	643901	1151	UTM83-8	WHI11001140	1.8	412	8.4	0.1	0.44	245	21.17	71.3
1096128	7109349	643850	1124	UTM83-8	WHI11001140	1.4	149	6.7	0.08	0.31	142	17.92	73.1
1096129	7109351	643798	1106	UTM83-8	WHI11001140	2	189	6.5	0.09	0.33	215	17.12	75
1096130	7109353	643752	1088	UTM83-8	WHI11001140	1.2	123	7.4	0.08	0.37	88	19.31	67.3
1096131	7109353	643703	1064	UTM83-8	WHI11001140	0	0	0	0	0	0	0	0
1096132	7109353	643646	1049	UTM83-8	WHI11001140	1.2	145	6.8	0.1	0.4	94	18.27	77.2
1096133	7109354	643601		UTM83-8	WHI11001140	0.8	86	6.9	0.08	0.35	94	17.59	74.6

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1096134	7110051	642148	1436	UTM83-8	WHI11001140	0.6	24	6.7	0.39	0.3	106	55.64	206.8
1096135	7110050	642201	1427	UTM83-8	WHI11001140	2.3	175	8.3	0.14	0.37	147	34.62	105
1096136	7110052	642248	1448	UTM83-8	WHI11001140	1.9	58	10	0.15	0.74	31	34.61	90.1
1096137	7110052	642298	1472	UTM83-8	WHI11001140	1.2	64	10	0.16	0.7	37	27.06	78.3
1096138	7110051	642347	1472	UTM83-8	WHI11001140	0.9	53	8	0.16	0.57	24	30.35	76.5
1096139	7110050	642398	1449	UTM83-8	WHI11001140	1	161	7	0.14	0.56	29	62.13	122.2
1096140	7110049	642448	1430	UTM83-8	WHI11001140	1.4	130	9.4	0.14	0.49	8	81.82	112
1096141	7110054	642495	1429	UTM83-8	WHI11001140	3.9	462	11.3	0.25	0.41	94	50.12	146.6
1096142	7110052	642547	1400	UTM83-8	WHI11001140	2.9	494	11.8	0.16	0.42	76	41.77	144.3
1096143	7110050	642598	1362	UTM83-8	WHI11001140	1.6	334	10.2	0.13	0.42	161	47.73	125.2
1096144	7110050	642648	1330	UTM83-8	WHI11001140	1	307	6.9	0.2	0.27	90	38.29	106.2
1096145	7110051	642699	1296	UTM83-8	WHI11001140	1.1	172	8.7	0.12	0.33	54	50.84	94.2
1096146	7110049	642748	1268	UTM83-8	WHI11001140	1.1	287	9.5	0.09	0.42	71	30.97	93.6
1096147	7110050	642798	1225	UTM83-8	WHI11001140	0.6	210	6.5	0.12	0.33	26	56.24	93.2
1096148	7110053	642849	1213	UTM83-8	WHI11001140	1.3	222	13.6	0.1	0.52	66	74.36	84.5
1096149	7110049	642898	1207	UTM83-8	WHI11001140	0	0	0	0	0	0	0	0
1096150	7110053	642947	1199	UTM83-8	WHI11001140	1.5	258	18.5	0.11	0.64	72	57.9	105.9
1096151	7107052	643404	1199	UTM83-8	WHI11001170	1.5	138	16.6	0.1	0.65	65	29.67	89
1096152	7107053	643450	1195	UTM83-8	WHI11001170	0.5	108	15.8	0.11	0.47	66	30.19	72.3
1096153	7107052	643496	1184	UTM83-8	WHI11001170	0.9	71	21.2	0.1	0.57	62	27.62	74.7
1096154	7107048	643546	1190	UTM83-8	WHI11001170	2.7	170	14.1	0.09	0.39	67	23.77	68.7
1096155	7107052	643598	1189	UTM83-8	WHI11001170	1.9	110	43.5	0.07	0.57	6	24.46	150.2
1096156	7107001	643546	1170	UTM83-8	WHI11001170	2.6	166	15.6	0.07	0.54	101	25.88	85.7
1096157	7107001	643449	1174	UTM83-8	WHI11001170	1.6	87	18	0.11	0.51	65	27.34	79.3
1096158	7106997	643403	1170	UTM83-8	WHI11001170	1.1	126	14.1	0.08	0.62	83	24.58	76
1096159	7106997	643348	1172	UTM83-8	WHI11001170	3	180	15.3	0.1	0.8	169	24.9	64.8
1096160	7106999	643299	1181	UTM83-8	WHI11001170	1.3	137	16	0.1	0.57	74	26.43	61.4
1096161	7107002	643251	1187	UTM83-8	WHI11001170	2.1	35	21.3	0.08	0.26	10	20.07	75.4
1096162	7106998	643201	1199	UTM83-8	WHI11001170	0.8	160	16.4	0.18	0.48	48	58.36	95.2
1096163	7106999	643149	1211	UTM83-8	WHI11001170	0.6	114	14.1	0.07	0.28	5	14.01	41
1096164	7106993	643100	1215	UTM83-8	WHI11001170	0.6	54	22.3	0.07	0.4	17	16.58	61.8
1096165	7107001	643051	1211	UTM83-8	WHI11001170	1.3	79	12.8	0.06	0.46	111	21.14	103.6
1096166	7106997	643002	1220	UTM83-8	WHI11001170	1	178	20.6	0.1	0.29	31	18.45	46.8
1096167	7107003	642948	1209	UTM83-8	WHI11001170	0.9	120	13.5	0.1	0.28	46	15.93	46.3
1096168	7107001	642901	1199	UTM83-8	WHI11001170	2.2	80	14.9	0.08	0.4	170	22.18	84.1
1096169	7107003	642801	1173	UTM83-8	WHI11001170	1.1	115	12.1	0.06	0.4	147	15.32	50.5
1096170	7107004	642699	1146	UTM83-8	WHI11001170	1.2	86	14.1	0.07	0.35	124	18.76	88.5
1096171	7110327	353987	1692	UTM83-9	WHI11001170	1.8	163	18.3	0.13	0.5	200	19.65	75.7
1096172	7110338	353937	1629	UTM83-9	WHI11001170	4.9	56	8.1	0.07	0.73	243	17.5	168.1
1096173	7110341	353891	1599	UTM83-9	WHI11001170	5.5	109	16.1	0.12	1.33	306	22.99	241
1096174	7110344	353839	1565	UTM83-9	WHI11001170	5.3	129	76.3	0.22	1.45	626	25.55	142.5
1096175	7110347	353789	1543	UTM83-9	WHI11001170	2.6	137	38.5	0.16	1.04	270	30.06	130.7
1096176	7110347	646201	1531	UTM83-8	WHI11001170	5.3	54	25.5	0.06	1.01	283	17.84	108.8
1096177	7110351	646099	1519	UTM83-8	WHI11001170	0.5	146	8.7	0.15	0.28	69	27.86	105
1096178	7110349	646001	1524	UTM83-8	WHI11001170	0.1	260	8.1	0.21	0.25	70	34.75	113.1
1096179	7110349	645950	1529	UTM83-8	WHI11001170	0.6	261	8.6	0.19	0.27	77	35.8	108.7
1096180	7110354	645899	1532	UTM83-8	WHI11001170	0.6	240	6.9	0.21	0.22	102	36.09	78.7
1096181	7110351	645847	1531	UTM83-8	WHI11001170	0.6	278	7.7	0.14	0.27	109	30.96	99.5
1096182	7110350	645798	1531	UTM83-8	WHI11001170	1	245	8.2	0.12	0.33	72	29	97.4
1096183	7110352	645750	1521	UTM83-8	WHI11001170	0.8	253	7.6	0.14	0.26	64	26.19	95.1
1096184	7110352	645698	1513	UTM83-8	WHI11001170	0.8	157	8	0.1	0.33	55	24.9	84
1096185	7110354	645650	1506	UTM83-8	WHI11001170	0.7	194	8.9	0.14	0.32	69	35.3	103.3
1096186	7110351	645599	1499	UTM83-8	WHI11001170	1	167	12.8	0.1	0.8	179	19.44	102.1
1096187	7110352	645549	1496	UTM83-8	WHI11001170	0.9	111	9.4	0.1	0.51	112	19.01	80.2
1096188	7110352	645497	1482	UTM83-8	WHI11001170	1	121	8	0.1	0.33	122	24.23	82.4
1096189	7110352	645449	1479	UTM83-8	WHI11001170	3.9	226	10.6	0.16	0.49	93	22.73	68.6
1096190	7110350	645400	1465	UTM83-8	WHI11001170	2	127	9.2	0.14	0.56	55	32.58	96.2
1096191	7110351	645347	1435	UTM83-8	WHI11001170	1.4	133	8.8	0.09	0.4	55	27.1	93.6
1096192	7110351	645299	1444	UTM83-8	WHI11001170	0.7	61	9.8	0.13	0.38	59	24.15	74.4
1096193	7110351	645248	1441	UTM83-8	WHI11001170	0.4	75	7.8	0.12	0.35	84	22.7	60.9
1096194	7110350	645200	1438	UTM83-8	WHI11001170	0.7	241	12.6	0.18	0.41	151	32.11	78.9
1096195	7110350	645151	1432	UTM83-8	WHI11001170	1.9	50	10.4	0.11	0.52	44	24.4	71

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1096196	7110350	645096	1422	UTM83-8	WHI11001170	0.6	40	14.1	0.09	0.68	55	28.68	79
1096197	7110350	645047	1413	UTM83-8	WHI11001170	0.6	29	19.9	0.09	0.47	180	36.56	96.7
1096198	7110353	644999	1408	UTM83-8	WHI11001170	0.1	52	10.4	0.08	0.57	62	27.65	69.3
1096199	7110350	644945	1389	UTM83-8	WHI11001170	0.3	57	14.5	0.1	0.57	130	29.49	77.1
1096200	7110352	644900	1376	UTM83-8	WHI11001170	0.8	56	11.3	0.13	0.37	73	15.45	131.6
1096201	7110252	645449	1496	UTM83-8	WHI11001170	0.3	168	15.7	0.11	0.41	19	27.9	100.9
1096202	7110253	645402	1484	UTM83-8	WHI11001170	1.2	68	11.4	0.15	0.57	14	29.12	102.8
1096203	7110254	645349	1483	UTM83-8	WHI11001170	2.2	535	11.8	0.19	0.47	271	24.59	119
1096204	7110252	645300	1476	UTM83-8	WHI11001170	2.2	335	9	0.14	0.43	155	18.56	86.3
1096205	7110251	645247	1468	UTM83-8	WHI11001170	0.1	172	8.2	0.13	0.35	48	23.44	91.7
1096206	7110250	645199	1461	UTM83-8	WHI11001170	0.2	293	11.3	0.15	0.36	121	21.57	66.6
1096207	7110252	645151	1454	UTM83-8	WHI11001170	2	242	17.4	0.28	0.38	127	30.91	93.2
1096208	7110250	645099	1447	UTM83-8	WHI11001170	0.1	89	29.3	0.15	0.46	53	41.65	135.2
1096209	7110247	645052	1435	UTM83-8	WHI11001170	0.5	71	23.3	0.13	0.45	75	34.82	110.6
1096210	7110249	644999	1403	UTM83-8	WHI11001170	3.9	100	14.1	0.07	0.61	76	23.21	97.3
1096211	7110250	644949	1414	UTM83-8	WHI11001170	0.4	63	13.8	0.11	0.73	71	24.36	70.4
1096212	7110250	644899	1413	UTM83-8	WHI11001170	0.2	72	16.9	0.14	0.79	59	22.13	83
1096213	7110254	644850	1423	UTM83-8	WHI11001170	1.2	49	14.2	0.1	0.46	59	21.97	94.3
1096214	7110251	644799	1423	UTM83-8	WHI11001170	0.2	185	26.8	0.11	0.71	350	32.64	110.6
1096215	7110251	644750	1410	UTM83-8	WHI11001170	0.9	84	26.4	0.13	0.46	1030	19.64	90.2
1096216	7110251	644701	1394	UTM83-8	WHI11001170	1.2	195	84.5	0.14	0.52	616	27.53	119.6
1096217	7110251	644652	1403	UTM83-8	WHI11001170	1.1	85	44.7	0.24	0.65	464	30.94	91.1
1096218	7110252	644600	1409	UTM83-8	WHI11001170	3.8	618	55.7	0.15	0.64	662	25.43	86.5
1096219	7110251	644549	1403	UTM83-8	WHI11001170	1.9	118	19	0.15	0.49	581	19.41	80.3
1096220	7110250	644499	1381	UTM83-8	WHI11001170	3.8	108	12.3	0.11	0.62	155	17.42	72.3
1096221	7110250	644450	1368	UTM83-8	WHI11001170	4	165	18.1	0.09	1.05	1584	26.31	83.8
1096222	7110255	644402	1366	UTM83-8	WHI11001170	2.6	128	9.6	0.11	0.5	255	16.62	105.1
1096223	7110252	644352	1397	UTM83-8	WHI11001170	1.4	86	8.3	0.15	0.48	223	14.09	92.7
1096224	7110252	644300	1401	UTM83-8	WHI11001170	1.3	144	9.3	0.11	0.65	1753	17.3	96
1096225	7110245	644249	1405	UTM83-8	WHI11001170	0.8	63	7.2	0.14	0.63	40	15.21	60.6
1096226	7110253	644203	1413	UTM83-8	WHI11001170	0.6	62	8.5	0.17	0.59	147	12.74	53.3
1096227	7110251	644150	1417	UTM83-8	WHI11001170	3.1	191	17.5	0.12	0.49	721	19.61	76.2
1096228	7110250	644103	1397	UTM83-8	WHI11001170	2	126	14.5	0.12	0.42	81	27.03	100.1
1096229	7110253	644051	1364	UTM83-8	WHI11001170	1.8	117	12.1	0.07	0.4	148	20.49	79.5
1096230	7110247	644003	1336	UTM83-8	WHI11001170	1.1	109	13.1	0.12	0.43	141	29.69	80.8
1096231	7110247	643897	1272	UTM83-8	WHI11001170	1.4	177	8.3	0.09	0.4	64	14.74	43.7
1096232	7110246	643852	1244	UTM83-8	WHI11001170	0.6	140	8.8	0.1	0.47	42	14.47	46.4
1096233	7110243	643795	1218	UTM83-8	WHI11001170	0.8	266	21.7	0.08	0.42	122	30.68	82.6
1096234	7110248	643752	1187	UTM83-8	WHI11001170	1.2	313	17.1	0.11	0.46	296	32.29	103.4
1096235	7110249	643694	1177	UTM83-8	WHI11001171	0.1	75	14.5	0.1	0.55	134	36.8	114.7
1096236	7110246	643603	1134	UTM83-8	WHI11001171	1.2	221	7.6	0.08	0.39	92	27.23	82.9
1096237	7110252	643545	1111	UTM83-8	WHI11001171	1.6	141	21.8	0.09	0.75	57	45.06	113.8
1096238	7110401	643548	1183	UTM83-8	WHI11001171	0.5	117	8.9	0.11	0.41	21	39.41	99
1096239	7110403	643698	1230	UTM83-8	WHI11001171	1.9	274	38.3	0.15	0.82	83	69.56	135.6
1096240	7110401	643746	1264	UTM83-8	WHI11001171	1	50	10.2	0.11	0.4	26	26.98	79.7
1096241	7110406	643848	1292	UTM83-8	WHI11001171	1.7	368	14.3	0.17	1.07	73	37.03	119.6
1096242	7110395	643900	1300	UTM83-8	WHI11001171	2.3	143	9.6	0.09	0.83	70	40.95	81.6
1096243	7110408	643950	1312	UTM83-8	WHI11001171	2.8	70	16.1	0.1	0.8	106	47.4	97.4
1096244	7110401	643998	1340	UTM83-8	WHI11001171	1.6	82	11.4	0.08	0.42	86	28.88	87.7
1096245	7110407	644051	1373	UTM83-8	WHI11001171	1.2	114	13.6	0.1	0.44	101	30.78	76.1
1096246	7110400	644095	1405	UTM83-8	WHI11001171	1.5	103	13	0.07	0.48	75	27.87	85.8
1096247	7110399	644140	1446	UTM83-8	WHI11001171	1.1	40	13.5	0.06	0.37	68	22.87	75.7
1096248	7110403	644195	1445	UTM83-8	WHI11001171	0.6	29	10.8	0.16	0.44	117	15.26	62.1
1096249	7110403	644249	1440	UTM83-8	WHI11001171	1.3	45	11.8	0.12	0.57	157	16.23	75.5
1096250	7110400	644296	1430	UTM83-8	WHI11001171	0.1	97	12.1	0.15	0.55	90	14.72	79
1096251	7110351	644848	1390	UTM83-8	WHI11001171	0.5	38	14.7	0.11	0.37	127	19.59	60.4
1096252	7110351	644798	1395	UTM83-8	WHI11001171	0.5	43	18.1	0.12	0.47	246	19.62	69.1
1096253	7110348	644750	1403	UTM83-8	WHI11001171	3.4	120	23.2	0.13	0.88	1299	22.1	65.7
1096254	7110351	644698	1409	UTM83-8	WHI11001171	0.7	46	9.8	0.16	0.36	133	13.34	44.2
1096255	7110350	644648	1416	UTM83-8	WHI11001171	1.4	132	18.3	0.11	0.6	380	22.97	75.8
1096256	7110351	644597	1417	UTM83-8	WHI11001171	2.7	219	25.3	0.12	0.6	724	20.64	80.6
1096257	7110353	644548	1419	UTM83-8	WHI11001171	2.7	170	18.8	0.11	0.85	193	25.74	83.2

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1096258	7110350	644500	1412	UTM83-8	WHI11001171	1.1	120	11.9	0.12	0.52	639	13.57	82
1096259	7110349	644449	1408	UTM83-8	WHI11001171	2	179	15.7	0.12	0.44	363	15.28	79
1096260	7110349	644396	1403	UTM83-8	WHI11001171	1.4	150	11.7	0.09	0.45	221	14.08	72.1
1096261	7109973	354055	1855	UTM83-9	WHI11001171	4.9	180	32.6	0.1	1.33	271	23.23	123.6
1096262	7109966	354104	1853	UTM83-9	WHI11001171	1.6	208	26.5	0.13	1.02	215	23.73	123
1096263	7109963	354155	1837	UTM83-9	WHI11001171	3.6	215	34.5	0.12	1.58	361	62.23	279.4
1096264	7109959	354203	1821	UTM83-9	WHI11001171	3.5	150	43.3	0.11	2.47	280	40.31	96.6
1096265	7110228	354033	1740	UTM83-9	WHI11001171	2.5	113	47.5	0.25	0.79	251	70.48	69.3
1096266	7110223	354078	1753	UTM83-9	WHI11001171	5.1	161	34.2	0.22	1.05	455	44.69	172.7
1096267	7110217	354131	1760	UTM83-9	WHI11001171	5.9	109	50.5	0.04	1.89	558	32.41	276.8
1096268	7110211	354181	1761	UTM83-9	WHI11001171	6.9	131	33.8	0.08	1.77	376	35.45	250.8
1096269	7110209	354230	1754	UTM83-9	WHI11001171	11.4	139	41.1	0.12	2.86	292	46.59	260.2
1096270	7110205	354278	1737	UTM83-9	WHI11001171	11.1	161	38.7	0.08	3.82	409	47.58	235.2
1096271	7110198	354323	1701	UTM83-9	WHI11001171	34.1	118	102.4	0.07	4.12	316	26.99	243.2
1096272	7110194	354377	1671	UTM83-9	WHI11001171	9.4	105	54.8	0.05	8.78	1498	33.07	780.4
1096273	7110187	354426	1635	UTM83-9	WHI11001171	2.6	65	14.6	0.03	2	978	20.99	267.8
1096274	7110183	354479	1607	UTM83-9	WHI11001171	6.3	215	56.6	0.1	5.08	1735	43.13	941.1
1096275	7110178	354526	1571	UTM83-9	WHI11001171	2.1	90	23.5	0.1	1.36	121	37.31	150.7
1096276	7110174	354575	1537	UTM83-9	WHI11001171	0.6	67	19.9	0.1	0.67	159	48.96	110.5
1096277	7110170	354623	1524	UTM83-9	WHI11001171	0.9	17	13.5	0.08	1.06	76	29.63	98
1096278	7110163	354678	1492	UTM83-9	WHI11001171	0.5	26	18.8	0.1	0.64	31	22.28	61.7
1096279	7110157	354721	1474	UTM83-9	WHI11001171	0.7	85	10.2	0.09	0.46	28	22.14	45.9
1096280	7110159	354776	1455	UTM83-9	WHI11001171	3.9	26	7.1	0.15	0.34	25	28.16	36.8
1096281	7109976	354006	1846	UTM83-9	WHI11001171	5.8	171	12.9	0.17	0.58	137	29.77	121.8
1096282	7110015	354109	1842	UTM83-9	WHI11001171	4.5	150	61.4	0.08	1.58	301	24.97	129
1096283	7109826	354038	1847	UTM83-9	WHI11001171	4.2	104	20.6	0.12	1.13	226	31.15	99.9
1096284	7109819	354090	1830	UTM83-9	WHI11001171	3.8	52	78.9	0.17	1.57	102	20.42	96.1
1096285	7109812	354141	1800	UTM83-9	WHI11001171	7.1	168	102.2	0.17	2.54	610	27.92	169.9
1096286	7109810	354193	1771	UTM83-9	WHI11001171	9.8	126	147.8	0.25	4.21	224	36.58	166.4
1096287	7109800	354239	1753	UTM83-9	WHI11001171	7.2	92	195.8	0.18	6.1	424	32.94	262.6
1096288	7109800	354286	1739	UTM83-9	WHI11001171	12.5	148	67.9	0.11	2.37	370	27.94	117.4
1096289	7109794	354336	1709	UTM83-9	WHI11001171	3.8	222	28.7	0.14	0.71	464	63.16	71.7
1096290	7109788	354390	1672	UTM83-9	WHI11001171	9.2	157	94.1	0.11	2.61	459	43.62	139.3
1096291	7109786	354438	1644	UTM83-9	WHI11001171	5.6	123	236.9	0.14	2.56	1538	41.4	108.1
1096292	7109784	354491	1614	UTM83-9	WHI11001171	9.7	138	176.3	0.14	3.22	728	39.03	92
1096293	7109925	354000	1855	UTM83-9	WHI11001171	1.8	87	9.7	0.16	0.43	74	20.35	81.9
1096294	7109922	354050	1848	UTM83-9	WHI11001171	1.7	100	15.6	0.15	0.5	126	24.05	85.9
1096295	7109917	354100	1842	UTM83-9	WHI11001171	4.3	138	26.7	0.11	1.13	179	20.85	94.3
1096296	7109913	354151	1826	UTM83-9	WHI11001171	3.6	181	29	0.14	0.96	257	19.03	104.9
1096297	7109909	354200	1811	UTM83-9	WHI11001171	4	152	56.8	0.18	1.46	275	37.29	133.5
1096298	7109903	354250	1782	UTM83-9	WHI11001171	5	131	46.4	0.1	1.45	309	54.09	189.2
1096299	7109897	354301	1758	UTM83-9	WHI11001171	5.2	140	89.5	0.13	2.51	489	28.03	121.9
1096300	7110025	354150	1834	UTM83-9	WHI11001171	6.9	141	55.8	0.26	2.53	333	59.95	175.3
1096301	7110403	644345	1424	UTM83-8	WHI11001170	0.6	84	10.7	0.1	0.45	138	14.9	73.9
1096302	7110400	644401	1421	UTM83-8	WHI11001170	2.3	132	11.9	0.13	0.4	109	17.96	65.7
1096303	7110400	644447	1425	UTM83-8	WHI11001170	1.3	101	13.3	0.12	0.37	103	17.37	92.3
1096304	7110403	644496	1431	UTM83-8	WHI11001170	1.2	71	12.9	0.12	0.42	64	16.11	68.9
1096305	7110404	644548	1426	UTM83-8	WHI11001170	0.1	65	10.2	0.15	0.28	86	13.78	55.1
1096306	7110066	354115	1826	UTM83-9	WHI11001171	3.2	177	44.7	0.11	1.3	729	25.17	142.5
1096307	7110118	354121	1805	UTM83-9	WHI11001171	6.2	126	62.5	0.13	2.73	658	30.76	187.2
1096308	7110113	354161	1805	UTM83-9	WHI11001171	3	106	17.5	0.06	3.63	558	23.08	273.3
1096309	7110354	644350	1420	UTM83-8	WHI11001171	1.9	121	12.2	0.12	0.59	1162	21.41	80.2
1096310	7110348	644298	1428	UTM83-8	WHI11001171	1.4	104	14.5	0.1	1.18	361	17.52	86
1096311	7110350	644250	1442	UTM83-8	WHI11001171	2	180	12.7	0.09	0.45	458	16.55	72.8
1096312	7110349	644198	1444	UTM83-8	WHI11001171	0.6	54	13.5	0.13	0.54	406	15.81	65.1
1096313	7110350	644150	1442	UTM83-8	WHI11001171	1.2	70	12.2	0.11	0.38	410	20.7	55.5
1096314	7110352	644100	1417	UTM83-8	WHI11001171	1.4	100	14.2	0.08	0.44	443	27.74	85.9
1096315	7110350	644050	1373	UTM83-8	WHI11001171	1.1	96	14.1	0.1	0.49	104	41.44	83.6
1096316	7110351	644000	1344	UTM83-8	WHI11001171	1.7	142	15	0.09	0.57	279	30.88	81.2
1096317	7110350	643950	1311	UTM83-8	WHI11001171	0.9	75	10.9	0.06	0.42	105	26.61	69.8
1096318	7110347	643896	1284	UTM83-8	WHI11001171	0.1	71	10.6	0.08	0.47	67	19.09	63.6
1096319	7110350	643799	1248	UTM83-8	WHI11001171	1.1	73	12.2	0.1	1.57	65	39.09	72.2

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1096320	7110352	643749	1241	UTM83-8	WHI11001171	0.1	33	7	0.07	0.39	63	14.64	43.6
1096321	7110350	643699	1210	UTM83-8	WHI11001171	0.9	148	15.1	0.07	0.38	110	43.84	92.2
1096322	7110097	644399	1336	UTM83-8	WHI11001139	1.3	80	10.7	0.08	0.46	142	15.53	114
1096323	7110098	644348	1338	UTM83-8	WHI11001139	6.3	107	11.6	0.11	0.46	235	18.76	88.4
1096324	7110099	644299	1363	UTM83-8	WHI11001139	2.4	156	8.9	0.1	0.34	389	13.99	74.4
1096325	7110102	644249	1380	UTM83-8	WHI11001139	2.9	234	11.4	0.09	0.52	1013	17.02	65.2
1096326	7110100	644197	1394	UTM83-8	WHI11001139	4.3	154	21.4	0.1	1.54	1109	25.58	66.3
1096327	7110104	644151	1402	UTM83-8	WHI11001139	1.2	192	9.9	0.1	0.52	167	19.36	51.5
1096328	7110097	644099	1387	UTM83-8	WHI11001139	0.7	37	9.8	0.13	0.31	49	20.7	70
1096329	7110102	644048	1363	UTM83-8	WHI11001139	2.7	134	9.8	0.1	0.42	191	19.37	55
1096330	7110098	643998	1336	UTM83-8	WHI11001139	1.3	88	13.8	0.14	0.46	86	33.35	84.4
1096331	7110101	643950	1318	UTM83-8	WHI11001139	0.8	139	26.6	0.17	1.12	64	53.9	109.9
1096332	7110099	643899	1278	UTM83-8	WHI11001139	0.6	71	8.7	0.13	0.48	42	19.01	57.4
1096333	7110103	643848	1255	UTM83-8	WHI11001139	0.6	68	11.2	0.11	0.54	48	32.31	87.7
1096334	7110103	643801	1226	UTM83-8	WHI11001139	1.3	161	26.3	0.15	0.49	77	63.36	101.9
1096335	7110100	643752	1198	UTM83-8	WHI11001139	0.9	231	10.4	0.14	0.33	99	37.54	90.1
1096336	7110100	643700	1158	UTM83-8	WHI11001139	1	196	7.8	0.15	0.26	91	32.41	73.9
1096337	7110108	643602	1104	UTM83-8	WHI11001139	0.8	63	10.2	0.1	0.45	92	23.77	90.8
1096338	7110104	643547	1074	UTM83-8	WHI11001139	1.1	102	8.7	0.09	0.32	70	22.15	107.5
1096339	7110154	643997	1328	UTM83-8	WHI11001139	0.6	53	10.4	0.1	0.38	55	19.03	141.8
1096340	7110149	643948	1302	UTM83-8	WHI11001139	0.7	177	16.7	0.11	0.54	105	31.86	82.4
1096341	7110145	643896	1274	UTM83-8	WHI11001139	1.5	104	11.1	0.15	0.46	42	23.92	81.2
1096342	7110151	643849	1245	UTM83-8	WHI11001139	0.4	122	5.4	0.12	0.29	43	28.94	81.1
1096343	7110150	643800	1223	UTM83-8	WHI11001139	0.7	155	13.9	0.13	0.45	82	36.06	92.4
1096344	7110151	643692	1163	UTM83-8	WHI11001139	1.1	147	9.3	0.15	0.33	75	35.22	94.4
1096345	7110150	643651	1131	UTM83-8	WHI11001139	0.6	91	6.6	0.11	0.29	40	32.03	72.4
1096346	7110147	643602	1110	UTM83-8	WHI11001139	1.1	55	10	0.09	0.32	59	25.28	81.2
1096347	7109695	644002	1164	UTM83-8	WHI11001139	1.1	174	4.5	0.1	0.21	178	24.9	93.5
1096348	7109702	643798	1129	UTM83-8	WHI11001139	2.1	117	12.9	0.11	0.42	327	27.45	72.3
1096349	7109697	643750	1108	UTM83-8	WHI11001139	1.8	154	10.3	0.08	0.42	278	23.21	72.9
1096350	7109701	643698	1089	UTM83-8	WHI11001139	1.5	129	10.4	0.11	0.43	301	28.11	75.7
1096351	7109306	643598	1053	UTM83-8	WHI11001140	1.3	152	6.5	0.07	0.32	125	16.67	87.3
1096352	7109301	643546	1046	UTM83-8	WHI11001140	1.2	154	5.9	0.1	0.39	154	19.42	83.3
1096353	7109251	644301	1217	UTM83-8	WHI11001140	1.4	90	7.8	0.08	0.34	67	16.42	80.1
1096354	7109250	644249		UTM83-8	WHI11001140	1.1	135	10.3	0.07	0.37	64	22.94	73.3
1096355	7109251	644202	1183	UTM83-8	WHI11001140	0.9	126	11.9	0.09	0.47	92	24	84.1
1096356	7109253	644151	1187	UTM83-8	WHI11001140	0.8	49	12.5	0.08	0.47	57	27.21	87.2
1096357	7109251	644103	1170	UTM83-8	WHI11001140	1.4	127	11.8	0.09	0.37	94	26.21	79.4
1096358	7109255	644051	1164	UTM83-8	WHI11001140	0.8	81	14.7	0.07	0.55	137	27.71	83.7
1096359	7109253	643994	1146	UTM83-8	WHI11001140	0.4	102	34.5	0.14	0.91	404	58.84	111.1
1096360	7109255	643952	1137	UTM83-8	WHI11001140	1.2	164	7.4	0.09	0.3	258	25.86	74.3
1096361	7109255	643901	1114	UTM83-8	WHI11001140	0.9	99	8.7	0.07	0.27	173	21.34	70.1
1096362	7109254	643851	1102	UTM83-8	WHI11001140	0.7	124	8.3	0.08	0.42	263	19.98	87.9
1096363	7109251	643803	1067	UTM83-8	WHI11001140	1.3	92	9.9	0.08	0.48	847	23.05	73.6
1096364	7109255	643700	1076	UTM83-8	WHI11001140	4.7	169	11.5	0.1	0.58	135	22.64	90.6
1096365	7109256	643649	1097	UTM83-8	WHI11001140	1.9	138	9.4	0.08	0.37	169	17.17	78.2
1096366	7109252	643602	1099	UTM83-8	WHI11001140	2.4	135	9.3	0.07	0.38	139	19.68	82.5
1096367	7109254	643547	1096	UTM83-8	WHI11001140	1.9	109	6.4	0.08	0.3	132	17.18	82.8
1096368	7109250	643501	1091	UTM83-8	WHI11001140	1.5	90	10	0.08	0.5	111	21.94	95.6
1096369	7110353	642146	1320	UTM83-8	WHI11001140	0.9	205	23.1	0.17	0.68	238	35.24	110.7
1096370	7110353	642198	1339	UTM83-8	WHI11001140	1.3	578	10.6	0.1	0.39	290	95.46	86.1
1096371	7110350	642247	1347	UTM83-8	WHI11001140	0.9	254	7.9	0.12	0.34	264	19.79	79.4
1096372	7110357	642406	1283	UTM83-8	WHI11001140	1.8	67	16.6	0.09	1.68	49	31.93	31.8
1096373	7110349	642447	1275	UTM83-8	WHI11001140	0.7	68	3.2	0.07	0.28	67	11.86	39.6
1096374	7110347	642496	1278	UTM83-8	WHI11001140	1.5	164	18.8	0.13	1.21	132	33.16	108.3
1096375	7110348	642597	1237	UTM83-8	WHI11001140	0.2	30	4.3	0.06	0.15	52	23.31	24.9
1096376	7110350	642647	1203	UTM83-8	WHI11001140	0.1	112	6.1	0.05	0.28	87	26.46	62.9
1096377	7110349	642695	1180	UTM83-8	WHI11001140	0.9	236	7.1	0.17	0.29	70	47.43	134.4
1096378	7110349	642798	1139	UTM83-8	WHI11001140	0.2	280	9.1	0.22	0.26	207	34.39	123.6
1096379	7110351	642845	1116	UTM83-8	WHI11001140	0.8	240	7.2	0.24	0.22	274	41.93	106
1096380	7110352	642895	1084	UTM83-8	WHI11001140	0.6	222	5.7	0.17	0.25	129	27.58	106.6
1096381	7110351	642947	1059	UTM83-8	WHI11001140	0.6	219	5.5	0.16	0.24	124	27.64	101.5

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1096382	7110353	642998	1041	UTM83-8	WHI11001140	0.5	213	6.8	0.12	0.29	83	36.32	122
1096383	7110301	642145	1355	UTM83-8	WHI11001140	0.6	266	19.2	0.26	0.68	294	38.03	132.5
1096384	7110299	642195	1363	UTM83-8	WHI11001140	0.2	223	13.8	0.28	0.4	259	37.67	128
1096385	7110293	642444	1300	UTM83-8	WHI11001140	0.6	288	7	0.16	0.25	83	37.17	121.3
1096386	7110302	642498	1290	UTM83-8	WHI11001140	0.4	98	8.7	0.08	0.2	62	34.87	63.2
1096387	7110298	642552	1274	UTM83-8	WHI11001140	0.3	86	5.6	0.07	0.23	105	40.88	55.3
1096388	7110300	642593	1238	UTM83-8	WHI11001140	0.3	235	10.5	0.33	0.41	101	31.71	161.6
1096389	7110300	642648	1215	UTM83-8	WHI11001140	0.1	186	5.1	0.13	0.21	79	26.54	78.5
1096390	7110297	642697	1189	UTM83-8	WHI11001140	0.1	290	7.5	0.2	0.23	156	30.97	115.9
1096391	7110304	642749	1175	UTM83-8	WHI11001140	0.8	352	7.9	0.16	0.28	187	42.01	111.8
1096392	7110299	642846	1127	UTM83-8	WHI11001140	0.1	216	7.2	0.22	0.26	165	26.36	107.3
1096393	7110298	642898	1102	UTM83-8	WHI11001140	0.6	271	6.5	0.19	0.26	127	31.77	116
1096394	7110301	642946	1054	UTM83-8	WHI11001140	0.1	168	5.9	0.15	0.26	58	43.81	119.3
1096395	7110304	642998	1040	UTM83-8	WHI11001140	0.3	100	8.1	0.14	0.34	45	41.15	112.5
1096396	7110304	643050	1023	UTM83-8	WHI11001140	0.1	127	8.4	0.11	0.31	52	34.41	79.3
1096397	7109852	642151	1508	UTM83-8	WHI11001140	0.1	29	7.9	0.14	0.27	28	27.88	91.2
1096398	7109851	642198	1509	UTM83-8	WHI11001140	0.3	44	9	0.19	0.31	77	36.63	109.8
1096399	7109850	642248	1507	UTM83-8	WHI11001140	0.5	38	8.8	0.17	0.35	48	24.15	76.1
1096400	7109849	642298	1507	UTM83-8	WHI11001139	1.3	25	12.4	0.16	0.47	108	35.68	122.2
1096401	7109849	642349	1522	UTM83-8	WHI11001139	0.8	77	11	0.27	0.67	124	48.11	108.1
1096402	7109852	642397	1525	UTM83-8	WHI11001139	1.9	73	11.2	0.17	0.8	66	33.76	90.2
1096403	7109850	642445	1509	UTM83-8	WHI11001139	0.5	509	7.3	0.34	0.28	127	76.63	199.8
1096404	7109851	642504	1478	UTM83-8	WHI11001139	0.9	296	13.1	0.2	0.45	126	47.92	138
1096405	7109847	642552	1446	UTM83-8	WHI11001139	3.2	273	57.9	0.16	9.28	1887	41.89	148
1096406	7109851	642602	1411	UTM83-8	WHI11001139	1.2	296	6.1	0.11	0.58	125	58.05	90.7
1096407	7109849	642646	1398	UTM83-8	WHI11001139	1.9	405	14.3	0.14	0.76	72	56.64	118.8
1096408	7109850	642746	1390	UTM83-8	WHI11001139	0.6	301	9.6	0.21	0.81	67	95.88	123.3
1096409	7109851	642845	1369	UTM83-8	WHI11001139	0.8	228	9.3	0.13	0.42	71	26.99	108.1
1096410	7109848	642901	1358	UTM83-8	WHI11001139	0.6	122	6.8	0.09	0.28	23	22.71	76.5
1096411	7109848	642953	1324	UTM83-8	WHI11001139	0.5	195	5.6	0.09	0.25	45	17.56	50.4
1096412	7109849	643052	1258	UTM83-8	WHI11001139	0.1	100	6.3	0.1	0.26	22	14.47	49.8
1096413	7109850	643193	1149	UTM83-8	WHI11001139	0.7	348	10.9	0.14	0.5	80	32.56	92.6
1096414	7109850	643249	1108	UTM83-8	WHI11001139	0.8	259	8.3	0.09	0.4	69	31.06	69.3
1096415	7109852	643297	1065	UTM83-8	WHI11001139	1	255	7.1	0.09	0.33	87	27.59	67.2
1096416	7109803	642150	1523	UTM83-8	WHI11001139	0.2	66	8.4	0.15	0.38	35	32.14	83.3
1096417	7109801	642198	1527	UTM83-8	WHI11001139	0.1	84	8.9	0.19	0.46	33	32.47	92.9
1096418	7109801	642247	1527	UTM83-8	WHI11001139	0.1	51	8	0.18	0.39	43	30	83.3
1096419	7109798	642297	1522	UTM83-8	WHI11001139	0.1	46	7	0.17	0.43	31	24.59	83.8
1096420	7109800	642350	1532	UTM83-8	WHI11001139	0.4	49	9.4	0.16	0.58	31	28.76	96.7
1096421	7109801	642396	1535	UTM83-8	WHI11001139	0.1	39	9.6	0.14	0.74	29	24.39	78.5
1096422	7109803	642452	1523	UTM83-8	WHI11001139	0.1	293	8.4	0.29	0.4	136	44.13	138.1
1096423	7109803	642503	1493	UTM83-8	WHI11001139	0.1	165	23.6	0.16	0.62	94	66.43	117.5
1096424	7109797	642552	1455	UTM83-8	WHI11001139	0.1	251	5.5	0.15	0.54	98	72.81	110.1
1096425	7109799	642601	1441	UTM83-8	WHI11001139	1.6	414	14.9	0.21	0.45	87	33.32	134.9
1096426	7109801	642697	1420	UTM83-8	WHI11001139	0.4	296	9	0.12	0.49	69	31.59	98.2
1096427	7109802	642744	1423	UTM83-8	WHI11001139	0.2	208	6.7	0.15	0.64	46	54.96	103.6
1096428	7109797	642801	1408	UTM83-8	WHI11001139	0.1	128	10.6	0.16	0.36	10	26.05	60.1
1096429	7109800	642851	1382	UTM83-8	WHI11001139	0.1	235	14.8	0.08	0.97	64	20.24	72.1
1096430	7109802	642898	1360	UTM83-8	WHI11001139	0.1	182	8.1	0.1	0.44	29	45.59	130.9
1096431	7109801	642945	1324	UTM83-8	WHI11001139	0.1	142	7	0.09	0.27	20	24.03	63.7
1096432	7109799	642995	1273	UTM83-8	WHI11001139	0.7	176	7.3	0.12	0.38	11	26.26	69.5
1096433	7109800	643044	1263	UTM83-8	WHI11001139	0.1	148	5.5	0.11	0.33	54	16.1	62.4
1096434	7109801	643195	1149	UTM83-8	WHI11001139	0.1	211	3.7	0.09	0.31	51	19.72	54.9
1096435	7109796	643247	1110	UTM83-8	WHI11001139	0.4	226	6.6	0.11	0.33	90	24.31	70.8
1096436	7109796	643345	1032	UTM83-8	WHI11001139	0.5	220	7.6	0.08	0.32	80	30.41	67
1096437	7109350	642145	1495	UTM83-8	WHI11001302	0.5	88	8.1	0.11	0.37	44	30.91	83.3
1096438	7109355	642194	1468	UTM83-8	WHI11001302	0.5	122	9.8	0.11	0.45	65	35.95	92.2
1096439	7109348	642250	1451	UTM83-8	WHI11001302	1.3	202	9.3	0.13	0.38	50	40.15	95.7
1096440	7109353	642297	1432	UTM83-8	WHI11001302	1.1	183	10	0.14	0.49	53	43.33	104.7
1096441	7109353	642351	1404	UTM83-8	WHI11001302	1.6	326	23	0.16	0.61	92	61.67	144.7
1096442	7109347	642395	1373	UTM83-8	WHI11001302	1.2	319	10.7	0.12	0.48	56	40.26	95.7
1096443	7109347	642451	1383	UTM83-8	WHI11001302	0.3	140	37.8	0.14	0.77	52	37.85	92.6

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1096444	7109353	642499	1348	UTM83-8	WHI11001302	0.9	248	7.5	0.08	0.39	32	43.76	131.5
1096445	7109351	642545	1318	UTM83-8	WHI11001302	0.8	101	21.4	0.11	1.15	82	46.21	92.7
1096446	7109345	642600	1320	UTM83-8	WHI11001302	0.4	208	16.9	0.12	0.87	56	48.44	131.6
1096447	7109346	642651	1337	UTM83-8	WHI11001302	0.3	257	8.7	0.09	0.53	35	27.61	86.4
1096448	7109352	642696	1322	UTM83-8	WHI11001302	0.5	98	8.3	0.13	0.57	58	44.82	125.4
1096449	7109355	642746	1289	UTM83-8	WHI11001302	2	96	13.3	0.08	0.59	70	32.5	96.8
1096450	7109349	642799	1255	UTM83-8	WHI11001302	1.6	62	15.7	0.09	0.74	72	31.22	91.4
1096451	7109348	642848	1226	UTM83-8	WHI11001140	0.9	52	9.3	0.11	0.39	12	20.14	70
1096452	7109350	642899	1194	UTM83-8	WHI11001140	0.2	57	10.1	0.07	0.53	52	31.93	114.8
1096453	7109352	642949	1164	UTM83-8	WHI11001140	0.7	31	10.7	0.11	0.38	58	38.71	81.3
1096454	7109350	642998	1135	UTM83-8	WHI11001140	1.3	155	8	0.08	0.35	86	31.06	75.3
1096455	7109348	643048	1101	UTM83-8	WHI11001140	0.2	160	7.4	0.07	0.31	85	27.63	68.1
1096456	7109305	642150	1456	UTM83-8	WHI11001140	1.2	248	16.7	0.14	1.22	174	30.97	102.4
1096457	7109303	642199	1436	UTM83-8	WHI11001140	0.7	191	11.9	0.13	0.4	193	32.87	109.5
1096458	7109302	642247	1404	UTM83-8	WHI11001140	1.8	350	39.5	0.13	0.58	90	87.83	196.7
1096459	7109305	642299	1396	UTM83-8	WHI11001140	1.8	314	29	0.15	0.72	87	67.35	154.3
1096460	7109301	642352	1376	UTM83-8	WHI11001140	0.5	391	50.7	0.13	0.69	100	90.17	168.5
1096461	7109304	642399	1342	UTM83-8	WHI11001140	1.3	302	10.9	0.1	0.41	60	36.76	89.1
1096462	7109299	642446	1338	UTM83-8	WHI11001140	0.9	298	17.5	0.24	0.48	88	125.11	174.6
1096463	7109299	642498	1341	UTM83-8	WHI11001140	0.7	76	9.8	0.1	0.29	104	32.13	85.3
1096464	7109300	642544	1304	UTM83-8	WHI11001140	0.7	70	13.7	0.08	0.48	33	26.13	95.1
1096465	7109300	642598	1286	UTM83-8	WHI11001140	0.3	83	13.4	0.1	0.45	44	31.97	110
1096466	7109299	642649	1311	UTM83-8	WHI11001140	0.4	61	16.6	0.11	0.4	97	29.55	83.5
1096467	7109300	642698	1305	UTM83-8	WHI11001140	0.2	169	9.7	0.07	0.42	34	23.32	82
1096468	7109303	642746	1284	UTM83-8	WHI11001140	0.1	158	12.8	0.1	0.62	250	25.35	81.6
1096469	7109301	642801	1252	UTM83-8	WHI11001140	0.1	72	7.8	0.11	0.67	292	31.07	93.6
1096470	7109305	642849	1219	UTM83-8	WHI11001140	1.3	80	17.2	0.11	3.4	228	25.15	69.3
1096471	7109304	642897	1193	UTM83-8	WHI11001140	6.3	266	15.2	0.1	1.9	453	20.11	57.8
1096472	7109298	642949	1149	UTM83-8	WHI11001140	1	101	13.5	0.08	0.98	219	29.64	72.4
1096473	7109299	643000	1118	UTM83-8	WHI11001140	0.1	93	14	0.11	0.86	197	32.79	78.1
1096474	7109298	643048	1090	UTM83-8	WHI11001140	1.1	155	7.3	0.08	0.4	122	20.12	56.9
1096475	7108904	642151	1473	UTM83-8	WHI11001140	0.6	505	23.9	0.21	0.65	64	84.74	138
1096476	7108905	642201	1448	UTM83-8	WHI11001302	0.6	196	20.2	0.14	1.14	218	39.64	76.5
1096477	7108905	642296	1385	UTM83-8	WHI11001302	1.4	76	11	0.19	0.49	133	34.98	75.8
1096478	7108903	642347	1348	UTM83-8	WHI11001302	1	119	6.7	0.1	0.43	58	32.46	80.4
1096479	7108903	642396	1316	UTM83-8	WHI11001302	1	61	7.6	0.14	0.31	27	30.36	79.2
1096480	7108898	642450	1288	UTM83-8	WHI11001302	1.2	309	16.6	0.16	0.76	203	30.19	91.8
1096481	7108898	642499	1257	UTM83-8	WHI11001302	0.3	87	16.5	0.13	0.39	36	31.89	81
1096482	7108902	642546	1229	UTM83-8	WHI11001302	0.2	282	9.8	0.14	0.42	43	30.17	73
1096483	7108902	642594	1213	UTM83-8	WHI11001302	0.8	138	10.6	0.17	0.33	37	29.22	73.7
1096484	7108900	642647	1191	UTM83-8	WHI11001302	0.5	58	6.1	0.15	0.22	48	20.53	80.3
1096485	7108900	642697	1159	UTM83-8	WHI11001302	1.2	171	8.1	0.11	0.36	136	27.17	62.4
1096486	7108902	642745	1123	UTM83-8	WHI11001302	2.9	82	11.9	0.15	0.37	143	27.65	63.9
1096487	7108898	642795	1099	UTM83-8	WHI11001302	3.2	142	7.8	0.12	0.65	173	23.46	79.9
1096488	7108602	641751	1482	UTM83-8	WHI11001302	6.4	226	15.6	0.07	1.64	562	28.7	39.3
1096489	7108600	641702	1450	UTM83-8	WHI11001302	2.5	228	30	0.16	2.89	686	69.72	56.8
1096490	7108600	641650	1424	UTM83-8	WHI11001302	6.8	126	13.6	0.1	1.26	375	21.05	21.8
1096491	7108603	641601	1396	UTM83-8	WHI11001302	0.6	38	14.9	0.05	0.55	30	11.01	31.5
1096492	7108605	641550	1356	UTM83-8	WHI11001302	5.4	177	22.9	0.09	2.23	364	40.95	198.8
1096493	7108600	641499	1318	UTM83-8	WHI11001302	1.7	147	15.6	0.09	1.23	191	29.91	70.9
1096494	7108599	641449	1286	UTM83-8	WHI11001302	1.9	134	17.2	0.1	1.11	88	23.6	171.7
1096495	7108599	641398	1264	UTM83-8	WHI11001302	0.9	114	9.7	0.05	0.5	85	16.58	65.3
1096496	7108597	641348	1249	UTM83-8	WHI11001302	0.8	121	9.9	0.09	0.54	39	34.77	74.9
1096497	7108600	641300	1224	UTM83-8	WHI11001302	1.5	227	16.7	0.1	0.88	142	36.07	123.6
1096498	7108598	641247	1209	UTM83-8	WHI11001302	2.2	98	16.4	0.12	0.82	59	35.52	115.2
1096499	7108606	641199	1164	UTM83-8	WHI11001302	2.4	61	8.9	0.06	0.84	52	12.74	50.3
1096500	7108597	641795	1441	UTM83-8	WHI11001302	2.8	214	45	0.16	2.18	502	39.91	91.2
1096501	7107945	635500	1088	UTM83-8	WHI11001349	1.1	103	10.1	0.09	0.92	141	32.72	172.8
1096502	7108652	635501	1111	UTM83-8	WHI11001349	1.9	193	8.2	0.11	0.47	51	22.63	75.9
1096503	7108600	635500	1111	UTM83-8	WHI11001349	1.8	112	7.4	0.11	0.39	45	19.97	65.1
1096504	7108551	635493	1112	UTM83-8	WHI11001349	0.4	159	4.7	0.09	0.31	41	14.56	45.6
1096505	7108504	635502	1096	UTM83-8	WHI11001349	0.3	120	6.7	0.09	0.46	39	20.08	97.8

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1096506	7108452	635500	1091	UTM83-8	WHI11001349	1.2	91	4.9	0.12	0.34	42	15.99	80.4
1096507	7108404	635498	1131	UTM83-8	WHI11001349	0.9	75	3.4	0.08	0.3	69	15.45	84.6
1096508	7108359	635500	1145	UTM83-8	WHI11001349	2	121	5.1	0.1	0.35	56	15.29	91.7
1096509	7108299	635498	1106	UTM83-8	WHI11001349	2	124	8.6	0.1	0.58	87	26.24	71.1
1096510	7108257	635493	1083	UTM83-8	WHI11001349	1.9	75	9.3	0.12	0.71	68	28.74	106.7
1096511	7108149	635491	1102	UTM83-8	WHI11001349	5.8	58	8	0.11	0.41	60	17.32	79.1
1096512	7108103	635496	1103	UTM83-8	WHI11001349	4.1	125	9.6	0.08	0.49	88	19.17	70.2
1096513	7108057	635500	1104	UTM83-8	WHI11001349	3.5	108	6.3	0.08	0.35	90	17.16	67.7
1096514	7108001	635495	1104	UTM83-8	WHI11001349	2.6	11	8.4	0.12	0.37	22	16.17	68.2
1096515	7108659	636298	1114	UTM83-8	WHI11001349	2.1	89	5.4	0.11	0.59	33	6.83	19.9
1096516	7108605	636295	1259	UTM83-8	WHI11001349	0.9	73	7.6	0.05	1.06	32	9.37	11.8
1096517	7108547	636303	1243	UTM83-8	WHI11001349	1.9	107	9.9	0.16	0.82	37	20.04	50.2
1096518	7108509	636300	1220	UTM83-8	WHI11001349	1.1	101	8.6	0.1	0.74	50	16.7	70.3
1096519	7108450	636298	1198	UTM83-8	WHI11001349	2	166	12.6	0.12	1	80	29.05	78.9
1096520	7108400	636304	1181	UTM83-8	WHI11001349	1.5	115	12.2	0.11	0.86	52	25.33	95.3
1096521	7108352	636303	1117	UTM83-8	WHI11001349	1.6	144	10.8	0.1	0.62	31	26.66	138.2
1096522	7108256	636302	1136	UTM83-8	WHI11001349	1.6	104	13.2	0.13	1	57	26.49	95.9
1096523	7108206	636297	1109	UTM83-8	WHI11001356	0.5	53	10.4	0.12	0.68	36	24.82	92.8
1096524	7108157	636308	1089	UTM83-8	WHI11001356	0.9	109	11	0.11	0.67	42	22.66	88
1096525	7108107	636300	1055	UTM83-8	WHI11001356	1.3	59	13.2	0.11	0.7	31	25.58	59.8
1096526	7108047	636300	1051	UTM83-8	WHI11001356	0.7	6	8.4	0.1	0.49	12	15.77	62.9
1096527	7108005	636295	1036	UTM83-8	WHI11001356	0.9	50	6.9	0.05	0.34	51	15.15	43.3
1096528	7107354	637501	1392	UTM83-8	WHI11001350	0.3	37	5.6	0.14	0.31	32	21.84	77.1
1096529	7107399	637500	1406	UTM83-8	WHI11001350	0.1	12	3.6	0.1	0.2	27	38.51	84
1096530	7107451	637498	1385	UTM83-8	WHI11001350	0.1	53	4.7	0.09	0.28	31	17.17	70.9
1096531	7107497	637499	1369	UTM83-8	WHI11001350	0.2	83	4.6	0.09	0.3	33	28.01	85.4
1096532	7107548	637500	1357	UTM83-8	WHI11001350	1.5	72	3.7	0.15	0.21	142	45.14	118.7
1096533	7107598	637498	1353	UTM83-8	WHI11001350	0.3	52	5.2	0.13	0.21	35	51.95	109.3
1096534	7107651	637503	1329	UTM83-8	WHI11001350	0.3	69	5.9	0.11	0.26	25	47.33	82.6
1096535	7107705	637499	1313	UTM83-8	WHI11001350	0.1	23	6.2	0.15	0.25	32	51.19	89.5
1096536	7107750	637499	1292	UTM83-8	WHI11001350	0.3	117	4.7	0.09	0.34	37	27.39	73.9
1096537	7107803	637499	1294	UTM83-8	WHI11001350	0	0	0	0	0	0	0	0
1096538	7107846	637499	1309	UTM83-8	WHI11001350	0.2	60	6.8	0.1	0.54	38	15.5	83.2
1096539	7107898	637498	1287	UTM83-8	WHI11001350	0.6	61	5.2	0.11	0.31	55	50.32	79.6
1096540	7108000	637499		UTM83-8	WHI11001350	0.2	36	2.8	0.12	0.16	18	50.36	94.2
1096541	7108046	637497	1227	UTM83-8	WHI11001350	0.4	81	3	0.1	0.2	52	27.68	70.1
1096542	7108146	637500	1204	UTM83-8	WHI11001350	1.1	76	14.2	0.05	1.83	465	22.67	426.1
1096543	7108198	637496	1202	UTM83-8	WHI11001350	0.1	85	8.7	0.06	0.84	85	16.64	80.7
1096544	7108249	637496	1177	UTM83-8	WHI11001350	1.3	66	24.3	0.07	2.56	122	21.77	76.9
1096545	7108297	637498	1152	UTM83-8	WHI11001350	0.9	130	10.7	0.14	1.36	179	23.88	112.8
1096546	7108350	637496	1126	UTM83-8	WHI11001350	0.4	102	13.5	0.09	2.14	193	21.29	164.6
1096547	7108402	637497	1109	UTM83-8	WHI11001350	0.9	137	5.8	0.1	0.32	68	27.16	98.5
1096548	7108493	637500	1073	UTM83-8	WHI11001350	0.7	156	6.3	0.07	0.28	68	20.04	104.9
1096549	7108553	637502	1049	UTM83-8	WHI11001350	0.8	152	5.2	0.06	0.28	64	16.67	85.3
1096550	7108596	637498	1035	UTM83-8	WHI11001350	0.5	130	5.2	0.05	0.26	61	17.61	85.6
1096551	7108599	641845	1408	UTM83-8	WHI11001140	1.2	162	34.7	0.13	2.32	211	45.49	99.7
1096552	7108597	641900	1370	UTM83-8	WHI11001140	0.7	144	18.6	0.11	0.91	118	26.81	90.2
1096553	7108597	641948	1339	UTM83-8	WHI11001140	3.3	331	42.4	0.12	3.96	271	87.72	191
1096554	7108597	641994	1305	UTM83-8	WHI11001140	0.7	168	7.3	0.26	0.23	42	40.27	95.2
1096555	7108601	642045	1261	UTM83-8	WHI11001140	0.6	281	12	0.16	0.61	87	47.48	99.9
1096556	7108604	642096	1245	UTM83-8	WHI11001140	1.2	325	13.4	0.11	0.52	41	41.09	84.2
1096557	7108601	642195	1253	UTM83-8	WHI11001140	0.9	328	13.8	0.21	0.61	49	51.61	100.5
1096558	7108605	642250	1244	UTM83-8	WHI11001140	0.1	319	5.1	0.07	0.29	96	23.49	56.6
1096559	7108603	642298	1233	UTM83-8	WHI11001140	0.9	211	5	0.09	0.27	78	18.55	42.8
1096560	7108599	642345	1220	UTM83-8	WHI11001140	0.1	201	10.9	0.17	0.47	33	42.19	84.7
1096561	7108603	642398	1200	UTM83-8	WHI11001140	0.1	305	9.4	0.11	0.51	36	41.57	74.2
1096562	7108605	642445	1175	UTM83-8	WHI11001140	1.3	211	4.1	0.11	0.23	149	19.04	38.7
1096563	7108605	642498	1140	UTM83-8	WHI11001140	1.3	283	16.5	0.12	0.45	95	42.22	86.8
1096564	7108602	642546	1116	UTM83-8	WHI11001140	0.4	315	44.6	0.25	1.03	51	69.48	95.6
1096565	7108598	642596	1085	UTM83-8	WHI11001140	0.2	78	15.5	0.1	0.43	27	36.84	89.8
1096566	7108350	641653	1382	UTM83-8	WHI11001140	2.4	76	13.8	0.12	1.06	94	18.45	31.7
1096567	7108351	641601	1343	UTM83-8	WHI11001140	15.7	159	16.6	0.21	2.55	250	32.02	35.1

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1096568	7108353	641550	1303	UTM83-8	WHI11001140	3.1	134	19.8	0.14	1.69	201	35.07	35.9
1096569	7108348	641502	1267	UTM83-8	WHI11001140	1.9	125	18.1	0.16	1.38	153	36.67	64.1
1096570	7108347	641448	1239	UTM83-8	WHI11001140	3	154	19.2	0.11	1.82	97	23.3	54.8
1096571	7108347	641390	1209	UTM83-8	WHI11001140	2	120	16.3	0.14	1	121	30.58	99.4
1096572	7108348	641349	1196	UTM83-8	WHI11001140	3.3	53	10.3	0.14	0.51	42	29.42	79.8
1096573	7108353	641302	1168	UTM83-8	WHI11001140	2.2	154	27.3	0.17	1.96	314	40.5	128.8
1096574	7108349	641251	1143	UTM83-8	WHI11001140	3.1	142	19.4	0.13	1.25	266	29.98	100.1
1096575	7108355	641198	1140	UTM83-8	WHI11001140	1.9	108	11.3	0.08	0.78	110	19.94	89.8
1096576	7108352	641698	1407	UTM83-8	WHI11001189	3.2	140	16.6	0.16	1.06	111	29.28	77
1096577	7108349	641750	1396	UTM83-8	WHI11001189	2.1	102	23.5	0.14	1.53	115	35.1	102.6
1096578	7108346	641797	1370	UTM83-8	WHI11001189	2.1	120	30.5	0.12	2.59	139	39.47	139
1096579	7108354	641846	1363	UTM83-8	WHI11001189	4	138	23.7	0.07	1.62	116	22.43	54.4
1096580	7108354	641895	1324	UTM83-8	WHI11001189	0.5	139	30.6	0.09	1.29	151	56.56	85.3
1096581	7108352	641945	1282	UTM83-8	WHI11001189	0.6	147	11.1	0.13	0.43	59	31.16	74.4
1096582	7108350	642004	1247	UTM83-8	WHI11001189	0.9	181	9.6	0.11	0.45	34	33.43	72.1
1096583	7108352	642048	1232	UTM83-8	WHI11001189	0.6	126	9.3	0.1	0.48	15	32.44	80.3
1096584	7108347	642100	1222	UTM83-8	WHI11001189	0.7	110	9.3	0.07	0.37	14	24.88	66.2
1096585	7108346	642148	1217	UTM83-8	WHI11001189	0.6	80	11.4	0.09	0.31	18	31.57	67
1096586	7108353	642198	1197	UTM83-8	WHI11001189	0.9	111	10.4	0.07	0.37	39	33.36	68.1
1096587	7108355	642246	1167	UTM83-8	WHI11001189	0.9	184	11.6	0.1	0.39	62	29.84	75.2
1096588	7108350	642347	1089	UTM83-8	WHI11001189	0.6	143	8.3	0.07	0.29	92	23.13	59.4
1096589	7108354	642395	1056	UTM83-8	WHI11001189	0.4	292	10.5	0.14	0.44	72	30.04	66.2
1096590	7108102	641645	1326	UTM83-8	WHI11001189	1.2	136	28.5	0.12	1.72	121	37.09	135.1
1096591	7108104	641695	1301	UTM83-8	WHI11001189	1.9	146	30.5	0.08	1.59	95	16.37	84.5
1096592	7108105	641747	1276	UTM83-8	WHI11001189	0.6	80	17.9	0.12	1.07	41	27.71	71
1096593	7108105	641796	1248	UTM83-8	WHI11001189	0.1	51	13.1	0.1	0.62	77	31.36	79.1
1096594	7108103	641847	1229	UTM83-8	WHI11001190	0.2	39	13.6	0.14	0.63	25	23.87	79
1096595	7108104	641896	1212	UTM83-8	WHI11001190	2.2	231	25.1	0.15	1.78	240	45.58	120.7
1096596	7108102	641944	1178	UTM83-8	WHI11001190	2.3	256	24.4	0.18	1.42	834	77.62	209.4
1096597	7108102	641997	1159	UTM83-8	WHI11001190	0.5	140	10.8	0.21	0.33	92	37.51	88.2
1096598	7108102	642048	1138	UTM83-8	WHI11001190	0.6	112	7.6	0.09	0.29	20	21.02	58.9
1096599	7108101	642093	1120	UTM83-8	WHI11001190	1.4	169	10.9	0.11	0.39	85	29.34	87.3
1096600	7108103	642148	1097	UTM83-8	WHI11001190	0.5	160	10	0.1	0.32	75	28	78
1096601	7107503	632897	1304	UTM83-8	WHI11001193	0.1	15	2.4	0.1	0.34	12	11.3	32.4
1096602	7107454	632901	1299	UTM83-8	WHI11001193	0.3	22	2.8	0.12	0.34	20	15.09	26.6
1096603	7107410	632899		UTM83-8	WHI11001193	0.3	44	5	0.12	0.41	21	12.47	47.2
1096604	7107352	632899	1199	UTM83-8	WHI11001193	0.6	67	7.3	0.11	0.53	31	24.78	76.7
1096605	7107294	632899	1140	UTM83-8	WHI11001193	1.4	149	6.3	0.11	0.44	17	16.65	55.3
1096606	7107254	632900	1143	UTM83-8	WHI11001193	1.1	77	8.4	0.12	0.49	34	18.7	69.3
1096607	7107199	632900	1135	UTM83-8	WHI11001193	1	53	6	0.09	0.31	27	20.9	53
1096608	7108653	634401	1498	UTM83-8	WHI11001193	2	94	12.9	0.22	0.58	28	56	128.9
1096609	7108602	634399	1502	UTM83-8	WHI11001193	0.8	129	9.2	0.22	0.44	16	49.61	65.1
1096610	7108553	634400	1506	UTM83-8	WHI11001193	0.8	78	30.9	0.13	0.61	16	93.64	121.4
1096611	7108502	634400	1479	UTM83-8	WHI11001193	0.1	163	7.5	0.19	0.34	16	44.7	67.9
1096612	7108454	634398	1483	UTM83-8	WHI11001193	0.6	71	7.5	0.21	0.3	15	44.21	60.8
1096613	7108400	634398	1487	UTM83-8	WHI11001193	0.5	295	8.5	0.23	0.25	150	34.09	146.1
1096614	7108353	634400	1492	UTM83-8	WHI11001193	0.1	189	7.6	0.26	0.19	73	45.26	160.9
1096615	7108298	634398	1473	UTM83-8	WHI11001193	0.1	92	5.5	0.11	0.18	34	39.28	124.3
1096616	7108251	634396	1446	UTM83-8	WHI11001193	1	328	9.3	0.35	0.37	146	60.43	132.4
1096617	7108157	634396	1423	UTM83-8	WHI11001193	0.8	259	7.9	0.15	0.35	165	60.02	148.1
1096618	7108100	634339		UTM83-8	WHI11001193	0.3	146	3.7	0.11	0.15	246	17.71	32.3
1096619	7107996	634404	1376	UTM83-8	WHI11001193	0.1	190	5.3	0.1	0.34	148	28.23	63.9
1096620	7107947	634394	1343	UTM83-8	WHI11001193	0.7	140	16.1	0.1	1.67	142	33.6	257.2
1096621	7107899	634398	1333	UTM83-8	WHI11001193	1.2	236	17.2	0.12	2.03	109	37.15	71.3
1096622	7107850	634402	1302	UTM83-8	WHI11001193	1.7	175	8.5	0.09	0.79	123	20.72	51.6
1096623	7107800	634405	1293	UTM83-8	WHI11001193	0.6	114	15.6	0.18	0.98	141	39.65	67.1
1096624	7107746	634403	1258	UTM83-8	WHI11001193	1.6	167	17.3	0.17	1.29	195	41.81	112.7
1096625	7108599	635392	1135	UTM83-8	WHI11001349	2.7	108	8.1	0.11	0.43	28	20.21	70.7
1096626	7108553	635395	1083	UTM83-8	WHI11001349	1.8	56	9.6	0.12	0.44	32	23.42	83.5
1096627	7108507	635399	1094	UTM83-8	WHI11001349	1.3	147	7.8	0.13	0.38	43	30.39	89.5
1096628	7108452	635398	1107	UTM83-8	WHI11001349	2.6	131	7	0.13	0.38	66	22	93.7
1096629	7108401	635391	1076	UTM83-8	WHI11001349	1.7	186	7.9	0.13	0.46	178	34.28	212.6

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1096630	7108350	635400	1107	UTM83-8	WHI11001349	2.1	112	5.1	0.08	0.39	120	21.81	82.5
1096631	7108299	635402	1191	UTM83-8	WHI11001349	2.8	116	13.8	0.1	1.12	186	28.32	81.9
1096632	7108261	635398	1192	UTM83-8	WHI11001349	1.3	47	8.2	0.15	0.53	33	22.9	57.7
1096633	7108201	635398	1167	UTM83-8	WHI11001349	2.8	107	11.6	0.1	0.75	113	25.35	101.4
1096634	7108152	635401	1161	UTM83-8	WHI11001349	1.2	87	13.6	0.09	0.8	94	29.77	86.4
1096635	7108101	635392	1168	UTM83-8	WHI11001349	1.1	112	13.2	0.13	1.22	75	25.78	34
1096636	7108056	635394	1175	UTM83-8	WHI11001349	2.5	177	9.4	0.16	0.47	97	21.66	64.7
1096637	7108001	635395	1161	UTM83-8	WHI11001349	0.1	31	10.5	0.17	0.65	31	23.14	76.1
1096638	7107944	635404	1119	UTM83-8	WHI11001349	0.7	22	9	0.11	0.48	25	19.75	56.6
1096639	7107907	635395	1095	UTM83-8	WHI11001349	2.3	19	9	0.12	0.5	29	20.35	61.1
1096640	7107844	635388	1071	UTM83-8	WHI11001349	2.2	81	9.5	0.11	0.7	117	25.26	84.6
1096641	7107798	635390	1039	UTM83-8	WHI11001349	2.2	96	8.6	0.11	0.58	83	24.05	83.1
1096642	7107636	635399	1005	UTM83-8	WHI11001349	0.3	127	9.6	0.11	0.4	32	33.55	120.4
1096643	7107611	635391	989	UTM83-8	WHI11001349	1	97	9.2	0.09	0.37	34	28.32	112.5
1096644	7107600	635499		UTM83-8	WHI11001349	1.1	138	7.1	0.08	0.33	55	27.56	98.6
1096645	7107649	635492	988	UTM83-8	WHI11001349	0.2	56	8.4	0.09	0.33	34	26.65	89.5
1096646	7107699	635499	998	UTM83-8	WHI11001349	1.2	79	6.9	0.11	0.33	50	22.68	67.9
1096647	7107750	635496	1010	UTM83-8	WHI11001349	0.1	68	7.7	0.16	0.35	33	24.09	80.6
1096648	7107793	635495	1024	UTM83-8	WHI11001349	0.2	47	8.5	0.06	0.56	39	22.33	29.6
1096649	7107849	635494	1043	UTM83-8	WHI11001349	0.1	58	8.2	0.11	0.79	46	25.02	74.7
1096650	7107896	635494	1068	UTM83-8	WHI11001349	0.2	29	8.4	0.15	0.55	24	19.65	78.7
1096651	7109396	643046	1104	UTM83-8	WHI11001302	0.9	117	5.4	0.06	0.32	87	17.67	50.9
1096652	7109447	642145	1551	UTM83-8	WHI11001302	1.3	529	15.2	0.13	0.78	49	58.47	120.5
1096653	7109454	642200	1548	UTM83-8	WHI11001302	1.1	359	9.4	0.17	0.54	104	51.11	85.7
1096654	7109451	642246	1515	UTM83-8	WHI11001302	1.2	283	8.3	0.1	0.41	50	35.84	74
1096655	7109450	642299	1486	UTM83-8	WHI11001302	2.8	936	10.3	0.16	0.48	272	46.81	83.6
1096656	7109449	642349	1469	UTM83-8	WHI11001302	1.6	274	21.9	0.17	0.61	78	57.36	139.7
1096657	7109449	642398	1460	UTM83-8	WHI11001302	1.6	336	12.9	0.14	0.52	146	52.01	106.1
1096658	7109451	642450	1427	UTM83-8	WHI11001302	0.9	165	6.6	0.1	0.42	30	36.65	90.3
1096659	7109452	642496	1391	UTM83-8	WHI11001302	0.6	190	5.5	0.07	0.25	44	28.41	55.2
1096660	7109455	642552	1381	UTM83-8	WHI11001302	0.6	89	8.6	0.09	0.62	25	28.58	190.4
1096661	7108951	642147	1496	UTM83-8	WHI11001302	1.4	63	7	0.14	0.31	27	26.57	63.4
1096662	7108950	642195	1460	UTM83-8	WHI11001302	1.2	204	13.8	0.13	0.61	94	37.15	73.3
1096663	7108950	642298	1390	UTM83-8	WHI11001302	0.8	52	9.5	0.11	0.47	67	28.26	69.4
1096664	7108953	642350	1348	UTM83-8	WHI11001302	0.4	77	6.7	0.1	0.28	54	27.99	89.8
1096665	7108952	642397	1324	UTM83-8	WHI11001302	0.2	28	8.9	0.08	0.35	18	24.1	62.8
1096666	7108947	642447	1298	UTM83-8	WHI11001302	0.1	110	7.6	0.14	0.36	21	22.73	63.7
1096667	7108953	642500	1270	UTM83-8	WHI11001302	0.4	154	8.7	0.12	0.48	34	23.18	57.5
1096668	7108946	642549	1244	UTM83-8	WHI11001302	0.1	374	7	0.12	0.39	59	25.84	61.1
1096669	7108955	642593	1209	UTM83-8	WHI11001302	0.3	42	8.5	0.1	0.4	364	24.68	70.1
1096670	7108946	642698	1158	UTM83-8	WHI11001302	1.5	58	7.7	0.11	0.47	30	19.02	68.9
1096671	7108949	642794	1102	UTM83-8	WHI11001302	2.3	122	8.9	0.11	0.4	104	28.88	69.7
1096672	7108652	641702	1454	UTM83-8	WHI11001302	0.1	65	13.5	0.05	0.66	268	10.35	243.5
1096673	7108650	641651	1416	UTM83-8	WHI11001302	1.4	159	36.3	0.13	1.99	323	30.08	177.2
1096674	7108650	641598	1379	UTM83-8	WHI11001302	5.4	206	30.8	0.13	2.56	442	34.99	131.1
1096675	7108649	641550	1356	UTM83-8	WHI11001302	2.4	149	27.6	0.15	1.66	156	37.87	167.6
1096676	7108649	641500	1332	UTM83-8	WHI11001302	1.3	73	10.2	0.07	0.78	140	14.07	202.5
1096677	7108650	641450	1311	UTM83-8	WHI11001302	0.9	108	16.2	0.14	1.15	95	34.18	119.4
1096678	7108651	641402	1294	UTM83-8	WHI11001302	0.7	78	11	0.09	0.64	53	16.4	48.7
1096679	7108648	641349	1270	UTM83-8	WHI11001302	0.7	52	9.7	0.11	0.66	36	35.74	84.2
1096680	7108650	641301	1251	UTM83-8	WHI11001302	0.6	44	10	0.12	0.47	26	28.58	68.7
1096681	7108648	641249	1226	UTM83-8	WHI11001302	1.7	110	13.2	0.1	0.7	64	28.98	86.2
1096682	7108654	641199	1193	UTM83-8	WHI11001302	6.8	106	14.6	0.1	1.53	302	28.62	28.4
1096683	7108652	641748	1477	UTM83-8	WHI11001302	1.4	75	23.9	0.08	0.88	93	12.89	125
1096684	7108651	641797	1441	UTM83-8	WHI11001302	5.1	196	46.7	0.19	2.37	372	38.74	173.8
1096685	7108653	641849	1412	UTM83-8	WHI11001302	0.9	43	10.8	0.06	0.58	48	11.55	25.2
1096686	7108652	641896	1382	UTM83-8	WHI11001302	0.6	172	8.7	0.27	0.24	473	29.95	109.4
1096687	7108653	641947	1340	UTM83-8	WHI11001302	0.3	176	6.8	0.19	0.25	53	33.47	95.8
1096688	7108649	642001	1307	UTM83-8	WHI11001302	0.8	153	7.6	0.13	0.34	31	45.35	101.8
1096689	7108649	642046	1278	UTM83-8	WHI11001302	0.4	101	8.5	0.13	0.37	15	35.11	73.5
1096690	7108651	642145	1268	UTM83-8	WHI11001302	0.8	180	17.5	0.14	0.42	50	41.03	77.4
1096691	7108647	642201	1270	UTM83-8	WHI11001302	2	98	9.4	0.08	0.46	28	32.16	74

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1096692	7108652	642246	1267	UTM83-8	WHI11001302	3.8	208	8.4	0.1	0.4	48	28.1	58.1
1096693	7108653	642295	1271	UTM83-8	WHI11001302	1.9	267	7.6	0.09	0.42	54	28.88	58.2
1096694	7108650	642345	1253	UTM83-8	WHI11001302	1.4	174	7.5	0.1	0.34	31	29.33	70.8
1096695	7108648	642399	1215	UTM83-8	WHI11001302	1.4	138	7.7	0.11	0.33	24	28.02	71.7
1096696	7108647	642451	1185	UTM83-8	WHI11001302	1.4	100	6.6	0.1	0.26	39	22.71	57.9
1096697	7108646	642547	1127	UTM83-8	WHI11001302	1.6	96	16.2	0.13	0.53	58	35.18	74.7
1096698	7108402	641650	1368	UTM83-8	WHI11001140	45.3	306	32.9	1.87	3.1	2598	188.42	2040
1096699	7108403	641601	1343	UTM83-8	WHI11001140	1.9	177	19.4	0.21	1.56	69	27.62	79.6
1096700	7108398	641550	1307	UTM83-8	WHI11001140	3.3	164	16.6	0.14	1.09	186	32.83	86.8
1096715	7108303	632794	1572	UTM83-8	WHI11001192	1.5	59	9.3	0.11	0.4	22	37.34	89.6
1096716	7108250	632797	1556	UTM83-8	WHI11001192	1	92	11.8	0.12	0.33	30	55.22	102.8
1096717	7108205	632802	1530	UTM83-8	WHI11001192	1.4	249	9.2	0.12	0.32	79	43.82	94.4
1096718	7108153	632799	1490	UTM83-8	WHI11001192	1.5	169	15.7	0.14	0.46	43	50.76	121.7
1096719	7108103	632798	1452	UTM83-8	WHI11001192	2.9	285	18	0.15	0.45	62	44.29	112.9
1096720	7108049	632800	1443	UTM83-8	WHI11001192	1.3	142	12.4	0.1	0.43	41	24.73	81.2
1096721	7108000	632801	1415	UTM83-8	WHI11001192	1.1	295	10.6	0.13	0.52	69	42.06	68.9
1096722	7107952	632799	1415	UTM83-8	WHI11001192	3.1	218	15.4	0.1	0.8	223	39.82	89.8
1096723	7107902	632796	1404	UTM83-8	WHI11001192	1.9	268	11.1	0.11	0.58	443	34.19	140.7
1096724	7107851	632802	1418	UTM83-8	WHI11001192	0.8	246	24	0.07	1.43	386	51.65	188
1096725	7107799	632802	1431	UTM83-8	WHI11001192	1.9	223	60.9	0.17	4.07	404	47.95	718.5
1096726	7107750	632797	1462	UTM83-8	WHI11001192	0.1	33	39.3	0.65	1.89	259	13.37	7.5
1096727	7107702	632796	1483	UTM83-8	WHI11001192	2.5	238	68.6	0.21	3.6	499	38.54	79.6
1096728	7107603	632802	1388	UTM83-8	WHI11001192	0.8	139	36.6	0.09	1.95	269	21.23	85.9
1096729	7107499	632798	1326	UTM83-8	WHI11001192	2.8	34	24.7	0.13	1.21	60	18.1	51.8
1096730	7107455	632801	1304	UTM83-8	WHI11001192	0.3	23	7.8	0.16	0.48	30	18.46	38.4
1096731	7107396	632799	1296	UTM83-8	WHI11001192	0.4	115	6.3	0.15	0.47	32	21.23	62.8
1096732	7107356	632800	1273	UTM83-8	WHI11001192	0.1	117	6.7	0.12	0.25	24	51.94	79.2
1096733	7107305	632800	1287	UTM83-8	WHI11001192	0.1	69	3.1	0.16	0.24	15	20.46	111.4
1096734	7107256	632801	1253	UTM83-8	WHI11001192	0.1	153	4.9	0.14	0.26	21	20.56	64
1096735	7107205	632799	1222	UTM83-8	WHI11001192	0.1	75	7.6	0.13	0.42	15	24.81	67.6
1096736	7108302	632906	1338	UTM83-8	WHI11001192	0.5	641	181.5	0.27	1.53	188	121.91	137.1
1096737	7108256	632904	1647	UTM83-8	WHI11001192	0.3	231	11.1	0.13	0.47	40	29.96	130.4
1096738	7108206	632902	1604	UTM83-8	WHI11001192	0.8	203	26.4	0.14	0.73	36	72.19	121.3
1096739	7108151	632897	1570	UTM83-8	WHI11001192	0.3	103	13.8	0.13	0.58	27	39.6	105.6
1096740	7108104	632902	1549	UTM83-8	WHI11001192	1.1	505	8.3	0.15	0.35	187	23.12	112.6
1096741	7108046	632902	1552	UTM83-8	WHI11001192	1.2	1202	107.1	0.16	0.97	133	54.13	125.6
1096742	7107998	632906	1526	UTM83-8	WHI11001192	0.1	156	7.9	0.15	0.4	69	32.35	125.1
1096743	7107902	632897	1486	UTM83-8	WHI11001193	0.1	197	8.6	0.14	0.33	797	63.77	57
1096744	7107854	632901	1501	UTM83-8	WHI11001193	2.4	152	38.6	0.12	2.38	263	38.54	205.4
1096745	7107799	632901	1490	UTM83-8	WHI11001193	3	238	26.4	0.12	2.22	495	38.08	93.5
1096746	7107753	632896	1461	UTM83-8	WHI11001193	0.5	81	20.8	0.21	0.98	221	18.43	14.9
1096747	7107707	632901	1425	UTM83-8	WHI11001193	0.8	140	20.6	0.13	1.28	98	19.99	55.2
1096748	7107653	632896	1379	UTM83-8	WHI11001193	2.7	96	20.6	0.18	1.54	127	33.69	91.1
1096749	7107606	632898	1349	UTM83-8	WHI11001193	1.4	116	13.4	0.09	0.79	166	16.96	64.2
1096750	7107552	632894	1290	UTM83-8	WHI11001193	1.4	68	31.5	0.17	1.09	111	20.43	33.3
1096751	7108501	641650	1390	UTM83-8	WHI11001140	4	117	29.8	0.27	1.97	166	22.64	32.3
1096752	7108500	641602	1358	UTM83-8	WHI11001140	5.5	144	27.3	0.2	2.23	183	32.42	47
1096753	7108501	641548	1320	UTM83-8	WHI11001140	0.7	38	26.4	0.27	2.31	60	8.2	39.2
1096754	7108499	641500	1295	UTM83-8	WHI11001140	1	82	11	0.05	0.72	44	16.62	48.4
1096755	7108500	641450	1266	UTM83-8	WHI11001140	1.4	59	14.3	0.13	0.76	49	25.45	76.4
1096756	7108499	641398	1237	UTM83-8	WHI11001140	1.8	153	15.4	0.11	0.98	122	24.51	96
1096757	7108501	641348	1220	UTM83-8	WHI11001140	0.7	91	17.2	0.12	0.92	101	28.36	100.1
1096758	7108501	641297	1194	UTM83-8	WHI11001140	3	142	15	0.12	0.75	151	28.36	97.7
1096759	7108499	641250	1170	UTM83-8	WHI11001140	1.8	174	15	0.11	0.65	144	28.59	117.5
1096760	7108500	641200	1133	UTM83-8	WHI11001140	2.1	90	12.8	0.06	1.28	427	22.35	114.8
1096761	7108502	641796	1421	UTM83-8	WHI11001140	1.9	246	25.5	0.11	1.74	365	34.96	117.9
1096762	7108500	641851	1388	UTM83-8	WHI11001140	6.9	276	51.6	0.17	3.85	301	44.02	234.1
1096763	7108502	641896	1370	UTM83-8	WHI11001140	0.1	86	12.5	0.1	0.33	113	38.74	104.1
1096764	7108500	641946	1335	UTM83-8	WHI11001140	0.9	140	21.7	0.23	1.37	344	43.46	54.5
1096765	7108500	641997	1292	UTM83-8	WHI11001140	0.9	169	15	0.14	0.69	285	60.17	109.1
1096766	7108500	642047	1257	UTM83-8	WHI11001140	0.3	95	7.8	0.14	0.33	29	41.35	78.2
1096767	7108501	642096	1229	UTM83-8	WHI11001140	0.9	209	8.4	0.17	0.27	35	34	97

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1096768	7108503	642148	1185	UTM83-8	WHI11001140	0.1	196	12.5	0.14	0.47	48	33.87	101.2
1096769	7108501	642197	1167	UTM83-8	WHI11001140	1.8	271	9.5	0.09	0.46	76	31.39	95.4
1096770	7108497	642242	1174	UTM83-8	WHI11001140	1.9	119	8.5	0.08	0.34	34	23.83	64.1
1096771	7108496	642398	1143	UTM83-8	WHI11001140	0.7	196	8.5	0.1	0.4	65	40.16	79.4
1096772	7108498	642443	1123	UTM83-8	WHI11001140	0.3	40	8.5	0.06	0.41	99	21.22	59.3
1096773	7108498	642495	1092	UTM83-8	WHI11001140	0.5	137	5.3	0.08	0.31	100	27.31	53.5
1096774	7108252	641598	1341	UTM83-8	WHI11001140	1.3	112	10	0.07	0.88	102	22.17	61.9
1096775	7108250	641550	1307	UTM83-8	WHI11001140	5.6	139	12.6	0.09	1.65	70	26.32	43.8
1096776	7108251	641502	1277	UTM83-8	WHI11001140	1.1	100	14.2	0.09	1.18	109	27.93	50.7
1096777	7108249	641451	1243	UTM83-8	WHI11001140	1.1	90	23.7	0.1	0.96	52	22.51	37.1
1096778	7108249	641399	1210	UTM83-8	WHI11001140	0.2	110	12.8	0.06	0.76	123	22.08	45.9
1096779	7108251	641355	1172	UTM83-8	WHI11001140	0.8	81	15.6	0.09	0.95	88	27.97	68.6
1096780	7108251	641298	1142	UTM83-8	WHI11001140	1.5	161	15.8	0.11	0.93	242	38.03	108.3
1096781	7108250	641249	1158	UTM83-8	WHI11001140	0.6	157	10.2	0.1	0.62	173	27.22	109.4
1096782	7108249	641199	1146	UTM83-8	WHI11001140	1	143	11.4	0.08	0.68	156	28.53	95.6
1096783	7108250	641649	1378	UTM83-8	WHI11001189	5.3	226	12.1	0.07	1.12	242	25.03	35.6
1096784	7108249	641699	1373	UTM83-8	WHI11001189	0.3	41	8	0.03	0.44	25	5.53	3.9
1096785	7108250	641746	1356	UTM83-8	WHI11001189	6.2	244	22.7	0.12	2.15	231	26.26	50.2
1096786	7108251	641799	1321	UTM83-8	WHI11001189	7.1	197	25.9	0.14	2.09	185	28.19	68.7
1096787	7108249	641848	1300	UTM83-8	WHI11001189	5.1	158	39.8	0.13	1.92	194	31.1	90.8
1096788	7108250	641897	1290	UTM83-8	WHI11001189	2.5	128	34.6	0.12	1.87	135	43.85	212.7
1096789	7108251	641946	1267	UTM83-8	WHI11001189	0.3	117	6.4	0.1	0.27	44	23.84	63.7
1096790	7108250	641997	1238	UTM83-8	WHI11001189	0.1	73	8.4	0.13	0.35	47	32.93	85.2
1096791	7108251	642048	1204	UTM83-8	WHI11001189	0.8	134	11.4	0.11	0.55	174	32.83	74
1096792	7108252	642152	1148	UTM83-8	WHI11001189	1.1	55	8	0.1	0.39	68	23.66	63.1
1096793	7108250	642198	1144	UTM83-8	WHI11001189	0.1	49	8.6	0.1	0.36	26	27.03	69.6
1096794	7108252	642248	1126	UTM83-8	WHI11001189	2.2	176	10.1	0.11	0.38	128	45.15	61.4
1096795	7108250	642347	1078	UTM83-8	WHI11001189	1.9	170	7.2	0.06	0.31	90	19.54	49
1096796	7108002	641600	1308	UTM83-8	WHI11001189	2.6	192	31.2	0.09	3.03	361	33.01	29.5
1096797	7107999	641647	1299	UTM83-8	WHI11001189	14	240	25.4	0.23	2.95	12773	93.95	2609.6
1096798	7108001	641701	1270	UTM83-8	WHI11001189	7.2	227	34.7	0.17	3.4	244	46.08	43.4
1096799	7108002	641747	1252	UTM83-8	WHI11001189	1.4	208	11.7	0.12	0.81	356	25.48	80
1096800	7108001	641798	1226	UTM83-8	WHI11001189	0.2	145	6.2	0.06	0.31	94	11.68	16.7
1096801	7109648	642544	1488	UTM83-8	WHI11001140	1	130	14.6	0.11	0.79	57	54.43	125
1096802	7108648	631900	1046	UTM83-8	WHI11001190	0.6	59	8.8	0.07	0.22	145	22.05	67.3
1096803	7108599	631894	1055	UTM83-8	WHI11001190	1.2	150	13.1	0.14	0.36	123	33.31	179.7
1096804	7108554	631899	1077	UTM83-8	WHI11001190	0.9	118	16.1	0.14	0.32	86	112.6	594
1096805	7108499	631898	1082	UTM83-8	WHI11001190	0.9	63	15	0.14	0.48	134	30.57	93.8
1096806	7108455	631897	1079	UTM83-8	WHI11001190	2.2	117	5.8	0.12	0.28	163	16.31	71.2
1096807	7108398	631895	1089	UTM83-8	WHI11001190	0.3	30	5.8	0.09	0.23	28	17.78	77.7
1096808	7108354	631895	1074	UTM83-8	WHI11001190	2.2	121	4.6	0.14	0.29	175	18.36	58.1
1096809	7108304	631908	1091	UTM83-8	WHI11001190	2.3	62	1.9	0.11	0.28	167	14.84	69.4
1096810	7108254	631899	1095	UTM83-8	WHI11001190	1.6	70	5.1	0.1	0.4	300	18.15	88.7
1096811	7108204	631900	1092	UTM83-8	WHI11001190	4.6	104	5.2	0.12	0.48	228	15.11	93
1096812	7108105	631903	1094	UTM83-8	WHI11001190	0.7	19	8.6	0.14	0.28	58	18.97	79.6
1096813	7108052	631900	1064	UTM83-8	WHI11001190	0.5	42	6.4	0.13	0.32	49	12.57	49.8
1096814	7108006	631898	1061	UTM83-8	WHI11001190	1.9	175	10.2	0.12	0.48	194	20.85	57.3
1096815	7107952	631904	1041	UTM83-8	WHI11001190	2.9	215	8.4	0.1	0.48	286	17.53	76.5
1096816	7107852	631895	1033	UTM83-8	WHI11001190	1.2	135	6.2	0.1	0.33	208	18.19	92
1096817	7107804	631898	1048	UTM83-8	WHI11001190	1.4	119	4.6	0.12	0.24	274	19.2	82.2
1096818	7107753	631895	1055	UTM83-8	WHI11001190	0.8	134	5.9	0.15	0.27	1082	68.11	209.6
1096819	7107702	631896	1059	UTM83-8	WHI11001190	5.3	161	101.1	1.46	3.32	973	93.5	153.5
1096820	7107651	631894	1070	UTM83-8	WHI11001190	2.7	105	14.1	0.14	0.77	190	22.95	84
1096821	7107604	631904	1076	UTM83-8	WHI11001190	3.1	82	18.7	0.27	1.02	194	24.81	387.4
1096822	7107552	631905	1069	UTM83-8	WHI11001190	1.7	129	22	0.14	1.18	275	49.12	794.6
1096823	7107506	631900	1050	UTM83-8	WHI11001190	1.3	100	32.1	0.62	1.45	284	23.32	56.4
1096824	7107448	631899	1039	UTM83-8	WHI11001190	0.8	79	17	0.13	0.75	302	28.97	83.4
1096825	7107405	631898	1025	UTM83-8	WHI11001190	1.4	100	15.3	0.13	0.75	289	23.76	78.6
1096826	7107353	631896	1014	UTM83-8	WHI11001190	3.5	99	11.4	0.13	0.52	116	24.66	72.8
1096827	7107295	631896	1021	UTM83-8	WHI11001190	0.1	104	7.3	0.11	0.29	37	20.39	50.3
1096828	7107256	631900	1023	UTM83-8	WHI11001190	0.3	123	7.3	0.1	0.24	42	21.49	77.6
1096829	7107204	631902	1023	UTM83-8	WHI11001190	0.9	71	8.3	0.12	0.29	35	32.42	59.3

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1096830	7108656	632301	1265	UTM83-8	WHI11001190	0.2	31	15.1	0.16	0.22	76	46.26	139
1096831	7108603	632301	1246	UTM83-8	WHI11001190	1	176	15.9	0.12	0.44	92	47.54	195.4
1096832	7108552	632295	1218	UTM83-8	WHI11001190	1	122	19.3	0.34	0.3	132	40.21	135
1096833	7108507	632296	1237	UTM83-8	WHI11001190	2.6	113	5.4	0.15	0.31	109	29.77	101
1096834	7108456	632299	1276	UTM83-8	WHI11001190	2.8	107	5.5	0.14	0.29	99	27.61	98.8
1096835	7108396	632304	1314	UTM83-8	WHI11001190	1.7	69	4.4	0.15	0.25	65	30.69	106.7
1096836	7108353	632305	1325	UTM83-8	WHI11001190	2.5	134	9.2	0.09	0.59	467	20.64	120.4
1096837	7108303	632301	1347	UTM83-8	WHI11001190	4.6	99	6.4	0.1	0.63	443	19.4	117.2
1096838	7108251	632299	1359	UTM83-8	WHI11001190	5.6	185	13.7	0.16	0.76	358	27.4	156.7
1096839	7108197	632298	1334	UTM83-8	WHI11001190	4.3	1132	10.8	0.15	0.53	339	20.38	88.6
1096840	7108105	632300	1282	UTM83-8	WHI11001190	0.8	150	9.8	0.11	0.43	57	23.97	69.7
1096841	7108058	632297	1252	UTM83-8	WHI11001190	1.5	156	14.3	0.13	0.4	63	60.61	111.6
1096842	7108006	632300	1209	UTM83-8	WHI11001190	0.7	166	15.3	0.11	0.38	27	51.97	96.8
1096843	7107903	632296	1145	UTM83-8	WHI11001190	1.3	188	9.2	0.1	0.48	257	27.4	78.3
1096844	7107857	632295	1154	UTM83-8	WHI11001190	0.1	309	5.6	0.14	0.22	52	43.37	79.8
1096845	7107705	632298	1173	UTM83-8	WHI11001190	3.1	141	19.2	0.12	1.4	417	48.97	117.8
1096846	7107607	632299	1301	UTM83-8	WHI11001190	0.1	85	12.9	0.12	0.65	108	22.62	67.3
1096847	7107548	632307	1281	UTM83-8	WHI11001190	1	36	8.6	0.1	0.53	26	20.49	47.3
1096848	7107506	632296	1269	UTM83-8	WHI11001190	0.9	19	2.9	0.15	0.28	19	21.93	46.4
1096849	7107454	632295	1253	UTM83-8	WHI11001190	2.3	184	11.3	0.11	0.5	250	28.01	74.9
1096850	7107403	632300	1247	UTM83-8	WHI11001190	0.7	60	8.7	0.14	0.52	51	21.92	56.8
1096851	7110051	642998	1194	UTM83-8	WHI11001140	2.3	274	20.5	0.16	0.63	71	89.86	111.8
1096852	7110059	643100	1134	UTM83-8	WHI11001140	0.8	286	5.5	0.09	0.37	71	31.35	62.4
1096853	7110044	643146		UTM83-8	WHI11001140	1	248	6.1	0.09	0.3	68	33.24	64.7
1096854	7110046	643192	1088	UTM83-8	WHI11001140	0.7	215	4.6	0.07	0.36	81	22.26	49.2
1096855	7110001	642148	1456	UTM83-8	WHI11001140	0.6	31	10.9	0.13	0.49	38	36.15	85.7
1096856	7110001	642200	1439	UTM83-8	WHI11001140	0.7	124	13.2	0.12	0.43	277	34.38	90.8
1096857	7110002	642248	1451	UTM83-8	WHI11001140	0.7	83	9.1	0.22	0.43	55	39.84	128
1096858	7110002	642299	1474	UTM83-8	WHI11001140	1.1	66	9.8	0.13	0.62	61	38.73	93.5
1096859	7109999	642348	1486	UTM83-8	WHI11001140	1	59	10.8	0.2	0.74	37	20.55	69.2
1096860	7109999	642399	1483	UTM83-8	WHI11001140	1.6	158	7.1	0.11	0.47	42	30.7	72.5
1096861	7110001	642449	1468	UTM83-8	WHI11001140	2.1	151	8.5	0.15	0.45	27	69.83	103
1096862	7110002	642498	1428	UTM83-8	WHI11001140	0.5	199	5.8	0.13	0.34	20	50.38	102.4
1096863	7110001	642550	1392	UTM83-8	WHI11001140	0.9	255	6.2	0.09	0.42	34	28.15	64.2
1096864	7109999	642598	1356	UTM83-8	WHI11001140	0.5	293	8.4	0.13	0.26	59	36.94	102.6
1096865	7109999	642650	1295	UTM83-8	WHI11001140	1.3	265	6.8	0.14	0.32	61	58.54	106.6
1096866	7110000	642698	1267	UTM83-8	WHI11001140	0.7	238	4.8	0.17	0.31	64	82.9	124.7
1096867	7110002	642748	1266	UTM83-8	WHI11001140	0.4	378	13.6	0.12	0.43	138	36.9	94.5
1096868	7110001	642798	1252	UTM83-8	WHI11001140	2.6	561	11.9	0.18	0.79	90	118.76	107.8
1096869	7110001	642849	1250	UTM83-8	WHI11001140	2.4	337	10.9	0.12	0.49	59	70.81	103.3
1096870	7109999	642899	1245	UTM83-8	WHI11001140	1.5	205	11.4	0.11	0.56	40	67.59	100.1
1096871	7110003	642947	1241	UTM83-8	WHI11001140	2.1	443	25.9	0.16	1.21	105	114.66	115.1
1096872	7110001	642998	1227	UTM83-8	WHI11001140	1.8	463	11.6	0.09	0.74	71	71.88	90.7
1096873	7109998	643096	1174	UTM83-8	WHI11001140	2.6	264	8.9	0.1	0.4	118	45.45	63.4
1096874	7109551	642201	1622	UTM83-8	WHI11001140	0.9	226	7.4	0.11	0.4	44	44.12	83
1096875	7109549	642299	1564	UTM83-8	WHI11001140	2.2	146	7.7	0.13	0.34	37	58.71	88.2
1096876	7109552	642348	1540	UTM83-8	WHI11001140	0.9	354	9.2	0.12	0.33	44	30.87	87.3
1096877	7109551	642398	1509	UTM83-8	WHI11001140	1.6	319	10.3	0.12	0.55	76	53.55	95.4
1096878	7109551	642448	1470	UTM83-8	WHI11001140	3.5	215	7	0.1	0.63	66	54.1	74.9
1096879	7109550	642499	1451	UTM83-8	WHI11001140	2.6	118	9.6	0.12	0.89	82	50.11	98.7
1096880	7109551	642549	1456	UTM83-8	WHI11001140	0.8	91	13	0.12	1.56	97	35.6	98.2
1096881	7109552	642596	1442	UTM83-8	WHI11001140	1	208	5.4	0.09	0.6	51	37.69	94.2
1096882	7109549	642647	1402	UTM83-8	WHI11001140	1.4	146	7.6	0.09	0.52	69	37.58	83.5
1096883	7109549	642697	1365	UTM83-8	WHI11001140	1.4	154	7.5	0.11	0.43	95	31.28	76
1096884	7109551	642747	1332	UTM83-8	WHI11001140	0.7	162	4.6	0.06	0.37	46	22.09	82.2
1096885	7109551	642796	1297	UTM83-8	WHI11001140	1.9	154	8.5	0.1	0.52	59	38.9	82.9
1096886	7109548	642897	1244	UTM83-8	WHI11001140	1.7	229	5.1	0.1	0.44	234	21.91	60
1096887	7109544	642946	1218	UTM83-8	WHI11001140	1.2	124	7.4	0.1	0.43	58	32.02	88.1
1096888	7109546	643052	1172	UTM83-8	WHI11001140	0.9	48	8.2	0.11	0.42	49	25.22	73.5
1096889	7109552	643143	1130	UTM83-8	WHI11001140	1.8	158	5.4	0.08	0.39	90	19.7	62.8
1096890	7109551	643193	1093	UTM83-8	WHI11001140	1.3	161	7.5	0.08	0.42	111	26.8	93.3
1096891	7109501	642197	1583	UTM83-8	WHI11001140	1.6	443	9.9	0.14	0.48	63	42.96	86.3

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1096892	7109503	642247	1554	UTM83-8	WHI11001140	1.1	490	11.1	0.11	0.59	88	43.07	89.5
1096893	7109499	642346	1489	UTM83-8	WHI11001140	1.4	255	7.7	0.1	0.45	110	35.02	75.6
1096894	7109502	642393	1470	UTM83-8	WHI11001140	1	202	14	0.14	0.53	43	53.12	98.1
1096895	7109499	642447	1434	UTM83-8	WHI11001140	1.1	225	8	0.13	0.55	34	45.88	101.1
1096896	7109500	642498	1406	UTM83-8	WHI11001140	0.6	245	9.1	0.15	1.08	126	40.85	92.7
1096897	7109500	642548	1414	UTM83-8	WHI11001140	0.5	149	8.6	0.11	0.53	53	29.09	105.9
1096898	7109503	642598	1416	UTM83-8	WHI11001140	0.7	117	8.6	0.09	0.49	102	29.89	73.9
1096899	7109500	642647	1392	UTM83-8	WHI11001140	0.4	107	5.8	0.08	0.47	93	31.94	85.4
1096900	7109499	642695	1358	UTM83-8	WHI11001140	0.8	102	7.3	0.07	0.59	32	21.12	72.4
1096901	7109006	642641	1196	UTM83-8	WHI11001302	1.2	85	10.5	0.11	0.48	95	32.04	96.2
1096902	7108993	642795	1091	UTM83-8	WHI11001302	6.3	291	17.4	0.1	1	124	34.35	91.9
1096903	7108746	642193	1350	UTM83-8	WHI11001302	1.1	300	9.4	0.1	0.49	47	33.32	122.4
1096904	7108743	642244	1344	UTM83-8	WHI11001302	0.5	180	7.6	0.11	0.47	46	33.64	73.4
1096905	7108753	642294	1318	UTM83-8	WHI11001302	1	72	8.2	0.1	0.48	17	36.72	76.7
1096906	7108759	642345	1294	UTM83-8	WHI11001302	2	262	9	0.12	0.38	27	29.37	115.1
1096907	7108757	642399	1258	UTM83-8	WHI11001302	0.8	140	7.7	0.1	0.36	33	25.97	75.2
1096908	7108758	642449	1222	UTM83-8	WHI11001302	0.6	323	6.5	0.1	0.31	33	31.23	85.3
1096909	7108743	642492	1191	UTM83-8	WHI11001302	0.4	98	14.4	0.1	0.41	12	34.29	81.8
1096910	7108752	642589	1135	UTM83-8	WHI11001302	1	134	17.9	0.12	0.52	57	47.22	93
1096911	7108756	642689	1091	UTM83-8	WHI11001302	1.5	82	12	0.1	0.45	77	26.5	70.8
1096912	7108449	641747	1436	UTM83-8	WHI11001302	3.8	118	20.2	0.06	1.03	121	27.71	26.2
1096913	7108448	641705	1411	UTM83-8	WHI11001302	2.1	78	11.5	0.43	1.11	145	19.54	116.4
1096914	7108451	641655	1378	UTM83-8	WHI11001302	12.1	209	27.8	0.46	2.93	262	49.29	150
1096915	7108452	641609	1341	UTM83-8	WHI11001302	4.2	141	24.8	0.21	2.47	236	34.23	71
1096916	7108458	641552	1310	UTM83-8	WHI11001302	2.9	153	20.3	0.14	2.46	271	26.1	42
1096917	7108452	641498	1270	UTM83-8	WHI11001302	3.5	217	20.7	0.15	2.31	259	33.33	61.8
1096918	7108444	641448	1234	UTM83-8	WHI11001302	3.5	159	24.5	0.22	2.09	497	50.4	159
1096919	7108444	641400	1230	UTM83-8	WHI11001302	2.2	140	12.9	0.08	1	163	28.07	41.7
1096920	7108450	641352	1216	UTM83-8	WHI11001302	1.7	147	15.1	0.13	0.97	132	33.8	86.7
1096921	7108458	641304	1186	UTM83-8	WHI11001302	1.8	196	15.8	0.11	0.85	170	30.03	80.9
1096922	7108454	641202	1110	UTM83-8	WHI11001302	6.1	52	8	0.08	0.68	42	28.75	101.1
1096923	7108452	641799	1395	UTM83-8	WHI11001302	5.4	191	17.1	0.08	1.69	222	28.5	59.3
1096924	7108452	641897	1345	UTM83-8	WHI11001302	0.1	66	31.5	0.1	1.25	124	51.38	41
1096925	7108455	641945	1331	UTM83-8	WHI11001302	0.1	56	8	0.08	0.38	52	36.66	44.1
1096926	7108449	641998	1306	UTM83-8	WHI11001302	0.7	103	9.2	0.12	0.29	159	40.29	46.3
1096927	7108452	642050	1272	UTM83-8	WHI11001302	0.5	199	7.8	0.13	0.28	62	38.98	100.6
1096928	7108449	642094	1252	UTM83-8	WHI11001302	0.3	244	10.4	0.08	0.45	28	44.39	92.2
1096929	7108450	642194	1188	UTM83-8	WHI11001302	1.4	320	22.1	0.14	0.71	142	52.56	108.6
1096930	7108442	642340	1121	UTM83-8	WHI11001302	1.9	109	5.8	0.13	0.43	41	26.76	56.6
1096931	7108450	642399		UTM83-8	WHI11001302	2.2	186	25.9	0.18	0.65	45	73.14	96.5
1096933	7108450	642449		UTM83-8	WHI11001302	1.2	101	9.6	0.12	0.46	105	27.64	59.1
1096934	7108443	642497	1062	UTM83-8	WHI11001302	0.6	54	11.1	0.12	0.43	65	28.4	91.2
1096935	7108207	641596	1342	UTM83-8	WHI11001302	1.5	77	9.2	0.07	0.92	62	20	47.5
1096936	7108198	641553	1297	UTM83-8	WHI11001302	2.1	76	16.5	0.1	1.25	55	18.12	32
1096937	7108195	641500	1272	UTM83-8	WHI11001302	1.5	91	12.3	0.09	0.86	65	17.34	33.9
1096938	7108202	641452	1249	UTM83-8	WHI11001302	1.3	91	17.9	0.15	1.01	81	33.09	84
1096939	7108196	641404	1210	UTM83-8	WHI11001302	1.3	83	17.1	0.13	1.09	89	33.95	87.7
1096940	7108195	641350	1168	UTM83-8	WHI11001302	1.5	97	17.4	0.14	1.17	87	31.5	88
1096941	7108204	641301	1161	UTM83-8	WHI11001302	1	61	14.8	0.13	0.72	101	36.43	117.9
1096942	7108202	641249	1127	UTM83-8	WHI11001302	1.4	116	13.4	0.11	0.74	158	31.68	107.8
1096943	7108202	641204	1082	UTM83-8	WHI11001302	2.1	114	11.6	0.1	0.62	143	25.48	87
1096944	7108202	641645	1361	UTM83-8	WHI11001189	0.1	31	5.9	0.01	0.32	30	5.53	3.5
1096945	7108201	641699	1345	UTM83-8	WHI11001189	39.1	255	27.4	0.14	3.93	395	30.19	59.9
1096946	7108200	641748	1326	UTM83-8	WHI11001189	5.6	161	26.4	0.12	1.66	147	21.14	37.9
1096947	7108199	641800	1302	UTM83-8	WHI11001189	3.4	133	22.1	0.11	1.16	115	18.8	38.8
1096948	7108200	641846	1277	UTM83-8	WHI11001189	2.9	156	26.2	0.15	1.38	125	48.84	108.2
1096949	7108200	641896	1243	UTM83-8	WHI11001189	3.1	148	29.8	0.18	1.82	183	37.66	82.8
1096950	7108200	641950	1230	UTM83-8	WHI11001189	4.3	73	15.3	0.14	1.44	39	35.21	72.7
1096951	7109503	642744	1330	UTM83-8	WHI11001139	0.2	78	10.2	0.09	0.33	23	27.14	66.7
1096952	7109504	642793	1298	UTM83-8	WHI11001139	1.1	184	12.5	0.09	0.83	169	23.63	62.9
1096953	7109501	642848	1258	UTM83-8	WHI11001139	0.1	129	12.2	0.1	0.86	534	20.36	53.8
1096954	7109505	642895	1230	UTM83-8	WHI11001139	0.4	55	8.8	0.07	0.55	27	21.69	61.8

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1096955	7109500	642940	1205	UTM83-8	WHI11001139	4	24	11.7	0.09	0.7	46	28.05	82.3
1096956	7109495	643049	1143	UTM83-8	WHI11001139	3	138	7.6	0.1	0.37	90	24.07	68.5
1096957	7109500	643096	1125	UTM83-8	WHI11001139	3	64	8.8	0.1	0.4	73	26.67	73.5
1096958	7109499	643144	1104	UTM83-8	WHI11001139	3.3	153	8.5	0.11	0.43	115	21.76	93.8
1096959	7109498	643195	1075	UTM83-8	WHI11001139	2.6	120	10.3	0.1	0.46	96	22.58	82.4
1096960	7109152	642248	1393	UTM83-8	WHI11001302	0.8	155	8.1	0.11	0.62	47	26.88	82.6
1096961	7109152	642300	1360	UTM83-8	WHI11001302	1	54	9.4	0.11	0.5	49	29.46	88.3
1096962	7109153	642346	1326	UTM83-8	WHI11001302	1.2	132	11	0.12	0.61	63	32.86	86.8
1096963	7109152	642394	1293	UTM83-8	WHI11001302	0.1	393	35.8	0.2	0.96	290	82.47	163.6
1096964	7109151	642448	1253	UTM83-8	WHI11001302	1.3	209	14.7	0.11	0.62	119	37.33	113.3
1096965	7109151	642498	1216	UTM83-8	WHI11001302	5	222	18.3	0.12	1.79	325	35.38	85.3
1096966	7109153	642538	1218	UTM83-8	WHI11001302	1	195	13.4	0.09	0.37	36	46.94	83.8
1096967	7109153	642638	1180	UTM83-8	WHI11001302	7.7	271	12.8	0.15	0.94	171	24.33	103.6
1096968	7109143	642744	1155	UTM83-8	WHI11001302	4.3	62	18.8	0.13	0.89	62	22.39	112
1096969	7109150	642749		UTM83-8	WHI11001302	2.9	192	16.3	0.13	0.79	230	24.36	77.9
1096970	7109154	642799	1159	UTM83-8	WHI11001302	0.1	84	9.6	0.11	0.51	90	26.7	68.9
1096971	7109146	642845	1138	UTM83-8	WHI11001302	0.1	109	10.2	0.09	0.6	97	23.25	73.8
1096972	7109151	642897	1123	UTM83-8	WHI11001302	0.1	112	8.5	0.08	0.58	154	15.34	74.3
1096973	7109153	642945	1095	UTM83-8	WHI11001302	1.2	140	10.5	0.1	0.74	180	18.93	83.6
1096974	7109103	642147	1476	UTM83-8	WHI11001302	0.1	357	12.4	0.13	0.58	62	30.28	84.4
1096975	7109101	642199	1434	UTM83-8	WHI11001302	0.1	207	9	0.07	0.46	78	39.31	64.8
1096976	7109099	642244	1395	UTM83-8	WHI11001302	0.1	69	12.4	0.12	0.61	37	40.59	116
1096977	7109101	642298	1363	UTM83-8	WHI11001302	0.2	208	17.5	0.13	0.38	352	65.98	132.8
1096978	7109101	642347	1318	UTM83-8	WHI11001302	0.1	112	12	0.09	0.87	160	26.55	66.2
1096979	7109102	642400	1289	UTM83-8	WHI11001302	0.4	367	31.1	0.11	0.71	95	65.7	145.1
1096980	7109110	642453	1292	UTM83-8	WHI11001302	0.1	67	11	0.05	0.31	106	20.73	102.1
1096981	7109102	642496	1234	UTM83-8	WHI11001302	0.1	97	10.9	0.09	0.42	71	25.29	73.2
1096982	7109103	642545	1212	UTM83-8	WHI11001302	0.1	197	16	0.09	0.46	105	39.47	88.9
1096983	7109098	642591	1187	UTM83-8	WHI11001302	0.1	193	11.7	0.09	0.55	97	32	114
1096984	7109094	642751	1134	UTM83-8	WHI11001302	3.2	184	16.1	0.11	1.19	195	20.69	95.8
1096985	7109101	642793	1102	UTM83-8	WHI11001302	1.6	105	8.9	0.15	0.49	42	47.19	114.4
1096986	7109092	642896	1076	UTM83-8	WHI11001302	1	77	10.2	0.07	0.5	78	27.15	106.6
1096987	7108800	642147	1367	UTM83-8	WHI11001302	0.2	235	8.3	0.1	0.34	51	48.42	103.2
1096988	7108800	642195	1379	UTM83-8	WHI11001302	0.3	172	8	0.1	0.36	53	36.59	84.6
1096989	7108801	642250	1370	UTM83-8	WHI11001302	0.1	62	10.5	0.09	0.32	18	18.93	57.8
1096990	7108799	642298	1337	UTM83-8	WHI11001302	0.3	241	8	0.1	0.28	34	24.56	62.2
1096991	7108802	642347	1303	UTM83-8	WHI11001302	0.1	126	8.4	0.05	0.3	19	22.45	72.4
1096992	7108800	642395	1271	UTM83-8	WHI11001302	0.1	100	7	0.09	0.34	15	24.67	67.7
1096993	7108798	642446	1237	UTM83-8	WHI11001302	0	0	0	0	0	0	0	0
1096994	7108798	642496	1206	UTM83-8	WHI11001302	1	227	18.8	0.12	0.4	141	37.48	76.8
1096995	7108799	642551	1176	UTM83-8	WHI11001302	0.1	197	12.1	0.11	0.41	33	28.46	77.5
1096996	7108800	642599	1150	UTM83-8	WHI11001302	0.1	106	12.9	0.09	0.51	151	29.43	83.9
1096997	7108801	642648	1134	UTM83-8	WHI11001302	0.1	146	6.1	0.06	0.23	97	11.32	29.9
1096998	7108801	642700	1114	UTM83-8	WHI11001302	0.6	183	10.5	0.1	0.33	154	25.59	67.5
1096999	7108501	641748	1447	UTM83-8	WHI11001302	2.5	60	44.5	0.06	2.48	176	25.72	32.7
1097000	7108500	641700	1422	UTM83-8	WHI11001302	2.6	104	18.5	0.08	1.19	181	29.54	28.7
1097001	7110199	645250	1481	UTM83-8	WHI11001170	0.7	90	8.7	0.15	0.55	48	27.3	90.3
1097002	7110194	645200	1472	UTM83-8	WHI11001170	0.6	50	8.7	0.14	0.51	41	31.72	74.9
1097003	7110196	645146	1460	UTM83-8	WHI11001170	1.1	50	8.3	0.16	0.5	38	23.46	69.7
1097004	7110200	645100	1446	UTM83-8	WHI11001170	0.9	44	17.5	0.09	0.38	42	45.29	107.6
1097005	7110201	645052	1414	UTM83-8	WHI11001170	1.6	122	53.4	0.26	0.81	244	56.57	111.8
1097006	7110200	644999	1419	UTM83-8	WHI11001170	3.4	50	13.2	0.16	0.86	58	23.98	87.2
1097007	7110201	644950	1428	UTM83-8	WHI11001170	3.4	33	18.2	0.1	0.69	61	35.75	109.4
1097008	7110199	644898	1424	UTM83-8	WHI11001170	1.8	89	13	0.14	0.69	78	21.34	88.5
1097009	7110202	644846	1425	UTM83-8	WHI11001170	0.1	94	40.6	0.14	0.58	212	22	93.4
1097010	7110201	644798	1423	UTM83-8	WHI11001170	2.1	149	43.4	0.1	0.63	2068	32.78	94.9
1097011	7110197	644750	1410	UTM83-8	WHI11001170	1.2	149	38	0.15	0.65	829	38.16	105.4
1097012	7110203	644701	1397	UTM83-8	WHI11001170	2.6	153	21.5	0.16	0.62	327	29.31	88.1
1097013	7110198	644647	1380	UTM83-8	WHI11001170	4.1	298	66.3	0.23	1.35	1526	29.22	141.8
1097014	7110200	644598	1386	UTM83-8	WHI11001170	1.9	103	21.7	0.12	0.51	244	21.89	68.7
1097015	7110204	644497	1369	UTM83-8	WHI11001170	2.3	181	13.7	0.09	0.44	231	17.93	66.2
1097016	7110204	644550	1389	UTM83-8	WHI11001170	3.6	189	20.5	0.09	0.53	474	21.21	76.1

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1097017	7110198	644454	1350	UTM83-8	WHI11001170	2.2	175	17.6	0.09	0.52	306	20.89	74.2
1097018	7110206	644404	1358	UTM83-8	WHI11001170	5.6	79	9.5	0.1	0.38	163	13.35	74.1
1097019	7110210	644347	1380	UTM83-8	WHI11001170	2	118	8.2	0.11	0.35	135	15.79	62.9
1097020	7110196	644246	1415	UTM83-8	WHI11001170	1.3	30	7.4	0.1	0.3	75	11.64	55.8
1097021	7110199	644197	1423	UTM83-8	WHI11001170	1.8	60	9.4	0.13	0.31	78	16.31	60.5
1097022	7110200	644148	1420	UTM83-8	WHI11001170	1.4	63	11.3	0.16	0.35	208	16.04	63.8
1097023	7110207	644110	1405	UTM83-8	WHI11001170	1.8	104	11.6	0.1	0.3	82	20.03	89.7
1097024	7110196	644055	1368	UTM83-8	WHI11001170	1.5	98	8.4	0.09	0.33	82	21.1	58.3
1097025	7110197	644001	1342	UTM83-8	WHI11001170	0.8	51	9.1	0.11	0.32	96	17.67	78.8
1097026	7110204	643953	1318	UTM83-8	WHI11001170	1.1	111	11.9	0.11	0.47	74	20.07	75.8
1097027	7110196	643908	1288	UTM83-8	WHI11001170	0.7	50	10.5	0.11	0.5	41	24.96	73.1
1097028	7110197	643853	1262	UTM83-8	WHI11001170	0.6	16	10.9	0.08	0.56	30	21.94	75
1097029	7110199	643804	1230	UTM83-8	WHI11001170	1.2	133	17.3	0.14	0.42	74	37.75	91.9
1097030	7110200	643753	1190	UTM83-8	WHI11001170	0.5	113	10.1	0.11	0.31	59	29.43	77.4
1097031	7110208	643703	1155	UTM83-8	WHI11001170	0.5	261	7.7	0.15	0.37	75	30.95	80.3
1097032	7110207	643651	1134	UTM83-8	WHI11001170	1.2	141	9.5	0.07	0.55	144	20.48	65.4
1097033	7110194	643608	1112	UTM83-8	WHI11001170	1	180	7.7	0.11	0.35	120	24.57	78.5
1097034	7110196	643550	1089	UTM83-8	WHI11001170	0.7	183	8.6	0.09	0.41	68	19.98	76.2
1097035	7110360	643554	1159	UTM83-8	WHI11001170	0.5	137	5.9	0.11	0.26	75	19.87	64.4
1097037	7106047	633100	832	UTM83-8	WHI11001351	0.6	45	4.8	0.07	0.17	41	19.1	144.9
1097038	7106003	633101	834	UTM83-8	WHI11001351	0.1	35	5.4	0.06	0.19	47	29.3	112.1
1097039	7105951	633100	829	UTM83-8	WHI11001351	0.5	29	5.1	0.11	0.15	28	21.52	91.5
1097040	7106599	636093	1128	UTM83-8	WHI11001353	0.1	210	5.9	0.09	0.35	26	14.49	97.7
1097041	7106648	636100	1148	UTM83-8	WHI11001353	0.1	86	5.4	0.09	0.18	21	15.97	77
1097042	7106697	636099	1139	UTM83-8	WHI11001353	2.6	57	5.4	0.14	0.34	24	25.44	106.7
1097043	7106751	636103	1125	UTM83-8	WHI11001353	1.8	51	5.7	0.13	0.33	20	25.69	70
1097044	7106800	636103	1105	UTM83-8	WHI11001353	1.6	22	5.1	0.11	0.29	16	26.68	81.7
1097045	7106847	636097	1085	UTM83-8	WHI11001353	0.5	43	5.2	0.13	0.31	22	33.01	94.3
1097046	7106897	636097	1061	UTM83-8	WHI11001353	1.9	46	6.7	0.19	0.36	31	48.08	87.5
1097047	7106999	636098	1025	UTM83-8	WHI11001353	0.9	71	5.7	0.11	0.2	8	36.59	92.4
1097048	7107049	636102	1021	UTM83-8	WHI11001353	1.1	57	6.1	0.09	0.21	20	28.33	85.3
1097049	7107096	636102	1004	UTM83-8	WHI11001353	1.1	116	5.4	0.11	0.21	29	29.64	86.9
1097050	7107151	636104	959	UTM83-8	WHI11001353	0.6	44	6	0.12	0.24	13	30.04	87.2
1097051	7108976	354511	1377	UTM83-9		0	0	0	0	0	0	0	0
1097052	7108931	354510	1355	UTM83-9		0	0	0	0	0	0	0	0
1097053	7109482	354462	1590	UTM83-9	WHI11001171	3.9	209	22.3	0.19	1.59	662	46.74	119.9
1097054	7109530	354465	1575	UTM83-9	WHI11001171	7.6	107	33.1	0.08	2.2	282	27.76	102.5
1097055	7109580	354473	1560	UTM83-9	WHI11001171	4.3	107	26.5	0.1	1.51	278	45.4	150.5
1097056	7109575	354513	1538	UTM83-9	WHI11001171	7.3	156	36	0.13	1.92	354	52.04	208.7
1097057	7109535	354520	1542	UTM83-9	WHI11001171	34.2	188	59.8	0.1	4.48	641	53.87	298
1097058	7110056	644345	1333	UTM83-8	WHI11001302	1.7	132	10	0.11	0.41	111	16.42	71.4
1097059	7110050	644297	1344	UTM83-8	WHI11001302	4.1	205	13.5	0.11	0.49	1233	20	72.6
1097060	7110048	644251	1358	UTM83-8	WHI11001302	4.4	259	10.4	0.1	0.48	346	17.23	65.3
1097061	7110051	644200	1369	UTM83-8	WHI11001302	3.6	188	15.5	0.1	0.83	455	22.15	68.5
1097062	7110051	644149	1374	UTM83-8	WHI11001302	1.1	125	14.6	0.1	0.59	246	21.81	80.1
1097063	7110048	644100	1369	UTM83-8	WHI11001302	1.7	198	15.3	0.11	0.63	1082	22.56	72.6
1097064	7110048	644048	1344	UTM83-8	WHI11001302	1.5	140	12.1	0.09	0.46	208	22.8	58.3
1097065	7110052	644000	1333	UTM83-8	WHI11001302	1	43	13.8	0.12	0.45	86	32.22	82.7
1097066	7110050	643950	1313	UTM83-8	WHI11001139	1.4	327	17.6	0.15	0.67	93	30.13	120
1097067	7110055	643900	1284	UTM83-8	WHI11001139	0.5	96	10.1	0.09	0.54	27	24.08	72.4
1097068	7110050	643851	1256	UTM83-8	WHI11001139	0.7	40	13	0.08	0.56	33	29.81	80.8
1097069	7110051	643800	1222	UTM83-8	WHI11001139	1.4	208	13.8	0.08	0.48	74	33.23	95.6
1097070	7110047	643752	1186	UTM83-8	WHI11001139	1.9	267	9.3	0.12	0.46	87	35.68	90.9
1097071	7110046	643699	1153	UTM83-8	WHI11001139	1.6	188	8.5	0.11	0.37	89	34.71	90
1097072	7110048	643593	1089	UTM83-8	WHI11001139	1.4	179	6.9	0.08	0.31	73	22.28	73.4
1097073	7110057	643555	1069	UTM83-8	WHI11001139	1.5	160	7.3	0.09	0.34	86	20.59	80
1097074	7109998	644501	1358	UTM83-8	WHI11001139	1	47	14.8	0.07	0.79	67	21.16	85.4
1097075	7110002	644447	1328	UTM83-8	WHI11001139	0.5	53	9.2	0.09	0.61	75	14.95	82.6
1097076	7109999	644400	1305	UTM83-8	WHI11001139	0.9	48	16.7	0.08	0.67	184	21.58	97.2
1097077	7109997	644352	1294	UTM83-8	WHI11001139	2.2	163	25.7	0.09	0.57	484	23.37	75.6
1097078	7110000	644304	1304	UTM83-8	WHI11001139	2.6	170	13	0.1	0.43	359	19.89	78.3
1097079	7109997	644249	1321	UTM83-8	WHI11001139	4.3	249	14.5	0.1	0.53	543	16.69	74.3

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1097080	7109997	644199	1327	UTM83-8	WHI11001139	7.9	404	16.2	0.11	0.72	302	18.89	71.2
1097081	7110001	644149	1337	UTM83-8	WHI11001139	3.1	165	18	0.07	0.93	611	20.32	60.3
1097082	7109997	644095	1341	UTM83-8	WHI11001139	2	90	12.9	0.12	0.52	158	22.57	67.5
1097083	7110003	644049	1337	UTM83-8	WHI11001139	1.6	194	12	0.08	0.43	187	23.85	80.7
1097084	7110007	643998	1319	UTM83-8	WHI11001139	0.1	107	4.7	0.09	0.29	72	15.34	55
1097085	7109995	643947	1300	UTM83-8	WHI11001302	0.1	85	7.1	0.1	0.42	57	22.79	98.7
1097086	7110003	643896	1271	UTM83-8	WHI11001302	1	252	27.7	0.16	0.7	68	62.64	137.6
1097087	7110000	643849		UTM83-8	WHI11001302	0	0	0	0	0	0	0	0
1097088	7109995	643798	1206	UTM83-8	WHI11001302	0.1	253	11.9	0.14	0.51	100	39.79	93.6
1097089	7110003	643751	1177	UTM83-8	WHI11001139	2.2	307	19.8	0.11	0.52	160	38.06	123
1097090	7109549	643898	1221	UTM83-8	WHI11001139	1.9	164	12.5	0.08	0.43	193	20.73	74.9
1097091	7109546	643847	1183	UTM83-8	WHI11001139	2.3	185	9.9	0.11	0.35	179	21.48	80.4
1097092	7109546	643802	1084	UTM83-8	WHI11001139	0.9	39	10.5	0.1	0.34	28	28.51	81.6
1097093	7109548	643700	1094	UTM83-8	WHI11001139	2	117	8.9	0.06	0.25	120	19.81	77.6
1097094	7109550	643648	1045	UTM83-8	WHI11001139	1.1	110	12.5	0.07	0.32	180	20.46	76.7
1097095	7109547	643546	1041	UTM83-8	WHI11001139	3	135	12.7	0.09	0.44	258	21.34	74.2
1097096	7109598	643551	1036	UTM83-8	WHI11001139	2	126	17.3	0.09	0.56	257	24.47	84.1
1097097	7109601	643605	1032	UTM83-8	WHI11001139	1.9	107	13	0.09	0.4	95	26.01	89.9
1097098	7109599	643646	1028	UTM83-8	WHI11001139	1.6	123	14.2	0.07	0.4	170	19.95	72.9
1097099	7109601	643702	1025	UTM83-8	WHI11001139	1.2	125	14.1	0.09	0.45	107	27.15	85.2
1097100	7109604	643747	1040	UTM83-8	WHI11001139	1.6	152	10.8	0.08	0.31	96	21.59	79.9
1097101	7109602	643798	1072	UTM83-8	WHI11001139	1.7	172	13.5	0.09	0.42	74	27.27	98.2
1097102	7109602	643848	1076	UTM83-8	WHI11001139	1.3	117	14.7	0.07	0.47	148	19.63	94.4
1097103	7109596	643895	1134	UTM83-8	WHI11001139	2.5	152	14.4	0.09	0.49	153	20.72	86.3
1097104	7109649	643953	1143	UTM83-8	WHI11001139	3.2	138	15.3	0.1	0.51	564	20.42	80.1
1097105	7109652	643903	1132	UTM83-8	WHI11001139	0.8	39	9.8	0.12	0.31	34	25.69	70.1
1097106	7109648	643852	1098	UTM83-8	WHI11001139	0.9	105	8.5	0.09	0.28	51	25.66	84.4
1097107	7109656	643793	1091	UTM83-8	WHI11001139	0.8	81	9.9	0.08	0.37	57	24.83	75.7
1097108	7109656	643752	1107	UTM83-8	WHI11001139	2	120	16.1	0.07	0.49	306	23.23	79.3
1097109	7109655	643706	1075	UTM83-8	WHI11001139	2.1	99	14.2	0.05	0.47	316	17.78	68.2
1097110	7109646	643653	1056	UTM83-8	WHI11001139	1.7	115	13.8	0.07	0.51	360	19.89	76.7
1097111	7109646	643594	1066	UTM83-8	WHI11001139	1.2	93	8.8	0.07	0.35	74	21.06	71.2
1097112	7109650	643549		UTM83-8	WHI11001139	4.5	130	10.2	0.09	0.43	122	21.24	84.3
1097113	7110254	642147	1362	UTM83-8	WHI11001139	1.9	156	5.4	0.17	0.27	41	41.82	134.8
1097114	7110249	642205	1405	UTM83-8	WHI11001139	1.4	355	8.2	0.21	0.25	163	26.52	119
1097115	7110262	642302	1362	UTM83-8	WHI11001139	0.5	134	9.2	0.36	0.2	429	32.69	197.4
1097116	7110250	642399		UTM83-8	WHI11001139	0.4	256	6.9	0.15	0.22	50	32.48	127
1097117	7110253	642500	1297	UTM83-8	WHI11001139	0.8	228	6.9	0.13	0.28	51	35.83	134.6
1097118	7110247	642554	1275	UTM83-8	WHI11001139	0.7	276	8.4	0.14	0.3	63	39.14	110.3
1097119	7110252	642600	1236	UTM83-8	WHI11001139	0.5	278	8.2	0.11	0.28	70	34.58	116.9
1097120	7110248	642699	1204	UTM83-8	WHI11001139	0.4	242	7.4	0.2	0.23	126	30.76	110.2
1097121	7110249	642750	1189	UTM83-8	WHI11001139	0.7	318	5.9	0.18	0.22	477	51.79	57.7
1097122	7110246	642803	1175	UTM83-8	WHI11001139	0.1	262	6.9	0.24	0.23	148	23.74	121.4
1097123	7110250	642899		UTM83-8	WHI11001139	0.6	204	5.4	0.12	0.26	124	34.62	95.3
1097124	7110245	642945	1097	UTM83-8	WHI11001139	0.9	219	7.1	0.12	0.35	95	23.34	100.2
1097125	7110250	643003	1069	UTM83-8	WHI11001139	0.4	214	11.1	0.12	0.41	85	32.66	108.8
1097126	7110200	642249		UTM83-8	WHI11001139	3.4	276	64	0.23	2.83	114	30.66	171.7
1097127	7110204	642199	1397	UTM83-8	WHI11001139	0.4	76	9.2	0.12	0.37	27	32.5	133.9
1097128	7110198	642154	1363	UTM83-8	WHI11001139	0.9	336	25.3	0.26	0.44	133	74.55	186.7
1097129	7110199	642346	1367	UTM83-8	WHI11001139	0.3	217	7.5	0.17	0.22	62	32.13	145.3
1097130	7110200	642397	1352	UTM83-8	WHI11001139	0.1	210	7.5	0.18	0.22	83	26.19	114.6
1097131	7110200	642502	1310	UTM83-8	WHI11001139	0.9	206	6.3	0.13	0.26	38	42.5	108.5
1097132	7110199	642556	1276	UTM83-8	WHI11001139	0.3	295	7.3	0.18	0.2	112	38.56	97.3
1097133	7110195	642600	1249	UTM83-8	WHI11001139	0.3	261	9.2	0.35	0.26	141	25.83	113.8
1097134	7110201	642652	1230	UTM83-8	WHI11001139	0.1	200	6.7	0.19	0.35	147	24.67	99.9
1097135	7110200	642694	1222	UTM83-8	WHI11001139	0.5	298	8.5	0.2	0.26	202	33.76	121.7
1097136	7110200	642749		UTM83-8	WHI11001139	0.4	284	6.6	0.27	0.23	338	31.67	103.9
1097137	7110189	642852	1174	UTM83-8	WHI11001139	0.5	314	6.2	0.13	0.26	163	32.35	114.4
1097138	7110196	642896	1148	UTM83-8	WHI11001139	0.7	259	7.4	0.1	0.28	105	25.29	106
1097139	7110204	642945	1120	UTM83-8	WHI11001139	0.3	379	12.2	0.21	0.46	45	89.05	131.3
1097140	7110199	642994	1106	UTM83-8	WHI11001139	0.4	181	13.3	0.14	0.4	47	49.63	97.6
1097141	7110204	643054	1087	UTM83-8	WHI11001139	0.4	181	6.4	0.09	0.23	65	21.45	59.2

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1097142	7110210	643091	1065	UTM83-8	WHI11001139	0.3	147	8	0.15	0.26	64	33.94	131.8
1097143	7109755	642149	1555	UTM83-8	WHI11001139	0.7	63	9.3	0.14	0.46	31	28.29	95.2
1097144	7109749	642198	1558	UTM83-8	WHI11001139	0.6	70	8.3	0.14	0.46	23	29.6	69
1097145	7109750	642249		UTM83-8	WHI11001139	0.6	54	9.5	0.14	0.49	29	34.47	96.1
1097146	7109751	642299	1550	UTM83-8	WHI11001139	0.6	108	10.5	0.18	0.5	32	44.48	129
1097147	7109753	642348	1537	UTM83-8	WHI11001139	0.3	26	10.2	0.14	0.24	40	29.78	105.2
1097148	7109752	642398	1549	UTM83-8	WHI11001139	3.5	29	11.4	0.11	0.77	21	30	88.1
1097149	7109749	642448	1544	UTM83-8	WHI11001139	2.2	127	16.3	0.1	0.57	60	61.04	109.1
1097150	7109752	642500	1510	UTM83-8	WHI11001139	1.6	94	9.5	0.13	0.47	286	41.62	80
1097151	7108851	642148	1416	UTM83-8	WHI11001302	0.4	208	10.7	0.08	0.4	40	67.27	85.2
1097152	7108852	642199	1413	UTM83-8	WHI11001302	1.2	434	14.4	0.15	0.58	220	53.48	84.6
1097153	7108848	642298	1374	UTM83-8	WHI11001302	1.5	579	8	0.11	0.36	148	36.33	66.9
1097154	7108847	642351	1341	UTM83-8	WHI11001302	0.9	144	9.2	0.14	0.43	38	44.47	82.7
1097155	7108850	642403	1319	UTM83-8	WHI11001302	1.1	72	7.3	0.08	0.3	23	25.42	63.8
1097156	7108844	642447	1377	UTM83-8	WHI11001302	0.7	317	15.7	0.14	0.37	117	33.93	94.7
1097157	7108846	642501	1351	UTM83-8	WHI11001302	0.4	56	15.4	0.07	0.46	25	29.39	98.9
1097158	7108846	642552	1336	UTM83-8	WHI11001302	0.4	82	11.1	0.07	0.44	42	22.44	76.9
1097159	7108853	642597	1267	UTM83-8	WHI11001302	0.6	65	10.7	0.08	0.42	97	23.4	75.4
1097160	7108843	642646	1237	UTM83-8	WHI11001302	1.5	168	12.2	0.08	0.45	79	22.98	83.8
1097161	7108843	642740	1186	UTM83-8	WHI11001302	2.1	182	13.8	0.1	0.42	405	29.2	77.1
1097162	7108553	641748	1457	UTM83-8	WHI11001302	1.9	83	14.8	0.08	0.98	91	14.3	60.6
1097163	7108551	641699	1426	UTM83-8	WHI11001302	2.4	109	23.1	0.09	1.24	161	20.22	44
1097164	7108550	641646	1387	UTM83-8	WHI11001302	6.8	124	23.1	0.07	1.58	216	21.83	48.2
1097165	7108551	641598	1370	UTM83-8	WHI11001302	1.7	106	14.6	0.07	1.22	97	21.01	19.7
1097166	7108551	641547	1338	UTM83-8	WHI11001302	0.1	52	12.6	0.03	1.1	27	12.49	9
1097167	7108551	641497	1285	UTM83-8	WHI11001302	2.4	183	12.3	0.1	0.66	106	30.1	70.4
1097168	7108557	641464	1286	UTM83-8	WHI11001302	1	129	18.9	0.13	1.12	176	34.06	80
1097169	7108547	641397	1254	UTM83-8	WHI11001302	3.3	122	18.7	0.13	1.1	152	30.44	86.2
1097170	7108550	641347	1225	UTM83-8	WHI11001302	2.8	110	11.8	0.14	0.57	185	32.97	88.6
1097171	7108545	641300	1201	UTM83-8	WHI11001302	1.8	148	19	0.12	1.31	196	41.24	534.5
1097172	7108546	641253	1183	UTM83-8	WHI11001302	0.8	85	13.6	0.09	0.91	109	23.82	128
1097173	7108549	641205	1156	UTM83-8	WHI11001302	2.5	97	10.2	0.07	0.58	62	19.2	84.8
1097174	7108553	641797	1441	UTM83-8	WHI11001302	1.4	117	16.7	0.08	1.05	162	22.55	77.8
1097175	7108548	641847	1406	UTM83-8	WHI11001302	4.2	164	40.5	0.12	2.77	116	30.3	56.7
1097176	7108547	641995	1295	UTM83-8	WHI11001302	1.5	219	17.6	0.1	0.71	492	83.47	146.3
1097177	7108555	642046	1255	UTM83-8	WHI11001302	2.1	155	24.3	0.11	1.01	341	64.47	143.2
1097178	7108550	642099		UTM83-8	WHI11001302	7.2	159	12.7	0.11	0.67	168	34.69	102
1097179	7108556	642142	1208	UTM83-8	WHI11001302	2.2	141	10.8	0.15	0.44	53	31.17	70.7
1097180	7108553	642194	1204	UTM83-8	WHI11001302	2.7	310	8.7	0.11	0.53	60	33.33	58.8
1097181	7108557	642249	1207	UTM83-8	WHI11001302	1.7	107	8.7	0.1	0.41	27	46.79	68.4
1097182	7108555	642303	1199	UTM83-8	WHI11001302	2.2	260	8.6	0.09	0.35	70	21.35	62.5
1097183	7108549	642342	1193	UTM83-8	WHI11001302	1.5	214	9.1	0.11	0.41	41	23.82	60.3
1097184	7108555	642396	1175	UTM83-8	WHI11001302	1.5	615	8.1	0.12	0.38	53	31.03	49.6
1097185	7108544	642456	1141	UTM83-8	WHI11001302	2.3	202	5.9	0.07	0.29	109	32.99	54.2
1097186	7108542	642549	1077	UTM83-8	WHI11001302	1.8	188	11	0.1	0.41	80	25.65	73.1
1097187	7108303	641649	1376	UTM83-8	WHI11001302	0.7	67	9.2	0.13	0.82	55	14.82	55.8
1097188	7108302	641607	1345	UTM83-8	WHI11001302	3.6	122	17.1	0.2	1.39	191	25.96	139.5
1097189	7108301	641555	1301	UTM83-8	WHI11001302	2.1	106	19.5	0.17	1.53	117	30.87	112.6
1097190	7108299	641496	1267	UTM83-8	WHI11001302	0.5	30	4.4	0.09	0.41	48	13.28	26.4
1097191	7108301	641444	1236	UTM83-8	WHI11001302	1.2	61	25.1	0.17	0.75	94	23.48	36.5
1097192	7108294	641398	1208	UTM83-8	WHI11001302	0.4	38	6.5	0.09	0.43	44	14.71	25.1
1097193	7108292	641302	1154	UTM83-8	WHI11001302	1.8	139	17.2	0.15	1.03	151	28.49	58.2
1097194	7108293	641245	1138	UTM83-8	WHI11001302	2.4	128	13.1	0.1	0.84	168	24.31	70.7
1097195	7108311	641204	1104	UTM83-8	WHI11001302	2.5	102	12.2	0.1	0.75	160	25.68	110
1097196	7108304	641699	1390	UTM83-8	WHI11001189	1.1	105	12.3	0.08	1.83	84	32.39	59.4
1097197	7108297	641748	1362	UTM83-8	WHI11001189	4	107	17.1	0.12	1.32	77	25.92	74.4
1097198	7108298	641799	1334	UTM83-8	WHI11001189	7.6	222	30.5	0.16	2.93	395	54.2	32.5
1097199	7108303	641851	1327	UTM83-8	WHI11001189	0	0	0	0	0	0	0	0
1097200	7108307	641896	1314	UTM83-8	WHI11001189	0	0	0	0	0	0	0	0
1097201	7109749	642544	1494	UTM83-8	WHI11001139	1.7	131	19.8	0.16	0.59	40	68.15	130.2
1097202	7109746	642600	1479	UTM83-8	WHI11001139	1	409	15.6	0.26	0.47	114	33.29	119.1
1097203	7109749	642647	1471	UTM83-8	WHI11001139	1.3	223	8.4	0.13	0.57	74	50.71	86.1

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1097204	7109746	642800	1382	UTM83-8	WHI11001139	0.7	301	11.4	0.11	0.49	24	40.26	119
1097205	7109750	642844	1363	UTM83-8	WHI11001139	0.8	204	6.9	0.08	0.26	31	23.28	73
1097206	7109756	642894	1347	UTM83-8	WHI11001139	1.2	117	12.1	0.12	0.73	19	24.9	88.4
1097207	7109752	642942	1312	UTM83-8	WHI11001139	1.7	103	6.8	0.1	0.36	25	46.7	87.1
1097208	7109753	642993	1283	UTM83-8	WHI11001139	0.6	109	9.5	0.11	0.33	45	31.86	79.6
1097209	7109754	643045	1245	UTM83-8	WHI11001139	1.2	147	9.8	0.1	0.66	43	32.29	87.4
1097210	7109753	643093	1214	UTM83-8	WHI11001139	0.9	248	7.1	0.12	0.47	53	39.29	81.2
1097211	7109750	643193	1143	UTM83-8	WHI11001139	1.2	237	5.6	0.1	0.4	108	21.17	66.1
1097212	7109757	643240	1109	UTM83-8	WHI11001139	2	232	4.7	0.08	0.38	93	19.16	63.2
1097213	7109700	642152	1581	UTM83-8	WHI11001139	1.9	143	8.9	0.16	0.44	56	54.36	99
1097214	7109702	642199	1576	UTM83-8	WHI11001139	1.8	74	6.2	0.13	0.37	24	26.68	73.4
1097215	7109701	642248	1571	UTM83-8	WHI11001139	1.2	91	8.6	0.16	0.68	56	50.62	82.7
1097216	7109697	642296	1566	UTM83-8	WHI11001139	0.7	120	12.1	0.12	0.68	30	35.61	83.7
1097217	7109699	642351	1552	UTM83-8	WHI11001139	1.5	316	17.7	0.2	0.75	484	42.45	108.2
1097218	7109702	642401	1544	UTM83-8	WHI11001139	0.4	121	18.5	0.23	0.47	56	70.61	118.6
1097219	7109705	642451	1545	UTM83-8	WHI11001139	1.5	46	13.4	0.13	1.04	63	30.62	83
1097220	7109698	642494	1527	UTM83-8	WHI11001139	0.8	78	10.5	0.15	0.36	124	55.6	110
1097221	7109704	642548	1501	UTM83-8	WHI11001139	0.8	112	9.1	0.19	0.59	74	46.58	97.5
1097222	7109695	642596	1471	UTM83-8	WHI11001139	0.9	231	11.6	0.12	0.35	64	28.01	94.9
1097223	7109705	642648	1453	UTM83-8	WHI11001139	0.5	110	3.8	0.09	0.36	39	29.99	75.1
1097224	7109697	642738	1396	UTM83-8	WHI11001139	1.3	555	16.4	0.15	0.58	165	39.72	87
1097225	7109696	642796	1357	UTM83-8	WHI11001139	1	198	5.9	0.07	0.41	22	30.5	109.6
1097226	7109704	642848	1339	UTM83-8	WHI11001139	0.4	145	8.5	0.1	0.53	30	41.76	93.3
1097227	7109700	642899		UTM83-8	WHI11001139	0.4	48	6.1	0.09	0.38	23	33.01	83.4
1097228	7109707	642953	1300	UTM83-8	WHI11001139	0.5	231	8.5	0.11	0.35	57	31.1	76
1097229	7109705	642994	1275	UTM83-8	WHI11001139	0.5	122	7.5	0.08	0.38	43	28.33	71.3
1097230	7109246	642147	1443	UTM83-8	WHI11001140	0.4	459	17.2	0.16	0.88	95	73.47	111.3
1097231	7109256	642197	1405	UTM83-8	WHI11001140	0.9	164	8.5	0.09	0.28	115	30.89	95.7
1097232	7109251	642249	1381	UTM83-8	WHI11001140	0.4	173	11.4	0.12	0.6	164	29.92	104.9
1097233	7109250	642297	1356	UTM83-8	WHI11001140	0.1	260	58	0.21	0.9	102	43.39	144.8
1097234	7109248	642347	1331	UTM83-8	WHI11001140	0.5	318	28.4	0.11	0.59	64	66.47	137.1
1097235	7109250	642393	1320	UTM83-8	WHI11001140	1.3	293	51.2	0.19	0.86	130	81.38	162.2
1097236	7109247	642502	1278	UTM83-8	WHI11001140	1.7	160	15.3	0.11	0.53	119	34.18	86.5
1097237	7109252	642544	1294	UTM83-8	WHI11001140	0.4	109	14.4	0.09	0.49	149	27.16	81.6
1097238	7109250	642593	1291	UTM83-8	WHI11001140	0.1	140	13.2	0.06	0.48	251	22.73	77.3
1097239	7109249	642651	1255	UTM83-8	WHI11001140	0.4	84	8.8	0.07	0.34	33	20	59.1
1097240	7109242	642698	1258	UTM83-8	WHI11001140	0.2	60	8.9	0.07	0.32	53	28.47	91.6
1097241	7109252	642803	1249	UTM83-8	WHI11001302	6.1	278	13.1	0.1	0.8	310	22.3	66.3
1097242	7109242	642854	1210	UTM83-8	WHI11001302	2.5	325	8.6	0.11	0.41	149	17.57	52.9
1097243	7109253	642894	1192	UTM83-8	WHI11001302	6.5	383	12.7	0.15	0.82	256	24.2	79.4
1097244	7109237	642944	1108	UTM83-8	WHI11001302	6.4	346	13.6	0.14	1	258	24.5	67.6
1097245	7109252	643044	1060	UTM83-8	WHI11001302	1.9	210	16.6	0.12	1.78	327	22.15	63.3
1097246	7109204	642197	1350	UTM83-8	WHI11001302	0.5	289	9.4	0.17	0.48	58	44.34	121.5
1097247	7109200	642249	1317	UTM83-8	WHI11001302	0.5	264	9	0.1	0.5	124	31.28	68
1097248	7109195	642300	1344	UTM83-8	WHI11001302	0.1	391	29.1	0.25	0.7	217	66.51	171.8
1097249	7109193	642446	1244	UTM83-8	WHI11001302	1.1	231	15	0.11	0.65	125	40.36	115.9
1097250	7109200	642542	1305	UTM83-8	WHI11001302	1.9	92	9.3	0.1	0.35	91	36.56	84.6
1097251	7109449	643906	1172	UTM83-8	WHI11001302	1.1	160	14.4	0.11	0.41	160	32.94	79.6
1097252	7109444	643754	1105	UTM83-8	WHI11001302	0.1	144	10.1	0.11	0.94	256	31.05	87.6
1097253	7109446	643649	1056	UTM83-8	WHI11001302	0.3	125	7.9	0.08	0.33	69	25.57	86.6
1097254	7109460	643599	1047	UTM83-8	WHI11001302	0.7	97	9.3	0.08	0.45	65	32.38	82.6
1097255	7109447	643546	1016	UTM83-8	WHI11001302	0.5	121	6.9	0.07	0.36	94	17.48	91.4
1097256	7109402	643963	1180	UTM83-8	WHI11001302	0.1	154	13.2	0.11	0.61	80	46.1	87.3
1097257	7109402	643905	1164	UTM83-8	WHI11001302	1.1	86	8.8	0.08	0.46	108	17.76	61.9
1097258	7109410	643754	1101	UTM83-8	WHI11001302	0.9	156	8.1	0.09	0.41	110	20.32	76.1
1097259	7109396	643601	1053	UTM83-8	WHI11001302	0.1	83	8.5	0.08	0.36	86	26.97	127.4
1097260	7109400	643549		UTM83-8	WHI11001302	0.5	102	8.3	0.09	0.33	94	21.74	81.3
1097261	7109090	643951	1147	UTM83-8	WHI11001302	2.7	140	6.3	0.11	0.68	240	15.35	87.8
1097262	7109104	643854	1148	UTM83-8	WHI11001302	5	258	11.1	0.14	1.08	385	16.01	71.3
1097263	7109097	643704	1171	UTM83-8	WHI11001302	8.9	359	10.6	0.14	1.93	294	22.47	76.4
1097264	7109101	643645	1163	UTM83-8	WHI11001302	2.3	96	12.1	0.06	0.47	97	27.3	82.2
1097265	7109058	643948	1150	UTM83-8	WHI11001302	3.6	166	11.9	0.09	0.74	348	15.74	94.6

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1097266	7109053	643704	1187	UTM83-8	WHI11001302	0.9	79	9.9	0.07	0.37	105	18.03	74.2
1097267	7109049	643655	1187	UTM83-8	WHI11001302	2.2	321	19	0.11	0.54	276	23.97	78.2
1097268	7109049	643601	1186	UTM83-8	WHI11001302	0.5	51	11.3	0.08	0.43	78	29.58	78.3
1097269	7109044	643400	1105	UTM83-8	WHI11001139	6.4	256	9.5	0.1	0.4	140	13.85	64.9
1097270	7109000	643895	1181	UTM83-8	WHI11001139	3.8	132	8.9	0.1	0.61	210	14.68	73.6
1097271	7109006	643790	1211	UTM83-8	WHI11001139	1.7	24	15.3	0.12	0.53	186	20.09	69.1
1097272	7109000	643747	1210	UTM83-8	WHI11001139	2.7	74	8.9	0.14	0.42	117	13.22	60.7
1097273	7109002	643699	1206	UTM83-8	WHI11001139	2.2	152	9.1	0.14	0.5	136	22.76	60.3
1097274	7109002	643652	1198	UTM83-8	WHI11001139	3.3	147	12.8	0.1	0.52	230	21.92	76.7
1097275	7108996	643593	1202	UTM83-8	WHI11001139	2.1	56	13.7	0.17	0.65	71	22.37	75.3
1097276	7108997	643456	1152	UTM83-8	WHI11001139	8.9	462	16.8	0.19	0.52	244	20.85	88.7
1097278	7108956	643544	1198	UTM83-8	WHI11001139	1.4	43	14.8	0.12	0.92	74	20.04	56.8
1097279	7108903	643502	1184	UTM83-8	WHI11001139	3.2	221	13	0.13	0.51	149	15.51	69.2
1097280	7109050	642242	1426	UTM83-8	WHI11001140	0.7	440	26.2	0.15	0.9	81	61.99	104.8
1097281	7109051	642295	1380	UTM83-8	WHI11001140	1.4	142	16.4	0.04	0.77	548	25.07	85.2
1097282	7109055	642345	1350	UTM83-8	WHI11001140	0.1	67	3.3	0.03	0.22	44	11.12	53.1
1097283	7109048	642396	1324	UTM83-8	WHI11001140	0.4	158	10.1	0.11	0.41	54	33.95	79.5
1097284	7109051	642448	1282	UTM83-8	WHI11001140	0.6	196	32	0.14	0.92	275	56.51	109.4
1097285	7109054	642491	1248	UTM83-8	WHI11001140	2.3	36	10.8	0.1	0.54	21	25.24	105.3
1097286	7109042	642551	1208	UTM83-8	WHI11001140	1.6	53	46.3	0.07	1.93	333	43.8	110.8
1097287	7109047	642591	1176	UTM83-8	WHI11001140	1.5	177	18.7	0.15	0.65	106	52.62	120.6
1097288	7109053	642640	1137	UTM83-8	WHI11001140	1.2	131	11.1	0.09	0.41	73	26.45	91.2
1097289	7109047	642697	1113	UTM83-8	WHI11001140	2.1	191	12	0.09	0.54	141	30.71	80.4
1097290	7109044	642740	1089	UTM83-8	WHI11001140	2.4	218	11.7	0.1	0.61	133	35.39	127.7
1097291	7109051	642843	1084	UTM83-8	WHI11001140	3.7	101	9.3	0.07	0.49	117	25.88	96.1
1097292	7109009	642144	1500	UTM83-8	WHI11001140	0.8	162	9.1	0.09	0.55	54	62.17	115.5
1097293	7108993	642194	1461	UTM83-8	WHI11001140	1.3	137	10.9	0.08	0.54	20	37.69	81.2
1097294	7108994	642246	1426	UTM83-8	WHI11001140	1	153	8.7	0.08	0.42	40	35.76	89.1
1097295	7108999	642289	1397	UTM83-8	WHI11001140	1	162	12.6	0.09	0.67	72	56.33	106.1
1097296	7108992	642341	1356	UTM83-8	WHI11001140	1.5	183	8.2	0.08	0.38	80	29.66	100.6
1097297	7109001	642394	1328	UTM83-8	WHI11001140	0.5	79	11.5	0.09	0.34	37	43.61	139
1097298	7109005	642443	1295	UTM83-8	WHI11001140	0.5	275	42.8	0.18	0.55	185	73.56	135.7
1097299	7108999	642491	1255	UTM83-8	WHI11001140	0.6	180	17	0.09	0.74	86	62.49	93.3
1097300	7108996	642594	1211	UTM83-8	WHI11001140	0.6	44	10	0.09	0.35	65	29.12	71.4
1097323	7108546	636401	1171	UTM83-8	WHI11001349	0.5	53	9.8	0.13	0.61	32	21.43	73
1097324	7108503	636399	1153	UTM83-8	WHI11001349	1.1	190	10.2	0.1	0.6	57	25.22	90.5
1097325	7108451	636403	1119	UTM83-8	WHI11001349	0.7	152	8.6	0.11	0.49	40	20.36	97.9
1097326	7108401	636398	1107	UTM83-8	WHI11001349	1.5	123	12	0.15	0.87	44	27.35	98.8
1097327	7108353	636401	1071	UTM83-8	WHI11001349	1.3	173	8.4	0.11	0.56	71	19.89	73.4
1097328	7108300	636396	1050	UTM83-8	WHI11001349	0.8	179	7.7	0.12	0.57	54	20.39	106.5
1097329	7108246	636396	1034	UTM83-8	WHI11001349	1.1	135	9.6	0.12	0.68	49	22.86	58.1
1097330	7108200	636402	1034	UTM83-8	WHI11001349	0.6	121	12.2	0.13	0.97	55	28.65	232.2
1097331	7108153	636401	1000	UTM83-8	WHI11001349	0.1	59	9	0.1	0.55	23	20.46	63.1
1097332	7108101	636402	992	UTM83-8	WHI11001349	0.6	58	8	0.08	0.4	49	19.53	51.6
1097333	7108051	636398	982	UTM83-8	WHI11001349	0.1	29	7.4	0.09	0.21	17	19.62	69
1097334	7108002	636399	966	UTM83-8	WHI11001349	1.2	116	10.6	0.11	0.7	84	21.48	77.8
1097335	7108645	636498	1141	UTM83-8	WHI11001349	1.2	192	11.4	0.11	1.35	108	42.34	68.8
1097336	7108549	636497	1141	UTM83-8	WHI11001349	1.6	75	9	0.12	0.41	45	26.25	88.2
1097337	7108501	636494	1121	UTM83-8	WHI11001349	0.9	55	8.5	0.13	0.45	24	22.72	97.6
1097338	7108455	636500	1108	UTM83-8	WHI11001349	0.4	77	7.5	0.11	0.46	29	18.58	63.1
1097339	7108404	636499	1085	UTM83-8	WHI11001349	1.7	65	9.6	0.12	0.57	28	20.59	74
1097340	7108354	636502	1070	UTM83-8	WHI11001349	0.7	43	8.9	0.12	0.5	18	18.4	77.2
1097341	7108302	636497	1057	UTM83-8	WHI11001349	1	103	11.2	0.1	0.86	49	29.63	83.7
1097342	7108253	636495	1033	UTM83-8	WHI11001349	0.6	123	9.6	0.1	0.67	66	24.39	89
1097343	7107354	637199	1372	UTM83-8	WHI11001350	0.5	137	6.8	0.13	0.3	63	49.62	82
1097344	7107400	637203	1341	UTM83-8	WHI11001350	0.1	113	3.8	0.11	0.2	30	27.78	100.7
1097345	7107451	637202	1329	UTM83-8	WHI11001350	0.4	48	4.8	0.16	0.27	23	53.51	78.7
1097346	7107496	637197	1310	UTM83-8	WHI11001350	0.1	43	4.6	0.11	0.33	26	16.04	79.9
1097347	7107548	637200	1282	UTM83-8	WHI11001350	0.4	97	6.7	0.09	0.41	19	19.41	78.9
1097348	7107597	637198	1252	UTM83-8	WHI11001350	0.3	38	6.6	0.08	0.27	32	33.78	87.6
1097349	7107655	637197	1227	UTM83-8	WHI11001350	0.1	16	9.3	0.1	0.78	40	25.92	89.5
1097350	7107698	637200	1189	UTM83-8	WHI11001350	0.1	42	8.4	0.09	0.78	39	31.63	100.2

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1097351	7109749	644398	1315	UTM83-8	WHI11001139	3.8	150	29.4	0.17	3.59	742	24.49	93.7
1097352	7109750	644349	1281	UTM83-8	WHI11001139	2.7	103	17.3	0.1	2.63	733	24.69	89.9
1097353	7109753	644298	1250	UTM83-8	WHI11001139	1.8	90	17.2	0.12	1.2	317	32.57	86.3
1097354	7109750	644249	1201	UTM83-8	WHI11001139	3.1	82	14.2	0.11	0.99	373	24.89	89.5
1097355	7109750	644148	1195	UTM83-8	WHI11001139	1.9	108	12.5	0.13	0.58	202	17.45	77.6
1097356	7109748	644094	1191	UTM83-8	WHI11001139	2.4	155	13.5	0.08	0.47	270	17.93	81.6
1097357	7109750	644049	1180	UTM83-8	WHI11001139	1.3	166	9.6	0.1	0.45	119	22.77	78.8
1097358	7109751	643998	1188	UTM83-8	WHI11001139	1.5	121	6.7	0.12	0.26	141	32.48	70.9
1097359	7109755	643948	1181	UTM83-8	WHI11001139	2.4	151	7.7	0.1	0.34	198	25.43	85.4
1097360	7109751	643898	1164	UTM83-8	WHI11001139	2.3	138	8.4	0.1	0.27	179	28.71	72.8
1097361	7109751	643847	1149	UTM83-8	WHI11001139	1.4	127	8.9	0.09	0.41	159	20.91	63.8
1097362	7109750	643797	1153	UTM83-8	WHI11001139	1.2	200	10.3	0.09	0.46	183	25.24	76.2
1097363	7109752	643753	1098	UTM83-8	WHI11001139	1.2	71	13.2	0.07	0.55	171	27.64	83.2
1097364	7109750	643654	1073	UTM83-8	WHI11001139	1.5	206	8	0.08	0.38	99	21.02	83.1
1097365	7109752	643597	1224	UTM83-8	WHI11001139	1.6	197	8.2	0.1	0.33	94	24.22	74.6
1097366	7109802	643947	1187	UTM83-8	WHI11001139	1	92	9.2	0.13	0.32	81	29.49	88.7
1097367	7109800	643852	1151	UTM83-8	WHI11001139	0.1	96	11.5	0.1	0.47	138	27.4	78.7
1097368	7109801	643751	1123	UTM83-8	WHI11001139	0.5	203	5	0.1	0.3	86	17.06	74.3
1097369	7109801	643695	1061	UTM83-8	WHI11001139	0.4	146	9.9	0.09	0.37	34	26.78	71.2
1097370	7109805	643599	1061	UTM83-8	WHI11001139	0.1	142	9.3	0.1	0.3	63	24.36	75.7
1097371	7110400	642151	1310	UTM83-8	WHI11001139	0.2	84	10.4	0.23	0.43	75	26.31	117.8
1097372	7110402	642199	1314	UTM83-8	WHI11001139	0.1	210	5.8	0.13	0.27	297	26.69	99.3
1097373	7110400	642249	1319	UTM83-8	WHI11001139	1	356	11.4	0.16	0.47	311	36.49	148
1097374	7110398	642448	1261	UTM83-8	WHI11001139	2.8	184	16.4	0.1	1.56	212	55.39	485.3
1097375	7110399	642548	1250	UTM83-8	WHI11001139	0.9	123	10.6	0.16	0.68	73	31.33	140.9
1097376	7110399	642597	1223	UTM83-8	WHI11001139	0.1	91	3.3	0.08	0.24	114	16.38	62.9
1097377	7110399	642649	1190	UTM83-8	WHI11001139	0.6	182	7.8	0.16	0.41	182	29.2	84.5
1097378	7110401	642697	1154	UTM83-8	WHI11001139	0.1	201	13.4	0.21	0.57	240	27.9	102.8
1097379	7110399	642750	1133	UTM83-8	WHI11001139	3.2	241	8.7	0.17	0.41	72	47.28	149.8
1097380	7110400	642795	1122	UTM83-8	WHI11001139	0.1	294	7.1	0.19	0.23	181	28.72	122.4
1097381	7110401	642848	1091	UTM83-8	WHI11001139	0.6	302	6.3	0.2	0.23	228	29.82	113.1
1097382	7110401	642901	1061	UTM83-8	WHI11001139	1.7	262	7.3	0.16	0.3	305	29.34	106.1
1097383	7110402	642947	1041	UTM83-8	WHI11001139	0.1	158	3.2	0.13	0.2	138	13.33	56.5
1097384	7110451	642194	1294	UTM83-8	WHI11001139	0.9	111	7.1	0.17	0.33	88	25.47	52.3
1097385	7110450	642248	1300	UTM83-8	WHI11001139	0.6	25	7.4	0.15	0.49	32	19.88	55.7
1097386	7110452	642296	1283	UTM83-8	WHI11001139	0.8	95	9.4	0.13	0.35	107	35.22	55.4
1097387	7110451	642347	1257	UTM83-8	WHI11001139	0.1	79	4.7	0.04	0.15	425	10.73	448.8
1097388	7110450	642399	1250	UTM83-8	WHI11001139	10.4	243	24	0.11	3.79	337	59.76	287
1097389	7110450	642449	1243	UTM83-8	WHI11001139	1	132	7.6	0.13	0.55	171	31.5	93.1
1097390	7110449	642499	1237	UTM83-8	WHI11001139	3.8	166	26	0.15	3.33	287	54.64	267.5
1097391	7110454	642640	1154	UTM83-8	WHI11001139	3.1	175	9.5	0.14	0.72	296	23.18	72.4
1097392	7110448	642697	1118	UTM83-8	WHI11001139	0.1	131	10.8	0.16	0.65	287	31.48	114.5
1097393	7110450	642799	1082	UTM83-8	WHI11001139	0.5	269	6.9	0.14	0.29	59	38.75	137.5
1097394	7110450	642844	1113	UTM83-8	WHI11001139	0.8	215	8.3	0.2	0.26	214	27.38	117
1097395	7110449	642896	1061	UTM83-8	WHI11001139	4.3	227	7.9	0.19	0.37	262	28.17	164.3
1097396	7110454	642943		UTM83-8	WHI11001139	3.2	228	7.4	0.19	0.33	204	28.1	115.8
1097397	7109952	642147	1477	UTM83-8	WHI11001140	2.5	102	10.9	0.17	0.46	92	40.22	96.6
1097398	7109951	642201	1461	UTM83-8	WHI11001140	2.2	91	15	0.15	0.58	220	38.89	81.1
1097399	7109953	642250	1464	UTM83-8	WHI11001140	1.2	26	8.5	0.14	0.44	36	15.6	67.3
1097400	7109951	642297	1488	UTM83-8	WHI11001140	1.3	47	5.7	0.15	0.32	124	47.99	111.6
1097401	7109952	642349	1493	UTM83-8	WHI11001140	1	107	8.7	0.16	0.71	47	22.98	61.7
1097402	7109950	642399	1499	UTM83-8	WHI11001140	1.3	64	11.6	0.15	0.68	25	23.55	66.3
1097403	7109950	642448	1483	UTM83-8	WHI11001140	0.6	225	5.5	0.11	0.32	38	36.24	54.8
1097404	7109952	642496	1455	UTM83-8	WHI11001140	0.9	87	21	0.09	0.92	38	37.18	125.8
1097405	7109952	642547	1409	UTM83-8	WHI11001140	1	92	9.7	0.09	0.35	48	73.33	110.6
1097406	7109950	642593	1376	UTM83-8	WHI11001140	0.6	153	29	0.15	0.57	36	86.48	136.4
1097407	7109952	642649	1337	UTM83-8	WHI11001140	1.1	175	18.9	0.22	0.51	64	58.45	122.1
1097408	7109950	642697	1314	UTM83-8	WHI11001140	1.8	262	9.9	0.11	0.45	121	55.06	92.1
1097409	7109949	642751	1298	UTM83-8	WHI11001140	1	250	18.6	0.09	0.69	57	53.73	129.9
1097410	7109950	642798	1289	UTM83-8	WHI11001140	1.1	302	11.6	0.11	0.62	80	60.84	105.4
1097411	7109948	642897	1269	UTM83-8	WHI11001140	2	307	8.5	0.09	0.38	99	24.9	89.7
1097412	7109956	642946	1270	UTM83-8	WHI11001140	0.9	555	11.4	0.11	0.69	88	78.38	140.7

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1097413	7109950	643001	1254	UTM83-8	WHI11001140	1.3	210	10.7	0.1	0.56	59	43.81	77.2
1097414	7109953	643092	1202	UTM83-8	WHI11001140	1.6	192	6	0.08	0.33	61	24.64	64
1097415	7109950	643196	1116	UTM83-8	WHI11001140	1.7	343	7.8	0.11	0.44	80	23.11	59.9
1097416	7109900	642152	1482	UTM83-8	WHI11001140	0.9	279	6	0.12	0.25	86	21.98	96.9
1097417	7109903	642200	1479	UTM83-8	WHI11001140	0.2	70	6	0.12	0.25	40	22.55	90.5
1097418	7109900	642249	1483	UTM83-8	WHI11001140	0.1	86	10.8	0.16	0.4	70	33.41	95.3
1097419	7109900	642300	1495	UTM83-8	WHI11001140	0.3	33	10.3	0.18	0.55	58	31.13	82.6
1097420	7109901	642350	1500	UTM83-8	WHI11001140	0.5	45	7.2	0.17	0.5	39	15.9	68.5
1097421	7109900	642399	1506	UTM83-8	WHI11001140	0.9	698	8	0.28	0.34	265	44.24	165.6
1097422	7109901	642448	1482	UTM83-8	WHI11001140	1.1	163	17.5	0.14	0.62	83	66.18	111.5
1097423	7109899	642501	1442	UTM83-8	WHI11001140	0.6	187	11.8	0.17	0.59	136	31.57	108.3
1097424	7109902	642548	1415	UTM83-8	WHI11001140	0.4	229	12.8	0.16	0.36	125	42.31	108.9
1097425	7109902	642600	1387	UTM83-8	WHI11001140	0.7	219	7.7	0.17	0.3	193	29.64	88.6
1097426	7109902	642650	1353	UTM83-8	WHI11001189	2.1	233	6.2	0.1	0.38	145	27.95	55.3
1097427	7109899	642699	1341	UTM83-8		0	0	0	0	0	0	0	0
1097428	7109899	642749	1327	UTM83-8	WHI11001189	1.9	568	9.2	0.21	0.62	105	101.86	103.7
1097429	7109898	642796	1322	UTM83-8		0	0	0	0	0	0	0	0
1097430	7109900	642846	1310	UTM83-8	WHI11001189	0.7	396	7.8	0.09	0.47	50	36.32	101.9
1097431	7109903	642898	1294	UTM83-8	WHI11001189	1.3	609	7.8	0.13	0.51	58	60.45	100.8
1097432	7109903	642946	1289	UTM83-8	WHI11001189	0.8	402	11.8	0.12	0.53	70	52.97	83.3
1097433	7109901	643046	1244	UTM83-8	WHI11001140	1	169	7.4	0.1	0.35	55	26.89	76.7
1097434	7109900	643144	1174	UTM83-8	WHI11001140	1.1	528	12.5	0.14	0.47	86	28.5	81.4
1097435	7109401	642148	1531	UTM83-8	WHI11001302	0.7	127	13.1	0.19	0.55	49	70.31	113.1
1097436	7109401	642198	1503	UTM83-8	WHI11001302	1.7	398	7.8	0.12	0.43	68	51.54	69.2
1097437	7109400	642251	1485	UTM83-8	WHI11001302	0.7	114	6.4	0.12	0.34	50	43.62	108
1097438	7109403	642298	1456	UTM83-8	WHI11001302	0.5	145	12	0.12	0.64	62	48.25	80.7
1097439	7109399	642348	1429	UTM83-8	WHI11001302	2	162	10.9	0.08	0.37	55	59.12	119.9
1097440	7109401	642449	1401	UTM83-8	WHI11001302	0.8	126	10.3	0.09	0.43	41	35.64	93.2
1097441	7109401	642500	1372	UTM83-8	WHI11001302	1.5	181	17	0.12	0.5	79	45.62	97.2
1097442	7109398	642548	1345	UTM83-8	WHI11001302	0.8	78	7.9	0.1	0.46	57	29.93	73.8
1097443	7109398	642596	1354	UTM83-8	WHI11001302	0.5	140	7.1	0.08	0.51	134	27.43	71
1097444	7109399	642650	1360	UTM83-8	WHI11001302	0.6	76	8.8	0.09	0.55	140	25.26	77.4
1097445	7109398	642700	1331	UTM83-8	WHI11001140	0.1	85	22.4	0.13	0.43	20	55.99	121.4
1097446	7109402	642748	1300	UTM83-8	WHI11001140	0.1	153	12	0.13	0.57	51	65.77	131.6
1097447	7109398	642798	1262	UTM83-8	WHI11001140	0.4	130	16	0.08	0.67	48	34.34	91.3
1097448	7109398	642898	1204	UTM83-8	WHI11001140	0.3	54	9.3	0.05	0.57	22	22.67	78.9
1097449	7109397	642947	1173	UTM83-8	WHI11001140	1.5	164	6.6	0.05	0.39	100	20.43	85
1097450	7109397	643001	1133	UTM83-8	WHI11001140	0.6	56	8.9	0.08	0.53	79	28.4	73.2
1097451	7110149	642143	1380	UTM83-8	WHI11001140	0.7	121	6.6	0.17	0.28	67	50.92	102.8
1097452	7110143	642254	1430	UTM83-8	WHI11001140	0.5	212	8.5	0.16	0.38	42	35.96	110
1097453	7110146	642295	1452	UTM83-8	WHI11001140	0.9	156	10.9	0.15	0.41	43	26.28	91.6
1097454	7110140	642397	1421	UTM83-8	WHI11001140	0.5	295	9.7	0.15	0.35	77	32.62	120
1097455	7110159	642500		UTM83-8	WHI11001140	0.7	217	8.1	0.13	0.28	50	43.25	102.7
1097456	7110154	642552	1336	UTM83-8	WHI11001140	0.5	262	9.3	0.31	0.3	123	25.83	142.5
1097457	7110162	642657	1270	UTM83-8	WHI11001140	0.4	295	10.5	0.23	0.34	201	39.96	155.6
1097458	7110141	642695	1271	UTM83-8	WHI11001140	1.9	217	8.6	0.14	0.39	146	112.95	73.4
1097459	7110143	642751	1251	UTM83-8	WHI11001140	0	0	0	0	0	0	0	0
1097460	7110145	642848	1190	UTM83-8	WHI11001140	1.8	159	7.5	0.23	0.34	76	60.09	124.6
1097461	7110137	642893	1149	UTM83-8	WHI11001140	1.4	189	6.9	0.15	0.37	85	41.68	116.5
1097462	7110152	642942	1128	UTM83-8	WHI11001140	1.9	435	10.1	0.13	0.46	74	37.36	89.6
1097463	7110159	642998	1128	UTM83-8	WHI11001140	1.7	122	10	0.13	0.36	38	36.17	81
1097464	7110101	642256	1451	UTM83-8	WHI11001140	0.9	181	8.3	0.11	0.35	52	27.03	73.6
1097465	7110104	642293	1462	UTM83-8	WHI11001140	0.7	288	9.6	0.14	0.37	50	42.75	137.1
1097466	7110096	642344	1454	UTM83-8	WHI11001140	0.4	195	6	0.08	0.26	55	22.3	122.4
1097467	7110096	642402	1417	UTM83-8	WHI11001140	0.9	331	8.3	0.19	0.43	26	57.08	97.1
1097468	7110098	642445	1392	UTM83-8	WHI11001140	0	0	0	0	0	0	0	0
1097469	7110106	642491	1382	UTM83-8	WHI11001140	1	336	10.3	0.22	0.36	56	50.82	149
1097470	7110107	642542	1379	UTM83-8	WHI11001140	0.9	266	7.5	0.27	0.24	182	35.37	79.9
1097471	7110095	642847	1190	UTM83-8	WHI11001140	0.9	423	8.3	0.13	0.48	93	55.58	84.7
1097472	7110091	642904	1179	UTM83-8	WHI11001140	1.2	204	9.4	0.18	0.35	42	60.82	82.9
1097473	7110096	642943	1170	UTM83-8	WHI11001140	2.6	295	18.2	0.12	0.79	86	84.39	96.9
1097474	7109597	642149	1633	UTM83-8	WHI11001140	0.3	69	10.1	0.13	0.51	42	44.97	92.3

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1097475	7109604	642195	1629	UTM83-8	WHI11001140	2.3	123	12.3	0.15	0.83	43	53.53	108.5
1097476	7109600	642245	1604	UTM83-8	WHI11001140	0.1	218	14.4	0.14	0.67	37	75.03	107.2
1097477	7109602	642303	1575	UTM83-8	WHI11001140	0.1	240	11.3	0.1	0.49	76	36.55	95.5
1097478	7109604	642339	1548	UTM83-8	WHI11001140	0.1	313	10.7	0.11	0.56	80	40.25	100.1
1097479	7109606	642441	1492	UTM83-8	WHI11001140	0.1	279	14.6	0.14	0.55	61	50.8	119.4
1097480	7109605	642499	1496	UTM83-8	WHI11001140	0.1	151	11.5	0.09	0.58	34	30.25	82.8
1097481	7109601	642545	1472	UTM83-8	WHI11001140	0.1	143	17.1	0.11	1.74	116	30.43	99.8
1097482	7109602	642595	1442	UTM83-8	WHI11001140	0.6	155	6.8	0.11	0.47	45	30.6	130.6
1097483	7109601	642644	1410	UTM83-8	WHI11001140	0.1	235	8.3	0.09	0.59	24	39.2	123.3
1097484	7109598	642694	1370	UTM83-8	WHI11001302	0.1	143	7.3	0.09	0.41	32	24.6	64
1097485	7109598	642746	1345	UTM83-8	WHI11001302	0.1	247	12.3	0.11	0.41	63	28.74	86.9
1097486	7109598	642795	1318	UTM83-8	WHI11001302	0.1	105	9.1	0.1	0.41	22	37.43	87.6
1097487	7109607	642847	1285	UTM83-8	WHI11001302	3.3	133	5.3	0.09	0.35	29	21.94	71.9
1097488	7109605	642901	1271	UTM83-8	WHI11001302	2.6	80	6.4	0.09	0.42	24	19.16	73.9
1097489	7109603	642945	1252	UTM83-8	WHI11001302	1.5	91	8.1	0.12	0.41	31	28.32	69.3
1097490	7109604	643002	1221	UTM83-8	WHI11001302	1.8	121	8.8	0.11	0.52	86	31.84	72.5
1097491	7109607	643206	1096	UTM83-8	WHI11001302	1.8	140	7.2	0.1	0.42	91	22.7	78.4
1097492	7109607	643248	1075	UTM83-8	WHI11001302	2.8	50	2.2	0.09	0.25	79	18.64	54.3
1097493	7109654	642150	1606	UTM83-8	WHI11001302	1.4	172	6.5	0.14	0.5	60	32.7	69.4
1097494	7109650	642200	1604	UTM83-8	WHI11001302	2.5	159	13.5	0.15	0.5	110	48.06	93.8
1097495	7109650	642255	1597	UTM83-8	WHI11001302	1	56	12.3	0.13	0.59	32	54.88	104
1097496	7109651	642296		UTM83-8	WHI11001302	1.4	68	9.2	0.11	0.55	37	49.85	104.6
1097497	7109659	642344	1559	UTM83-8	WHI11001302	1.4	216	13.2	0.14	0.56	92	42.84	88.5
1097498	7109654	642396	1529	UTM83-8	WHI11001302	0.9	214	37.1	0.13	0.91	505	38.52	90.3
1097499	7109653	642446	1525	UTM83-8	WHI11001302	0.8	53	7.9	0.09	0.38	35	36.54	87.9
1097500	7109647	642502	1520	UTM83-8	WHI11001302	0.9	85	41.9	0.13	1.07	68	70.32	125.9
1097501	7108002	641848	1193	UTM83-8	WHI11001189	1	45	10.7	0.11	0.71	51	23.74	59.1
1097502	7108001	641895	1161	UTM83-8	WHI11001189	0.7	120	9.6	0.08	0.5	57	19.75	53.7
1097503	7107999	641948	1129	UTM83-8	WHI11001189	0.4	42	10.3	0.1	0.44	64	24.31	73.2
1097504	7108000	641997	1111	UTM83-8	WHI11001189	0.8	113	8.3	0.08	0.31	74	27.3	76
1097505	7108003	642047	1086	UTM83-8	WHI11001189	2.4	186	17.2	0.09	1.11	209	39.45	58.4
1097506	7107998	642100	1058	UTM83-8	WHI11001189	0.1	50	8.9	0.06	0.36	33	24.9	69.7
1097507	7108000	642147	1041	UTM83-8	WHI11001189	0.9	138	6.5	0.09	0.34	117	16.93	54.5
1097508	7108003	641550	1270	UTM83-8	WHI11001189	0.1	37	15	0.04	0.49	22	14.91	36.6
1097509	7107999	641499	1239	UTM83-8	WHI11001189	1.4	122	19.6	0.1	1.18	149	32.65	50.5
1097510	7107999	641450	1203	UTM83-8	WHI11001189	1.7	121	12.1	0.07	0.6	71	21.73	43.8
1097511	7108000	641399	1175	UTM83-8	WHI11001189	0.3	35	13.3	0.11	0.61	36	22.14	73.1
1097512	7108002	641351	1150	UTM83-8	WHI11001189	0.8	94	16.7	0.12	0.9	107	33.25	76.3
1097513	7108000	641300	1129	UTM83-8	WHI11001189	2	153	13.6	0.08	0.55	126	26.31	60.5
1097514	7108001	641251	1098	UTM83-8	WHI11001189	1	86	12.3	0.1	0.55	94	36.85	86.6
1097515	7108001	641199	1075	UTM83-8	WHI11001189	1.3	119	11	0.07	0.55	172	24.38	80.2
1097516	7107900	641599	1281	UTM83-8	WHI11001189	1.2	244	28.8	0.13	3.69	710	53.35	338.7
1097517	7107849	641599	1265	UTM83-8	WHI11001189	0.6	122	12.2	0.12	0.84	102	28.18	66.4
1097518	7107902	641546	1255	UTM83-8	WHI11001189	1.2	81	17.7	0.13	1.17	123	31.81	60.9
1097519	7107852	641549	1243	UTM83-8	WHI11001189	0.6	87	14.5	0.11	0.95	109	28.51	94.1
1097520	7107900	641498	1231	UTM83-8	WHI11001189	0.3	33	15.8	0.04	0.47	25	13.12	35.2
1097521	7107852	641497	1215	UTM83-8	WHI11001189	0.1	15	12.2	0.06	0.67	20	16.43	48.1
1097522	7107899	641449	1198	UTM83-8	WHI11001189	0.8	36	13	0.06	0.68	33	18.01	47
1097523	7107851	641449	1191	UTM83-8	WHI11001189	1.1	94	16.1	0.1	0.68	71	21.68	55.7
1097524	7107900	641397	1170	UTM83-8	WHI11001189	2.7	108	22.3	0.1	0.99	98	29.09	70.7
1097525	7107849	641397	1164	UTM83-8	WHI11001189	2.5	85	25.1	0.11	0.95	110	30.76	66.7
1097526	7107899	641351	1140	UTM83-8	WHI11001189	1.5	76	19	0.1	0.66	47	21.98	76.7
1097527	7107852	641347	1135	UTM83-8	WHI11001189	0.2	30	15.6	0.08	0.49	28	21.43	64
1097528	7107899	641299	1125	UTM83-8	WHI11001189	0.5	82	13.7	0.1	0.56	76	25.75	73.2
1097529	7107853	641299	1115	UTM83-8	WHI11001189	1.6	108	14	0.08	0.56	127	24.74	66.1
1097530	7107901	641250	1101	UTM83-8	WHI11001189	0.5	69	9.5	0.09	0.44	93	25.81	79.3
1097531	7107851	641248	1096	UTM83-8	WHI11001189	1	97	12.9	0.08	0.62	106	26.66	70.4
1097532	7107851	641198	1071	UTM83-8	WHI11001189	5.6	211	23.1	0.08	1.59	160	43	80
1097533	7107904	641197	1074	UTM83-8	WHI11001189	0.7	68	12.4	0.08	0.51	73	26.85	109.2
1097534	7107902	641646	1267	UTM83-8	WHI11001189	0.6	156	10.7	0.7	1.11	119	35.88	89.8
1097535	7107852	641647	1263	UTM83-8	WHI11001189	3.5	83	16	0.15	1.23	69	35.97	95
1097536	7107901	641701	1234	UTM83-8	WHI11001189	3.3	148	35.7	0.15	2.44	149	36.62	153.5

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1097537	7107851	641700	1225	UTM83-8	WHI11001189	1.6	120	23.8	0.13	1.9	137	40.64	278.3
1097538	7107897	641748	1201	UTM83-8	WHI11001189	14.7	398	18	0.19	3.85	12708	65.91	9790.4
1097539	7107852	641748	1199	UTM83-8	WHI11001189	24.4	210	34.1	0.14	2.7	417	38.76	105.1
1097540	7107898	641801	1183	UTM83-8	WHI11001189	0.8	75	10.5	0.11	0.73	114	22.47	91.8
1097541	7107851	641796	1167	UTM83-8	WHI11001189	9	208	32.2	0.1	2.28	421	31.57	319.3
1097542	7107898	641848	1154	UTM83-8	WHI11001189	2.5	138	24.3	0.15	0.91	205	33.53	87.6
1097543	7107851	641847	1144	UTM83-8	WHI11001189	0.9	51	14.4	0.12	0.86	131	31.42	91
1097544	7107900	641897	1134	UTM83-8	WHI11001189	3.2	91	39.3	0.18	0.96	194	30.31	67.9
1097545	7107853	641899	1120	UTM83-8	WHI11001189	0.8	73	12.8	0.13	0.64	71	27.07	65.2
1097546	7107899	641948	1111	UTM83-8	WHI11001189	9	132	18.1	0.12	1.38	236	20.93	19.1
1097547	7107852	641947	1090	UTM83-8	WHI11001189	5.1	144	25.6	0.16	1.33	110	34.18	74.4
1097548	7107898	641997	1081	UTM83-8	WHI11001189	1.2	95	14.5	0.16	0.58	153	35.05	83.2
1097549	7107849	641997	1062	UTM83-8	WHI11001189	0.4	82	14.7	0.14	0.73	101	25.54	77
1097550	7107896	642047	1059	UTM83-8	WHI11001189	1	40	19.1	0.1	1.12	57	38.8	52.9
1097575	7108647	634803	1403	UTM83-8	WHI11001192	4	207	10.3	0.17	0.71	57	40.14	81.2
1097576	7108602	634795	1370	UTM83-8	WHI11001192	1.3	152	13.1	0.14	0.8	37	42.11	92.6
1097577	7108557	634800	1333	UTM83-8	WHI11001192	2.2	298	20.2	0.42	0.79	97	114.02	63.3
1097578	7108506	634795	1294	UTM83-8	WHI11001192	1.4	188	28.8	0.19	0.88	39	175.35	337.8
1097579	7108447	634796	1265	UTM83-8	WHI11001192	1.4	174	11.1	0.16	0.47	47	38.49	120.8
1097580	7108404	634803	1272	UTM83-8	WHI11001192	2.7	75	8	0.17	0.54	75	30.96	119.7
1097581	7108348	634794	1287	UTM83-8	WHI11001192	1.1	24	8.3	0.13	0.89	35	28.76	100.9
1097582	7108299	634797	1267	UTM83-8	WHI11001192	1.4	71	4.2	0.11	0.43	53	33.08	166.6
1097583	7108251	634799	1251	UTM83-8	WHI11001192	1.8	207	8.7	0.09	0.76	232	30.23	78.6
1097584	7108199	634796	1264	UTM83-8	WHI11001192	0.6	205	6.9	0.06	0.66	157	30.93	73.2
1097585	7108152	634799	1273	UTM83-8	WHI11001192	0.9	87	10	0.14	0.9	69	36.63	70.4
1097586	7108104	634799	1279	UTM83-8	WHI11001192	0.4	107	8	0.1	0.57	32	27.34	75.9
1097587	7108054	634799	1287	UTM83-8	WHI11001192	0.7	76	9.9	0.13	0.64	280	34.57	256.3
1097588	7107995	634790	1272	UTM83-8	WHI11001192	1	142	10.4	0.1	0.79	145	28.58	98.6
1097589	7107953	634801	1270	UTM83-8	WHI11001192	0.4	88	9	0.12	0.52	82	21.14	83.6
1097590	7107902	634791	1282	UTM83-8	WHI11001192	0.8	120	10.5	0.13	0.96	173	27.57	58.7
1097591	7107853	634797	1286	UTM83-8	WHI11001192	1.5	119	20.5	0.15	1.74	170	30.32	132.9
1097592	7107803	634800	1258	UTM83-8	WHI11001192	0.1	22	2.6	0.11	0.29	20	6.87	23.4
1097593	7107746	634798	1220	UTM83-8	WHI11001192	0.4	45	5.4	0.09	0.28	28	11.72	36
1097594	7107705	634802	1206	UTM83-8	WHI11001192	0.6	61	11.7	0.1	0.73	23	18.79	86.6
1097595	7107654	634798	1193	UTM83-8	WHI11001192	0.5	96	5.4	0.14	0.38	20	18.49	67.9
1097596	7107605	634800	1184	UTM83-8	WHI11001192	0.6	147	5.8	0.16	0.46	43	24.8	68.8
1097607	7107748	634597	1308	UTM83-8	WHI11001349	0.7	114	11.9	0.13	0.6	66	29.07	62.6
1097608	7107657	634598	1213	UTM83-8	WHI11001349	2.9	37	5.5	0.13	0.48	44	17.75	57.3
1097609	7108609	634897	1388	UTM83-8	WHI11001349	1.1	101	7.8	0.08	0.48	24	34.2	80.3
1097610	7108504	634896	1320	UTM83-8	WHI11001349	0.9	136	8.5	0.06	0.52	24	30.39	97
1097611	7108405	634886	1249	UTM83-8	WHI11001349	1	50	5.4	0.15	0.23	14	27.82	109.3
1097612	7108298	634902	1203	UTM83-8	WHI11001349	1.1	108	8.7	0.09	0.43	54	31.42	126.8
1097613	7108204	634904	1212	UTM83-8	WHI11001349	0.9	97	7.2	0.05	0.56	67	18.39	60.9
1097614	7108093	634901	1235	UTM83-8	WHI11001349	2	71	10.3	0.08	0.82	69	23.74	77.8
1097615	7107997	634892	1228	UTM83-8	WHI11001349	1.2	91	8.8	0.06	0.61	84	22.62	82.1
1097616	7107903	634894	1232	UTM83-8	WHI11001349	1.3	133	8.9	0.08	0.69	58	15.7	64
1097617	7107808	634896	1231	UTM83-8	WHI11001349	0.9	50	8.5	0.07	0.51	28	15.91	53.3
1097618	7107705	634895	1190	UTM83-8	WHI11001349	0.6	73	3.4	0.1	0.19	15	15.86	77.3
1097619	7107600	634901	1134	UTM83-8	WHI11001349	1.5	90	4.9	0.09	0.26	53	19.31	90.5
1097620	7108658	636991	1039	UTM83-8	WHI11001349	0.4	125	7.5	0.07	0.3	26	24.64	74
1097621	7108651	637097	1011	UTM83-8	WHI11001349	0.9	168	7.5	0.13	0.29	92	26.63	122.4
1097622	7108602	637105	999	UTM83-8	WHI11001349	1.4	125	5.6	0.08	0.24	51	23.8	72.4
1097623	7108601	637004	1019	UTM83-8	WHI11001349	0.5	125	6.6	0.06	0.29	27	21.19	78.9
1097624	7108598	636901	1029	UTM83-8	WHI11001349	1.1	106	8	0.07	0.37	35	24.24	71.7
1097625	7108553	636898	1018	UTM83-8	WHI11001349	1.1	116	7.7	0.07	0.36	42	23.18	67.2
1097626	7108503	636906	1008	UTM83-8	WHI11001349	0.9	140	5.9	0.07	0.29	66	20.51	96
1097627	7108449	636906	999	UTM83-8	WHI11001349	1.2	134	9.2	0.1	0.45	74	24.17	92.1
1097628	7108413	636896	989	UTM83-8	WHI11001349	1.5	113	8.2	0.06	0.37	70	19.94	150.7
1097629	7108405	636994	977	UTM83-8	WHI11001349	0.3	37	7	0.07	0.33	31	26.88	60.4
1097630	7108443	636998	945	UTM83-8	WHI11001349	0.4	55	6.5	0.08	0.3	2	31.19	140.1
1097631	7108499	637005	976	UTM83-8	WHI11001349	0.1	115	7	0.11	0.2	17	28.19	90.2
1097632	7108548	636996	970	UTM83-8	WHI11001349	0.1	170	7.7	0.07	0.28	32	28.6	107.7

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1097633	7108546	637094	964	UTM83-8	WHI11001350	3.8	80	6.3	0.08	0.69	24	29.07	96
1097634	7107752	637600	1407	UTM83-8	WHI11001350	0.9	59	1.7	0.15	0.22	50	28.07	82.1
1097635	7107849	637595	1354	UTM83-8	WHI11001350	0.6	47	4.8	0.15	0.42	25	57.92	74.5
1097636	7107946	637602	1312	UTM83-8	WHI11001350	0.6	118	6.2	0.16	0.27	71	82.49	94.1
1097637	7108149	637606	1275	UTM83-8	WHI11001350	0.1	96	15.3	0.19	1.92	975	54.81	1427.6
1097638	7108346	637601	1177	UTM83-8	WHI11001350	0.1	126	6.8	0.1	0.31	66	16.1	66.6
1097639	7108449	637601	1132	UTM83-8	WHI11001350	1.8	161	6.7	0.09	0.29	110	18.86	85.3
1097640	7108551	637598	1092	UTM83-8	WHI11001350	3.9	143	8.8	0.08	0.32	58	19.92	74.4
1097641	7108643	637596	1053	UTM83-8	WHI11001350	1.3	164	8.2	0.1	0.47	103	23.5	88.7
1097642	7107655	637600	1373	UTM83-8	WHI11001350	0.1	105	6.4	0.15	0.25	29	71.53	100.6
1097643	7107550	637600	1419	UTM83-8	WHI11001350	0.1	90	4	0.12	0.28	44	30.4	99.3
1097644	7107451	637600	1426	UTM83-8	WHI11001350	0.1	44	6.6	0.13	0.48	42	27.89	100.6
1097645	7107351	637599	1408	UTM83-8	WHI11001350	0.1	57	7	0.15	0.43	42	40.74	104
1097646	7107349	637700	1397	UTM83-8	WHI11001350	0.1	15	1.4	0.16	0.14	18	11.4	74.5
1097647	7107445	637698	1423	UTM83-8	WHI11001350	0.1	99	9.3	0.17	0.77	45	22.53	106.3
1097648	7107550	637698	1456	UTM83-8	WHI11001350	0.5	48	5.4	0.24	0.33	37	49.92	96.4
1097649	7107645	637701	1427	UTM83-8	WHI11001350	0.1	57	7.7	0.13	0.46	40	53.3	100.5
1097650	7107751	637696	1423	UTM83-8	WHI11001350	0.1	29	6.2	0.1	0.28	17	44.65	94.1
1097651	7107351	637399	1383	UTM83-8	WHI11001350	0.2	46	4.6	0.14	0.28	38	22.73	87.8
1097652	7107396	637397	1383	UTM83-8	WHI11001350	0.1	49	3.8	0.12	0.21	31	47.27	86.2
1097653	7107451	637396	1369	UTM83-8	WHI11001350	0.1	89	6	0.2	0.26	25	52.36	100.4
1097654	7107501	637401	1362	UTM83-8	WHI11001350	0.1	97	3.1	0.19	0.13	20	64.89	106
1097655	7107548	637399	1324	UTM83-8	WHI11001350	0.8	81	8.7	0.22	0.41	38	68.01	91.6
1097656	7107594	637399	1287	UTM83-8	WHI11001350	0.5	219	5.7	0.19	0.28	53	67.34	93.3
1097657	7107647	637402	1282	UTM83-8	WHI11001350	0.1	26	6.2	0.11	0.25	15	25.11	79.7
1097658	7107698	637401	1279	UTM83-8	WHI11001350	0.1	64	4.9	0.11	0.24	30	31.82	80.3
1097659	7107750	637399	1245	UTM83-8	WHI11001350	0.1	84	4.6	0.13	0.33	40	21.19	69.3
1097660	7107800	637397	1235	UTM83-8	WHI11001350	0.1	84	5.6	0.1	0.36	30	24.04	68.9
1097661	7107847	637396	1242	UTM83-8	WHI11001356	0.1	111	8.5	0.12	0.94	28	18.89	59.3
1097662	7108000	637399		UTM83-8	WHI11001356	1.1	140	4.8	0.11	0.39	40	28.79	73.5
1097663	7108053	637404	1187	UTM83-8	WHI11001356	0.2	84	2.4	0.11	0.18	38	29.45	85
1097664	7108099	637399	1169	UTM83-8	WHI11001356	1.3	112	5.9	0.1	0.5	78	30.33	37.5
1097665	7108151	637398	1137	UTM83-8	WHI11001356	3	163	16.1	0.11	1.88	172	26.53	115.7
1097666	7108198	637397	1126	UTM83-8	WHI11001356	1.7	134	13.2	0.11	1.56	117	29.39	127.9
1097667	7108303	637400	1104	UTM83-8	WHI11001356	1.3	153	12.3	0.1	1.31	133	34.63	92.8
1097668	7108348	637399	1091	UTM83-8	WHI11001356	0.6	104	7.2	0.21	0.24	45	43.54	158.4
1097669	7108397	637402	1071	UTM83-8	WHI11001356	0.7	326	6.8	0.18	0.28	129	35.38	144
1097670	7108496	637401	1032	UTM83-8	WHI11001356	0.7	162	7.7	0.09	0.3	64	26.93	104.3
1097671	7108595	637397	1013	UTM83-8	WHI11001356	1.4	132	5.9	0.08	0.18	74	27.12	109
1097672	7108642	637397	1009	UTM83-8	WHI11001356	2.9	110	9.9	0.1	0.7	101	23.19	98.1
1097673	7108649	639197	1684	UTM83-8	WHI11001356	0.8	282	13.1	0.41	0.29	40	63.74	135.8
1097674	7108604	639199	1670	UTM83-8	WHI11001356	0.9	268	10	0.16	0.27	82	50.22	130.7
1097675	7108557	639198	1655	UTM83-8	WHI11001356	0.7	203	8.1	0.27	0.31	44	53.04	295.8
1097676	7108503	639196	1635	UTM83-8	WHI11001356	0.8	196	9.2	0.15	0.37	60	33.15	132.8
1097677	7108452	639198	1603	UTM83-8	WHI11001356	0.4	106	6.9	0.19	0.21	19	29.02	116.3
1097678	7108399	639202	1572	UTM83-8	WHI11001356	1.9	227	34.3	0.13	2.8	308	44.04	484.9
1097679	7108355	639198	1543	UTM83-8	WHI11001356	2.6	196	14.5	0.13	1.13	140	27.72	90.2
1097680	7108304	639203	1521	UTM83-8	WHI11001356	0.3	22	2.9	0.02	0.24	30	4.01	8.6
1097681	7108251	639198	1483	UTM83-8	WHI11001356	3.4	124	27.5	0.25	2.52	117	23.55	73.3
1097682	7108200	639200	1450	UTM83-8	WHI11001356	3.9	195	12.1	0.12	1	95	25.39	75.1
1097683	7108148	639200	1421	UTM83-8	WHI11001356	10.4	192	22	0.11	1.84	233	29.16	95.7
1097684	7108103	639197	1384	UTM83-8	WHI11001356	1.4	130	9.8	0.12	0.7	63	36.96	148.7
1097685	7108053	639198	1379	UTM83-8	WHI11001356	2.1	72	10.4	0.15	0.51	45	54.66	85.5
1097686	7108001	639201	1385	UTM83-8	WHI11001356	1.1	25	2	0.12	0.19	8	18.58	77.1
1097687	7107955	639198	1384	UTM83-8	WHI11001356	1.2	98	3.9	0.18	0.4	48	64.52	74.2
1097688	7107900	639204	1401	UTM83-8	WHI11001356	1.9	83	9.7	0.23	0.3	37	108.86	94.8
1097689	7107855	639197	1406	UTM83-8	WHI11001356	0.9	48	7.9	0.13	0.28	52	44.63	67
1097690	7107802	639197	1391	UTM83-8	WHI11001356	2.1	34	1.9	0.16	0.12	17	23.64	84.1
1097691	7107750	639196	1362	UTM83-8	WHI11001356	0.5	141	3.9	0.12	0.4	37	18.56	103.5
1097692	7107705	639204	1352	UTM83-8	WHI11001356	2.2	49	7.3	0.13	0.54	30	17.87	77.7
1097693	7107655	639203	1357	UTM83-8	WHI11001356	1.5	95	6.5	0.1	0.29	39	40.92	81.5
1097694	7107598	639204	1373	UTM83-8	WHI11001356	1.6	45	6.4	0.12	0.2	43	57.98	96.2

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1097695	7107555	639193	1379	UTM83-8	WHI11001356	1.2	40	7.4	0.14	0.25	47	66.3	90.7
1097696	7107501	639196	1342	UTM83-8	WHI11001356	1	274	6.2	0.1	0.19	29	46.82	86.7
1097697	7107455	639198	1308	UTM83-8	WHI11001356	0.8	528	6.3	0.11	0.28	32	37.93	100.3
1097698	7107404	639199	1274	UTM83-8	WHI11001356	1	83	5.5	0.11	0.21	33	34.78	92.9
1097699	7108651	639297	1597	UTM83-8	WHI11001351	0.7	224	9.2	0.29	0.35	41	51.08	189.2
1097700	7108602	639299	1594	UTM83-8	WHI11001351	0.5	128	8	0.23	0.34	50	81.08	74.8
1097701	7107703	641349	1100	UTM83-8	WHI11001189	1.1	77	17.1	0.12	0.82	62	26.58	60.9
1097702	7107701	641401	1125	UTM83-8	WHI11001189	2	34	13.5	0.08	0.63	51	18.57	66.8
1097703	7107700	641448	1149	UTM83-8	WHI11001189	0.5	27	18.5	0.11	0.74	67	25.1	65.4
1097704	7107702	641496	1173	UTM83-8	WHI11001189	0.9	62	15.9	0.14	1.11	93	36.36	69.4
1097705	7107652	641500	1149	UTM83-8	WHI11001189	0.1	95	12.3	0.15	0.64	68	27.69	65.1
1097706	7107652	641546	1163	UTM83-8	WHI11001189	1.6	78	18.7	0.14	1.08	159	35.42	115.7
1097707	7107702	641550	1190	UTM83-8	WHI11001189	1.3	121	17.2	0.12	1.01	394	31.2	129.2
1097708	7107700	641597	1192	UTM83-8	WHI11001189	1.7	104	19.9	0.14	1.25	90	37.87	95.8
1097709	7107700	641648	1178	UTM83-8	WHI11001189	1	152	18.9	0.09	1.31	114	31.41	96.1
1097710	7107653	641649	1143	UTM83-8	WHI11001189	2	139	97.2	0.11	1.94	201	35.82	1399.3
1097711	7107651	641600	1158	UTM83-8	WHI11001189	2.1	203	18.7	0.12	1.1	146	34.34	83.6
1097712	7107603	641650	1114	UTM83-8	WHI11001189	1	85	19.9	0.1	1.15	90	34.94	88.6
1097713	7107605	641697	1093	UTM83-8	WHI11001189	1.7	127	21.5	0.13	0.86	314	39.76	187.6
1097714	7107647	641698	1127	UTM83-8	WHI11001189	0.6	108	17.3	0.09	0.84	79	31.51	117.3
1097715	7107701	641698	1163	UTM83-8	WHI11001189	0.6	127	26.6	0.11	1.62	63	46.05	88.3
1097716	7107702	641749	1136	UTM83-8	WHI11001189	3.5	236	69.9	0.16	3.88	187	54.96	172.9
1097717	7107703	641796	1116	UTM83-8	WHI11001189	1.3	92	22.9	0.12	1.25	88	34.45	94.8
1097718	7107647	641752	1091	UTM83-8	WHI11001189	1.6	343	34.7	0.1	3.98	318	56.78	91
1097719	7107605	641754	1068	UTM83-8	WHI11001189	0.8	84	21.7	0.14	0.88	110	35.01	100.5
1097720	7107602	641798	1053	UTM83-8	WHI11001189	0.8	117	23.6	0.07	1.92	126	31.07	267.6
1097721	7107555	641804	1028	UTM83-8	WHI11001189	0.1	47	11.2	0.12	0.81	58	21.53	152.6
1097722	7107552	641850	1017	UTM83-8	WHI11001189	1.3	171	10.7	0.08	0.5	149	22.97	86.6
1097723	7107599	641848	1039	UTM83-8	WHI11001189	0.1	44	13.5	0.14	0.64	71	24.37	85.9
1097724	7107603	641900	1021	UTM83-8	WHI11001189	0.4	90	10.4	0.11	0.45	53	20.96	73.5
1097725	7107656	641897	1041	UTM83-8	WHI11001189	0.7	71	10.9	0.11	0.38	76	20.97	67.9
1097726	7107650	641853	1056	UTM83-8	WHI11001189	0.1	107	7.7	0.1	0.35	59	20.1	61.8
1097727	7107697	641844	1088	UTM83-8	WHI11001189	0.7	37	9.8	0.16	0.36	59	22	69.8
1097728	7107702	641894	1062	UTM83-8	WHI11001189	0.6	104	8.1	0.12	0.27	40	22.69	75.2
1097729	7107701	641947	1032	UTM83-8	WHI11001189	0.1	73	10.3	0.16	0.32	72	23.4	83.1
1097730	7107655	641949	1014	UTM83-8	WHI11001189	0.1	108	10.6	0.13	0.35	103	23.73	84.4
1097731	7108651	631697	994	UTM83-8	WHI11001190	2.6	98	10.3	0.14	0.44	253	28.13	86.4
1097732	7108603	631700	997	UTM83-8	WHI11001190	2	94	8.6	0.1	0.33	210	27.97	102.1
1097733	7108549	631703	997	UTM83-8	WHI11001190	1.3	79	13.6	0.12	0.31	71	20.9	86.4
1097734	7108501	631704	999	UTM83-8	WHI11001190	1.3	108	9.1	0.12	0.29	87	25.03	138.7
1097735	7108450	631696	988	UTM83-8	WHI11001190	1.6	83	10.1	0.11	0.27	75	34.8	160.6
1097736	7108399	631694	979	UTM83-8	WHI11001190	0.7	79	2.1	0.05	0.21	99	8.97	53
1097737	7108350	631696	976	UTM83-8	WHI11001190	2.7	122	9	0.13	0.34	174	23.06	88.3
1097738	7108298	631699	971	UTM83-8	WHI11001190	2.4	83	5.3	0.12	0.36	140	17.82	80.7
1097739	7108255	631701	970	UTM83-8	WHI11001190	3	79	2.7	0.14	0.31	120	11.22	74.2
1097740	7108198	631698	963	UTM83-8	WHI11001190	3.8	90	3.1	0.14	0.5	323	14.54	83.3
1097741	7108153	631698	964	UTM83-8	WHI11001190	2.9	101	4.6	0.1	0.36	179	16.53	73.4
1097742	7108102	631699	969	UTM83-8	WHI11001190	2.7	80	6.6	0.11	0.38	153	19.65	91.3
1097743	7108053	631699	968	UTM83-8	WHI11001190	4.2	80	5.9	0.1	0.36	221	17.16	76.5
1097744	7108001	631704	969	UTM83-8	WHI11001190	2.2	71	7.5	0.11	0.35	125	20.37	66.9
1097745	7107957	631700	967	UTM83-8	WHI11001190	1.4	94	5.9	0.08	0.35	162	18.28	85.2
1097746	7107897	631697	975	UTM83-8	WHI11001190	1.1	89	7.4	0.08	0.38	138	23.62	111.5
1097747	7107851	631700	977	UTM83-8	WHI11001190	1.6	129	7.3	0.1	0.43	206	17.02	90
1097748	7107803	631696	986	UTM83-8	WHI11001190	2.6	154	7.8	0.1	0.49	257	18.36	78.1
1097749	7107751	631701	1000	UTM83-8	WHI11001190	1	125	6.8	0.09	0.38	168	18.1	47.9
1097750	7107702	631700	1003	UTM83-8	WHI11001190	1.4	107	12	0.09	0.67	140	19.37	63.4
1097751	7108651	640998	1258	UTM83-8	WHI11001189	5.5	201	17.3	0.12	0.9	108	34.15	71.9
1097752	7108603	640993	1239	UTM83-8	WHI11001189	2.4	126	10.8	0.09	0.65	124	18.22	42.6
1097753	7108551	641000	1240	UTM83-8	WHI11001189	3.2	96	10.3	0.06	0.53	72	15.44	35
1097754	7108506	641003	1237	UTM83-8	WHI11001189	1.7	152	16.1	0.11	0.91	135	20.72	70.7
1097755	7108453	640999	1244	UTM83-8	WHI11001189	1.8	58	10.8	0.08	0.66	42	11.55	16.9
1097756	7108404	640995	1240	UTM83-8	WHI11001189	3.3	119	19.3	0.15	1.45	73	32.71	79.3

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1097757	7108349	640992	1226	UTM83-8	WHI11001189	2.5	159	27.3	0.14	2.43	130	48.14	120
1097758	7108304	640994	1204	UTM83-8	WHI11001189	1.6	194	29.1	0.18	2.43	86	52.79	61
1097759	7108255	640992	1147	UTM83-8	WHI11001189	0.9	89	12.4	0.12	0.68	76	23.42	55.5
1097760	7108204	640994	1147	UTM83-8	WHI11001189	0.4	67	17.4	0.14	0.76	82	27.67	55.2
1097761	7108153	641002	1127	UTM83-8	WHI11001189	1	43	6.4	0.1	0.33	15	15.88	66.9
1097762	7108105	640998	1105	UTM83-8	WHI11001189	1.9	177	12.6	0.11	0.66	71	27.49	81.9
1097763	7108054	640997	1094	UTM83-8	WHI11001189	4	44	14.5	0.08	0.85	86	16.02	40.5
1097764	7107998	640998	1089	UTM83-8	WHI11001189	2.1	82	9.6	0.09	0.48	101	26.86	100.8
1097765	7107944	640992	1082	UTM83-8	WHI11001189	1.4	52	7.2	0.09	0.28	44	34.11	89.8
1097766	7107901	640989	1079	UTM83-8	WHI11001189	1.4	146	6.4	0.1	0.23	62	28.73	70.8
1097767	7107860	640995	1073	UTM83-8	WHI11001189	1.6	72	7.3	0.11	0.26	42	33.26	88.9
1097768	7107807	641003	1079	UTM83-8	WHI11001189	1.1	83	9	0.15	0.25	26	25.09	89.1
1097769	7107757	641001	1086	UTM83-8	WHI11001189	0.8	82	8.7	0.11	0.41	51	28.29	79.1
1097770	7107747	641099	1015	UTM83-8	WHI11001189	1.6	133	10.9	0.12	0.57	156	28.3	90.8
1097771	7107812	641104	1033	UTM83-8	WHI11001189	1.4	97	11.6	0.08	0.58	122	21.99	79.6
1097772	7107848	641101	1041	UTM83-8	WHI11001189	1.2	109	10.1	0.08	0.53	129	21.52	77.6
1097773	7107894	641096	1050	UTM83-8	WHI11001189	2.2	93	10.8	0.1	0.59	82	20.94	63.1
1097774	7107952	641094	1059	UTM83-8	WHI11001189	3.8	64	16.8	0.1	0.99	119	19.79	56
1097775	7108001	641094	1063	UTM83-8	WHI11001189	3.4	49	14.5	0.08	0.78	95	18.89	49
1097776	7108049	641093	1070	UTM83-8	WHI11001189	1.6	97	9.4	0.11	0.47	83	23.21	72.4
1097777	7108652	641093	1187	UTM83-8	WHI11001189	3.1	198	17	0.12	0.85	90	38.17	99.3
1097778	7108606	641098	1173	UTM83-8	WHI11001189	1.9	110	13.3	0.07	1	110	19.25	53.9
1097779	7108553	641107	1167	UTM83-8	WHI11001189	2.2	124	15.1	0.11	0.89	76	29.78	67.1
1097780	7108504	641100	1164	UTM83-8	WHI11001189	0	0	0	0	0	0	0	0
1097781	7108452	641103	1158	UTM83-8	WHI11001189	4.1	84	14.7	0.09	1.2	106	19	47.4
1097782	7108405	641106	1151	UTM83-8	WHI11001189	1.1	139	11.1	0.08	0.46	73	23.32	68.1
1097783	7108351	641101	1142	UTM83-8	WHI11001189	1.3	104	11.4	0.11	0.57	66	29.36	109
1097784	7108304	641109	1120	UTM83-8	WHI11001189	2.1	114	12.9	0.17	0.88	86	20.21	166.7
1097785	7108255	641100	1112	UTM83-8	WHI11001189	1.7	96	13.3	0.15	0.83	46	23.92	62.9
1097786	7108205	641095	1093	UTM83-8	WHI11001189	1.9	39	12.7	0.16	0.7	48	29.4	78.7
1097787	7108156	641099	1072	UTM83-8	WHI11001189	2.6	71	18.6	0.11	0.59	186	28.92	72.6
1097788	7108656	631803	1018	UTM83-8	WHI11001190	4.2	92	8.5	0.13	0.41	263	25.13	117.3
1097789	7108598	631795	1017	UTM83-8	WHI11001190	1.3	120	15.9	0.16	0.38	136	44.61	194.3
1097791	7108552	631792	1036	UTM83-8	WHI11001190	0.8	101	14.5	0.17	0.29	102	24.55	76.1
1097792	7108502	631794	1036	UTM83-8	WHI11001190	1.5	80	13.9	0.14	0.36	113	43.09	144
1097793	7108452	631797	1026	UTM83-8	WHI11001190	0.9	99	11.2	0.18	0.22	95	19.96	64.2
1097794	7108406	631795	1020	UTM83-8	WHI11001190	0.8	86	10.4	0.09	0.37	86	16.8	95.8
1097795	7108351	631795	1016	UTM83-8	WHI11001190	2.3	134	9.1	0.09	0.33	159	22.73	104.1
1097796	7108303	631795	1012	UTM83-8	WHI11001190	2.3	97	3.1	0.16	0.26	163	16.44	88.5
1097797	7108254	631796	1015	UTM83-8	WHI11001190	1.9	50	3.1	0.15	0.22	72	23.96	90.4
1097798	7108203	631798	1024	UTM83-8	WHI11001190	2.2	97	4.1	0.1	0.34	301	14.12	62.6
1097799	7108045	631801	1032	UTM83-8	WHI11001190	2.1	45	9.7	0.14	0.39	86	23.49	72.4
1097800	7108005	631802	1023	UTM83-8	WHI11001190	1	58	10	0.1	0.44	85	16.49	61.1
1097801	7107801	641252	1082	UTM83-8	WHI11001189	0.1	47	10.3	0.16	0.63	102	27.78	67.8
1097802	7107752	641247	1063	UTM83-8	WHI11001189	0.9	40	17.7	0.15	0.75	71	27.28	82.7
1097803	7107752	641198	1044	UTM83-8	WHI11001189	1.8	87	10.8	0.13	0.5	163	32.18	86
1097804	7107799	641193	1056	UTM83-8	WHI11001189	0.4	64	11	0.12	0.48	74	27.64	85.2
1097805	7107801	641595	1244	UTM83-8	WHI11001189	0.6	46	12	0.16	0.85	50	28.6	67.2
1097806	7107749	641597	1221	UTM83-8	WHI11001189	0.1	102	15.3	0.05	1.19	54	40.91	67.1
1097807	7107752	641647	1208	UTM83-8	WHI11001189	0.7	76	19.7	0.16	1.16	244	36.1	461
1097808	7107798	641648	1235	UTM83-8	WHI11001189	0.4	59	11	0.11	1.22	44	32.65	60.6
1097809	7107802	641700	1215	UTM83-8	WHI11001189	4.7	364	38.5	0.2	3.74	687	57.63	185.9
1097810	7107751	641698	1190	UTM83-8	WHI11001189	0.2	76	36.2	0.16	1.28	56	42.94	184.8
1097811	7107803	641747	1184	UTM83-8	WHI11001189	0.5	120	21.5	0.14	1.35	75	35.14	126.7
1097812	7107748	641749	1168	UTM83-8	WHI11001189	0.6	89	19.7	0.13	1.26	58	34.87	105.2
1097813	7107799	641798	1150	UTM83-8	WHI11001189	7	176	54	0.2	4.97	293	44.91	249.7
1097814	7107752	641800	1136	UTM83-8	WHI11001189	0.5	120	15.3	0.14	0.79	135	34.04	99.8
1097815	7107800	641851	1118	UTM83-8	WHI11001189	0.7	136	10.9	0.13	0.6	176	29.57	109.7
1097816	7107752	641851	1102	UTM83-8	WHI11001189	0.2	51	13.5	0.13	0.74	37	30.55	94.1
1097817	7107801	641902	1089	UTM83-8	WHI11001189	1.9	86	34.1	0.19	1.62	90	41.97	119.2
1097818	7107751	641899	1073	UTM83-8	WHI11001189	0.1	89	9.3	0.13	0.53	42	27.8	70.7
1097819	7107802	641953	1060	UTM83-8	WHI11001189	0.6	50	13.7	0.12	0.6	113	30.69	76.1

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1097820	7107751	641948	1051	UTM83-8	WHI11001189	1	52	19.8	0.13	1.04	208	40.43	89.3
1097821	7107801	641994	1040	UTM83-8	WHI11001189	1.4	110	11.9	0.1	0.43	89	28.95	79.1
1097822	7107754	642001	1021	UTM83-8	WHI11001189	0.6	30	10.6	0.1	0.33	58	25.95	74.9
1097823	7107801	642051	1016	UTM83-8	WHI11001189	4.6	100	14.3	0.11	1.04	156	38.32	78.4
1097824	7108648	632597	1393	UTM83-8	WHI11001190	4.3	144	6.5	0.22	0.53	85	49.06	127.3
1097825	7108601	632599	1428	UTM83-8	WHI11001190	1.6	58	2.8	0.11	0.3	53	14.31	91.7
1097826	7108547	632603	1459	UTM83-8	WHI11001190	0.9	100	7.6	0.12	0.33	62	12.74	52
1097827	7108502	632601	1460	UTM83-8	WHI11001190	8.8	523	10.1	0.12	0.97	368	23.09	79.3
1097828	7108451	632598	1463	UTM83-8	WHI11001190	3.4	132	3.5	0.11	0.45	252	21.81	97.1
1097829	7108401	632595	1464	UTM83-8	WHI11001190	6.8	209	12.1	0.19	0.78	375	26.89	82.5
1097830	7108350	632596	1478	UTM83-8	WHI11001190	18.2	424	14.8	0.28	1.16	935	28.85	80.9
1097831	7108299	632597	1494	UTM83-8	WHI11001190	2.8	100	9.8	0.11	0.34	238	24.82	96.9
1097832	7108252	632598	1469	UTM83-8	WHI11001190	1.1	118	15.3	0.11	0.41	40	58.67	103.4
1097833	7108202	632598	1435	UTM83-8	WHI11001190	1	105	19.1	0.11	0.48	44	64.99	100.4
1097834	7108151	632597	1396	UTM83-8	WHI11001190	0.1	139	10.8	0.14	0.44	56	36.04	101.4
1097835	7108102	632599	1383	UTM83-8	WHI11001190	0.5	187	16.5	0.12	0.54	18	50.25	98.3
1097836	7108051	632598	1355	UTM83-8	WHI11001190	1	143	12.6	0.11	0.51	38	41.63	77.8
1097837	7108002	632594	1321	UTM83-8	WHI11001190	0.1	137	12.1	0.11	0.42	34	35.21	74.7
1097838	7107950	632596	1293	UTM83-8	WHI11001190	1	168	19.8	0.1	0.46	40	38.97	83.6
1097839	7107902	632599	1302	UTM83-8	WHI11001190	1.2	229	8.6	0.25	0.21	80	55.09	155.8
1097840	7107849	632600	1329	UTM83-8	WHI11001190	0.9	193	31.4	0.15	1.73	358	32.47	317.9
1097841	7107752	632597	1347	UTM83-8	WHI11001190	0.3	190	24.1	0.07	1.44	299	72.45	258.2
1097842	7107700	632596	1361	UTM83-8	WHI11001190	2.7	185	34.3	0.16	1.86	361	35.07	71.9
1097843	7107649	632597	1373	UTM83-8	WHI11001190	1.6	189	35.1	0.11	1.42	340	33.73	70.5
1097844	7107601	632599	1373	UTM83-8	WHI11001190	0.9	141	15.2	0.09	0.67	236	16.58	163.5
1097845	7107549	632601	1353	UTM83-8	WHI11001190	1.1	162	19	0.14	0.85	160	22.86	80.8
1097846	7107502	632597	1324	UTM83-8	WHI11001190	0.9	147	24	0.18	1.38	183	40.89	71.7
1097847	7107450	632600	1285	UTM83-8	WHI11001190	0.4	79	15.1	0.12	0.73	128	35.37	73.4
1097848	7107400	632598	1260	UTM83-8	WHI11001190	0.3	16	7.1	0.11	0.47	8	13.68	39.6
1097849	7107343	632600	1233	UTM83-8	WHI11001190	0.6	96	7.4	0.12	0.32	16	16.89	52.4
1097850	7107253	632598	1178	UTM83-8	WHI11001190	0.6	136	6.7	0.11	0.38	9	16.2	60.2
1097851	7107849	642047	1039	UTM83-8	WHI11001189	0.1	77	11.1	0.1	0.6	111	33.76	60.6
1097852	7107900	642097	1034	UTM83-8	WHI11001189	0.4	71	12.4	0.1	0.53	361	29.05	83.8
1097853	7108652	632499	1351	UTM83-8	WHI11001190	2.5	78	3.3	0.18	0.3	68	28.99	123.2
1097854	7108601	632501	1387	UTM83-8	WHI11001190	1.5	40	4.2	0.17	0.48	51	24.14	75.4
1097855	7108552	632498	1375	UTM83-8	WHI11001190	1.4	46	3.8	0.1	0.35	71	19.46	106.5
1097856	7108501	632500	1378	UTM83-8	WHI11001190	1.5	53	3.3	0.17	0.44	42	55.26	157.4
1097857	7108448	632498	1390	UTM83-8	WHI11001190	4.3	92	3.6	0.25	0.31	36	60.28	122.8
1097858	7108409	632496	1385	UTM83-8	WHI11001190	4.4	87	3.5	0.14	0.39	422	19.87	92.8
1097859	7108354	632495	1436	UTM83-8	WHI11001190	20.7	513	14.6	0.31	0.84	334	25.85	96.9
1097860	7108301	632501	1458	UTM83-8	WHI11001190	0.9	79	8.9	0.11	0.45	202	23.76	83
1097861	7108252	632498	1443	UTM83-8	WHI11001190	1.1	67	9.3	0.09	0.24	45	25.87	80.4
1097862	7108200	632500	1419	UTM83-8	WHI11001190	0.7	75	7.5	0.13	0.4	60	36.44	158.4
1097863	7108152	632499	1383	UTM83-8	WHI11001190	0.4	75	7.3	0.12	0.29	24	27.84	92.4
1097864	7108100	632501	1342	UTM83-8	WHI11001190	1	216	25.4	0.12	0.59	20	52.41	117.3
1097865	7108056	632500	1317	UTM83-8	WHI11001190	1.4	257	18.9	0.12	0.46	16	58.99	119.6
1097866	7108000	632495	1274	UTM83-8	WHI11001190	0.1	108	10	0.14	0.36	37	34.47	94.5
1097867	7107952	632498	1243	UTM83-8	WHI11001190	0.8	148	8.4	0.11	0.38	78	26.94	97.8
1097868	7107907	632501	1244	UTM83-8	WHI11001190	0.5	506	7.9	0.18	0.42	40	34.42	59.3
1097869	7107800	632498	1275	UTM83-8	WHI11001190	1.4	217	32.7	0.15	1.87	408	47.66	67
1097870	7107704	632499	1309	UTM83-8	WHI11001190	1.5	193	32.9	0.11	2.56	571	32.65	14.3
1097871	7107655	632499	1328	UTM83-8	WHI11001190	0.7	68	7.9	0.06	0.46	89	17.14	63.7
1097872	7107602	632496	1350	UTM83-8	WHI11001190	1.8	49	14.4	0.12	0.92	258	26.81	90.4
1097873	7107509	632499	1317	UTM83-8	WHI11001190	1.5	95	24.1	0.32	1.88	273	27.7	46.2
1097874	7107452	632501	1293	UTM83-8	WHI11001190	0.9	62	20.7	0.14	0.42	136	14.12	84.9
1097875	7107401	632501	1277	UTM83-8	WHI11001190	4.7	18	6.1	0.09	0.34	24	14.6	33.1
1097876	7107352	632497	1252	UTM83-8	WHI11001190	0.5	29	2.2	0.12	0.39	15	27.08	31.8
1097877	7107300	632497	1225	UTM83-8	WHI11001190	0.1	83	2.7	0.12	0.25	11	14.7	64.2
1097878	7107257	632501	1200	UTM83-8	WHI11001190	0.1	232	5.5	0.12	0.34	16	16.85	69.1
1097879	7107202	632499	1170	UTM83-8	WHI11001190	1.4	68	6.6	0.1	0.34	24	23.19	72.6
1097880	7107952	633299	1435	UTM83-8	WHI11001190	0.1	136	7.9	0.13	0.22	31	27.74	111.6
1097881	7107901	633297	1438	UTM83-8	WHI11001190	0.9	85	7	0.17	0.33	34	43.73	132.1

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1097882	7107852	633295	1440	UTM83-8	WHI11001190	0.7	88	5.9	0.09	0.27	18	24.99	84
1097883	7107804	633300	1414	UTM83-8	WHI11001190	0.8	110	8.8	0.12	0.58	128	52.68	85.6
1097884	7107753	633296	1403	UTM83-8	WHI11001190	1.5	136	11	0.08	0.62	126	77.24	279.4
1097885	7107704	633296	1374	UTM83-8	WHI11001190	0.1	102	16.9	0.09	1.06	44	44.68	147.1
1097886	7107653	633303	1340	UTM83-8	WHI11001190	0.8	183	24.2	0.11	1.4	313	43.26	123.7
1097887	7107605	633298	1322	UTM83-8	WHI11001190	0.1	43	12.3	0.07	0.41	58	15.84	52
1097888	7107547	633298	1305	UTM83-8	WHI11001190	1.2	20	2.5	0.12	0.4	20	13.03	44.7
1097889	7107504	633300	1303	UTM83-8	WHI11001190	0.1	118	4.5	0.13	0.28	14	15.98	49
1097890	7107451	633295	1296	UTM83-8	WHI11001190	1.6	139	4.3	0.17	0.22	37	48.7	79.2
1097891	7107404	633301	1274	UTM83-8	WHI11001190	0.3	69	8.1	0.07	0.35	36	34.65	45.5
1097892	7107349	633296	1271	UTM83-8	WHI11001190	0.7	95	6	0.16	0.19	21	26.87	102.3
1097893	7107302	633298	1248	UTM83-8	WHI11001190	0.3	435	7.6	0.1	0.35	30	18.07	83.8
1097894	7107250	633296	1226	UTM83-8	WHI11001190	1.1	249	8.8	0.09	0.42	36	30.42	83.7
1097895	7107202	633297	1203	UTM83-8	WHI11001190	0.8	122	5.3	0.1	0.28	24	23.63	93.5
1097896	7108402	633300	1613	UTM83-8	WHI11001191	1.4	65	8	0.17	0.65	32	45.5	83.7
1097897	7108352	633300	1583	UTM83-8	WHI11001191	1.2	199	12.3	0.13	0.5	31	39.06	104.7
1097898	7108300	633302	1551	UTM83-8	WHI11001191	0.6	65	7.6	0.07	0.41	27	40.54	105.5
1097899	7108251	633301	1523	UTM83-8	WHI11001191	1.2	200	14.5	0.14	0.51	10	46.07	114.2
1097900	7108203	633298	1508	UTM83-8	WHI11001191	0.7	118	9	0.08	0.48	47	36.27	84.6
1097901	7108649	640894	1321	UTM83-8	WHI11001190	1.7	106	8.5	0.06	0.54	46	17.73	54.3
1097902	7108601	640898	1298	UTM83-8	WHI11001190	2.2	73	7.5	0.06	0.6	65	12.49	30.3
1097903	7108547	640903	1295	UTM83-8	WHI11001190	8.2	114	11	0.09	0.83	114	23.55	67.5
1097904	7108499	640901	1297	UTM83-8	WHI11001190	3.6	115	10.4	0.08	0.98	106	19.75	74.5
1097905	7108452	640898	1306	UTM83-8	WHI11001190	3	163	16.5	0.1	2	168	30.64	93.1
1097906	7108394	640895	1282	UTM83-8	WHI11001190	2.3	112	15.8	0.14	1	101	35.53	222.6
1097907	7108351	640899	1247	UTM83-8	WHI11001190	1.7	64	35.6	0.13	0.81	54	40.72	32.5
1097908	7108305	640895	1219	UTM83-8	WHI11001190	1.5	68	17.2	0.1	0.57	31	30.95	48.3
1097909	7108250	640899	1201	UTM83-8	WHI11001190	0.6	30	10.4	0.09	0.38	16	23.62	49.5
1097910	7108201	640898	1175	UTM83-8	WHI11001190	0.8	61	8.7	0.12	0.36	24	28.87	65.7
1097911	7108152	640904	1153	UTM83-8	WHI11001190	0.9	61	8.1	0.14	0.39	27	31.48	71.7
1097912	7108647	633609	1637	UTM83-8	WHI11001191	2	358	21.4	0.16	0.68	64	69.55	102.8
1097913	7108602	633602	1640	UTM83-8	WHI11001191	2.4	59	12.3	0.14	0.47	27	72.01	80.5
1097914	7108552	633599	1603	UTM83-8	WHI11001191	1.3	103	16	0.14	0.54	18	60.54	85
1097915	7108500	633598	1562	UTM83-8	WHI11001191	0.8	83	8	0.1	0.5	36	34.01	82
1097916	7108451	633601	1532	UTM83-8	WHI11001191	0.9	60	14.5	0.13	0.49	16	40.64	96.8
1097917	7108400	633593	1507	UTM83-8	WHI11001191	0.7	103	10.6	0.13	0.57	61	34.1	67
1097918	7108347	633601	1490	UTM83-8	WHI11001192	0.8	58	17.7	0.11	0.73	30	40.91	100.2
1097919	7108301	633599	1468	UTM83-8	WHI11001192	0.8	86	6.3	0.08	0.29	32	44.6	93.8
1097920	7108259	633602	1448	UTM83-8	WHI11001192	1.6	232	10.4	0.11	0.76	41	35.21	86.4
1097921	7108201	633601	1413	UTM83-8	WHI11001192	2.2	176	11.3	0.11	0.76	32	27.5	112.7
1097922	7108153	633602	1389	UTM83-8	WHI11001192	3.2	108	8.3	0.09	0.62	23	16.75	70.1
1097923	7108107	633596	1371	UTM83-8	WHI11001192	0.9	179	7.7	0.13	0.34	47	37.92	132.4
1097924	7108055	633597	1336	UTM83-8	WHI11001192	0.8	169	6.2	0.15	0.25	40	43.64	79.4
1097925	7108002	633600	1299	UTM83-8	WHI11001192	3.4	406	23	0.76	0.81	63	142.64	191.4
1097926	7107950	633608	1282	UTM83-8	WHI11001192	2	226	7.9	0.17	0.27	39	32	130.5
1097927	7107902	633595	1272	UTM83-8	WHI11001192	1.8	221	7.2	0.15	0.35	40	34.8	138.1
1097928	7107856	633607	1255	UTM83-8	WHI11001192	3.8	124	6.4	0.16	0.26	91	34.48	79.5
1097929	7107802	633603	1235	UTM83-8	WHI11001192	1.4	160	7.2	0.11	0.46	178	27.8	69.5
1097930	7107749	633596	1228	UTM83-8	WHI11001192	2.9	284	28.5	0.11	1.75	474	44.86	140.4
1097931	7107699	633592	1209	UTM83-8	WHI11001192	2.4	204	85.9	0.24	3.55	616	38.39	103.9
1097932	7107607	633592	1157	UTM83-8	WHI11001192	2.3	155	37.9	0.21	2.72	156	78.19	56.5
1097933	7107449	633605	1105	UTM83-8	WHI11001192	0.7	72	10.1	0.09	0.22	54	16.34	138.3
1097934	7107403	633590	1102	UTM83-8	WHI11001192	0.9	89	6.5	0.12	0.23	22	28.38	68.3
1097935	7107352	633596	1095	UTM83-8	WHI11001192	1	129	7.9	0.12	0.33	28	38.56	83.8
1097936	7107307	633593	1097	UTM83-8	WHI11001192	0.5	126	5.4	0.09	0.35	17	21.34	62.3
1097937	7107257	633597	1097	UTM83-8	WHI11001192	2.2	97	7.8	0.11	0.8	72	28.41	76.3
1097938	7107209	633603	1103	UTM83-8	WHI11001192	1.2	176	5.1	0.13	0.36	27	30.85	79.8
1097939	7108593	634196	1556	UTM83-8	WHI11001192	1	80	14.7	0.13	0.34	11	58.37	91.4
1097940	7108640	634196	1584	UTM83-8	WHI11001192	0.6	174	6.2	0.14	0.33	13	44.84	106
1097941	7108551	634196	1538	UTM83-8	WHI11001192	1	252	16	0.38	0.46	45	73	58.5
1097942	7108502	634195	1510	UTM83-8	WHI11001192	1.1	123	12.5	0.28	0.52	9	56.5	71.8
1097943	7108441	634200	1475	UTM83-8	WHI11001192	0.8	100	8.4	0.18	0.33	12	43.08	62.5

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1097944	7108399	634201	1458	UTM83-8	WHI11001192	1.1	534	14.7	0.68	0.58	38	67.65	56.4
1097945	7108351	634204	1436	UTM83-8	WHI11001192	1.1	242	15.1	0.34	0.48	33	74.13	82.7
1097946	7108294	634189	1398	UTM83-8	WHI11001192	0.7	178	10.2	0.47	0.38	31	61.71	174
1097947	7108249	634193	1366	UTM83-8	WHI11001192	1.8	574	7.7	0.27	0.39	38	43.92	59.1
1097948	7108209	634199	1355	UTM83-8	WHI11001192	0.8	120	7.6	0.14	0.4	45	33.15	154.5
1097949	7108157	634194	1328	UTM83-8	WHI11001192	0.9	242	7.7	0.19	0.49	22	27.19	114.3
1097950	7108108	634213	862	UTM83-8	WHI11001192	1.6	76	7.6	0.15	0.43	34	27.82	101.9
1097951	7108150	634093	1302	UTM83-8	WHI11001192	1.4	122	10.9	0.16	0.51	44	42.65	86.9
1097952	7108099	634097	1278	UTM83-8	WHI11001192	1.2	254	8.3	0.19	0.3	62	41.23	138.9
1097953	7108054	634095	1287	UTM83-8	WHI11001192	1.1	69	6	0.14	0.3	24	27.58	101.9
1097954	7108000	634096	1279	UTM83-8	WHI11001192	1	473	5.6	0.08	0.31	196	30.9	109.3
1097955	7107954	634098	1268	UTM83-8	WHI11001192	1.4	218	7.7	0.12	0.51	187	21.14	71.6
1097956	7107900	634099	1259	UTM83-8	WHI11001192	2.5	334	9.9	0.18	0.75	219	26.82	91.8
1097957	7107852	634103	1258	UTM83-8	WHI11001192	0.3	161	11.1	0.13	0.8	71	35.91	93.3
1097958	7107802	634098	1240	UTM83-8	WHI11001192	1.9	231	24.9	0.08	2.34	93	34.38	37.5
1097959	7107758	634096	1210	UTM83-8	WHI11001192	0.8	312	16.8	0.08	1.53	168	57.97	118.5
1097960	7107702	634095	1196	UTM83-8	WHI11001192	0.8	234	7.3	0.07	0.73	156	23.99	52.6
1097961	7107648	634096	1181	UTM83-8	WHI11001192	0.4	24	7.6	0.1	0.56	42	27.27	65.1
1097962	7107598	634100	1173	UTM83-8	WHI11001192	2.7	185	8.8	0.12	0.61	87	30.48	134.5
1097963	7107551	634100	1170	UTM83-8	WHI11001192	0.6	78	6.5	0.14	0.34	29	40.78	92.5
1097964	7107498	634101	1163	UTM83-8	WHI11001192	2.1	62	5.3	0.17	0.46	33	37.39	48.2
1097965	7107447	634102	1159	UTM83-8	WHI11001192	1.4	130	5.5	0.16	0.34	33	23.69	56.3
1097966	7107397	634100	1152	UTM83-8	WHI11001192	1.8	56	7.4	0.13	0.42	33	24.43	88.1
1097967	7107347	634096	1160	UTM83-8	WHI11001192	1	118	6.1	0.16	0.47	29	26.97	70.5
1097968	7107297	634100	1153	UTM83-8	WHI11001192	1	85	3.4	0.13	0.32	31	16.37	55
1097969	7107246	634097	1148	UTM83-8	WHI11001192	1.3	35	5.4	0.12	0.3	15	14.46	96.9
1097970	7107201	634096	1130	UTM83-8	WHI11001192	0.7	117	3.6	0.16	0.2	20	17.1	68.1
1097971	7108652	634298	1556	UTM83-8	WHI11001192	1	129	20.1	0.2	0.51	31	75.01	104.6
1097972	7108600	634299	1555	UTM83-8	WHI11001192	1.2	345	14.9	0.64	0.76	55	62.34	44.5
1097973	7108548	634298	1541	UTM83-8	WHI11001192	0.8	281	23.9	0.29	1.16	49	121.73	50
1097974	7108500	634298	1534	UTM83-8	WHI11001192	1.1	282	6	0.69	0.41	130	79.5	259.8
1097975	7108450	634301	1520	UTM83-8	WHI11001192	0.6	235	9.6	0.22	0.32	49	63.24	264.6
1097976	7108397	634298	1491	UTM83-8	WHI11001192	0.7	252	9.3	0.17	0.38	23	55.04	101.5
1097977	7108350	634301	1470	UTM83-8	WHI11001192	0.6	96	4.5	0.17	0.23	30	32.09	104.9
1097978	7108298	634298	1440	UTM83-8	WHI11001192	1.2	181	9.5	0.29	0.47	34	72.58	145.7
1097979	7108249	634301	1410	UTM83-8	WHI11001192	1.8	171	6.4	0.16	0.53	36	28.37	102.7
1097980	7108199	634300	1378	UTM83-8	WHI11001192	0.7	201	5.3	0.15	0.56	30	26.73	102.5
1097981	7108150	634296	1361	UTM83-8	WHI11001192	1.3	183	7.1	0.24	0.2	56	38.19	116.3
1097982	7108103	634302	1359	UTM83-8	WHI11001192	0.8	104	6	0.27	0.24	55	29.83	165.2
1097983	7108053	634300	1346	UTM83-8	WHI11001192	2.9	92	8	0.12	0.5	107	23.89	77.2
1097984	7108001	634302	1332	UTM83-8	WHI11001192	0.7	263	6.2	0.13	0.39	139	33.68	117.5
1097985	7107955	634301	1303	UTM83-8	WHI11001192	0.7	176	2.1	0.11	0.21	143	28.63	69.8
1097986	7107905	634299	1277	UTM83-8	WHI11001192	0.6	140	2.8	0.1	0.27	196	21.41	42
1097987	7107849	634302	1260	UTM83-8	WHI11001192	1	145	11.9	0.11	1.13	172	34.4	95.9
1097988	7107802	634294	1232	UTM83-8	WHI11001192	1.3	171	11.3	0.12	1.09	139	24.15	99.2
1097989	7107741	634299	1217	UTM83-8	WHI11001192	1.4	87	12	0.14	0.94	124	30.14	67.3
1097990	7107700	634302	1208	UTM83-8	WHI11001192	0.5	14	6.5	0.13	0.45	21	21.54	64.3
1097991	7107649	634300	1184	UTM83-8	WHI11001192	0.7	17	4.9	0.12	0.24	24	24.85	70.9
1097992	7107604	634298	1155	UTM83-8	WHI11001192	0.8	46	7.8	0.13	0.42	39	20.25	58.9
1097993	7108650	635201	1284	UTM83-8	WHI11001349	0.1	122	11.5	0.1	0.54	32	26.35	79.4
1097994	7108602	635193	1267	UTM83-8	WHI11001349	0.1	129	11	0.1	0.56	34	27.92	109.8
1097995	7108550	635201	1242	UTM83-8	WHI11001349	0.1	268	8	0.15	0.33	57	36.37	74.6
1097996	7108500	635200	1241	UTM83-8	WHI11001349	0.3	64	8.9	0.13	0.5	32	29.88	87.5
1097997	7108447	635198	1247	UTM83-8	WHI11001349	0.7	711	12.8	0.24	0.45	403	43.17	176
1097998	7108397	635198	1262	UTM83-8	WHI11001349	0.1	75	2.8	0.08	0.16	25	30.47	36.6
1097999	7108353	635197	1250	UTM83-8	WHI11001349	0.7	117	6.1	0.08	0.56	119	30.57	144.6
1098000	7108298	635201	1235	UTM83-8	WHI11001349	2.7	191	11.2	0.08	1.86	157	28.88	40.8
1098001	7107952	631799	1003	UTM83-8	WHI11001190	3.9	171	9.1	0.11	0.49	283	16.83	68.8
1098002	7107901	631799	990	UTM83-8	WHI11001190	2.2	112	12.8	0.12	0.54	220	23.57	91.7
1098003	7107852	631798	997	UTM83-8	WHI11001190	1.6	103	11.6	0.11	0.48	145	25.08	92.1
1098004	7107800	631796	1006	UTM83-8	WHI11001190	2.8	105	9.6	0.09	0.33	211	22.88	117.3
1098005	7107750	631801	1022	UTM83-8	WHI11001190	3	161	13.5	0.26	0.63	239	22.45	87

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1098006	7107704	631800	1031	UTM83-8	WHI11001190	2.8	162	24.6	0.35	1.45	320	25.21	70.9
1098007	7107653	631797	1046	UTM83-8	WHI11001190	2.4	131	17.8	0.12	1.05	148	25.25	84.3
1098008	7107603	631800	1044	UTM83-8	WHI11001190	1.9	31	14	0.12	0.68	96	19.7	76.9
1098009	7107553	631800	1031	UTM83-8	WHI11001190	0.6	101	17.6	0.15	1.07	190	20.08	51.2
1098010	7107505	631795	1010	UTM83-8	WHI11001190	1.2	126	18.3	0.21	0.79	110	24.59	92.5
1098011	7107449	631799	996	UTM83-8	WHI11001190	1.6	68	7.3	0.1	0.33	34	14.72	58.3
1098012	7107400	631800	979	UTM83-8	WHI11001190	1.4	102	12.9	0.14	0.57	160	23.53	68.8
1098013	7107348	631799	974	UTM83-8	WHI11001190	1.6	64	6.1	0.13	0.29	43	19.44	59.3
1098014	7107301	631798	982	UTM83-8	WHI11001190	3.1	54	6.8	0.14	0.3	49	21.43	73.3
1098015	7107256	631798	979	UTM83-8	WHI11001190	2	55	5.4	0.08	0.15	28	23.34	73.4
1098016	7107203	631799	984	UTM83-8	WHI11001190	2.8	148	7.3	0.13	0.34	84	23.51	78.4
1098017	7108648	632200	1206	UTM83-8	WHI11001190	0.2	120	14.4	0.08	0.31	96	36.1	144.5
1098018	7108602	632198	1188	UTM83-8	WHI11001190	1.6	138	13.1	0.08	0.3	101	31.97	108.2
1098019	7108558	632195	1169	UTM83-8	WHI11001190	1.7	129	19.1	0.16	0.38	84	34.25	107.2
1098020	7108507	632204	1190	UTM83-8	WHI11001190	2.5	194	13.3	0.2	0.62	529	38.15	85.5
1098021	7108456	632198	1229	UTM83-8	WHI11001190	1.9	47	2.6	0.14	0.3	46	38.8	112.1
1098022	7108403	632198	1250	UTM83-8	WHI11001190	2.8	56	5.4	0.21	0.36	140	19.15	81.3
1098023	7108157	632191	1249	UTM83-8	WHI11001190	7	325	16.7	0.22	0.94	276	21.4	82.3
1098024	7108103	632199	1233	UTM83-8	WHI11001190	0.9	44	7.3	0.11	0.23	24	31.7	74.5
1098025	7108053	632194	1215	UTM83-8	WHI11001190	0.7	148	22.6	0.19	0.49	44	48.55	95.6
1098026	7108003	632194	1205	UTM83-8	WHI11001190	0.6	101	10.2	0.12	0.42	30	29.27	77.4
1098027	7107955	632197	1177	UTM83-8	WHI11001190	2.8	161	20.6	0.14	0.67	63	54.99	110.6
1098028	7107903	632187	1174	UTM83-8	WHI11001190	1.3	166	12.3	0.1	0.43	55	32.42	74.4
1098029	7107756	632202	1150	UTM83-8	WHI11001190	1.1	148	19.2	0.07	1.18	508	45.48	177.1
1098030	7107699	632204	1164	UTM83-8	WHI11001190	1.1	86	39.6	0.09	1.64	214	18.61	52.2
1098031	7107651	632195	1184	UTM83-8	WHI11001190	1.1	124	15.2	0.11	1.21	174	18.26	52.8
1098032	7107601	632205	1218	UTM83-8	WHI11001190	0.6	26	9.5	0.12	0.68	13	17.56	49.2
1098033	7107555	632204	1219	UTM83-8	WHI11001190	0.4	81	60.7	0.1	1.13	128	42.98	30.3
1098034	7107505	632203	1204	UTM83-8	WHI11001190	0.8	24	23.1	0.07	0.52	40	12.8	22.4
1098035	7107458	632200	1177	UTM83-8	WHI11001190	0.7	28	21.4	0.1	1.08	25	17.57	30.3
1098036	7107404	632197	1159	UTM83-8	WHI11001190	0.7	54	4.2	0.1	0.22	14	19.23	65.9
1098037	7107354	632197	1159	UTM83-8	WHI11001190	0.6	23	3.3	0.1	0.17	27	18.69	56.4
1098038	7107300	632200	1163	UTM83-8	WHI11001190	2.1	119	12.9	0.12	0.56	89	44.49	73.8
1098039	7107250	632207	1158	UTM83-8	WHI11001190	2.1	174	10.5	0.09	0.62	103	21.1	78.7
1098040	7107202	632202	1161	UTM83-8	WHI11001190	2.5	63	12.2	0.14	0.69	43	23.39	73.6
1098041	7108252	633002	1625	UTM83-8	WHI11001190	0.8	203	12.9	0.13	0.52	48	62.24	86.1
1098042	7108202	632998	1598	UTM83-8	WHI11001190	2.5	383	15.5	0.18	0.58	80	42.95	130.3
1098043	7108155	633001	1598	UTM83-8	WHI11001190	0.8	270	13.1	0.12	0.53	52	37.12	106.5
1098044	7108103	633003	1581	UTM83-8	WHI11001190	0.2	127	8	0.08	0.32	41	28.87	59.3
1098045	7108052	632999	1544	UTM83-8	WHI11001190	1.4	358	13.5	0.13	0.52	55	49.23	82.9
1098046	7108001	632999	1521	UTM83-8	WHI11001190	0.6	210	6.6	0.14	0.22	37	36.65	143.6
1098047	7107951	633003	1532	UTM83-8	WHI11001190	3.7	243	19	0.14	1.2	157	35.51	121.7
1098048	7107906	632996	1607	UTM83-8	WHI11001190	0.8	135	10.1	0.12	0.51	160	38.6	51.6
1098049	7107855	633000	1498	UTM83-8	WHI11001192	1.7	191	32.3	0.12	1.91	173	41.38	99.2
1098051	7107353	632303	1223	UTM83-8	WHI11001190	1.1	99	7.5	0.12	0.32	37	17.15	51.8
1098052	7107302	632297	1222	UTM83-8	WHI11001190	0.6	81	7	0.11	0.32	30	25.46	54.3
1098053	7107248	632296	1194	UTM83-8	WHI11001190	0.8	62	6.1	0.14	0.29	19	20.58	74.3
1098054	7107209	632303	1189	UTM83-8	WHI11001190	1.5	76	7.6	0.13	0.4	36	24.22	77.8
1098055	7108301	633103	1631	UTM83-8	WHI11001190	0.7	68	8.9	0.1	0.33	43	26.98	73.8
1098056	7108254	633095	1627	UTM83-8	WHI11001190	1.1	119	9.7	0.1	0.37	20	40.7	96.9
1098057	7108203	633100	1598	UTM83-8	WHI11001190	0.9	118	9.4	0.12	0.44	19	31.95	119.3
1098058	7108150	633102	1582	UTM83-8	WHI11001190	0.8	79	9.2	0.11	0.5	40	44.09	80.3
1098059	7108106	633096	1568	UTM83-8	WHI11001190	0.3	88	26.6	0.12	0.53	22	49.29	105.4
1098060	7108056	633097	1547	UTM83-8	WHI11001190	0.3	175	7.7	0.14	0.35	45	55.02	86.8
1098061	7108001	633092	1531	UTM83-8	WHI11001190	0.3	122	6.1	0.16	0.27	30	41.17	62
1098062	7107955	633096	1509	UTM83-8	WHI11001190	0.8	223	9.3	0.28	0.32	37	47.87	47.7
1098063	7107900	633102	1481	UTM83-8	WHI11001190	0.8	171	6.7	0.17	0.3	32	36.48	154.4
1098064	7107851	633098	1457	UTM83-8	WHI11001190	0.1	76	7.8	0.15	0.45	51	36.18	111.2
1098065	7107802	633093	1434	UTM83-8	WHI11001190	0	0	0	0	0	0	0	0
1098066	7107756	633093	1407	UTM83-8	WHI11001190	1.9	154	26.5	0.09	1.67	234	39.09	114.1
1098067	7107808	632998	1461	UTM83-8	WHI11001192	10.3	142	14.5	0.07	0.9	180	35.03	81.3
1098068	7107704	632994	1400	UTM83-8	WHI11001192	0.8	104	22.2	0.13	1.21	94	28.13	105.3

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1098069	7107607	632994	1360	UTM83-8	WHI11001192	1	131	48.9	0.15	3.13	233	47.93	110.4
1098070	7107506	632992	1315	UTM83-8	WHI11001192	0.5	94	15.8	0.12	0.87	77	22.42	77.8
1098071	7107302	632998	1220	UTM83-8	WHI11001192	1	288	6.4	0.15	0.31	36	31.5	93.2
1098072	7107207	633002	1206	UTM83-8	WHI11001192	1.3	55	5.1	0.09	0.33	39	25.25	67.2
1098073	7107556	633101	1337	UTM83-8	WHI11001192	0.3	22	13.5	0.11	0.67	43	17.74	38.7
1098074	7107451	633101	1352	UTM83-8	WHI11001192	0.7	192	7.6	0.13	0.38	40	21.1	59.2
1098075	7107353	633101	1323	UTM83-8	WHI11001192	1.3	161	6.6	0.13	0.39	29	26.83	56.2
1098076	7107253	633103	1278	UTM83-8	WHI11001192	0.6	269	5.6	0.12	0.27	47	44.6	117.6
1098077	7108405	633198	1603	UTM83-8	WHI11001192	1.2	237	14.1	0.12	0.5	63	49.64	101.1
1098078	7108301	633195	1596	UTM83-8	WHI11001192	0.7	163	13.1	0.09	0.54	65	49.34	90.8
1098079	7108205	633198	1556	UTM83-8	WHI11001192	0.3	167	7.7	0.09	0.45	15	24.63	106.5
1098080	7108102	633196	1541	UTM83-8	WHI11001192	0.4	123	6.5	0.11	0.4	59	36.2	82.7
1098081	7107996	633204	1480	UTM83-8	WHI11001192	0.1	207	7.9	0.24	0.25	37	45.19	41.7
1098082	7108657	634703	1426	UTM83-8	WHI11001192	0.7	152	13.1	0.12	0.66	37	36.48	90.5
1098083	7108453	634701	1261	UTM83-8	WHI11001192	1.4	232	8.1	0.22	0.48	138	42.47	127.1
1098084	7108354	634701	1304	UTM83-8	WHI11001192	0.8	109	9	0.15	0.6	49	37	107.2
1098085	7108054	634697	1348	UTM83-8	WHI11001192	1.1	136	21.2	0.15	1.74	194	44.46	261.1
1098086	7107957	634698	1325	UTM83-8	WHI11001192	10.6	218	28.1	0.17	1.95	343	36.41	157.4
1098087	7107854	634693	1310	UTM83-8	WHI11001192	1.8	139	17.1	0.18	1.13	122	28.51	81.7
1098088	7107751	634692	1280	UTM83-8	WHI11001192	0.2	72	3.3	0.09	0.3	38	6.66	27.3
1098089	7107647	634701	1229	UTM83-8	WHI11001192	0.3	207	4.4	0.17	0.21	41	29.36	86.2
1098090	7108643	634599	1411	UTM83-8	WHI11001192	0.8	334	17.5	0.22	0.8	75	74.05	123.1
1098091	7108552	634593	1377	UTM83-8	WHI11001192	1.4	89	9.6	0.11	0.67	53	29.8	98.7
1098092	7108500	634599	1372	UTM83-8	WHI11001192	1.6	194	6.5	0.1	0.62	94	41.2	92
1098093	7108446	634592	1366	UTM83-8	WHI11001192	1.2	192	7.9	0.19	0.42	36	42.23	64
1098094	7108406	634602	1368	UTM83-8	WHI11001192	0.8	131	8	0.2	0.24	42	33.32	144.6
1098095	7108352	634604	1379	UTM83-8	WHI11001192	0.5	221	6.7	0.17	0.48	72	16.26	84.2
1098096	7108300	634595	1372	UTM83-8	WHI11001192	0.6	137	7.1	0.16	0.42	32	29.61	116.5
1098097	7108255	634596	1364	UTM83-8	WHI11001192	0.7	156	10.3	0.13	0.74	153	38.41	128.3
1098098	7108047	634599	1410	UTM83-8	WHI11001349	0.4	122	10.5	0.11	0.88	196	35.77	206.5
1098099	7107958	634598	1394	UTM83-8	WHI11001349	0.9	250	15.4	0.1	1.5	431	38.85	365.5
1098100	7107856	634601	1354	UTM83-8	WHI11001349	7.2	92	15.8	0.2	0.85	58	28.08	113.7
1098101	7108255	635198	1208	UTM83-8	WHI11001349	3.2	227	19.7	0.11	1.86	162	34.51	44.4
1098102	7108196	635197	1177	UTM83-8	WHI11001349	1.7	52	15.3	0.16	1.14	86	33.78	98.4
1098103	7108165	635196	1154	UTM83-8	WHI11001349	2.3	86	8.7	0.09	0.67	84	22.13	61
1098104	7108101	635198	1122	UTM83-8	WHI11001349	2.7	71	9.8	0.1	0.62	116	31.26	92.6
1098105	7108048	635195	1095	UTM83-8	WHI11001349	1.5	16	9.1	0.12	0.53	40	26.41	92.7
1098106	7108002	635202	1076	UTM83-8	WHI11001349	2.8	106	4.6	0.08	0.3	79	27.53	35.9
1098107	7107949	635196	1067	UTM83-8	WHI11001349	1.3	113	11.5	0.12	0.39	31	35.87	110.8
1098108	7107899	635199	1061	UTM83-8	WHI11001349	1	205	7.5	0.12	0.29	59	32.97	89.4
1098109	7107853	635194	1066	UTM83-8	WHI11001349	0.3	18	8.1	0.11	0.42	30	25.28	104.8
1098110	7107800	635198	1064	UTM83-8	WHI11001349	3.5	186	2.1	0.06	0.24	135	6.03	17
1098111	7107751	635196	1066	UTM83-8	WHI11001349	1.8	74	5.7	0.08	0.4	73	20.73	76
1098112	7107698	635194	1073	UTM83-8	WHI11001349	0.9	190	5.4	0.11	0.29	30	32.36	78.6
1098113	7107652	635199	1066	UTM83-8	WHI11001349	0.1	79	5.5	0.12	0.32	20	12.75	54.3
1098114	7107605	635198	1061	UTM83-8	WHI11001349	0.8	45	8.1	0.11	0.54	26	19.45	76.3
1098115	7108653	635298	1245	UTM83-8	WHI11001349	0.1	291	10.5	0.1	0.56	58	30.67	71.9
1098116	7108597	635300	1219	UTM83-8	WHI11001349	0.3	187	10.7	0.1	0.68	34	35.08	158.6
1098117	7108548	635302	1195	UTM83-8	WHI11001349	0.7	143	1.9	0.06	0.16	83	9.22	126.9
1098118	7108502	635297	1189	UTM83-8	WHI11001349	2	190	5.3	0.12	0.31	112	21.49	90.8
1098119	7108449	635296	1190	UTM83-8	WHI11001349	1.3	179	7.2	0.15	0.35	131	26.24	118.3
1098120	7108397	635301	1199	UTM83-8	WHI11001349	0.1	147	12.2	0.07	0.46	113	55.98	91.7
1098121	7108355	635294	1195	UTM83-8	WHI11001349	0.5	138	2.7	0.08	0.13	145	18.81	30.8
1098122	7108304	635300	1198	UTM83-8	WHI11001349	2	112	9.6	0.1	0.72	123	26.15	112.3
1098123	7108248	635300	1207	UTM83-8	WHI11001349	2.1	185	13.9	0.09	1.56	395	39.86	133.5
1098124	7108201	635298	1204	UTM83-8	WHI11001349	0.1	23	13.2	0.21	0.65	24	22.82	87.6
1098125	7108148	635301	1186	UTM83-8	WHI11001349	1.1	84	16.3	0.17	0.93	95	38.62	106.4
1098126	7108103	635300	1166	UTM83-8	WHI11001349	1	67	10.7	0.1	0.75	142	29.45	79.8
1098127	7108045	635294	1142	UTM83-8	WHI11001349	2.1	81	12	0.13	0.88	130	36.52	104.8
1098128	7107998	635296	1123	UTM83-8	WHI11001349	0.4	102	12	0.13	0.82	130	33.23	71.3
1098129	7107951	635297	1094	UTM83-8	WHI11001349	1.7	99	13.3	0.22	0.85	128	30.65	68.8
1098130	7107906	635305	1083	UTM83-8	WHI11001349	2.7	96	13.1	0.15	0.79	117	30.28	78.8

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1098131	7107853	635304	1071	UTM83-8	WHI11001349	2	70	9.6	0.14	0.47	48	23.23	80.9
1098132	7107805	635303	1066	UTM83-8	WHI11001349	2.1	101	10.2	0.1	0.37	33	27.92	109.7
1098133	7107754	635297	1054	UTM83-8	WHI11001349	2	77	9.5	0.11	0.44	40	22.93	94.9
1098134	7107702	635301	1044	UTM83-8	WHI11001349	0.8	24	8	0.11	0.45	18	18.83	53.5
1098135	7107654	635294	1051	UTM83-8	WHI11001349	1.1	39	6.1	0.1	0.3	20	12.42	46.1
1098136	7107599	635293	1042	UTM83-8	WHI11001349	0.8	73	4.8	0.12	0.3	16	17.61	59.9
1098137	7108649	636193	1362	UTM83-8	WHI11001349	1	102	11.3	0.32	0.87	37	9.74	58.8
1098138	7108604	636197	1314	UTM83-8	WHI11001349	2.3	159	10.2	0.1	0.63	65	20.16	68.8
1098139	7108549	636195	1298	UTM83-8	WHI11001349	0.9	96	15.4	0.14	1.25	54	39.59	106.7
1098140	7108498	636194	1278	UTM83-8	WHI11001349	2.1	111	10.3	0.15	0.92	52	23.41	82.1
1098141	7108448	636198	1233	UTM83-8	WHI11001349	2	143	11.4	0.17	0.72	80	26.64	56.9
1098142	7108402	636196	1194	UTM83-8	WHI11001349	1.9	131	16.9	0.18	1.36	48	34.27	91.5
1098143	7108353	636201	1152	UTM83-8	WHI11001349	1.6	153	14.9	0.16	1.17	85	30.48	104.3
1098144	7108300	636199	1131	UTM83-8	WHI11001349	1.3	176	24.9	0.16	1.57	116	34.8	73.9
1098145	7108251	636198	1105	UTM83-8	WHI11001349	1.3	154	15.3	0.15	1.15	56	25.09	71
1098146	7108198	636197	1090	UTM83-8	WHI11001349	1.5	148	14.1	0.14	0.84	53	23.85	91.2
1098147	7108154	636197	1094	UTM83-8	WHI11001349	1.2	47	11.7	0.15	0.63	28	28.42	78
1098148	7108098	636201	1090	UTM83-8	WHI11001349	0.7	58	10.1	0.13	0.6	42	20.19	87.8
1098149	7108048	636197	1071	UTM83-8	WHI11001349	0.5	122	7	0.07	0.49	52	15.93	58.9
1098150	7108006	636201	1053	UTM83-8	WHI11001356	1.2	61	12.4	0.1	0.62	48	25.7	69.4
1098151	7108152	633297	1475	UTM83-8	WHI11001191	0.1	174	11.2	0.09	0.6	32	38.56	93.8
1098152	7108103	633299	1457	UTM83-8	WHI11001191	0.1	124	6	0.1	0.5	33	31.78	80.6
1098153	7108052	633299	1428	UTM83-8	WHI11001191	0.1	90	9	0.09	0.56	22	27.8	102.8
1098154	7107999	633299	1405	UTM83-8	WHI11001191	0.1	148	5.8	0.18	0.27	27	41.54	77.1
1098155	7108602	633800	1630	UTM83-8	WHI11001192	1.2	166	26.8	0.16	0.51	62	75.2	93.1
1098156	7108551	633798	1604	UTM83-8	WHI11001192	1.2	69	6.9	0.22	0.39	23	50.73	110.3
1098157	7108501	633799	1579	UTM83-8	WHI11001192	0.8	64	25.6	0.16	0.63	26	70.33	110.6
1098158	7108451	633800	1551	UTM83-8	WHI11001192	0.4	85	13.9	0.09	0.3	19	33.09	70.3
1098159	7108400	633799	1521	UTM83-8	WHI11001192	1.1	327	15.9	0.47	0.55	40	86.45	104.9
1098160	7108353	633800	1497	UTM83-8	WHI11001192	1.2	121	13.1	0.14	0.51	28	98.83	116.2
1098161	7108299	633799	1470	UTM83-8	WHI11001192	1	84	11.7	0.11	0.61	18	33.75	78.9
1098162	7108251	633796	1454	UTM83-8	WHI11001192	1.1	104	11.7	0.11	0.63	13	33.59	78.1
1098163	7108205	633798	1429	UTM83-8	WHI11001192	1.3	194	7.3	0.12	0.56	33	22.48	80.8
1098164	7108149	633798	1413	UTM83-8	WHI11001192	0.9	167	6.3	0.2	0.36	16	40	53.4
1098165	7108101	633797	1413	UTM83-8	WHI11001192	0.8	114	6.6	0.15	0.4	42	37.92	136.9
1098166	7108052	633798	1406	UTM83-8	WHI11001192	0.7	120	6	0.13	0.34	25	27.19	103
1098167	7108000	633799	1385	UTM83-8	WHI11001192	0.7	137	6.8	0.14	0.42	32	30.24	100.2
1098168	7107950	633797	1370	UTM83-8	WHI11001192	1	58	6.4	0.19	0.31	70	27.82	106.8
1098169	7107907	633798	1353	UTM83-8	WHI11001192	0.5	154	6.6	0.17	0.23	161	26.25	106.7
1098170	7107852	633800	1340	UTM83-8	WHI11001192	1.1	38	12.5	0.11	0.99	35	27.47	100.2
1098171	7107801	633799	1325	UTM83-8	WHI11001192	2.8	194	13.9	0.1	1.29	187	34.52	95
1098172	7107754	633799	1286	UTM83-8	WHI11001192	2.3	307	39.4	0.17	2.4	614	39.35	170.5
1098173	7107705	633794	1264	UTM83-8	WHI11001192	2	241	19.9	0.16	1.61	199	41.07	85.5
1098174	7107651	633797	1256	UTM83-8	WHI11001192	1.5	164	27.7	0.15	1.55	415	56.39	306.4
1098175	7107602	633800	1248	UTM83-8	WHI11001192	0.3	20	13.4	0.1	0.57	20	17.19	44
1098176	7107553	633800	1230	UTM83-8	WHI11001192	0.4	85	8.4	0.12	0.58	29	26.3	75.7
1098177	7107504	633801	1191	UTM83-8	WHI11001192	0.4	54	7.9	0.11	0.46	22	23.12	56.4
1098178	7107454	633803	1168	UTM83-8	WHI11001192	1.8	74	8.5	0.17	0.36	35	31.48	80.7
1098179	7107404	633801	1137	UTM83-8	WHI11001192	0.5	51	10	0.15	0.39	28	29.96	76
1098180	7107353	633799	1126	UTM83-8	WHI11001192	0.4	34	11.1	0.15	0.39	23	24.53	53.4
1098181	7107302	633798	1106	UTM83-8	WHI11001192	0.2	33	5.5	0.13	0.25	15	22.63	33.4
1098182	7107252	633798	1081	UTM83-8	WHI11001192	0.2	118	7.9	0.14	0.38	15	27.29	72.2
1098183	7107200	633799	1063	UTM83-8	WHI11001192	0.7	122	7.1	0.13	0.2	22	26.63	98.9
1098184	7108644	633894	1600	UTM83-8	WHI11001192	0.9	109	24.5	0.24	0.61	29	69.81	77.9
1098185	7108600	633898	1578	UTM83-8	WHI11001192	0.4	86	11.1	0.13	0.48	12	48.31	97.3
1098186	7108550	633899	1556	UTM83-8	WHI11001192	0.8	159	6.1	0.32	0.31	32	50.87	116.2
1098187	7108500	633900	1523	UTM83-8	WHI11001192	0.9	178	4.4	0.13	0.25	23	41.59	82.2
1098188	7108451	633898	1497	UTM83-8	WHI11001192	0.8	146	11.7	0.1	0.4	21	40.93	78.4
1098189	7108402	633894	1473	UTM83-8	WHI11001192	1.8	307	12.1	0.17	0.45	16	47.11	50.3
1098190	7108351	633899	1447	UTM83-8	WHI11001192	1.6	101	8.5	0.25	0.31	2	41.31	73.2
1098191	7108302	633899	1432	UTM83-8	WHI11001192	0.1	145	13.2	0.2	0.54	12	56.64	76.2
1098192	7108252	633901	1406	UTM83-8	WHI11001192	0.1	260	8.3	0.09	0.31	6	35.8	82.6

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1098193	7108203	633898	1389	UTM83-8	WHI11001192	0.3	421	10.6	0.11	0.62	39	37.02	94.8
1098194	7108144	633899	1397	UTM83-8	WHI11001192	0.1	120	11.2	0.14	0.37	19	37.58	97.6
1098195	7108106	633902	1413	UTM83-8	WHI11001192	0.1	138	6.7	0.12	0.23	24	41.97	180.9
1098196	7108052	633902	1417	UTM83-8	WHI11001192	0.1	82	6.3	0.13	0.14	28	32.04	100.4
1098197	7108000	633899		UTM83-8	WHI11001192	0.1	83	9.3	0.12	0.42	22	36.7	97.1
1098198	7107953	633899	1419	UTM83-8	WHI11001193	0.2	167	2.9	0.07	0.15	224	13.19	66.5
1098199	7107903	633897	1402	UTM83-8	WHI11001193	0.5	113	6.6	0.15	0.27	50	33.98	81.5
1098200	7107852	633896	1374	UTM83-8	WHI11001193	0.7	31	27.6	0.07	2.56	46	27.88	20.4
1098201	7109137	354054	1405	UTM83-9	WHI11001193	0.6	112	8.9	0.24	0.29	50	42.96	52.4
1098202	7109182	354054	1433	UTM83-9	WHI11001193	0.4	133	11.8	0.21	0.6	31	50.6	80.4
1098203	7109234	354042	1468	UTM83-9	WHI11001193	1.2	331	8.2	0.16	0.37	58	42.34	98.3
1098204	7109283	354046	1496	UTM83-9	WHI11001193	0.4	534	8.6	0.15	0.4	55	43.19	86.8
1098205	7109333	354044	1524	UTM83-9	WHI11001193	1	363	10.1	0.15	0.52	28	48.1	106.7
1098206	7109385	354055	1550	UTM83-9	WHI11001193	0.8	182	6.3	0.18	0.27	42	41.72	102.1
1098207	7109422	354086	1582	UTM83-9	WHI11001193	1	239	7.1	0.18	0.27	40	42.66	99.9
1098208	7109472	354093	1621	UTM83-9	WHI11001193	0.4	236	7.1	0.2	0.25	41	40.57	103.9
1098209	7109524	354109	1649	UTM83-9	WHI11001193	0.8	211	10.4	0.31	0.29	67	54.61	123.8
1098210	7109573	354094	1709	UTM83-9	WHI11001193	0.4	213	5.3	0.1	0.37	37	41.29	143.7
1098211	7109596	354002	1700	UTM83-9	WHI11001193	0.5	242	6.4	0.19	0.21	40	39.46	84.6
1098212	7109560	353977	1673	UTM83-9	WHI11001193	0.5	214	6.2	0.15	0.28	45	41.93	88.8
1098213	7109520	353945	1644	UTM83-9	WHI11001193	0.5	220	6.9	0.18	0.26	48	40.49	87.9
1098214	7109478	353966	1602	UTM83-9	WHI11001193	2.4	340	12.8	0.33	0.44	32	66.36	160.2
1098215	7109439	353984	1570	UTM83-9	WHI11001193	1.8	301	10.6	0.34	0.46	40	57.23	165.7
1098216	7109384	353998	1569	UTM83-9	WHI11001193	1.1	647	14.9	0.14	0.79	30	62.54	127.8
1098217	7109332	354001	1526	UTM83-9	WHI11001193	1.9	337	17.6	0.17	0.72	56	66.29	132.1
1098218	7109278	353997	1475	UTM83-9	WHI11001193	1.5	365	37.5	0.21	0.97	55	81.12	122.2
1098219	7109227	353995	1425	UTM83-9	WHI11001193	1.2	229	11.9	0.17	0.54	60	48.64	126.3
1098220	7109174	354023	1412	UTM83-9	WHI11001193	1.4	304	22.4	0.19	0.86	77	66.7	203.7
1098221	7108601	635591	1124	UTM83-8	WHI11001356	2.5	278	12.5	0.11	0.67	68	34.89	105.2
1098222	7108550	635601	1103	UTM83-8	WHI11001349	1.3	191	7.3	0.13	0.36	92	28.06	132.7
1098223	7108452	635596	1077	UTM83-8	WHI11001349	1	105	12.7	0.07	0.39	27	31.04	102.2
1098224	7108351	635598	1061	UTM83-8	WHI11001349	1.1	98	11.7	0.08	0.43	22	27.07	100.7
1098225	7108301	635602	1062	UTM83-8	WHI11001349	0.9	90	13.8	0.07	0.42	29	30.99	102.9
1098226	7108248	635602	1054	UTM83-8	WHI11001349	1.2	157	9.8	0.09	0.43	66	17.72	93.3
1098227	7108102	635601	1059	UTM83-8	WHI11001349	2.1	115	7.6	0.1	0.56	85	19.78	90
1098228	7108056	635600	1067	UTM83-8	WHI11001349	2	109	7.4	0.09	0.52	86	18.21	77.1
1098229	7108005	635600	1059	UTM83-8	WHI11001349	1.5	59	7.7	0.11	0.5	15	18.13	71.6
1098230	7107953	635596	1059	UTM83-8	WHI11001349	0.3	51	9.6	0.12	0.62	33	15.74	80.7
1098231	7107895	635602	1036	UTM83-8	WHI11001349	0.1	19	9.7	0.16	0.54	24	17.27	62.5
1098232	7107855	635598	1023	UTM83-8	WHI11001349	1.6	87	9.2	0.07	0.47	44	16.26	60.6
1098233	7107804	635595	1012	UTM83-8	WHI11001349	0.3	12	7.9	0.08	0.33	40	21.27	82.5
1098234	7107754	635597	996	UTM83-8	WHI11001349	0.7	183	10.3	0.13	0.49	197	36.45	82.9
1098235	7107699	635597	986	UTM83-8	WHI11001349	0.4	34	6.3	0.1	0.31	23	19.77	89.5
1098236	7107653	635594	981	UTM83-8	WHI11001349	0.5	27	8	0.1	0.46	33	16.7	92.5
1098237	7108646	635697	1188	UTM83-8	WHI11001349	1.3	34	7.8	0.1	0.51	30	18.05	49.9
1098238	7108605	635700	1183	UTM83-8	WHI11001349	0.8	162	7.6	0.17	0.36	69	30.19	130.7
1098239	7108555	635699	1145	UTM83-8	WHI11001349	1.7	172	8.2	0.1	0.6	78	26.14	83.4
1098240	7108505	635699	1142	UTM83-8	WHI11001349	1.4	58	8.6	0.11	0.6	27	23.89	79.9
1098241	7108451	635702	1133	UTM83-8	WHI11001349	1.4	90	13.6	0.12	0.96	73	37.03	89.2
1098242	7108355	635700	1108	UTM83-8	WHI11001349	2.5	97	8.6	0.09	0.65	67	21.56	70.4
1098243	7108300	635696	1109	UTM83-8	WHI11001349	1.4	32	9.4	0.13	0.65	46	24.74	75.8
1098244	7108251	635700	1086	UTM83-8	WHI11001349	1.4	85	7.5	0.09	0.57	57	20.92	65.8
1098245	7108196	635703	1050	UTM83-8	WHI11001349	2	107	7.5	0.1	0.48	60	20.58	80.6
1098246	7108147	635703	1041	UTM83-8	WHI11001349	1	107	7.2	0.08	0.47	41	20.46	63.6
1098247	7108106	635699	1026	UTM83-8	WHI11001349	1.2	98	9.6	0.08	0.29	20	26.72	96.7
1098248	7108001	635704	1009	UTM83-8	WHI11001349	1.7	117	6.7	0.11	0.48	84	20.7	77.2
1098249	7108650	636396	1215	UTM83-8	WHI11001349	1.1	85	14.6	0.13	0.89	26	24.54	69.9
1098250	7108601	636393	1204	UTM83-8	WHI11001349	1.1	60	10.8	0.12	0.65	36	30.76	90.2
1098251	7107902	633398	1388	UTM83-8	WHI11001190	0.8	43	8.1	0.14	0.43	25	22.92	85.2
1098252	7107849	633398	1378	UTM83-8	WHI11001191	0.1	128	5.6	0.1	0.22	219	19.02	62.3
1098253	7107799	633398	1355	UTM83-8	WHI11001191	0.1	88	14.6	0.07	0.85	98	32	111
1098254	7107751	633398	1338	UTM83-8	WHI11001191	0.1	137	10.2	0.08	0.48	142	27.43	72.8

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1098255	7107702	633399	1328	UTM83-8	WHI11001191	0.1	117	17.9	0.06	1.07	157	19.58	48.4
1098256	7107649	633396	1305	UTM83-8	WHI11001191	0.1	61	10.1	0.1	0.5	21	20.92	49.6
1098257	7107550	633398	1265	UTM83-8	WHI11001191	0.1	82	18.9	0.11	0.72	82	24.58	68.8
1098258	7107497	633397	1250	UTM83-8	WHI11001191	0.2	65	9	0.15	0.3	50	28.52	54.2
1098259	7107450	633398	1247	UTM83-8	WHI11001191	0.1	68	28.6	0.09	0.32	35	29.37	45
1098260	7107401	633398	1237	UTM83-8	WHI11001191	0.1	92	6.5	0.14	0.15	30	30.5	76.8
1098261	7107355	633401	1218	UTM83-8	WHI11001191	0.1	122	8.4	0.17	0.19	56	33.4	94.2
1098262	7107300	633403	1216	UTM83-8	WHI11001191	2.7	68	6.5	0.08	0.44	13	18.44	63.6
1098263	7107250	633395	1217	UTM83-8	WHI11001191	0.1	265	10.3	0.11	0.6	29	29.71	117.8
1098264	7107203	633396	1203	UTM83-8	WHI11001191	0.1	144	5.4	0.1	0.26	43	23.21	112.3
1098265	7108451	633401	1615	UTM83-8	WHI11001191	0.1	105	17.7	0.11	0.56	17	62.76	98
1098266	7108399	633401	1582	UTM83-8	WHI11001191	0.1	147	11.6	0.11	0.49	30	83.35	134.1
1098267	7108349	633397	1549	UTM83-8	WHI11001191	0.4	206	18.7	0.11	0.65	34	55.38	100.7
1098268	7108300	633398	1517	UTM83-8	WHI11001191	0.1	285	12.5	0.15	0.55	60	34.63	120.2
1098269	7108248	633399	1497	UTM83-8	WHI11001191	5	538	11.3	0.13	0.56	91	32.41	99.4
1098270	7108200	633400	1467	UTM83-8	WHI11001191	2.4	405	9.2	0.11	0.68	31	26.61	102.5
1098271	7108151	633399	1431	UTM83-8	WHI11001191	0.8	68	24.8	0.17	0.76	27	49.06	100.3
1098272	7108103	633403	1400	UTM83-8	WHI11001191	1	261	9.2	0.11	0.68	38	23.14	81.8
1098273	7108002	633404	1352	UTM83-8	WHI11001191	1.9	62	9.8	0.12	0.76	29	14.35	83.6
1098274	7107950	633400	1357	UTM83-8	WHI11001191	0.1	85	7.4	0.17	0.22	32	41.78	112.9
1098301	7107754	632997	1424	UTM83-8	WHI11001192	1.1	235	40.3	0.15	2.18	284	39.66	162.2
1098302	7107653	632998	1371	UTM83-8	WHI11001192	0.1	117	23.4	0.09	1.41	109	21.43	47.6
1098303	7107555	632999	1309	UTM83-8	WHI11001192	0.5	180	15.4	0.1	0.89	269	55.34	187
1098304	7107454	633002	1245	UTM83-8	WHI11001192	1.5	61	19.9	0.16	0.82	46	22.56	77.5
1098305	7107358	633000	1199	UTM83-8	WHI11001192	0.6	195	6.1	0.1	0.37	55	25.61	62
1098306	7107254	633007	1189	UTM83-8	WHI11001192	0.7	209	7.2	0.08	0.45	24	21.24	73.4
1098307	7107603	633093	1332	UTM83-8	WHI11001192	3.5	129	15.2	0.11	1.16	146	21.51	50.5
1098308	7107506	633099	1289	UTM83-8	WHI11001192	0.9	139	9.3	0.11	0.42	25	19.92	47.4
1098309	7107406	633098	1253	UTM83-8	WHI11001192	1.4	57	4.6	0.07	0.28	23	17.05	35.2
1098310	7107308	633100	1231	UTM83-8	WHI11001192	0.7	100	5.6	0.12	0.3	25	17.37	45.1
1098311	7107204	633099	1211	UTM83-8	WHI11001192	1.5	186	6.5	0.1	0.45	24	22.04	73.5
1098312	7108351	633195	1609	UTM83-8	WHI11001192	1.5	233	6.9	0.09	0.31	103	54.19	76.7
1098313	7108254	633200	1575	UTM83-8	WHI11001192	1.1	126	7.7	0.09	0.41	28	31.91	83.9
1098314	7108155	633195	1529	UTM83-8	WHI11001192	0.4	118	9.8	0.11	0.54	30	34.72	89
1098315	7108051	633199	1480	UTM83-8	WHI11001192	1.1	158	8.6	0.1	0.42	24	39.37	100.3
1098316	7108607	634700	1424	UTM83-8	WHI11001193	0.7	174	8.8	0.08	0.63	64	26.03	63
1098317	7108502	634696	1331	UTM83-8	WHI11001193	0.5	93	10.4	0.07	0.33	17	29.27	92.3
1098318	7108406	634694	1287	UTM83-8	WHI11001193	1.4	46	7	0.08	0.52	36	29.23	84
1098319	7108308	634694	1296	UTM83-8	WHI11001193	0.1	49	5.2	0.08	0.58	38	12.23	175.8
1098320	7108106	634706	1331	UTM83-8	WHI11001193	2.1	182	16.9	0.08	1.3	106	82.17	154.8
1098321	7108001	634694	1333	UTM83-8	WHI11001193	1.4	167	9.2	0.06	0.81	171	31.15	106.3
1098322	7107905	634693	1334	UTM83-8	WHI11001193	1	95	19.1	0.2	1.19	319	33.15	66.2
1098323	7107808	634696	1290	UTM83-8	WHI11001193	0.6	130	10.9	0.12	0.7	73	20.45	67.7
1098324	7107704	634703	1254	UTM83-8	WHI11001193	0.8	104	7.7	0.09	0.5	53	23.39	96.5
1098325	7107603	634694	1213	UTM83-8	WHI11001193	0.1	126	3.3	0.1	0.19	22	17.78	53.1
1098326	7108604	634592	1394	UTM83-8	WHI11001193	1.9	241	12	0.11	0.45	41	38.75	89
1098327	7108003	634598	1396	UTM83-8	WHI11001349	0.3	121	21.6	0.09	1.9	214	31.52	189.5
1098328	7107906	634599	1376	UTM83-8	WHI11001349	0.8	130	15.8	0.12	1.37	223	28.68	131.2
1098329	7107805	634597	1332	UTM83-8	WHI11001349	0.1	50	9.9	0.08	1.23	42	36.26	73.8
1098330	7107704	634601	1270	UTM83-8	WHI11001349	0.5	59	15	0.11	0.64	44	17.88	47.7
1098331	7107606	634595	1220	UTM83-8	WHI11001349	0.3	29	3.8	0.15	0.31	29	31.58	51.1
1098332	7108655	634906	1417	UTM83-8	WHI11001349	0.5	131	8.5	0.09	0.57	35	37.82	103.7
1098333	7108555	634901	1351	UTM83-8	WHI11001349	0.4	125	10.9	0.1	0.48	21	37.96	79.8
1098334	7108455	634896	1288	UTM83-8	WHI11001349	0.1	117	8	0.14	0.37	21	36.49	116
1098335	7108354	634892	1217	UTM83-8	WHI11001349	0.1	191	7.7	0.21	0.31	70	36.59	134.6
1098336	7108145	634891	1220	UTM83-8	WHI11001349	1.7	96	11	0.08	0.96	92	29.45	70.4
1098337	7108056	634900	1232	UTM83-8	WHI11001349	5.5	119	22.2	0.16	1.79	138	33.67	82.3
1098338	7107853	634903	1233	UTM83-8	WHI11001349	2.3	56	11.7	0.13	0.67	45	26.3	85.9
1098339	7107754	634895	1216	UTM83-8	WHI11001349	1.6	85	5	0.13	0.33	13	16.83	76.2
1098340	7107652	634906	1160	UTM83-8	WHI11001349	1	212	5.2	0.13	0.3	35	16.61	78.4
1098341	7108649	636901	1063	UTM83-8	WHI11001356	0.5	94	5.7	0.07	0.42	84	25.09	168.2
1098342	7107703	637600	1351	UTM83-8	WHI11001356	0.8	185	4.8	0.12	0.22	106	75.99	79.1

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1098343	7107798	637597	1362	UTM83-8	WHI11001356	1.5	34	7.8	0.13	0.4	29	40.97	72.2
1098344	7107896	637599	1307	UTM83-8	WHI11001356	4.3	77	3	0.14	0.37	40	50.01	71.4
1098345	7108000	637604	1290	UTM83-8	WHI11001356	3.4	134	3.6	0.16	0.25	75	70.27	89.8
1098346	7108098	637600	1279	UTM83-8	WHI11001356	0.8	129	21.2	0.09	3.3	206	55.12	302.5
1098347	7108199	637595	1234	UTM83-8	WHI11001356	2	209	53.1	0.14	8.54	184	44.85	133.9
1098348	7108299	637596	1186	UTM83-8	WHI11001356	1.4	166	8.4	0.11	1.87	108	25.93	82.7
1098349	7108400	637597	1154	UTM83-8	WHI11001356	2.9	139	7.9	0.1	0.35	70	23.44	84.1
1098350	7108494	637596	1110	UTM83-8	WHI11001356	2.1	191	6.2	0.1	0.26	88	22.33	80.9
1098351	7108650	632703	1364	UTM83-8	WHI11001190	3.7	110	6.9	0.11	0.55	98	27.51	114.2
1098352	7108600	632702	1400	UTM83-8	WHI11001190	10.2	235	4.5	0.17	0.34	140	15.32	82.4
1098353	7108551	632700	1435	UTM83-8	WHI11001190	5.4	112	2.6	0.1	0.72	506	86.12	93.2
1098354	7108503	632699	1468	UTM83-8	WHI11001190	7.5	364	8.7	0.14	0.53	299	19.44	91.8
1098355	7108454	632695	1509	UTM83-8	WHI11001190	5.9	237	8.2	0.14	0.41	292	18.13	91.3
1098356	7108402	632701	1545	UTM83-8	WHI11001190	9.2	276	11.4	0.13	1.01	504	19.08	59.3
1098357	7108349	632700	1552	UTM83-8	WHI11001190	1.9	75	5.1	0.11	0.31	67	47.95	85.5
1098358	7108304	632698	1527	UTM83-8	WHI11001190	1.1	64	5.9	0.07	0.27	76	25.39	92.6
1098359	7108241	632691	1498	UTM83-8	WHI11001190	0.4	66	8.3	0.12	0.35	33	26.14	90.9
1098360	7108202	632701	1489	UTM83-8	WHI11001190	0.2	220	16.2	0.14	0.46	95	39.9	132.8
1098361	7108155	632702	1462	UTM83-8	WHI11001190	0.1	101	9.3	0.12	0.51	19	84.35	99.8
1098362	7108104	632704	1436	UTM83-8	WHI11001190	1.6	317	7.2	0.11	0.34	48	25.95	96.3
1098363	7108056	632699	1398	UTM83-8	WHI11001190	1.3	54	50.5	0.13	1.6	13	61.32	114.7
1098364	7108004	632697	1363	UTM83-8	WHI11001190	0.9	385	10.1	0.12	0.38	81	33.9	79.1
1098365	7107947	632701	1343	UTM83-8	WHI11001190	0.1	152	11.4	0.09	0.66	258	39.45	89.3
1098366	7107908	632702	1361	UTM83-8	WHI11001190	0.1	112	8.2	0.09	0.47	88	41.04	103.5
1098367	7107850	632695	1380	UTM83-8	WHI11001190	2.1	164	17.9	0.07	1.72	530	62.67	603.8
1098368	7107806	632700	1403	UTM83-8	WHI11001190	1.5	210	18.3	0.11	1.33	366	41.38	380.7
1098369	7107756	632702	1428	UTM83-8	WHI11001190	2	263	79.4	0.25	4.57	407	52.62	68.9
1098370	7107707	632699	1435	UTM83-8	WHI11001190	2.5	153	40.2	0.23	2.32	233	26.98	48.4
1098371	7107650	632699	1426	UTM83-8	WHI11001190	1.5	147	41.5	0.17	1.98	149	30.81	132.5
1098372	7107601	632703	1386	UTM83-8	WHI11001190	4.1	240	56	0.19	2.68	715	45.41	74
1098373	7107552	632698	1369	UTM83-8	WHI11001190	1.5	128	26.9	0.12	1.8	383	46.46	142.3
1098374	7107498	632700	1330	UTM83-8	WHI11001190	3.7	147	27	0.11	1.48	326	30.31	71.7
1098375	7107454	632697	1297	UTM83-8	WHI11001190	0.8	65	19.9	0.11	1.12	105	28.32	153.1
1098376	7107400	632696	1271	UTM83-8	WHI11001190	0.3	32	1.1	0.12	0.36	15	12.55	28.8
1098377	7107349	632700	1242	UTM83-8	WHI11001190	1	184	3.1	0.16	0.21	33	47.18	78.4
1098378	7107298	632700	1214	UTM83-8	WHI11001190	0.1	234	2.7	0.14	0.21	19	16.99	52.5
1098379	7107248	632700	1195	UTM83-8	WHI11001190	0.1	76	6.3	0.12	0.38	18	23.98	70.2
1098380	7107203	632698	1176	UTM83-8	WHI11001190	0.1	171	6.8	0.11	0.3	11	23.93	72.6
1098381	7108450	633493	1587	UTM83-8	WHI11001190	0.3	67	15.7	0.11	0.61	12	42.02	100.9
1098382	7108404	633498	1553	UTM83-8	WHI11001190	0.1	74	12.6	0.11	0.42	29	58.92	129.8
1098383	7108352	633498	1515	UTM83-8	WHI11001190	0.7	90	25	0.11	0.74	32	44.79	110.9
1098384	7108302	633498	1486	UTM83-8	WHI11001190	1.1	212	10.3	0.09	0.59	44	32.94	94.2
1098385	7108252	633499	1462	UTM83-8	WHI11001190	2.6	97	9.3	0.12	0.55	40	25.89	95.2
1098386	7108207	633498	1429	UTM83-8	WHI11001190	1.2	105	6	0.1	0.5	25	27.07	84.6
1098387	7108153	633493	1400	UTM83-8	WHI11001190	1.4	156	10.5	0.09	0.59	35	29.77	96.3
1098388	7108647	633502	1565	UTM83-8	WHI11001191	1.8	268	14.4	0.11	0.56	53	46.26	95
1098389	7108605	633501	1589	UTM83-8	WHI11001191	2.3	223	13.8	0.12	0.6	33	62.83	109.4
1098390	7108555	633501	1617	UTM83-8	WHI11001191	1.1	75	24.6	0.12	0.5	22	49.38	80.6
1098391	7108503	633496	1611	UTM83-8	WHI11001191	1.1	134	13	0.13	0.64	34	38.08	71.3
1098392	7108107	633502	1377	UTM83-8	WHI11001191	1.2	121	7.7	0.13	0.7	22	25.06	87.7
1098393	7108052	633500	1346	UTM83-8	WHI11001191	0.9	210	5.7	0.13	0.34	46	36.07	165.3
1098394	7108003	633499	1327	UTM83-8	WHI11001191	1.1	41	8.4	0.12	0.64	17	12.49	67.7
1098395	7107950	633498	1310	UTM83-8	WHI11001191	0.3	198	7.3	0.12	0.3	52	26.49	95.7
1098396	7107900	633497	1315	UTM83-8	WHI11001191	0.9	331	10.6	0.21	0.22	89	36.45	135.3
1098397	7107855	633500	1295	UTM83-8	WHI11001191	2.5	53	6.8	0.18	0.39	28	33.46	98
1098398	7107796	633493	1297	UTM83-8	WHI11001191	0.6	413	5.7	0.11	0.18	402	34.08	86.4
1098399	7107754	633494	1271	UTM83-8	WHI11001191	1.1	305	8	0.13	0.49	447	38.1	77.1
1098400	7107699	633501	1253	UTM83-8	WHI11001191	0.7	133	14.4	0.13	1.15	135	17.33	77.7
1098401	7107253	633199	1255	UTM83-8		0	0	0	0	0	0	0	0
1098402	7107203	633199	1241	UTM83-8		0	0	0	0	0	0	0	0
1098451	7107950	636202	1020	UTM83-8	WHI11001350	1.2	43	7.3	0.08	0.35	23	19.43	52.2
1098452	7107847	637903	1472	UTM83-8	WHI11001350	2.5	116	5.3	0.25	0.2	59	133.44	95.3

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1098453	7107895	637901	1440	UTM83-8	WHI11001350	1.8	55	2.8	0.16	0.17	26	47.96	79.4
1098454	7107948	637898	1405	UTM83-8	WHI11001350	1.6	65	3.3	0.14	0.23	35	52.91	80.1
1098455	7107999	637900	1371	UTM83-8	WHI11001350	1.3	44	2.6	0.14	0.17	17	37.72	79.9
1098456	7108050	637894	1338	UTM83-8	WHI11001350	1.6	100	30.2	0.11	3.75	103	28.21	39
1098457	7108101	637898	1304	UTM83-8	WHI11001350	2.1	101	17.2	0.1	1.86	80	24.21	58.2
1098458	7108152	637895	1273	UTM83-8	WHI11001350	3.7	139	18.2	0.14	1.97	201	32.21	97.8
1098459	7108201	637897	1252	UTM83-8	WHI11001350	2.1	127	12.3	0.12	0.36	105	24.84	87.2
1098460	7108252	637895	1233	UTM83-8	WHI11001350	2.6	193	11.8	0.1	0.99	103	22.91	79.8
1098461	7108303	637903	1236	UTM83-8	WHI11001350	2.7	225	15.9	0.11	2.29	242	37.89	61.1
1098462	7108352	637900	1236	UTM83-8	WHI11001350	0.6	229	7.8	0.13	0.72	205	25.37	81.8
1098463	7108401	637899	1228	UTM83-8	WHI11001350	4.4	491	6.5	0.13	0.34	73	31.15	66.1
1098464	7108452	637897	1223	UTM83-8	WHI11001350	4.9	373	13.2	0.18	0.61	99	62.78	59
1098465	7108501	637896	1201	UTM83-8	WHI11001350	3.3	113	6.2	0.1	0.34	29	21.65	70.7
1098466	7108550	637899	1170	UTM83-8	WHI11001350	1.7	345	9	0.15	0.5	71	48.22	160.3
1098467	7108598	637895	1150	UTM83-8	WHI11001350	2.7	215	16.8	0.13	0.79	41	45.39	108.6
1098468	7108651	637893	1174	UTM83-8	WHI11001350	1.5	76	8.5	0.1	0.38	28	23.32	63.9
1098469	7107799	637797	1445	UTM83-8	WHI11001350	3.1	27	3.4	0.19	0.46	90	68.77	70.1
1098470	7107849	637799	1425	UTM83-8	WHI11001350	3.4	114	5.2	0.3	0.29	54	137.05	109.5
1098471	7107902	637801	1401	UTM83-8	WHI11001350	3.4	102	1.9	0.14	0.15	35	57.64	88.4
1098472	7107951	637800	1384	UTM83-8	WHI11001350	1.8	75	5	0.28	0.23	36	100.66	109
1098473	7107999	637797	1368	UTM83-8	WHI11001350	3.8	205	15.5	0.19	0.75	48	53	117.7
1098474	7108050	637798	1337	UTM83-8	WHI11001350	1.7	102	7.5	0.12	0.53	77	30.69	34.2
1098475	7108100	637799	1306	UTM83-8	WHI11001350	1.5	99	22.5	0.1	6.31	101	23.33	78.7
1098476	7108148	637799	1276	UTM83-8	WHI11001350	2.4	120	14.4	0.13	2.29	122	26.96	120.8
1098477	7108202	637797	1246	UTM83-8	WHI11001350	3.5	96	14	0.11	1.66	97	25.13	74.6
1098478	7108249	637798	1220	UTM83-8	WHI11001350	2.3	160	13.6	0.1	1.29	61	20.99	69.6
1098479	7108297	637800	1193	UTM83-8	WHI11001350	2.1	57	11	0.11	0.48	22	28.32	90.5
1098480	7108353	637798	1167	UTM83-8	WHI11001350	2.3	186	6.5	0.08	0.32	110	19.8	78.9
1098481	7108402	637798	1166	UTM83-8	WHI11001350	3	150	10.2	0.09	0.48	57	24.47	95.5
1098482	7108453	637797	1159	UTM83-8	WHI11001350	1.4	236	5.8	0.14	0.46	141	22.15	65.5
1098483	7108500	637797	1158	UTM83-8	WHI11001350	2.2	140	5.5	0.08	0.26	66	19.88	84.1
1098484	7108551	637797	1138	UTM83-8	WHI11001350	3.1	142	8.4	0.09	0.37	59	22.15	87.8
1098485	7108602	637801	1111	UTM83-8	WHI11001350	4.6	156	8.4	0.12	0.33	95	24.46	79.1
1098486	7108653	637794	1121	UTM83-8	WHI11001350	1.3	165	8.7	0.08	0.36	68	28.34	71.7
1098487	7107801	637894	1476	UTM83-8	WHI11001356	1.3	55	7.3	0.18	0.28	33	44.47	114.6
1098488	7107750	637898	1469	UTM83-8	WHI11001356	1.2	53	2.6	0.19	0.26	36	26.68	89.7
1098489	7107701	637902	1461	UTM83-8	WHI11001356	1.4	25	6.4	0.17	0.45	28	50.45	88.8
1098490	7107647	637899	1443	UTM83-8	WHI11001356	1.8	17	6.7	0.1	0.4	20	29.54	73.6
1098491	7107602	637894	1432	UTM83-8	WHI11001356	0.6	60	7.7	0.1	0.43	35	36.21	85.4
1098492	7107551	637897	1418	UTM83-8	WHI11001356	3.9	34	7.5	0.09	0.55	44	27.33	79.6
1098493	7107498	637898	1423	UTM83-8	WHI11001356	0.9	129	7.5	0.11	0.42	32	43.88	114.1
1098494	7107452	637899	1406	UTM83-8	WHI11001356	1.1	88	6.4	0.13	0.29	28	41.45	116.9
1098495	7107402	637901	1397	UTM83-8	WHI11001356	0.5	79	7.4	0.19	0.31	36	75.75	110
1098496	7107351	637899	1376	UTM83-8	WHI11001356	1.9	66	6.1	0.2	0.19	20	59.02	100.7
1098497	7107355	637797	1397	UTM83-8	WHI11001356	1.1	74	4.1	0.16	0.27	30	22.13	108.2
1098498	7107402	637798	1401	UTM83-8	WHI11001356	0.6	60	6.1	0.11	0.4	37	35.43	100.3
1098499	7107452	637799	1418	UTM83-8	WHI11001356	0.7	93	6	0.15	0.37	26	60.18	124.9
1098500	7107500	637798	1437	UTM83-8	WHI11001356	1.7	19	7	0.11	0.43	17	30.63	80.7
1098501	7108399	641501	1282	UTM83-8	WHI11001140	1.9	149	16.9	0.12	1.04	136	28.47	77.1
1098502	7108400	641450	1251	UTM83-8	WHI11001140	1.2	102	20.6	0.15	1.37	124	35.08	96
1098503	7108404	641400	1211	UTM83-8	WHI11001140	5.7	177	27.4	0.29	2.36	545	50.08	323.6
1098504	7108403	641352	1198	UTM83-8	WHI11001140	2.5	169	23	0.17	2.04	225	37.06	102.3
1098505	7108399	641297	1164	UTM83-8	WHI11001140	1.3	108	10.3	0.08	0.57	90	21.85	63.6
1098506	7108399	641250	1144	UTM83-8	WHI11001140	2.2	112	14.2	0.12	0.77	115	29.22	93.4
1098507	7108397	641198	1116	UTM83-8	WHI11001140	2.2	142	12.8	0.09	0.82	163	26.89	105
1098508	7108402	641695	1407	UTM83-8	WHI11001189	26.9	111	20.3	0.28	2.81	232	41.84	61.9
1098509	7108400	641751	1411	UTM83-8	WHI11001189	0.9	93	15.3	0.07	0.74	129	14.96	57.3
1098510	7108401	641796	1397	UTM83-8	WHI11001189	1.2	48	17.1	0.05	0.75	57	14.8	29.5
1098511	7108401	641846	1362	UTM83-8	WHI11001189	0.7	98	15.3	0.12	1.22	129	24.75	84.7
1098512	7108402	641947	1304	UTM83-8	WHI11001189	0.1	101	8.8	0.1	0.45	64	30.73	60.7
1098513	7108402	641998	1284	UTM83-8	WHI11001189	0.1	127	6.7	0.09	0.24	26	24.7	40.3
1098514	7108400	642045	1264	UTM83-8	WHI11001189	0.1	63	5.6	0.11	0.25	22	25.51	97.8

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1098515	7108402	642102	1249	UTM83-8	WHI11001189	0.1	117	8.2	0.11	0.29	21	20.54	54.7
1098516	7108400	642147	1227	UTM83-8	WHI11001189	0.1	248	12.1	0.13	0.35	70	32.86	76.5
1098517	7108400	642201	1206	UTM83-8	WHI11001189	1	48	7.4	0.09	0.31	64	25.67	69
1098518	7108399	642349	1111	UTM83-8	WHI11001189	0.6	178	6.3	0.12	0.33	96	23.27	98.1
1098519	7108402	642399	1080	UTM83-8	WHI11001189	1.6	160	7	0.12	0.38	50	28.04	57.2
1098520	7108400	642441	1066	UTM83-8	WHI11001189	1.5	102	9	0.08	0.45	103	21.18	63.1
1098521	7108151	641653	1338	UTM83-8	WHI11001189	1.1	125	15.4	0.07	1.49	100	21.83	37.6
1098522	7108148	641699	1314	UTM83-8	WHI11001189	13	261	60.8	0.21	4.78	154	42.66	63
1098523	7108150	641748	1284	UTM83-8	WHI11001189	2.6	120	37.1	0.17	3.83	194	47.93	100.9
1098524	7108150	641798	1261	UTM83-8	WHI11001189	11	190	43.1	0.23	3.22	753	30.53	70.1
1098525	7108151	641848	1247	UTM83-8	WHI11001189	0.6	320	11.8	0.11	0.36	1730	30.61	83.9
1098526	7108154	641950	1199	UTM83-8	WHI11001189	0.1	34	9.5	0.09	0.48	43	20.25	62.5
1098527	7108151	642000	1178	UTM83-8	WHI11001189	0.3	88	13.4	0.11	0.93	98	28.2	65.3
1098528	7108152	642052	1158	UTM83-8	WHI11001189	0.9	219	10	0.17	0.28	220	35.62	91
1098529	7108150	642095	1136	UTM83-8	WHI11001189	0.6	172	8.6	0.11	0.36	92	29.9	74
1098530	7108150	642154	1111	UTM83-8	WHI11001189	0.1	59	9.7	0.1	0.36	40	26.07	70.2
1098531	7108149	641600	1328	UTM83-8	WHI11001189	0.9	190	25.4	0.11	3.13	151	46.91	56.7
1098532	7108149	641549	1299	UTM83-8	WHI11001189	3.3	121	19	0.11	2.22	99	21.59	24.3
1098533	7108150	641501	1258	UTM83-8	WHI11001189	1	113	13.1	0.08	0.97	92	16.9	56.2
1098534	7108150	641451	1226	UTM83-8	WHI11001189	1.6	156	15.7	0.11	1.07	159	26.88	67.9
1098535	7108151	641400	1192	UTM83-8	WHI11001189	0.7	173	11.7	0.12	0.76	110	28.61	71
1098536	7108149	641350	1163	UTM83-8	WHI11001189	1.2	61	30.9	0.09	0.86	67	29.04	65.9
1098537	7108146	641298	1138	UTM83-8	WHI11001189	1.3	206	13.4	0.12	0.86	194	27.78	69.5
1098538	7108149	641248	1115	UTM83-8	WHI11001189	0.1	154	9.1	0.07	0.47	92	23.61	73.2
1098539	7107804	641549	1227	UTM83-8	WHI11001189	0.8	218	24.9	0.22	2.61	151	55.29	71.6
1098540	7107751	641548	1213	UTM83-8	WHI11001189	0.1	63	13.5	0.16	0.83	3547	33.12	67.5
1098541	7107751	641500	1193	UTM83-8	WHI11001189	0.3	127	18.9	0.16	1.55	184	43.22	56.1
1098542	7107802	641497	1204	UTM83-8	WHI11001189	0.6	184	15.3	0.11	1.1	191	29.64	81
1098543	7107799	641450	1181	UTM83-8	WHI11001189	0.1	145	72.3	0.13	0.72	121	23.58	36.2
1098544	7107752	641449	1168	UTM83-8	WHI11001189	0.1	98	9.1	0.07	0.39	31	18.81	34.8
1098545	7107750	641399	1143	UTM83-8	WHI11001189	0.1	22	15.6	0.13	0.83	52	25.42	58.8
1098546	7107799	641398	1144	UTM83-8	WHI11001189	0.4	111	9.1	0.11	0.45	41	23.66	44.4
1098547	7107803	641350	1129	UTM83-8	WHI11001189	1	180	16.9	0.1	0.61	176	17.97	45.5
1098548	7107749	641351	1120	UTM83-8	WHI11001189	2.1	216	18.5	0.11	0.7	204	28.35	56.2
1098549	7107752	641299	1089	UTM83-8	WHI11001189	0.1	30	16.5	0.14	0.59	58	28.61	74.3
1098550	7107799	641298	1095	UTM83-8	WHI11001189	1	123	16.1	0.09	0.62	115	27.36	63.8
1098551	7108204	641998	1214	UTM83-8	WHI11001189	0.1	115	9.7	0.1	0.33	159	25.05	58.1
1098552	7108206	642046	1192	UTM83-8	WHI11001189	0.2	79	15.9	0.11	0.97	83	31.56	74.5
1098553	7108202	642099	1161	UTM83-8	WHI11001189	0.1	34	9.2	0.13	0.29	76	30.62	73.8
1098554	7108198	642145	1133	UTM83-8	WHI11001189	0.7	184	9.9	0.15	0.38	130	40.08	101.2
1098555	7108197	642203	1118	UTM83-8	WHI11001189	4	60	9.9	0.12	0.4	65	23.67	61.4
1098556	7107951	641643	1283	UTM83-8	WHI11001189	2.5	132	20	0.15	2.76	89	38.58	69.9
1098557	7107950	641748	1226	UTM83-8	WHI11001189	8.9	161	18.5	0.12	1.94	135	25.35	68.9
1098558	7107954	641695	1258	UTM83-8	WHI11001189	0.8	149	16.6	0.11	1.35	80	35.28	102.8
1098559	7107950	641797	1204	UTM83-8	WHI11001189	4	123	14.9	0.12	1.35	111	30.36	70.1
1098560	7107952	641844	1181	UTM83-8	WHI11001189	6.1	222	24.7	0.14	2.66	161	50.27	43.8
1098561	7107951	641896	1153	UTM83-8	WHI11001189	4.4	94	17.9	0.14	1.03	90	33.39	73.2
1098562	7107952	641949	1127	UTM83-8	WHI11001189	0.1	57	15.7	0.14	1.07	36	41.71	88.3
1098563	7108226	641638	1355	UTM83-8	WHI11001189	2.6	172	13.4	0.17	0.96	157	29.86	74.3
1098564	7107950	642044	1067	UTM83-8	WHI11001189	0.1	55	9.7	0.11	0.55	33	27.22	56.2
1098565	7107951	642093	1045	UTM83-8	WHI11001189	1.2	150	12.6	0.1	0.52	98	30.49	81.3
1098566	7107956	642142	1024	UTM83-8	WHI11001189	0.8	203	12.7	0.16	0.38	119	32.29	90.2
1098567	7107951	641591	1285	UTM83-8	WHI11001189	0.4	29	38.7	0.08	0.73	25	9.43	22.7
1098568	7107952	641548	1258	UTM83-8	WHI11001189	0.8	64	40.9	0.13	1.29	64	28.16	50.5
1098569	7107958	641505	1222	UTM83-8	WHI11001189	0.1	7	13	0.05	0.43	10	12.46	34.1
1098570	7107950	641448	1195	UTM83-8	WHI11001189	0.5	85	20.2	0.13	0.91	23	22.81	50.6
1098571	7107948	641402	1171	UTM83-8	WHI11001189	2	37	20.7	0.13	0.96	46	28.58	68.3
1098572	7107958	641349	1146	UTM83-8	WHI11001189	2.8	122	19.2	0.13	0.61	99	33.07	70.7
1098573	7107950	641248	1100	UTM83-8	WHI11001189	2	110	12.8	0.12	0.64	127	29.58	88.8
1098574	7107946	641201	1084	UTM83-8	WHI11001189	2.3	87	10.3	0.1	0.6	132	26.01	115.2
1098575	7108647	640794	1387	UTM83-8	WHI11001189	44.7	217	47.5	0.18	4.44	673	40.5	36.5
1098576	7108600	640799	1373	UTM83-8	WHI11001189	38.4	169	20.1	0.08	2.62	445	30.04	20

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1098577	7108548	640798	1361	UTM83-8	WHI11001189	1.2	50	3.8	0.04	0.58	50	10.84	13
1098578	7108501	640800	1375	UTM83-8	WHI11001189	2	49	6.5	0.04	0.72	54	12.19	19.6
1098579	7108456	640800	1351	UTM83-8	WHI11001189	1.3	92	11.4	0.08	1.1	103	20.24	67.8
1098580	7108403	640803	1326	UTM83-8	WHI11001189	0.1	38	17.1	0.09	0.72	30	23.42	29.1
1098581	7108359	640800	1303	UTM83-8	WHI11001189	1.7	69	34.9	0.16	1.26	97	29.93	37.9
1098582	7108256	640802	1239	UTM83-8	WHI11001189	1.2	289	4.9	0.23	0.29	58	51.44	77.7
1098583	7108206	640800	1214	UTM83-8	WHI11001189	2.1	99	5.6	0.22	0.28	37	65.55	67.2
1098584	7108158	640795	1186	UTM83-8	WHI11001189	4.4	66	15.9	0.1	1.33	133	21.4	46.7
1098585	7108107	640800	1168	UTM83-8	WHI11001189	0.4	67	3.9	0.15	0.33	25	22.64	54.8
1098586	7108055	640802	1183	UTM83-8	WHI11001189	0.7	104	5.9	0.11	0.36	27	43.42	84.9
1098587	7108005	640802	1203	UTM83-8	WHI11001189	0.2	269	5.2	0.17	0.25	44	69.99	88.9
1098588	7107961	640805	1205	UTM83-8	WHI11001189	1.9	204	4.6	0.15	0.36	42	73.59	106.7
1098589	7107904	640797	1200	UTM83-8	WHI11001189	0.3	112	3.1	0.13	0.37	23	35.1	76
1098590	7107854	640796	1193	UTM83-8	WHI11001189	1.5	81	5.7	0.15	0.51	27	20.47	84.8
1098591	7107804	640798	1196	UTM83-8	WHI11001189	2.3	30	2.3	0.19	0.35	16	28.99	70.4
1098592	7107754	640803	1201	UTM83-8	WHI11001189	0.1	54	5	0.14	0.35	39	26.42	68
1098593	7107752	640895	1148	UTM83-8	WHI11001189	0.3	64	6	0.13	0.14	19	31.86	95.3
1098594	7107796	640895	1142	UTM83-8	WHI11001189	1.1	82	6.5	0.1	0.2	23	43.88	88.6
1098595	7107852	640897	1129	UTM83-8	WHI11001189	0.2	82	3.8	0.12	0.19	34	27.71	83.9
1098596	7107897	640902	1127	UTM83-8	WHI11001189	0.6	77	3.9	0.12	0.53	6	43.51	82
1098597	7107949	640898	1134	UTM83-8	WHI11001189	0.1	178	1.8	0.1	0.17	19	25.88	68
1098598	7107998	640901	1130	UTM83-8	WHI11001189	0.1	66	5.3	0.11	0.2	30	39.21	97.6
1098599	7108048	640901	1126	UTM83-8	WHI11001189	5.1	240	13.5	0.2	0.84	359	43.82	738.8
1098600	7108102	640905	1118	UTM83-8	WHI11001189	5.6	76	18.5	0.1	1.31	117	23.19	61.4
1098601	7108102	642198	1074	UTM83-8	WHI11001190	1.2	121	7.6	0.08	0.36	80	18.83	55
1098602	7108105	642250	1051	UTM83-8	WHI11001190	0.9	108	13.2	0.11	0.39	88	31.09	75.9
1098603	7108101	641602	1329	UTM83-8	WHI11001190	0.1	89	9.3	0.04	0.69	38	14.54	36.1
1098604	7108100	641551	1306	UTM83-8	WHI11001190	2.8	182	13.2	0.11	1.21	169	29.94	85.5
1098605	7108100	641500	1273	UTM83-8	WHI11001190	2	165	16.2	0.12	1.34	106	32.3	69.8
1098606	7108099	641450	1229	UTM83-8	WHI11001190	3.1	161	16.2	0.11	1.23	151	29.34	67.3
1098607	7108101	641402	1197	UTM83-8	WHI11001190	2.5	120	17.7	0.13	1.15	112	31.5	88.3
1098608	7108103	641352	1170	UTM83-8	WHI11001190	2.9	172	19.9	0.1	1.09	202	28.04	75.4
1098609	7108101	641300	1140	UTM83-8	WHI11001190	1.9	124	13.5	0.1	0.74	138	30.29	80.1
1098610	7108101	641254	1116	UTM83-8	WHI11001190	1.5	113	14.1	0.1	0.69	84	27.62	99.8
1098611	7108099	641197	1111	UTM83-8	WHI11001190	0.3	114	17	0.11	0.71	87	35.56	85.2
1098612	7108649	632400	1320	UTM83-8	WHI11001191	3.5	114	14.6	0.16	0.63	119	36.9	61
1098613	7108603	632396	1316	UTM83-8	WHI11001191	3.1	169	5.3	0.19	0.42	63	68.49	119.6
1098614	7108554	632399	1309	UTM83-8	WHI11001191	5.7	139	9.1	0.11	0.48	137	28.61	111.7
1098615	7108503	632402	1287	UTM83-8	WHI11001191	5.8	234	24.3	0.33	0.58	299	32.64	59.4
1098616	7108451	632395	1319	UTM83-8	WHI11001191	7.8	160	6.2	0.25	0.47	137	53.36	126.6
1098617	7108405	632399	1355	UTM83-8	WHI11001191	10.2	161	8.8	0.13	0.63	338	29.05	130.8
1098618	7108352	632401	1383	UTM83-8	WHI11001191	2.6	181	10.6	0.13	0.47	335	25.01	103.3
1098619	7108305	632402	1404	UTM83-8	WHI11001191	48.1	4512	23.7	0.33	1.14	804	31.6	132.5
1098620	7108204	632404	1383	UTM83-8	WHI11001191	0.5	41	11.7	0.11	0.29	29	29.26	83.7
1098621	7108154	632403	1350	UTM83-8	WHI11001191	0.9	106	14.4	0.1	0.44	38	33.52	128.5
1098622	7108104	632399	1310	UTM83-8	WHI11001191	0.7	69	12.9	0.09	0.52	33	36.44	70.1
1098623	7108055	632396	1280	UTM83-8	WHI11001191	0.9	63	13.4	0.12	0.34	33	50.02	84.5
1098624	7107853	632393	1207	UTM83-8	WHI11001191	1.3	186	9.1	0.11	0.47	264	29.12	70.1
1098625	7107802	632394	1216	UTM83-8	WHI11001191	2.6	162	12.4	0.13	0.6	240	34.71	56.6
1098626	7107756	632397	1231	UTM83-8	WHI11001191	1.2	149	9.6	0.11	0.39	437	44.73	75.8
1098627	7107703	632396	1253	UTM83-8	WHI11001191	2.5	202	31	0.14	1.71	607	41.15	134.7
1098628	7107656	632399	1285	UTM83-8	WHI11001191	1.5	181	20.1	0.13	1.31	638	47.02	211.3
1098629	7107598	632403	1314	UTM83-8	WHI11001191	1.1	26	11.3	0.13	0.46	44	23.07	54.7
1098630	7107553	632402	1309	UTM83-8	WHI11001191	1.9	123	21.8	0.37	1.06	287	24.72	59.1
1098631	7107500	632402	1281	UTM83-8	WHI11001191	2.3	141	61.5	0.25	1.2	193	45.09	69.7
1098632	7107402	632394	1244	UTM83-8	WHI11001191	1.9	46	9.5	0.09	0.51	43	17.7	57.8
1098633	7107353	632402	1239	UTM83-8	WHI11001191	1.3	59	4.8	0.17	0.22	26	23.78	54.3
1098634	7107300	632402	1231	UTM83-8	WHI11001191	0.4	92	5.6	0.11	0.31	13	20.57	69.8
1098635	7107252	632396	1227	UTM83-8	WHI11001191	1.4	46	7	0.11	0.31	10	19.73	82.8
1098636	7107200	632397	1213	UTM83-8	WHI11001191	0.1	95	6.2	0.13	0.3	17	23.81	130.8
1098637	7107946	633199	1509	UTM83-8	WHI11001191	0.6	42	5.8	0.12	0.18	25	21.18	71.4
1098638	7107906	633196	1511	UTM83-8	WHI11001191	1.9	48	7.6	0.15	0.65	41	16.51	75.4

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1098639	7107852	633196	1495	UTM83-8	WHI11001191	1	79	5.7	0.24	0.2	100	26.74	36.2
1098640	7107805	633199	1472	UTM83-8	WHI11001191	0.6	259	8.9	0.12	0.62	81	19.45	66.4
1098641	7107752	633201	1434	UTM83-8	WHI11001191	0.8	182	15.6	0.08	1.16	171	66.46	314.3
1098642	7107699	633204	1409	UTM83-8	WHI11001191	1.3	114	35.9	0.09	2.53	399	40.75	50.6
1098643	7107646	633195	1402	UTM83-8	WHI11001191	1.4	97	13.4	0.09	1.04	156	23.84	52.2
1098644	7107599	633201	1397	UTM83-8	WHI11001191	1.1	124	17.6	0.09	0.65	132	23.67	173.3
1098645	7107553	633200	1369	UTM83-8	WHI11001191	0.4	66	7.3	0.08	0.33	38	13.07	44.7
1098646	7107498	633197	1345	UTM83-8	WHI11001191	1.7	73	4.6	0.13	0.2	29	26.72	57.1
1098647	7107450	633196	1325	UTM83-8	WHI11001191	2	66	9.1	0.09	0.46	22	19.21	58.3
1098648	7107398	633200	1308	UTM83-8	WHI11001191	1.2	100	8.5	0.1	0.53	25	21.51	54.6
1098649	7107353	633200	1291	UTM83-8	WHI11001191	0.1	251	5.7	0.13	0.32	26	18.31	71.2
1098650	7107302	633200	1280	UTM83-8	WHI11001191	1.8	46	6	0.16	0.37	21	28.54	77.1
1098651	7107501	631593	953	UTM83-8	WHI11001190	1.6	105	13.4	0.1	0.55	180	19.49	74.3
1098652	7107450	631595	945	UTM83-8	WHI11001190	0.6	10	12.8	0.11	0.45	105	19.51	62.8
1098653	7107355	631604	929	UTM83-8	WHI11001190	1.2	127	8.1	0.14	0.38	140	18.84	82.5
1098654	7107305	631594	921	UTM83-8	WHI11001190	1.6	287	5.3	0.14	0.24	121	16.64	72.4
1098655	7107250	631597	920	UTM83-8	WHI11001190	1.1	56	8.3	0.14	0.33	21	35.19	85.4
1098656	7107204	631600	925	UTM83-8	WHI11001190	1.9	208	9.7	0.14	0.33	83	23.73	81.5
1098657	7107147	631597	924	UTM83-8	WHI11001190	3.2	22	7.2	0.1	0.32	23	15.18	58.3
1098658	7108647	631994	1272	UTM83-8	WHI11001191	0.7	70	14.9	0.1	0.29	147	29.86	92.6
1098659	7108606	631998	1111	UTM83-8	WHI11001191	1.2	106	11.2	0.13	0.3	141	33.43	125.9
1098660	7108554	632002	1079	UTM83-8	WHI11001191	0.1	73	16.8	0.18	0.26	71	29.73	67.6
1098661	7108506	632001	1098	UTM83-8	WHI11001191	0.1	42	12.8	0.11	0.64	43	23.51	73.3
1098662	7108454	632003	1119	UTM83-8	WHI11001191	1.3	57	6.3	0.12	0.19	94	16.6	55.8
1098663	7108357	631998	1110	UTM83-8	WHI11001191	1.7	103	7	0.16	0.34	60	23.58	98.5
1098664	7108210	632000	1132	UTM83-8	WHI11001191	0.6	67	6.6	0.12	0.49	235	18.68	113.7
1098665	7108148	632009	1140	UTM83-8	WHI11001191	0.2	38	11.2	0.11	0.59	64	21.62	64.9
1098666	7108110	631998	1137	UTM83-8	WHI11001191	3.9	162	8.3	0.16	0.51	249	19.22	83.5
1098667	7108050	631999	1137	UTM83-8	WHI11001191	0.4	150	5.8	0.1	0.39	187	18.09	58
1098668	7107955	631999	1097	UTM83-8	WHI11001191	0.7	190	14.3	0.17	0.43	106	35.54	89.3
1098669	7107806	632001	859	UTM83-8	WHI11001191	0.2	120	6.6	0.1	0.37	143	20.25	108.5
1098670	7107749	631993	1037	UTM83-8	WHI11001191	1.1	238	37.2	0.14	2.45	738	42.19	515.4
1098671	7107703	631993	1046	UTM83-8	WHI11001191	0.5	110	36.3	0.12	1.81	400	22.98	120.7
1098672	7107649	631990	1075	UTM83-8	WHI11001191	0.4	126	20.7	0.09	1.22	337	23.08	29.1
1098673	7107605	631995	1084	UTM83-8	WHI11001191	0.1	267	43.4	0.21	4.14	446	50.5	35.5
1098674	7107553	631998	1091	UTM83-8	WHI11001191	1.5	181	28.4	0.28	2	305	29.4	51
1098675	7107496	632002	1092	UTM83-8	WHI11001191	0.2	245	36.3	0.2	2.46	653	53.8	56.1
1098676	7107451	632004	1076	UTM83-8	WHI11001191	0.1	93	16.8	0.17	0.71	219	36.81	68.7
1098677	7108299	632801	1559	UTM83-8	WHI11001191	0.1	119	9.2	0.16	0.52	67	27.44	72.6
1098678	7108353	632801	1561	UTM83-8	WHI11001191	0.8	101	11.2	0.16	0.71	92	46.05	86.1
1098679	7108396	632800	1542	UTM83-8	WHI11001191	0.5	81	12.6	0.11	0.63	227	25.89	102.9
1098680	7108445	632804	1512	UTM83-8	WHI11001191	22.8	754	21.8	0.21	1.81	928	38.48	148
1098681	7108496	632797	1475	UTM83-8	WHI11001191	11.5	561	12.6	0.21	1.17	571	26.58	89.4
1098682	7108549	632802	1441	UTM83-8	WHI11001191	6	612	11.3	0.12	7.22	1697	23.02	85.6
1098683	7108603	632799	1403	UTM83-8	WHI11001191	12.8	672	11.8	0.26	2.16	632	20.55	92.6
1098684	7108644	632802	1375	UTM83-8	WHI11001191	10.8	389	9.4	0.2	3.23	403	17.39	92.1
1098701	7108301	641947	1276	UTM83-8	WHI11001189	0.2	67	8.8	0.16	0.32	26	26.69	65.6
1098702	7108298	642043	1209	UTM83-8	WHI11001189	1.2	235	7.9	0.16	0.27	82	26.48	78.2
1098703	7108302	642093	1198	UTM83-8	WHI11001189	0.7	100	8.6	0.1	0.29	61	24.07	70.7
1098704	7108302	642148	1188	UTM83-8	WHI11001189	0.9	116	8.8	0.09	0.32	68	24.31	71.5
1098705	7108300	642198	1177	UTM83-8	WHI11001189	1.3	208	9.9	0.08	0.36	104	27.26	66.2
1098706	7108304	642247	1157	UTM83-8	WHI11001189	1.1	151	7.4	0.12	0.28	43	24.4	44.5
1098707	7108298	642340	1103	UTM83-8	WHI11001189	0.9	160	8.1	0.09	0.33	67	27.1	72.2
1098708	7108209	641650	1371	UTM83-8	WHI11001189	2.7	51	8.4	0.1	0.31	81	18.99	60.3
1098709	7108050	641649		UTM83-8	WHI11001189	2.2	147	35.5	0.12	2.76	444	71.9	89.1
1098710	7108041	641705	1290	UTM83-8	WHI11001189	59.1	42	479.5	0.11	2.16	130	21.78	20.2
1098711	7108052	641748	1262	UTM83-8	WHI11001189	1.9	37	78	0.12	0.91	56	29.25	70.6
1098712	7108048	641801	1055	UTM83-8	WHI11001189	2.6	162	16.5	0.14	0.93	149	29.35	86
1098713	7108046	641848	1198	UTM83-8	WHI11001189	0.6	61	13.3	0.21	0.81	35	33.64	87.6
1098714	7108051	641894	1183	UTM83-8	WHI11001189	1.4	165	14.9	0.29	0.96	217	39.77	75.7
1098715	7108049	641951	1164	UTM83-8	WHI11001189	0.4	42	8.8	0.09	0.42	37	25.3	69.7
1098716	7108046	641995	1138	UTM83-8	WHI11001189	0.6	41	9.1	0.09	0.37	133	26.15	154.7

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1098717	7108054	642050	1104	UTM83-8	WHI11001189	0.1	288	5.9	0.12	0.26	16	30.47	98.5
1098718	7108052	642096	1090	UTM83-8	WHI11001189	0.5	117	9.7	0.2	0.31	61	42.8	99.2
1098719	7108048	642150	1072	UTM83-8	WHI11001189	0.5	91	13.4	0.17	0.43	47	41.35	98.4
1098720	7108054	642195	1053	UTM83-8	WHI11001189	1.2	152	14.2	0.15	0.48	125	42.38	99.8
1098721	7108049	641591	1295	UTM83-8	WHI11001189	0.1	40	24.7	0.07	1.04	440	29.32	26.7
1098722	7108050	641550	1277	UTM83-8	WHI11001189	1.6	138	30.5	0.13	2.61	174	45.06	48.2
1098723	7108050	641499	1245	UTM83-8	WHI11001189	6.5	122	63	0.11	1.96	162	24.06	50.4
1098724	7108055	641446	1217	UTM83-8	WHI11001189	8.8	187	46.3	0.11	1.9	136	28.56	37.3
1098725	7108049	641400	1056	UTM83-8	WHI11001189	1.3	37	33.5	0.11	1.19	33	30.7	67.7
1098726	7108052	641352	1162	UTM83-8	WHI11001189	2.9	126	18.9	0.13	0.86	133	34	85
1098727	7108051	641301	1138	UTM83-8	WHI11001189	0.9	159	14.1	0.1	0.66	95	30.71	62.2
1098728	7108041	641250	1108	UTM83-8	WHI11001189	1.3	140	10.5	0.11	0.58	86	28.7	111.7
1098729	7108038	641198	1057	UTM83-8	WHI11001189	0.9	130	14.2	0.12	0.64	472	33.56	98.4
1098730	7108657	631601	973	UTM83-8	WHI11001190	2.2	116	13.7	0.16	0.42	202	35.65	134.3
1098731	7108600	631598	980	UTM83-8	WHI11001190	2.4	99	12.4	0.17	0.41	206	32.61	123.3
1098732	7108560	631597	994	UTM83-8	WHI11001190	2.9	107	10	0.14	0.39	254	36.24	105.8
1098733	7108502	631597	956	UTM83-8	WHI11001190	2.2	94	10.3	0.12	0.39	173	27.45	97.6
1098734	7108450	631600	941	UTM83-8	WHI11001190	3.3	104	9.3	0.14	0.39	254	29.24	125.3
1098735	7108410	631599	960	UTM83-8	WHI11001190	2.4	92	10.3	0.14	0.36	197	28.32	120.2
1098736	7108347	631606	991	UTM83-8	WHI11001190	2.4	114	8.7	0.12	0.34	166	21.13	83.4
1098737	7108255	631596	977	UTM83-8	WHI11001190	2.3	98	5.8	0.15	0.38	171	19.27	88.1
1098738	7108198	631601	958	UTM83-8	WHI11001190	3.3	105	5.3	0.15	0.36	269	15.35	89.5
1098739	7108149	631601	956	UTM83-8	WHI11001190	2.2	84	4	0.14	0.28	156	15.37	92.1
1098740	7108047	631604	928	UTM83-8	WHI11001190	2.3	184	8.5	0.11	0.39	253	16.91	77.9
1098741	7108005	631600	908	UTM83-8	WHI11001190	0.1	170	9.1	0.08	0.45	232	22.62	99.5
1098742	7107957	631595	873	UTM83-8	WHI11001190	0.9	172	10.2	0.13	0.5	161	31.32	153.4
1098743	7107902	631594	889	UTM83-8	WHI11001190	1.1	28	7.9	0.14	0.33	43	16.74	53.7
1098744	7107853	631598	990	UTM83-8	WHI11001190	2	132	9.2	0.11	0.47	197	23.48	73.5
1098745	7107801	631595	979	UTM83-8	WHI11001190	2.3	137	8.2	0.11	0.45	187	16.68	66.7
1098746	7107755	631601	973	UTM83-8	WHI11001190	1.7	158	8.2	0.12	0.45	223	18.05	60.1
1098747	7107704	631602	975	UTM83-8	WHI11001190	4.1	135	11	0.12	0.61	252	19.26	82.6
1098748	7107655	631605	977	UTM83-8	WHI11001190	1.6	119	11.1	0.13	0.45	141	17.59	65.1
1098749	7107604	631597	975	UTM83-8	WHI11001190	4	18	12.4	0.12	0.4	63	19.74	75.7
1098750	7107555	631596	970	UTM83-8	WHI11001190	2.6	119	13.2	0.13	0.47	236	17.9	72.9
1098751	7107653	633499	1246	UTM83-8	WHI11001191	1.2	40	18.9	0.12	0.77	157	7.52	71.8
1098752	7107601	633493	1218	UTM83-8	WHI11001191	0.1	50	8.6	0.04	0.3	60	8.74	16.2
1098753	7107552	633498	1186	UTM83-8	WHI11001191	1	70	12.6	0.13	0.69	70	20.83	32.4
1098754	7107506	633499	1164	UTM83-8	WHI11001191	0.9	114	8.9	0.1	0.49	107	15.83	64.9
1098755	7107448	633501	1166	UTM83-8	WHI11001191	0.5	56	7.2	0.16	0.25	18	35.52	94.6
1098756	7107403	633496	1157	UTM83-8	WHI11001191	0.1	208	7.4	0.1	0.24	17	18.44	65.2
1098757	7107350	633500	1162	UTM83-8	WHI11001191	1.3	230	9.6	0.18	0.45	42	72.67	106.4
1098758	7107300	633499	1176	UTM83-8	WHI11001191	0.5	62	6.2	0.09	0.24	28	23.48	79.2
1098759	7107249	633497	1186	UTM83-8	WHI11001191	0.4	94	7.5	0.11	0.35	29	29.73	83.8
1098760	7107202	633497	1189	UTM83-8	WHI11001191	0.7	79	7.7	0.1	0.4	25	19.49	68.8
1098761	7108646	633698	1651	UTM83-8	WHI11001191	0.6	45	11.5	0.09	0.73	10	48.47	88.3
1098762	7108602	633700	1620	UTM83-8	WHI11001191	1.3	109	14.7	0.11	0.58	30	83.04	116.9
1098763	7108554	633698	1584	UTM83-8	WHI11001191	0.4	100	27.2	0.15	0.88	23	58.45	115.4
1098764	7108502	633700	1547	UTM83-8	WHI11001191	0.1	338	11.2	0.1	0.58	39	43.09	93.9
1098765	7108450	633697	1513	UTM83-8	WHI11001191	0.7	139	13.8	0.12	0.53	26	37.26	85.4
1098766	7108403	633697	1482	UTM83-8	WHI11001191	2.6	247	12.7	0.12	0.65	30	38.21	82.6
1098767	7108352	633698	1454	UTM83-8	WHI11001191	1.3	147	14.3	0.12	0.67	40	39.12	142.8
1098768	7108303	633698	1429	UTM83-8	WHI11001191	0.6	114	16	0.09	0.89	20	53.62	170
1098769	7108252	633702	1404	UTM83-8	WHI11001191	1.2	146	9.2	0.13	0.42	29	43.05	92.9
1098770	7108206	633697	1382	UTM83-8	WHI11001191	1.6	246	7.3	0.13	0.64	39	15.52	80.6
1098771	7108154	633699	1364	UTM83-8	WHI11001191	1.2	122	11.3	0.14	0.77	21	40.46	116
1098772	7108100	633701	1357	UTM83-8	WHI11001191	2.3	74	11.3	0.15	0.92	47	43.88	120.8
1098773	7108053	633702	1353	UTM83-8	WHI11001191	0.8	254	8.8	0.18	0.27	68	33.77	128.2
1098774	7107997	633699	1347	UTM83-8	WHI11001191	2.7	44	12.1	0.14	0.9	29	28.9	116.3
1098775	7107948	633701	1329	UTM83-8	WHI11001191	2.4	91	8.6	0.15	0.63	35	21.52	97.6
1098776	7107899	633701	1299	UTM83-8	WHI11001191	1.2	229	8.7	0.13	0.53	87	21.89	97
1098777	7107852	633700	1282	UTM83-8	WHI11001191	1.4	276	12	0.09	1.11	298	53.2	139.2
1098778	7107796	633693	1290	UTM83-8	WHI11001191	3.8	171	28.9	0.19	3.31	399	35.19	37.3

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1098779	7107751	633697	1233	UTM83-8	WHI11001191	0.1	83	20.3	0.15	1.34	147	20.6	43.3
1098780	7107701	633703	1258	UTM83-8	WHI11001191	1.3	161	11.2	0.11	0.72	104	26.45	88.7
1098781	7107654	633698	1243	UTM83-8	WHI11001191	1.5	194	17.6	0.12	1.14	161	29.81	133
1098782	7107602	633698	1228	UTM83-8	WHI11001191	1.2	72	14	0.07	0.71	93	18.23	32.6
1098783	7107555	633701	1216	UTM83-8	WHI11001191	0.7	246	15.7	0.12	0.78	78	36.83	172.5
1098784	7107500	633697	1198	UTM83-8	WHI11001191	0.6	49	27.8	0.1	0.76	57	40.81	48.8
1098785	7107447	633700	1180	UTM83-8	WHI11001191	0.4	83	13.2	0.12	0.47	66	24.07	75.5
1098786	7107397	633697	1107	UTM83-8	WHI11001191	0.1	43	9.1	0.11	0.36	19	30.57	79.4
1098787	7107350	633701	1064	UTM83-8	WHI11001191	1	96	5.5	0.11	0.3	63	14.2	56.9
1098788	7107302	633700	1049	UTM83-8	WHI11001191	0.1	69	8.4	0.13	0.28	35	29.85	77.6
1098789	7107251	633700	1041	UTM83-8	WHI11001191	0.3	142	9.6	0.12	0.29	32	35.21	109.2
1098790	7107199	633698	1040	UTM83-8	WHI11001191	0.5	104	9.7	0.12	0.37	36	36.83	116.9
1098791	7108644	634100	1569	UTM83-8	WHI11001191	0.1	653	15	0.14	0.55	31	48.73	114.1
1098792	7108601	634099	1539	UTM83-8	WHI11001191	0.4	239	8	0.15	0.36	28	52.07	85.7
1098793	7108551	634099	1510	UTM83-8	WHI11001191	0.1	319	6.9	0.17	0.34	31	52.62	92.1
1098794	7108500	634097	1475	UTM83-8	WHI11001191	0.1	488	6.1	0.13	0.33	47	46.11	80.3
1098795	7108451	634098	1444	UTM83-8	WHI11001191	0.1	254	10.7	0.18	0.36	57	49.17	84.4
1098796	7108398	634098	1420	UTM83-8	WHI11001191	0.1	308	8.7	0.15	0.37	26	50.76	103.1
1098797	7108346	634097	1393	UTM83-8	WHI11001191	0.5	248	9.3	0.13	0.38	18	43.78	91.1
1098798	7108299	634097	1367	UTM83-8	WHI11001191	1.4	213	15.5	0.16	0.54	39	60.63	122.6
1098799	7108255	634098	1340	UTM83-8	WHI11001191	0.2	206	14.8	0.16	0.5	22	44.19	96.5
1098800	7108198	634099	1321	UTM83-8	WHI11001191	0.6	183	14.3	0.11	0.48	32	50.33	98
1098801	7107649	631698	1009	UTM83-8	WHI11001190	2.1	85	11.1	0.08	0.48	292	18.59	63.4
1098802	7107597	631701	1009	UTM83-8	WHI11001190	2.8	78	14.9	0.09	0.65	197	23.9	75.5
1098803	7107554	631698	999	UTM83-8	WHI11001190	0.8	61	17.3	0.1	0.8	161	22.25	58.8
1098804	7107503	631700	980	UTM83-8	WHI11001190	1.3	83	12.7	0.08	0.64	136	20.04	49.4
1098805	7107455	631701	968	UTM83-8	WHI11001190	1.8	70	10.3	0.09	0.5	67	23.17	50.8
1098806	7107404	631702	950	UTM83-8	WHI11001190	1.1	96	8.8	0.12	0.46	119	17.05	53.8
1098807	7107349	631697	943	UTM83-8	WHI11001190	2.1	95	5.6	0.12	0.38	103	17.77	68.6
1098808	7107303	631701	946	UTM83-8	WHI11001190	0.7	46	5.3	0.09	0.26	13	12.02	36.4
1098809	7107250	631697	945	UTM83-8	WHI11001190	2.5	158	7	0.1	0.22	73	22.54	71.2
1098810	7107202	631699	946	UTM83-8	WHI11001190	0.5	120	3.6	0.09	0.22	29	15.03	25.4
1098811	7108649	632101	1127	UTM83-8	WHI11001191	0.5	167	15	0.11	0.31	83	33.13	102.3
1098812	7108547	632092	1138	UTM83-8	WHI11001191	1.1	102	8.3	0.09	0.4	204	18.98	66.8
1098813	7108505	632099	1162	UTM83-8	WHI11001191	3.3	145	12.4	0.16	0.47	473	21.08	61.7
1098814	7108398	632096	1190	UTM83-8	WHI11001191	0.7	82	5.5	0.18	0.34	77	41.07	112.7
1098815	7108347	632097	1208	UTM83-8	WHI11001191	4.8	58	5	0.1	0.62	308	20.27	94.4
1098816	7108255	632098	1222	UTM83-8	WHI11001191	3.9	64	1.1	0.17	0.26	184	18.21	99
1098817	7108206	632102	1226	UTM83-8	WHI11001191	1.8	108	2.8	0.1	0.25	92	12.73	71.2
1098818	7108152	632101	1199	UTM83-8	WHI11001191	7.4	208	9.7	0.17	0.67	141	19.02	94.2
1098819	7108056	632109	1166	UTM83-8	WHI11001191	1	70	12.4	0.13	0.45	31	23.45	71.5
1098820	7108002	632095	1131	UTM83-8	WHI11001191	0.6	55	12.7	0.14	0.37	30	33.34	93.7
1098821	7107905	632103	1070	UTM83-8	WHI11001191	0.8	121	8	0.09	0.39	102	24.45	119.7
1098822	7107852	632096	1085	UTM83-8	WHI11001191	0.4	157	7.1	0.2	0.23	51	50.77	82.8
1098823	7107744	632101	1132	UTM83-8	WHI11001191	0.4	121	36.9	0.12	2.37	348	21.39	55.6
1098824	7107700	632097	1159	UTM83-8	WHI11001191	0.9	191	28.7	0.12	2	420	28.63	27.1
1098825	7107656	632098	1183	UTM83-8	WHI11001191	0.3	34	12.2	0.12	0.64	26	17.91	51.7
1098826	7107606	632102	1189	UTM83-8	WHI11001191	0.1	39	20.2	0.13	1.18	117	29.06	43.7
1098827	7107553	632104	1187	UTM83-8	WHI11001191	0.7	27	13.7	0.13	0.69	64	20.66	51.9
1098828	7107501	632103	1169	UTM83-8	WHI11001191	0.1	84	17.5	0.12	0.98	93	18.04	56.3
1098829	7107451	632095	1139	UTM83-8	WHI11001191	0.1	27	12.8	0.13	0.41	42	21.95	48
1098830	7107402	632099	1114	UTM83-8	WHI11001191	0.1	17	17.4	0.08	0.59	28	18.83	49.2
1098831	7107353	632104	1111	UTM83-8	WHI11001191	0.1	66	3	0.08	0.23	11	15.22	45
1098832	7107301	632099	1110	UTM83-8	WHI11001191	0.2	37	5.2	0.07	0.18	22	29.68	59.7
1098833	7107248	632099	1122	UTM83-8	WHI11001191	0.1	85	5.1	0.12	0.21	44	30.72	60.2
1098834	7107205	632097	1124	UTM83-8	WHI11001191	0.1	54	5.3	0.08	0.27	39	23.88	58.4
1098835	7107207	632001	1078	UTM83-8	WHI11001191	0	0	0	0	0	0	0	0
1098836	7108346	632890	1569	UTM83-8	WHI11001191	0.8	162	15.9	0.12	0.49	201	44.67	104.3
1098837	7108400	632901	1540	UTM83-8	WHI11001191	0.1	126	17.5	0.13	0.4	111	60.11	96.2
1098838	7108450	632895	1503	UTM83-8	WHI11001191	1.1	102	15.2	0.08	0.36	78	32.22	103.9
1098839	7108497	632898	1474	UTM83-8	WHI11001191	0.1	102	12	0.07	0.34	80	27.33	141.4
1098840	7108551	632897	1435	UTM83-8	WHI11001191	0.1	110	13.4	0.09	0.35	70	33.05	90.4

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1098841	7108598	632899	1403	UTM83-8	WHI11001191	0.2	131	13.4	0.09	0.35	87	31.69	86.9
1098842	7108647	632901	1372	UTM83-8	WHI11001191	0.5	148	17.3	0.11	0.39	51	50.87	93.8
1098901	7107803	633900	1352	UTM83-8	WHI11001192	1.7	238	34.3	0.12	2.96	118	49.93	289.1
1098902	7107751	633899	1326	UTM83-8	WHI11001192	3.5	409	19.4	0.15	2.29	535	79.45	170.2
1098903	7107702	633900	1311	UTM83-8	WHI11001192	1.2	125	14.4	0.17	0.91	81	26.96	147
1098904	7107649	633897	1302	UTM83-8	WHI11001192	0.5	221	10.7	0.09	1.12	162	37.83	162.9
1098905	7107601	633897	1281	UTM83-8	WHI11001192	1	203	18	0.14	1.89	83	48.9	138.8
1098906	7107551	633900	1263	UTM83-8	WHI11001192	1.2	78	17.1	0.09	0.79	126	16.22	153.1
1098907	7107352	633898	1153	UTM83-8	WHI11001192	0.8	118	8.4	0.25	0.19	33	60.01	112.1
1098908	7107303	633898	1126	UTM83-8	WHI11001192	0.8	56	8.6	0.09	0.36	15	24.52	86.8
1098909	7107253	633901	1101	UTM83-8	WHI11001192	0.1	149	4.7	0.08	0.11	20	39.47	97.7
1098910	7107203	633902	1078	UTM83-8	WHI11001192	0.9	28	5	0.08	0.14	16	28.41	109.3
1098911	7108656	634499	1456	UTM83-8	WHI11001192	1.3	55	12.7	0.12	0.75	14	30.51	103
1098912	7108603	634496	1440	UTM83-8	WHI11001192	0.9	89	10.5	0.12	0.85	35	24	96.5
1098913	7108553	634494	1449	UTM83-8	WHI11001192	0.5	222	18.5	0.12	0.68	33	66.81	114.4
1098914	7108502	634496	1430	UTM83-8	WHI11001192	0.5	115	12.5	0.1	0.67	19	32.23	115.1
1098915	7108452	634495	1420	UTM83-8	WHI11001192	1	266	8.7	0.13	0.36	27	38.09	53.1
1098916	7108398	634494	1420	UTM83-8	WHI11001192	0.7	157	7.5	0.12	0.42	27	22.87	119.9
1098917	7108354	634497	1437	UTM83-8	WHI11001192	0.4	70	5.2	0.19	0.23	27	23.67	79.9
1098918	7108303	634494	1427	UTM83-8	WHI11001192	0.3	165	6.3	0.17	0.41	28	38.13	133.4
1098919	7108201	634498	1442	UTM83-8	WHI11001192	0.2	60	9.7	0.25	1.29	338	29.56	86.2
1098920	7108150	634499		UTM83-8	WHI11001192	1	222	9.5	0.21	0.39	265	33.57	94.4
1098921	7108105	634502	1484	UTM83-8	WHI11001193	1.1	276	4.7	0.06	0.18	279	33.61	64.5
1098922	7108052	634499	1455	UTM83-8	WHI11001193	0.9	113	9.6	0.06	0.83	118	48.14	87.5
1098923	7107997	634505	1437	UTM83-8	WHI11001193	2.6	203	25.2	0.05	2.86	341	49.87	106.4
1098924	7107954	634499	1401	UTM83-8	WHI11001193	2.5	191	22.7	0.06	1.97	190	44.24	102.5
1098925	7107904	634501	1376	UTM83-8	WHI11001193	1.3	107	9.5	0.05	1.33	60	18.72	47.9
1098926	7107857	634498	1333	UTM83-8	WHI11001193	3.4	240	21.4	0.11	2.51	316	44.4	50.2
1098927	7107803	634497	1310	UTM83-8	WHI11001193	1.3	113	15.2	0.12	0.89	71	37.67	70.3
1098928	7107754	634499	1280	UTM83-8	WHI11001193	1.9	125	16.8	0.11	0.98	104	28.89	72.6
1098929	7107602	634493	1170	UTM83-8	WHI11001193	0.1	25	3.7	0.13	0.38	30	10.56	23.8
1098930	7108607	635803	1232	UTM83-8	WHI11001349	1.1	118	5.1	0.09	0.22	72	45.5	53
1098931	7108557	635800	1207	UTM83-8	WHI11001349	0.7	88	4.9	0.05	0.39	66	19.45	77.3
1098932	7108498	635801	1187	UTM83-8	WHI11001349	1.1	107	12.7	0.08	1	72	24.12	65.3
1098933	7108455	635794	1163	UTM83-8	WHI11001349	2.4	85	7.8	0.06	0.79	68	18.23	67
1098934	7108400	635792	1164	UTM83-8	WHI11001349	1.5	130	11.6	0.07	0.99	119	27.91	158.3
1098935	7108352	635799	1148	UTM83-8	WHI11001349	2.9	32	10.1	0.13	0.79	50	31.26	84.6
1098936	7108304	635799	1135	UTM83-8	WHI11001349	2.3	120	10.9	0.13	0.76	64	27.91	74.4
1098937	7108253	635800	1113	UTM83-8	WHI11001349	1.3	96	11.8	0.14	0.78	58	23.31	78.4
1098938	7108204	635799	1084	UTM83-8	WHI11001349	1.5	129	13	0.3	0.57	155	49.21	59.1
1098939	7108151	635801	1066	UTM83-8	WHI11001349	1.5	175	7.4	0.09	0.51	81	16.98	61
1098940	7108103	635799	1037	UTM83-8	WHI11001349	1.6	118	7.8	0.08	0.5	54	18.01	66.3
1098941	7108054	635799	1019	UTM83-8	WHI11001349	1.7	62	10.6	0.14	0.67	46	23.22	90.4
1098942	7107999	635800	998	UTM83-8	WHI11001349	1.3	121	7.8	0.09	0.45	79	19.65	52.6
1098943	7108656	635895	1296	UTM83-8	WHI11001349	1.8	110	5.6	0.07	0.57	84	24.71	24.9
1098944	7108600	635896	1283	UTM83-8	WHI11001349	0.9	140	13.2	0.1	1.14	98	36.21	69.7
1098945	7108553	635897	1263	UTM83-8	WHI11001349	1.5	143	13.3	0.08	1.35	132	29.11	40.5
1098946	7108503	635897	1265	UTM83-8	WHI11001349	1.4	112	13.9	0.08	1.46	142	25.76	37.4
1098947	7108454	635898	1258	UTM83-8	WHI11001349	3.2	153	22.8	0.17	1.85	257	33.04	39.6
1098948	7108404	635900	1235	UTM83-8	WHI11001349	1.1	26	11.4	0.17	0.73	21	25.04	62.5
1098949	7108343	635900	1192	UTM83-8	WHI11001349	1.4	83	14	0.15	1.69	40	35.31	72.4
1098950	7108297	635905	1168	UTM83-8	WHI11001349	1.7	94	11.5	0.12	0.86	50	27.42	74.1
1098968	7108649	633998	1581	UTM83-8	WHI11001193	1.4	292	27.8	0.38	0.53	36	53.53	122.1
1098969	7108601	634001	1544	UTM83-8	WHI11001193	0.9	203	12.9	0.16	0.46	37	61.83	123.4
1098970	7108550	633996	1515	UTM83-8	WHI11001193	0.8	817	7.4	0.15	0.36	31	48.3	97.2
1098971	7108501	633998	1492	UTM83-8	WHI11001193	1	320	9.1	0.13	0.54	14	32.67	57.1
1098972	7108400	634000	1444	UTM83-8	WHI11001193	1.9	178	12.1	0.12	0.51	38	88.85	96
1098973	7108349	634000	1413	UTM83-8	WHI11001193	0.4	267	8	0.12	0.38	52	73.74	82.2
1098974	7108301	634001	1388	UTM83-8	WHI11001193	1	297	12	0.21	0.51	32	52.45	41.1
1098975	7108249	634003	1365	UTM83-8	WHI11001193	0.7	315	15.5	0.24	0.56	21	54.28	49.3
1098976	7108204	633996	1345	UTM83-8	WHI11001193	1.9	814	8.8	0.19	0.42	101	79.99	108.4
1098977	7108151	633998	1343	UTM83-8	WHI11001193	0.8	140	7	0.11	0.47	25	25.63	62.3

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1098978	7108103	634000	1347	UTM83-8	WHI11001193	0.8	85	7.7	0.14	0.52	16	41.64	128.9
1098979	7108052	633999	1356	UTM83-8	WHI11001193	0.1	111	5.8	0.11	0.38	21	19.56	79.8
1098980	7108003	633996	1350	UTM83-8	WHI11001193	0.8	163	5.6	0.16	0.37	56	45.44	90.7
1098981	7107952	634001	1332	UTM83-8	WHI11001193	0.5	184	5.2	0.12	0.33	164	18.71	55.7
1098982	7107804	633993	1276	UTM83-8	WHI11001193	2.1	156	30.8	0.11	3.05	228	80.26	98.8
1098983	7107748	633995	1272	UTM83-8	WHI11001193	1.4	217	20.7	0.13	2.54	164	61.51	69.7
1098984	7107701	633998	1254	UTM83-8	WHI11001193	0.4	65	18.3	0.18	1.14	68	39.54	184.3
1098985	7107653	634000	1237	UTM83-8	WHI11001193	0.1	156	8.5	0.06	0.59	147	26.1	60.5
1098986	7107598	633998	1234	UTM83-8	WHI11001193	0.3	13	7.5	0.1	0.57	24	13.33	39.9
1098987	7107552	634000	1238	UTM83-8	WHI11001193	0.1	11	1.1	0.11	0.2	2	8.37	17.2
1098988	7107501	633997	1230	UTM83-8	WHI11001193	0.6	36	6.7	0.12	0.38	24	20.27	132.7
1098989	7107452	633997	1221	UTM83-8	WHI11001193	0.3	38	5.2	0.16	0.15	12	29.68	96.7
1098990	7107403	633999	1202	UTM83-8	WHI11001193	0.3	56	5.7	0.12	0.28	7	19.07	79
1098991	7107349	633999	1181	UTM83-8	WHI11001193	0.1	163	5.6	0.1	0.27	15	18.48	56.3
1098992	7107302	634000	1163	UTM83-8	WHI11001193	0.7	67	5.8	0.13	0.21	16	65.22	92.9
1098993	7107254	633996	1136	UTM83-8	WHI11001193	4.2	135	4.8	0.15	0.16	20	32.84	105.6
1098994	7108647	634999	1409	UTM83-8	WHI11001193	1.1	70	10.8	0.16	0.72	23	39.41	96.3
1098995	7108602	635000	1385	UTM83-8	WHI11001193	1	82	16.6	0.09	0.6	18	56.29	126.2
1098996	7108551	634997	1362	UTM83-8	WHI11001193	0.5	114	7.3	0.12	0.34	10	26.25	62.7
1098997	7108501	634998	1342	UTM83-8	WHI11001193	0.3	133	7.4	0.12	0.38	32	31.62	86.5
1098998	7108454	634999	1318	UTM83-8	WHI11001193	0.4	75	7.5	0.13	0.33	24	34.98	83.7
1098999	7108400	635003	1305	UTM83-8	WHI11001349	0.3	57	5.9	0.13	0.35	10	24.24	65
1099000	7108348	635001	1257	UTM83-8	WHI11001349	0.6	163	5.4	0.18	0.18	64	29.76	99.3
1266351	7107950	640000	1372	UTM83-8	WHI11001351	0.6	40	4.8	0.18	0.31	11	27.52	77.4
1266352	7107901	639999	1359	UTM83-8	WHI11001351	0.3	41	5.9	0.14	0.35	27	30.72	100.1
1266353	7107853	640002	1336	UTM83-8	WHI11001351	0.1	73	3.8	0.12	0.2	17	20.72	75.2
1266354	7107799	640003	1306	UTM83-8	WHI11001351	1.3	181	4.9	0.15	0.4	33	23.34	81.1
1266355	7107748	640003	1284	UTM83-8	WHI11001351	4.8	268	4	0.17	0.29	40	40.04	86
1266356	7107697	639998	1282	UTM83-8	WHI11001351	2.9	44	6.4	0.11	0.2	36	34.53	89.9
1266357	7107648	639997	1288	UTM83-8	WHI11001351	2.1	33	7.4	0.13	0.37	42	55.8	95.6
1266358	7107598	640000	1296	UTM83-8	WHI11001351	1.6	79	17.1	0.1	0.49	33	114.05	75.4
1266359	7107550	640002	1278	UTM83-8	WHI11001351	1.5	70	5.4	0.13	0.22	31	30.62	102.8
1266360	7107501	640000	1269	UTM83-8	WHI11001351	0.7	84	7	0.12	0.26	66	40.6	107.8
1266361	7107450	639999	1251	UTM83-8	WHI11001351	0.3	33	6	0.11	0.22	18	27.27	94
1266362	7107401	640001	1227	UTM83-8	WHI11001351	0.9	66	7.2	0.12	0.26	26	30.54	96.3
1266363	7107353	640003	1200	UTM83-8	WHI11001351	1.2	46	4.5	0.16	0.2	18	22.65	163.6
1266364	7108100	639596	1295	UTM83-8	WHI11001351	1.5	112	8.8	0.09	0.94	116	24.09	56.2
1266365	7108056	639597	1271	UTM83-8	WHI11001351	0.3	32	6.5	0.12	0.56	21	17.23	30.5
1266366	7108002	639597	1245	UTM83-8	WHI11001351	0.2	23	7.6	0.09	0.46	403	16.05	36.6
1266367	7107958	639599	1214	UTM83-8	WHI11001351	1.8	97	7	0.06	0.52	98	24.75	66.1
1266368	7107897	639599	1192	UTM83-8	WHI11001351	0.7	96	10.5	0.09	1.09	297	29.61	103.3
1266369	7107853	639598	1196	UTM83-8	WHI11001351	1	66	9.6	0.1	0.69	133	28.64	94.4
1266370	7107798	639599	1193	UTM83-8	WHI11001351	1.6	51	8.1	0.1	0.52	100	27.2	86
1266371	7107752	639605	1175	UTM83-8	WHI11001351	2.9	70	7.8	0.12	0.47	118	32.74	80.3
1266372	7107701	639598	1157	UTM83-8	WHI11001351	3.1	96	6	0.12	0.54	112	23.99	80
1266373	7107658	639604	1156	UTM83-8	WHI11001351	1.7	72	6.1	0.08	0.36	110	25.08	87.4
1266374	7107602	639598	1156	UTM83-8	WHI11001351	1.9	66	9	0.09	0.52	150	32.4	92
1266375	7107554	639600	1152	UTM83-8	WHI11001351	0.4	45	3.6	0.2	0.18	44	20.45	92.4
1266376	7107497	639605	1130	UTM83-8	WHI11001351	1.7	389	4.6	0.09	0.26	64	48.43	72.7
1266377	7107448	639599	1114	UTM83-8	WHI11001351	0.3	198	4.1	0.12	0.16	52	58.31	102.3
1266378	7107407	639597	1098	UTM83-8	WHI11001351	0.8	255	4.3	0.15	0.17	66	48.67	97.4
1266379	7107352	639599	1081	UTM83-8	WHI11001356	0.4	66	4.5	0.15	0.22	34	19.93	80.1
1266380	7107300	640598	1185	UTM83-8	WHI11001352	0.5	108	8.7	0.12	0.29	28	26.61	91.9
1266381	7107255	640601	1155	UTM83-8	WHI11001352	0.9	73	4.3	0.07	0.18	18	31.54	118
1266382	7107202	640600	1138	UTM83-8	WHI11001352	2.1	91	4.7	0.32	0.21	37	187.48	112.9
1266383	7107150	640600	1107	UTM83-8	WHI11001352	1.3	68	4.8	0.1	0.26	20	31.65	73.2
1266384	7107099	640596	1088	UTM83-8	WHI11001352	0.8	58	5.6	0.12	0.29	11	16.29	125.9
1266385	7107049	640602	1061	UTM83-8	WHI11001352	0.5	37	5.1	0.12	0.17	14	26.24	80.3
1266386	7106998	640597	1033	UTM83-8	WHI11001352	0.8	96	7.7	0.12	0.33	44	17.92	75.4
1266387	7106949	640600	1007	UTM83-8	WHI11001352	0.3	93	2.5	0.09	0.18	8	14.34	103.4
1266388	7106903	640593	989	UTM83-8	WHI11001352	0.6	28	4.7	0.1	0.13	13	20.63	75.4
1266389	7106855	640603	974	UTM83-8	WHI11001352	0.1	24	6.3	0.11	0.2	18	19.75	63.3

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1266390	7106797	640598	962	UTM83-8	WHI11001352	2.2	38	6.6	0.13	0.28	28	18.46	59
1266391	7106750	640595	932	UTM83-8	WHI11001352	3.2	105	7.5	0.09	0.38	73	17.88	104.7
1266392	7106647	640595	937	UTM83-8	WHI11001352	0.6	35	5.4	0.11	0.21	16	14.12	38.9
1266393	7106600	640599	931	UTM83-8	WHI11001352	1.3	70	4.7	0.1	0.24	19	19.08	64.4
1266394	7106546	640593	916	UTM83-8	WHI11001352	1	56	5.5	0.11	0.22	60	21.63	55.3
1266395	7106502	640601	910	UTM83-8	WHI11001352	1	42	9.5	0.1	0.34	71	20.45	69.4
1266396	7106448	640594	887	UTM83-8	WHI11001352	0.4	23	5.4	0.1	0.13	24	17.84	68.4
1266397	7106398	640599	895	UTM83-8	WHI11001352	1	20	7.2	0.08	0.19	21	24.54	84.7
1266398	7106349	640601	886	UTM83-8	WHI11001352	1.1	109	1.7	0.03	0.18	92	8.21	24.3
1266399	7106296	640596	879	UTM83-8	WHI11001352	1.4	86	14.1	0.09	0.5	189	26.54	79.6
1266400	7106253	640612	853	UTM83-8	WHI11001352	2.1	211	12.7	0.12	0.39	280	27.11	66.4
1266401	7108250	638700	1607	UTM83-8	WHI11001356	9.2	66	19.4	0.12	2.63	322	39.2	95.7
1266402	7108307	638699	1584	UTM83-8	WHI11001356	22.9	157	15.4	0.11	3.13	181	35.04	40.1
1266403	7108349	638700	1583	UTM83-8	WHI11001356	1.6	8	2.9	0.03	0.4	27	5.2	35.2
1266404	7108403	638701	1557	UTM83-8	WHI11001356	5.1	169	22.6	0.08	2.66	254	34.18	35.4
1266405	7108455	638701	1562	UTM83-8	WHI11001356	1.3	230	13	0.2	0.64	143	38.97	107.5
1266406	7108498	638700	1536	UTM83-8	WHI11001356	1.8	156	12.6	0.2	0.83	181	34.56	126.5
1266407	7108550	638701	1534	UTM83-8	WHI11001356	1.5	343	8.2	0.39	0.38	583	55.85	226.3
1266408	7108599	638694	1559	UTM83-8	WHI11001356	1.8	562	10.2	0.11	0.42	263	51.41	71.1
1266409	7108652	638698	1587	UTM83-8	WHI11001356	1	342	7.8	0.18	0.3	450	47.77	112
1266410	7108648	639900	1548	UTM83-8	WHI11001350	1.1	189	10.6	0.29	0.3	238	45.55	105.3
1266411	7108602	639898	1532	UTM83-8	WHI11001350	2.1	170	24.1	0.06	1.82	441	52.33	435.3
1266412	7108550	639898	1503	UTM83-8	WHI11001350	15.1	196	25.9	0.23	2.62	705	32.06	10.3
1266413	7108499	639898	1485	UTM83-8	WHI11001350	3.4	93	13.1	0.07	1.22	116	13.14	45.8
1266414	7108452	639899	1488	UTM83-8	WHI11001350	18.2	225	66.3	0.43	6.27	673	40.88	363.8
1266415	7108405	639899	1468	UTM83-8	WHI11001350	3.3	256	16.8	0.11	1.77	164	37.93	111.3
1266416	7108352	639897	1441	UTM83-8	WHI11001350	4.8	77	14.7	0.12	1.66	116	25.16	28.6
1266417	7108299	639898	1441	UTM83-8	WHI11001350	3.4	128	11.5	0.12	1.33	148	19.9	76.2
1266418	7108251	639898	1431	UTM83-8	WHI11001350	0.8	35	9.7	0.11	0.29	23	12.93	40.8
1266419	7108202	639900	1388	UTM83-8	WHI11001350	1	139	7.9	0.17	0.43	56	41.67	60
1266420	7108147	639899	1371	UTM83-8	WHI11001350	1.7	18	14.9	0.1	0.87	14	16.08	69.5
1266421	7108099	639897	1368	UTM83-8	WHI11001350	1.1	43	4.2	0.1	0.36	15	11.43	34.6
1266422	7108054	639899	1355	UTM83-8	WHI11001350	2	118	6.5	0.17	0.75	63	29.3	81.7
1266423	7108000	639897	1333	UTM83-8	WHI11001350	0.9	69	9.2	0.15	0.61	26	25.36	89.3
1266424	7107947	639899	1321	UTM83-8	WHI11001350	0.9	146	2.2	0.18	0.29	27	22.16	78.5
1266425	7107902	639898	1303	UTM83-8	WHI11001350	1	206	8.3	0.13	0.74	38	22.31	78.4
1266426	7107850	639895	1292	UTM83-8	WHI11001350	0.7	67	5.3	0.13	0.4	14	22.68	80.1
1266427	7107802	639899	1282	UTM83-8	WHI11001350	0.8	126	5	0.17	0.33	21	21.13	87.5
1266428	7107753	639901	1256	UTM83-8	WHI11001350	1	117	5.4	0.13	0.43	33	26.88	77.5
1266429	7107693	639898	1237	UTM83-8	WHI11001350	0.6	73	5.7	0.07	0.18	32	30.57	93.4
1266430	7107653	639902	1243	UTM83-8	WHI11001350	2.1	132	6.6	0.09	0.39	37	34.8	79
1266431	7107605	639900	1252	UTM83-8	WHI11001350	0.5	50	6.5	0.12	0.4	27	25.07	74.5
1266432	7107549	639903	1228	UTM83-8	WHI11001350	0.4	98	5.2	0.15	0.27	16	45.92	97.6
1266433	7107500	639903	1219	UTM83-8	WHI11001350	0.6	45	5.7	0.1	0.37	48	28.58	71.8
1266434	7107450	639901	1226	UTM83-8	WHI11001350	0.3	63	6.8	0.08	0.41	18	16.65	81.6
1266435	7107399	639900	1204	UTM83-8	WHI11001350	1	128	4.4	0.09	0.24	24	16.58	80.9
1266436	7107344	639900	1181	UTM83-8	WHI11001350	2	23	8.3	0.08	0.46	35	19.96	79.1
1266437	7108652	639999	1597	UTM83-8	WHI11001350	21.7	196	23.5	0.14	2.86	482	28.84	101.5
1266438	7108600	639997	1557	UTM83-8	WHI11001350	0.5	34	8.3	0.06	1.55	19	6.5	26.7
1266439	7108554	640004	1543	UTM83-8	WHI11001350	2.4	65	16.5	0.07	1.59	95	12.57	26.4
1266440	7108501	640002	1548	UTM83-8	WHI11001350	5.8	134	16.4	0.13	1.8	155	21.69	41.2
1266441	7108452	640000	1535	UTM83-8	WHI11001350	1.3	36	6.1	0.05	0.98	69	11.57	34.9
1266442	7108403	639999	1530	UTM83-8	WHI11001350	20.2	113	17.8	0.14	3.55	608	49.43	18.7
1266443	7108349	640002	1514	UTM83-8	WHI11001350	2.8	128	11.9	0.15	1.12	180	25.14	34.8
1266444	7108303	640000	1498	UTM83-8	WHI11001350	1.8	102	14.5	0.09	1.45	74	25.74	80.9
1266445	7108251	639998	1469	UTM83-8	WHI11001350	4.2	39	6.8	0.09	0.47	36	12.69	38
1266446	7108199	640002	1453	UTM83-8	WHI11001350	2.2	84	4.3	0.15	0.27	24	32.65	103.7
1266447	7108151	639998	1445	UTM83-8	WHI11001350	2.6	56	3.9	0.25	0.23	29	93.29	103
1266448	7108098	640005	1439	UTM83-8	WHI11001351	0.7	47	2.7	0.14	0.42	47	23.51	62.2
1266449	7108045	639999	1409	UTM83-8	WHI11001351	2.3	203	8.2	0.18	0.62	78	32.88	79.9
1266450	7107994	639998	1391	UTM83-8	WHI11001351	1.3	95	3.5	0.19	0.29	30	46.03	78.2
1266451	7106200	640597	839	UTM83-8	WHI11001352	1.4	89	9.5	0.08	0.52	390	15.54	63.7

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1266452	7106145	640596	837	UTM83-8	WHI11001352	1.7	81	12.8	0.07	0.85	523	20.72	79.1
1266453	7106101	640602	836	UTM83-8	WHI11001352	1.2	79	14.8	0.07	0.67	158	24.52	81.8
1266454	7106050	640604	850	UTM83-8	WHI11001352	2.1	158	14.2	0.1	0.62	232	34.9	54.4
1266455	7106000	640596	852	UTM83-8	WHI11001352	2	26	13	0.14	0.51	68	20.6	85.1
1266456	7105950	640599		UTM83-8	WHI11001352	1.9	55	12	0.12	0.37	137	23.5	62.7
1266457	7107699	641097	1082	UTM83-8	WHI11001352	0.5	19	7	0.13	0.25	164	35.55	73.5
1266458	7107651	641097	1015	UTM83-8	WHI11001352	1.8	39	9.1	0.1	0.37	62	28.3	102.6
1266459	7107597	641100	1004	UTM83-8	WHI11001352	1.9	148	3.3	0.07	0.35	156	15.68	28.3
1266460	7107559	641095	990	UTM83-8	WHI11001352	0.7	68	4.9	0.08	0.12	21	25.27	76.5
1266461	7107506	641099	982	UTM83-8	WHI11001352	0.8	30	5.4	0.13	0.26	24	21.85	74.1
1266462	7107452	641104	972	UTM83-8	WHI11001352	0.3	69	4	0.13	0.27	25	29.28	64.6
1266463	7107400	641098	979	UTM83-8	WHI11001352	1.6	73	5.5	0.14	0.36	57	20.57	59.3
1266464	7107347	641096	991	UTM83-8	WHI11001352	1.8	94	7.2	0.12	0.42	27	17.94	73.2
1266465	7107295	641096	1006	UTM83-8	WHI11001352	0.6	39	7.2	0.1	0.25	26	17.4	62.2
1266466	7107251	641099	1010	UTM83-8	WHI11001352	0.3	27	6.6	0.09	0.37	24	14.43	76.6
1266467	7107195	641099	998	UTM83-8	WHI11001352	0.5	29	7.7	0.09	0.28	25	25.16	72.8
1266468	7107150	641098	960	UTM83-8	WHI11001352	1.8	40	8.1	0.09	0.38	23	25.04	69
1266469	7107096	641099	909	UTM83-8	WHI11001352	1.1	102	6.9	0.07	0.4	60	21.27	70
1266470	7107048	641102	878	UTM83-8	WHI11001352	1.1	146	4.5	0.08	0.22	61	17.78	55.6
1266471	7107001	641101	880	UTM83-8	WHI11001352	0.4	54	5.1	0.09	0.18	17	21.92	68.8
1266472	7106952	641101	877	UTM83-8	WHI11001352	0.5	66	6.7	0.13	0.21	19	28.64	98.1
1266473	7106980	641101		UTM83-8	WHI11001352	0.8	28	5.4	0.1	0.24	19	19.68	79.5
1266474	7110280	355145	1352	UTM83-9	WHI11001353	3.5	30	7.7	0.09	0.52	37	19.86	74.5
1266475	7110219	355131	1333	UTM83-9	WHI11001353	1.5	31	7.1	0.14	0.38	18	20.63	96.6
1266476	7110170	355128	1321	UTM83-9	WHI11001353	0.8	49	7.8	0.1	0.45	25	21.22	82.9
1266477	7110118	355124	1309	UTM83-9	WHI11001353	1.1	61	4.6	0.13	0.19	38	33.09	85.6
1266478	7110071	355114	1284	UTM83-9	WHI11001353	0.7	18	6	0.14	0.42	21	16.38	71.4
1266479	7110024	355114	1264	UTM83-9	WHI11001353	0	0	0	0	0	0	0	0
1266480	7109969	355101	1258	UTM83-9	WHI11001353	1.5	71	16.8	0.05	0.86	140	21.14	114
1266481	7109926	355107	1259	UTM83-9	WHI11001353	3	181	21.1	0.07	0.75	327	27.66	263.1
1266482	7109869	355103	1279	UTM83-9	WHI11001353	0.8	61	4.9	0.15	0.37	35	26.22	94.2
1266483	7109825	355097	1300	UTM83-9	WHI11001353	0.7	94	6.8	0.12	0.46	28	19.51	115.3
1266484	7109772	355094	1297	UTM83-9	WHI11001353	0.9	183	6.1	0.11	0.31	37	34.37	76.6
1266485	7109727	355086	1288	UTM83-9	WHI11001353	0.6	154	7.5	0.12	0.43	27	27.78	75.1
1266486	7109675	355083	1277	UTM83-9	WHI11001353	0.5	109	5.4	0.1	0.27	28	29.72	60.9
1266487	7109625	355082	1271	UTM83-9	WHI11001353	0.9	78	7	0.12	0.43	28	29.45	61.7
1266488	7109574	355069	1267	UTM83-9	WHI11001353	1.1	38	6.5	0.11	0.37	20	24.79	66.6
1266489	7109526	355064	1264	UTM83-9	WHI11001353	0.6	59	7.8	0.13	0.42	28	32.35	75.5
1266490	7109473	355063	1259	UTM83-9	WHI11001353	1.4	67	7.6	0.12	0.46	20	29.68	71.4
1266491	7109424	355060	1251	UTM83-9	WHI11001353	0.6	52	5.8	0.12	0.36	13	16.47	67.5
1266492	7109379	355056	1227	UTM83-9	WHI11001353	0.5	75	4.3	0.12	0.2	19	19.27	58.7
1266493	7109322	355045	1202	UTM83-9	WHI11001353	6.1	86	57.6	0.11	1.45	321	25.82	105.9
1266494	7109271	355041	1194	UTM83-9	WHI11001353	0.7	64	9.3	0.08	0.18	93	19.66	40.1
1266495	7109233	355032	1182	UTM83-9	WHI11001353	0.8	120	6.6	0.1	0.29	71	18.51	34
1266496	7109177	355030	1167	UTM83-9	WHI11001353	12.1	33	4.4	0.07	0.43	78	7.57	55.1
1266497	7109126	355024	1153	UTM83-9	WHI11001353	1.2	81	62.3	0.07	0.62	94	79.83	189.3
1266498	7109077	355020	1137	UTM83-9	WHI11001353	1.1	42	13.8	0.06	0.21	32	17.56	83.9
1266499	7109020	355018	1134	UTM83-9	WHI11001353	0.5	46	4.6	0.03	0.16	37	8.16	55.9
1266500	7108973	355016	1119	UTM83-9	WHI11001353	0.6	131	13.6	0.05	0.29	49	50.4	222.7
1266551	7107843	646096	1257	UTM83-8	WHI11001353	0.4	154	22.7	0.09	1.14	377	70.51	203.9
1266552	7107803	646099	1233	UTM83-8	WHI11001353	2.9	98	21.7	0.11	1.53	237	35.81	97.4
1267001	7108426	354461	1091	UTM83-9	WHI11001353	0.5	41	6.4	0.12	0.25	22	32.42	94
1267002	7108378	354456	1088	UTM83-9	WHI11001353	14.1	109	16.1	0.1	1.42	224	27.59	108.8
1267003	7108328	354453	1079	UTM83-9	WHI11001353	3.5	64	9.8	0.05	0.7	108	24.88	79.1
1267004	7108279	354446	1073	UTM83-9	WHI11001353	3.7	64	88.6	0.11	4.64	257	13.14	53.1
1267005	7108178	354439	1050	UTM83-9	WHI11001353	0	0	0	0	0	0	0	0
1267006	7108128	354433	1037	UTM83-9	WHI11001353	3.2	69	11.3	0.09	0.64	169	25.45	132
1267007	7108031	354424	1020	UTM83-9	WHI11001353	1.4	64	58.9	0.14	6.28	920	29.5	118.6
1267008	7107979	354417	1009	UTM83-9	WHI11001353	1.2	77	7.6	0.08	0.56	129	26.51	93.4
1267009	7107929	354414	1003	UTM83-9	WHI11001353	1.6	99	11.9	0.08	1	210	28.1	93.6
1267010	7107880	354411	996	UTM83-9	WHI11001353	1.9	116	6.8	0.09	0.54	128	23.32	87.9
1267011	7107832	354404	993	UTM83-9	WHI11001353	1.7	71	6.4	0.05	0.54	123	16.62	57.4

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1267012	7107734	354398	985	UTM83-9	WHI11001353	1	110	3.6	0.06	0.32	82	13.97	48.7
1267013	7110324	355648	1222	UTM83-9	WHI11001353	0	0	0	0	0	0	0	0
1267014	7110271	355640	1219	UTM83-9	WHI11001353	0	0	0	0	0	0	0	0
1267015	7110226	355636	1204	UTM83-9	WHI11001353	2.9	195	5.2	0.11	0.54	30	19.03	89
1267016	7110174	355630	1206	UTM83-9	WHI11001353	0.4	136	2.9	0.1	0.44	21	17.45	76.4
1267017	7110125	355626	1199	UTM83-9	WHI11001353	2	110	2.4	0.1	0.22	12	16.59	61.6
1267018	7110074	355621	1193	UTM83-9	WHI11001353	0.4	207	2.6	0.09	0.18	22	25.91	71.6
1267019	7110024	355617	1188	UTM83-9	WHI11001353	0.6	175	5.4	0.11	0.31	46	41.26	134.6
1267020	7109976	355613	1175	UTM83-9	WHI11001353	0.1	94	8.3	0.1	0.59	41	24.46	142.7
1267021	7109927	355608	1167	UTM83-9	WHI11001353	0.1	87	0.7	0.13	0.24	16	17.79	123
1267022	7109873	355603	1151	UTM83-9	WHI11001353	0.1	69	2.6	0.09	0.21	27	18	117.3
1267023	7109826	355600	1141	UTM83-9	WHI11001353	1.1	195	3.5	0.14	0.26	20	19.99	133.7
1267024	7109776	355594	1123	UTM83-9	WHI11001353	1.2	72	6	0.14	0.39	24	15.87	95.1
1267025	7109727	355589	1104	UTM83-9	WHI11001353	0.1	48	4.8	0.1	0.3	15	17.63	70.3
1267026	7109678	355584	1081	UTM83-9	WHI11001353	0.1	50	2.2	0.17	0.29	13	21.83	136.6
1267027	7109628	355575	1073	UTM83-9	WHI11001353	0	0	0	0	0	0	0	0
1267028	7109575	355574	1063	UTM83-9	WHI11001353	1.2	18	5	0.09	0.26	7	14.16	47.6
1267029	7109527	355571	1056	UTM83-9	WHI11001353	1.9	197	5.5	0.06	0.32	58	16.58	54.1
1267030	7109478	355562	1052	UTM83-9	WHI11001353	1.2	158	4.6	0.11	0.27	25	16.77	48.4
1267251	7108926	355008	1115	UTM83-9	WHI11001353	0.1	95	19.9	0.05	0.57	158	46.97	275.8
1267252	7108881	355008	1100	UTM83-9	WHI11001353	6.1	134	47.6	0.09	2	328	32.74	204.2
1267253	7108831	354997	1094	UTM83-9	WHI11001353	3.2	160	56.9	0.06	2.15	564	36.77	196.3
1267254	7108784	354995	1068	UTM83-9	WHI11001353	3.4	186	440.8	0.28	68.03	6158	102.34	191.2
1267451	7106151	637597	975	UTM83-8	WHI11001352	0.4	33	3.9	0.13	0.17	29	12.12	65.7
1267452	7106099	637598	959	UTM83-8	WHI11001352	1.7	30	4.9	0.12	0.18	14	13.03	64.3
1267453	7106051	637597	944	UTM83-8	WHI11001352	0.6	81	7	0.09	0.21	46	17.36	83.8
1267454	7106000	637599	923	UTM83-8	WHI11001352	0.7	68	9.2	0.1	0.26	43	24.1	69.5
1267455	7106751	638097	1176	UTM83-8	WHI11001352	0.3	69	6.3	0.12	0.26	22	21.8	86.5
1267456	7106703	638098	1157	UTM83-8	WHI11001352	3.4	154	5.4	0.14	0.26	31	17.78	88.2
1267457	7106652	638099	1139	UTM83-8	WHI11001352	1.4	130	7	0.12	0.37	23	17.55	76.7
1267458	7106602	638099	1121	UTM83-8	WHI11001352	1.1	102	4.7	0.17	0.19	19	20.49	92.2
1267459	7106552	638098	1093	UTM83-8	WHI11001352	0.9	218	4.8	0.09	0.21	22	19.54	45.6
1267460	7106499	638097	1090	UTM83-8	WHI11001352	0.4	36	2.4	0.16	0.19	2	12.38	93.7
1267461	7106451	638099	1069	UTM83-8	WHI11001352	0.3	180	7.4	0.12	0.42	24	19.16	86.5
1267462	7106401	638098	1052	UTM83-8	WHI11001352	0.4	30	3.2	0.17	0.18	9	17.22	91.4
1267463	7106352	638097	1031	UTM83-8	WHI11001352	1	36	4.3	0.17	0.14	25	17.37	71.7
1267464	7106301	638098	1013	UTM83-8	WHI11001352	0.8	87	6.2	0.11	0.28	15	18.44	64
1267465	7106252	638099	994	UTM83-8	WHI11001352	0.4	77	4.5	0.14	0.11	18	20.03	84.4
1267466	7106201	638098	968	UTM83-8	WHI11001352	0.3	44	7.2	0.11	0.2	25	19.59	72
1267467	7106154	638099	949	UTM83-8	WHI11001352	0.4	29	4.9	0.12	0.16	11	15.88	61.5
1267468	7106052	638098	920	UTM83-8	WHI11001352	1.5	249	7.7	0.09	0.2	79	23.75	68.4
1267469	7107299	638099	1258	UTM83-8	WHI11001353	0.4	628	5.7	0.11	0.32	2	24.23	104
1267470	7107252	638099	1242	UTM83-8	WHI11001353	0.3	107	7.1	0.1	0.38	67	24.12	86
1267471	7107202	638099	1229	UTM83-8	WHI11001353	0.5	138	8.2	0.08	0.46	74	34.31	85.8
1267472	7107150	638097	1194	UTM83-8	WHI11001353	1.5	109	4.1	0.11	0.26	53	33.54	110.5
1267473	7107100	638098	1178	UTM83-8	WHI11001353	0.2	37	5.7	0.12	0.41	57	23.97	94.1
1267474	7107050	638098	1183	UTM83-8	WHI11001353	1.1	107	7.9	0.12	0.46	48	17.14	63
1267475	7107002	638097	1176	UTM83-8	WHI11001353	0.5	71	8.3	0.12	0.46	54	18.01	72.6
1267476	7106953	638099	1176	UTM83-8	WHI11001353	0.1	86	4.8	0.11	0.13	19	23.55	95.7
1267477	7106902	638099	1164	UTM83-8	WHI11001353	0.1	73	8.5	0.1	0.41	104	22.46	73
1267478	7106851	638100	1170	UTM83-8	WHI11001353	0.1	67	5.8	0.11	0.22	37	19.67	61.9
1267479	7106802	638099	1184	UTM83-8	WHI11001353	0.6	141	6.2	0.13	0.34	21	16.47	55.8
1267480	7108950	646099	1622	UTM83-8	WHI11001353	0.8	143	5.7	0.09	0.16	53	27.56	89
1267481	7108901	646100	1605	UTM83-8	WHI11001353	0.4	190	4.4	0.09	0.2	62	26.12	67
1267482	7108854	646098	1577	UTM83-8	WHI11001353	0.6	208	9.7	0.1	0.31	51	34	95.4
1267483	7108801	646098	1555	UTM83-8	WHI11001353	0.2	169	7.5	0.13	0.24	58	29.84	91.4
1267484	7108749	646099	1544	UTM83-8	WHI11001353	0.2	159	8.9	0.11	0.47	18	48.67	107.3
1267485	7108703	646101	1515	UTM83-8	WHI11001353	0.4	335	7.9	0.1	0.42	58	29.44	81.2
1267486	7108649	646099	1474	UTM83-8	WHI11001353	0.1	212	6.6	0.08	0.39	38	28.16	92.8
1267487	7108604	646098	1459	UTM83-8	WHI11001353	0.1	153	14.4	0.09	0.42	47	35.42	79.3
1267488	7108554	646101	1451	UTM83-8	WHI11001353	0.5	224	10.1	0.1	0.3	60	25.6	71.2
1267489	7108502	646099	1415	UTM83-8	WHI11001353	3.6	126	14.2	0.09	0.49	54	28.76	80

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1267490	7108451	646101	1402	UTM83-8	WHI11001353	1.5	39	11.1	0.11	0.69	28	21.22	81.5
1267491	7108401	646101	1412	UTM83-8	WHI11001353	2.5	151	14.4	0.1	0.83	138	26.12	81.5
1267492	7108351	646100	1410	UTM83-8	WHI11001353	1.1	127	8.5	0.05	0.81	28	16.16	107.9
1267493	7108302	646096	1396	UTM83-8	WHI11001353	1	447	7.4	0.11	0.48	71	17.15	68.6
1267494	7108260	646100	1381	UTM83-8	WHI11001353	1.7	269	14.1	0.11	0.66	86	25.04	79.9
1267495	7108203	646099	1370	UTM83-8	WHI11001353	2.4	70	10.4	0.14	0.68	31	20.95	89.7
1267496	7108151	646099	1355	UTM83-8	WHI11001353	2.3	58	10.1	0.13	0.67	33	21.78	88.1
1267497	7108051	646099	1339	UTM83-8	WHI11001353	0.7	157	7.4	0.33	0.26	47	43.32	114
1267498	7108001	646100	1324	UTM83-8	WHI11001353	0.7	103	7.5	0.12	0.25	58	32.86	73.9
1267499	7107951	646099	1308	UTM83-8	WHI11001353	1.2	96	14.4	0.1	0.99	73	25.22	223.9
1267500	7107902	646096	1285	UTM83-8	WHI11001353	23.2	211	35.1	0.06	4.3	234	50.91	151.4
1267501	7108404	640494	1413	UTM83-8	WHI11001351	1.9	90	36.8	0.14	0.93	70	24.68	32.7
1267502	7108353	640499	1388	UTM83-8	WHI11001351	2.3	83	6.8	0.12	0.52	61	25.1	61.8
1267503	7108303	640496	1388	UTM83-8	WHI11001351	0.9	56	3.3	0.15	0.24	21	40.92	84.2
1267504	7108253	640497	1371	UTM83-8	WHI11001351	1.1	45	6.4	0.18	0.42	15	38.64	97.5
1267505	7108203	640498	1337	UTM83-8	WHI11001351	0.8	121	4.7	0.14	0.37	24	25.23	83.1
1267506	7108153	640504	1315	UTM83-8	WHI11001351	1.2	80	7.3	0.12	0.66	35	25.78	79.1
1267507	7108105	640500	1328	UTM83-8	WHI11001351	2.6	115	6.4	0.12	0.57	47	19.76	70
1267508	7108050	640502	1350	UTM83-8	WHI11001351	2.2	50	5.6	0.18	0.4	43	67.77	88.1
1267509	7108000	640501	1366	UTM83-8	WHI11001351	0.9	43	5.2	0.17	0.4	44	55.31	84.9
1267510	7107949	640498	1356	UTM83-8	WHI11001351	0.1	87	5.1	0.18	0.54	49	44.11	98.9
1267511	7107899	640499	1333	UTM83-8	WHI11001351	0.1	155	2.3	0.19	0.24	29	32.13	112.9
1267512	7107851	640499	1305	UTM83-8	WHI11001351	0.1	96	3.3	0.17	0.4	29	29.88	95
1267513	7107801	640501	1273	UTM83-8	WHI11001351	0.8	185	5.9	0.12	0.43	33	27.04	80.2
1267514	7107751	640501	1242	UTM83-8	WHI11001351	1	142	7.4	0.12	0.58	97	24	82.8
1267515	7107702	640500	1248	UTM83-8	WHI11001351	0.5	114	6.4	0.18	0.26	36	47	120.7
1267516	7107653	640499	1232	UTM83-8	WHI11001351	0.1	212	5.8	0.12	0.23	30	37.62	113.2
1267517	7107600	640500	1208	UTM83-8	WHI11001351	0.7	217	6.2	0.11	0.49	44	17.14	70.8
1267518	7107556	640499	1221	UTM83-8	WHI11001351	0.5	211	5.2	0.1	0.25	45	29.46	101.2
1267519	7107500	640499	1214	UTM83-8	WHI11001351	0.1	115	7.1	0.17	0.43	30	36.35	118
1267520	7107452	640494	1208	UTM83-8	WHI11001351	1.1	212	9.2	0.11	0.7	36	23.77	75.8
1267521	7107402	640497	1198	UTM83-8	WHI11001351	0.1	277	4.7	0.15	0.3	39	28.24	147.3
1267522	7107351	640496	1182	UTM83-8	WHI11001351	1	277	3.6	0.16	0.18	23	35	258.5
1267523	7108449	640597	1400	UTM83-8	WHI11001351	1.8	107	10.4	0.11	1.34	60	20.39	41.2
1267524	7108404	640602	1376	UTM83-8	WHI11001351	1.4	176	29.5	0.19	1.04	189	42.53	80.1
1267525	7108349	640592	1339	UTM83-8	WHI11001351	0.7	99	7.4	0.11	0.27	29	25.74	31.9
1267526	7108304	640599	1303	UTM83-8	WHI11001351	2.5	76	15.6	0.13	0.96	74	34.84	57.7
1267527	7108249	640596	1317	UTM83-8	WHI11001351	1.5	70	6.2	0.14	0.51	35	38.06	92.4
1267528	7108198	640595	1300	UTM83-8	WHI11001351	0.1	117	6.4	0.12	0.4	36	36.9	111
1267529	7108153	640596	1272	UTM83-8	WHI11001351	0.2	86	7.9	0.13	0.49	42	32.19	100.2
1267530	7108102	640597	1276	UTM83-8	WHI11001351	1	149	6.9	0.13	0.37	75	74.11	90.8
1267531	7108053	640598	1305	UTM83-8	WHI11001351	0.1	46	7.2	0.13	0.35	40	36.93	95.3
1267532	7108004	640600	1315	UTM83-8	WHI11001351	0.3	154	4.1	0.14	0.27	48	26.69	84.5
1267533	7107950	640599	1320	UTM83-8	WHI11001351	0.1	26	5.4	0.15	0.26	34	50.78	98.4
1267534	7107901	640600	1320	UTM83-8	WHI11001351	1.7	36	2.3	0.16	0.22	69	40.43	85.2
1267535	7107850	640598	1300	UTM83-8	WHI11001351	1.7	42	5.8	0.16	0.21	25	84.9	97.8
1267536	7107801	640599	1273	UTM83-8	WHI11001351	0.1	113	4.3	0.15	0.11	19	21.06	107.6
1267537	7107750	640599	1240	UTM83-8	WHI11001351	0.8	39	4.7	0.14	0.25	41	31.11	90.5
1267538	7107699	640597	1187	UTM83-8	WHI11001351	0.1	259	3.9	0.15	0.19	18	35.64	98.5
1267539	7107650	640599	1159	UTM83-8	WHI11001351	3.5	233	6.4	0.11	0.28	44	50.82	128.9
1267540	7107599	640597	1137	UTM83-8	WHI11001351	2	670	5.1	0.09	0.37	62	63.82	115.4
1267541	7107550	640597	1137	UTM83-8	WHI11001351	1.4	219	6.6	0.1	0.39	52	28.09	88.2
1267542	7107502	640601	1134	UTM83-8	WHI11001351	2.2	144	5.4	0.12	0.3	29	22.47	63.8
1267543	7107450	640598	1134	UTM83-8	WHI11001351	2.2	216	5.4	0.13	0.28	94	78.86	131.3
1267544	7107402	640599	1126	UTM83-8	WHI11001351	0.5	97	5.6	0.1	0.35	15	35.97	126
1267545	7107601	640201	1348	UTM83-8	WHI11001351	3.2	91	5.2	0.13	0.15	52	65.76	94.4
1267546	7107551	640199	1335	UTM83-8	WHI11001351	1.7	49	9.1	0.12	0.51	23	30.95	85.9
1267547	7107500	640198	1316	UTM83-8	WHI11001351	0.1	49	5.6	0.15	0.35	37	40.33	125.3
1267548	7107450	640197	1296	UTM83-8	WHI11001351	0.1	145	3.3	0.14	0.22	43	37.1	106.6
1267549	7107401	640199	1272	UTM83-8	WHI11001351	1	277	4.3	0.12	0.21	26	30.57	102.9
1267550	7107351	640198	1245	UTM83-8	WHI11001351	0.6	364	4.1	0.17	0.21	25	43.82	123.7
1267551	7106501	632596	946	UTM83-8	WHI11001351	0.5	74	4.9	0.1	0.2	16	15.08	57.8

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1267552	7106452	632598	936	UTM83-8	WHI11001351	0.8	106	5.6	0.11	0.15	18	16.07	66.7
1267553	7106397	632597	921	UTM83-8	WHI11001351	1.4	440	5.1	0.12	0.26	83	23.39	89.7
1267554	7106352	632598	913	UTM83-8	WHI11001351	0.7	63	4.7	0.09	0.3	18	18.35	72.3
1267555	7106301	632601	892	UTM83-8	WHI11001351	0.2	38	3.3	0.07	0.18	6	15.43	79.1
1267556	7106251	632601	881	UTM83-8	WHI11001351	1.7	125	16.8	0.12	0.46	209	19.1	80.5
1267557	7106201	632601	863	UTM83-8	WHI11001351	1	65	5.8	0.11	0.35	45	15.54	57.7
1267558	7106155	632600	851	UTM83-8	WHI11001351	0.3	57	7	0.1	0.29	30	22.27	75.5
1267559	7106049	632596	826	UTM83-8	WHI11001351	1.2	75	5.5	0.11	0.23	93	19.48	97.1
1267560	7106004	632599	819	UTM83-8	WHI11001351	1.7	53	10	0.12	0.4	48	26.21	87.8
1267561	7105949	632600	814	UTM83-8	WHI11001351	1	31	7.6	0.09	0.15	24	21.41	86.8
1267562	7106602	635595	960	UTM83-8	WHI11001352	0.6	20	4.5	0.1	0.11	8	21.71	77.7
1267563	7106648	635597	952	UTM83-8	WHI11001352	1	99	3.7	0.11	0.16	42	22.28	64.6
1267564	7106697	635598	942	UTM83-8	WHI11001352	3.1	34	4.4	0.1	0.22	18	24.83	87
1267565	7106748	635598	933	UTM83-8	WHI11001352	0	0	0	0	0	0	0	0
1267566	7106799	635594	916	UTM83-8	WHI11001352	3.5	123	5.4	0.16	0.26	48	30.5	90.8
1267567	7106847	635600	904	UTM83-8	WHI11001352	4.5	33	7.3	0.1	0.32	14	21.75	82.2
1267568	7106899	635597	859	UTM83-8	WHI11001352	3	165	8.7	0.13	0.35	57	103.37	91.9
1267569	7106947	635599	857	UTM83-8	WHI11001352	1.5	71	9.7	0.07	0.31	37	28.3	95.4
1267570	7106999	635600	873	UTM83-8	WHI11001352	1.7	45	5.7	0.06	0.32	37	27.76	85.8
1267571	7107048	635596	884	UTM83-8	WHI11001352	3	55	5.9	0.07	0.36	53	21.41	85.4
1267572	7107097	635595	900	UTM83-8	WHI11001352	1.1	64	6	0.06	0.38	53	21.04	84.8
1267573	7107147	635595	906	UTM83-8	WHI11001352	2.3	65	5.8	0.07	0.34	38	20.67	90.2
1267574	7107202	635601	918	UTM83-8	WHI11001352	2.9	93	9.1	0.09	0.45	93	29.97	87.1
1267575	7107250	635599	920	UTM83-8	WHI11001352	2	107	7.5	0.09	0.37	84	21.96	76.3
1267576	7107297	635594	933	UTM83-8	WHI11001352	1.9	113	7.4	0.09	0.3	41	29.97	91.8
1267577	7107346	635601	930	UTM83-8	WHI11001352	1.6	106	8.3	0.09	0.34	36	28.19	106.4
1267578	7107398	635599	942	UTM83-8	WHI11001352	1.2	59	9.8	0.14	0.53	165	27.8	96.1
1267579	7107447	635601	943	UTM83-8	WHI11001352	1.9	44	8.4	0.12	0.4	26	21.47	114.9
1267580	7107500	635596	980	UTM83-8	WHI11001352	1.9	108	6.2	0.09	0.3	54	23.52	92.6
1267581	7106554	635595	972	UTM83-8	WHI11001352	1.2	70	5.4	0.13	0.16	34	27.1	92.8
1267582	7106503	635594	981	UTM83-8	WHI11001352	0.3	148	6.5	0.11	0.3	18	22.83	80.5
1267583	7106452	635594	991	UTM83-8	WHI11001352	0.9	110	5.3	0.15	0.22	14	27.24	64.3
1267584	7106401	635596	1001	UTM83-8	WHI11001352	0.5	82	5.1	0.12	0.21	15	19.78	63.3
1267585	7106348	635598	1001	UTM83-8	WHI11001352	0.2	123	5.6	0.13	0.22	27	22.05	69.3
1267586	7106299	635602	986	UTM83-8	WHI11001352	0.1	58	4.8	0.1	0.18	10	20.11	80.4
1267587	7106253	635603	972	UTM83-8	WHI11001352	0.1	90	4.7	0.09	0.16	15	18.75	71.3
1267588	7106201	635602	949	UTM83-8	WHI11001352	0.8	101	4.2	0.13	0.16	27	20.43	72.8
1267589	7106149	635601	937	UTM83-8	WHI11001352	0.7	61	4.1	0.12	0.15	12	21.26	61.2
1267590	7106104	635596	919	UTM83-8	WHI11001352	0.1	23	4.5	0.11	0.15	13	15.8	56
1267591	7106052	635598	913	UTM83-8	WHI11001352	3.1	225	4.5	0.2	0.18	91	27.01	80.1
1267592	7106003	635598	904	UTM83-8	WHI11001352	0.7	41	3.7	0.13	0.09	62	15.58	68.5
1267593	7105952	635599	898	UTM83-8	WHI11001352	0.1	51	4.7	0.13	0.25	11	16.93	62.2
1267594	7107797	644595	1343	UTM83-8	WHI11001353	1.4	240	12	0.14	0.35	63	26.24	85.6
1267595	7107747	644601	1339	UTM83-8	WHI11001353	2.4	370	11.7	0.14	0.51	180	20.96	77.3
1267596	7107698	644598	1327	UTM83-8	WHI11001353	1.2	152	7.4	0.07	0.28	149	17.28	91.2
1267597	7107649	644599	1320	UTM83-8	WHI11001353	0.7	47	11.8	0.15	0.32	47	29.27	99
1267598	7107602	644601	1317	UTM83-8	WHI11001353	0.1	10	10	0.12	0.22	36	17.2	51.7
1267599	7107555	644597	1301	UTM83-8	WHI11001353	0.8	65	6.8	0.12	0.14	52	21.75	96.6
1267600	7107497	644602	1301	UTM83-8	WHI11001353	0.7	164	7.8	0.13	0.26	109	20.07	68.8
1267601	7107701	640398	1306	UTM83-8	WHI11001351	1.3	56	7.6	0.11	0.24	11	39.66	87.8
1267602	7107652	640398	1283	UTM83-8	WHI11001351	1.2	303	6.4	0.13	0.19	34	32.08	84.4
1267603	7107602	640398	1259	UTM83-8	WHI11001351	1.7	109	7.4	0.1	0.44	53	26.33	112.5
1267604	7107551	640401	1266	UTM83-8	WHI11001351	1	66	6.3	0.15	0.34	25	39.1	85
1267605	7107503	640398	1274	UTM83-8	WHI11001351	0.3	88	6.6	0.19	0.37	15	41.86	112.2
1267606	7107452	640399	1252	UTM83-8	WHI11001351	4.2	91	6	0.11	0.45	23	42.87	135.3
1267607	7107402	640399	1234	UTM83-8	WHI11001351	1.7	79	4.2	0.16	0.28	24	26.41	217.4
1267608	7107354	640399	1209	UTM83-8	WHI11001351	2.1	150	3.7	0.13	0.22	11	35.07	117.2
1267609	7107149	634099	1116	UTM83-8	WHI11001352	0.6	79	8.4	0.13	0.31	24	29.6	88.9
1267610	7107098	634098	1087	UTM83-8	WHI11001352	0.4	141	9.2	0.09	0.35	18	23.72	96.3
1267611	7107051	634098	1060	UTM83-8	WHI11001352	0.1	58	5.8	0.11	0.19	12	25.58	95.6
1267612	7107000	634097	1032	UTM83-8	WHI11001352	0.9	151	4.6	0.13	0.19	21	19.16	76.1
1267613	7106950	634101	998	UTM83-8	WHI11001352	0.4	63	6.3	0.08	0.24	20	29.71	73.5

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1267614	7106902	634099	980	UTM83-8	WHI11001352	1.3	186	4.5	0.08	0.26	50	16.71	60.7
1267615	7106850	634100	969	UTM83-8	WHI11001352	1.3	62	7.7	0.07	0.3	44	29.37	79.3
1267616	7106753	634099	967	UTM83-8	WHI11001352	0.7	61	6.6	0.08	0.36	25	16.36	67.7
1267617	7106655	634102	943	UTM83-8	WHI11001352	0.4	59	5.6	0.07	0.33	17	16.16	65.5
1267618	7106603	634101	918	UTM83-8	WHI11001352	1.7	114	7.1	0.07	0.37	53	20.71	67.8
1267619	7106453	634098	885	UTM83-8	WHI11001352	1.4	91	7	0.08	0.25	45	18.6	63.1
1267620	7106401	634097	885	UTM83-8	WHI11001352	8	25	6.3	0.07	0.29	26	19.43	86.2
1267621	7106349	634099	878	UTM83-8	WHI11001352	1	72	5.4	0.08	0.3	18	16.77	36.9
1267622	7106303	634098	870	UTM83-8	WHI11001352	0.1	29	3.7	0.05	0.12	27	20.37	85.3
1267623	7106251	634099	859	UTM83-8	WHI11001352	0.4	105	4.4	0.04	0.13	39	23.92	64.2
1267624	7106199	634098	852	UTM83-8	WHI11001352	1.8	55	5.6	0.09	0.15	27	28.1	105.8
1267625	7106152	634099	841	UTM83-8	WHI11001352	1.4	100	6.8	0.09	0.19	41	31.06	92.1
1267626	7106047	634097	820	UTM83-8	WHI11001352	1.1	60	5	0.07	0.13	33	21.23	95.9
1267627	7105999	634096	816	UTM83-8	WHI11001352	1.8	164	3.1	0.07	0.15	87	17.01	68.9
1267628	7105952	634096	811	UTM83-8	WHI11001352	0.5	6	4.9	0.07	0.16	11	21.33	98.8
1267629	7107301	637599	1396	UTM83-8	WHI11001352	0.7	133	5.3	0.18	0.28	47	24.78	110.1
1267630	7107251	637599	1387	UTM83-8	WHI11001352	1	28	9.6	0.13	0.62	40	16.08	106
1267631	7107201	637599	1378	UTM83-8	WHI11001352	1.2	32	9.5	0.17	0.55	73	28.34	99.7
1267632	7107151	637600	1369	UTM83-8	WHI11001352	0.3	56	10	0.16	0.86	37	23.41	128.3
1267633	7107101	637599	1349	UTM83-8	WHI11001352	0.8	166	5.3	0.14	0.25	35	24.47	150
1267634	7107050	637598	1322	UTM83-8	WHI11001352	0.6	70	4.2	0.17	0.19	33	16.3	159.3
1267635	7107001	637598	1309	UTM83-8	WHI11001352	0.4	38	6.4	0.12	0.21	10	38.23	94.5
1267636	7106952	637598	1275	UTM83-8	WHI11001352	0.6	93	4.3	0.11	0.21	34	39.83	100
1267637	7106901	637598	1263	UTM83-8	WHI11001352	1.2	71	5.8	0.16	0.36	14	17.3	145.4
1267638	7106852	637598	1242	UTM83-8	WHI11001352	0.6	75	2.8	0.19	0.2	20	17.03	104.9
1267639	7106800	637600	1211	UTM83-8	WHI11001352	1.3	156	5.7	0.19	0.23	20	33.83	87.6
1267640	7106753	637600	1183	UTM83-8	WHI11001352	0.1	69	4.4	0.22	0.17	17	24.03	103.4
1267641	7106703	637599	1156	UTM83-8	WHI11001352	0.1	299	5.7	0.16	0.17	26	24.67	93.3
1267642	7106651	637601	1130	UTM83-8	WHI11001352	0.1	198	4.1	0.12	0.16	18	16.65	71.4
1267643	7106602	637597	1117	UTM83-8	WHI11001352	0.6	93	6.3	0.15	0.26	19	29.04	71
1267644	7106551	637600	1117	UTM83-8	WHI11001352	0.1	108	3.7	0.1	0.1	8	23.78	119.4
1267645	7106451	637598	1083	UTM83-8	WHI11001352	0.6	103	5.7	0.14	0.31	13	17.37	100.2
1267646	7106401	637598	1056	UTM83-8	WHI11001352	0.5	162	4.8	0.14	0.25	12	15.13	87.7
1267647	7106351	637598	1042	UTM83-8	WHI11001352	0.1	115	2.8	0.14	0.16	15	15.52	103.1
1267648	7106301	637600	1022	UTM83-8	WHI11001352	0.4	86	4.2	0.15	0.22	16	14.66	76.9
1267649	7106252	637600	1003	UTM83-8	WHI11001352	0.1	77	4.4	0.11	0.13	5	18.31	87.4
1267650	7106196	637600	990	UTM83-8	WHI11001352	0.1	22	4.1	0.16	0.11	11	17.5	77
1267651	7107155	633601		UTM83-8	WHI11001351	0.6	106	7.7	0.13	0.46	116	20.6	84
1267652	7107102	633599		UTM83-8	WHI11001351	5.3	160	19.5	0.17	1.05	34	114.67	140.2
1267653	7107051	633599		UTM83-8	WHI11001351	2.1	97	9.2	0.11	0.65	40	16.89	107.4
1267654	7107001	633599		UTM83-8	WHI11001351	1.3	112	7.6	0.1	0.37	25	29.31	91.1
1267655	7106953	633600		UTM83-8	WHI11001351	0.8	104	6.6	0.12	0.34	21	24.51	95.8
1267656	7106897	633602		UTM83-8	WHI11001351	0.4	75	4.3	0.17	0.22	19	14.61	121
1267657	7106853	633598		UTM83-8	WHI11001351	0.7	30	6.1	0.11	0.3	15	14.77	61
1267658	7106798	633596		UTM83-8	WHI11001351	0.4	61	3.2	0.15	0.29	18	9.02	61.8
1267659	7106752	633599		UTM83-8	WHI11001351	0.7	158	6.3	0.09	0.34	39	18.55	72.2
1267660	7106703	633598		UTM83-8		0	0	0	0	0	0	0	0
1267661	7106652	633599		UTM83-8		0	0	0	0	0	0	0	0
1267662	7106598	633601		UTM83-8		0	0	0	0	0	0	0	0
1267663	7106554	633600		UTM83-8	WHI11001351	0.9	34	7.3	0.12	0.34	27	19.76	71.7
1267664	7106502	633597		UTM83-8	WHI11001351	0.1	43	4.7	0.09	0.21	22	17.25	73.7
1267665	7106454	633605		UTM83-8	WHI11001351	0.5	49	3.6	0.11	0.18	19	12.57	73.1
1267666	7106405	633604		UTM83-8	WHI11001351	0.1	16	5.8	0.07	0.14	14	20.7	75.5
1267667	7106358	633598		UTM83-8	WHI11001351	0.1	20	6.6	0.09	0.18	20	27.74	93.4
1267668	7106292	633606		UTM83-8	WHI11001351	0.6	19	6.1	0.07	0.16	48	30.35	104.5
1267669	7106250	633602		UTM83-8	WHI11001351	0.7	16	5.2	0.06	0.13	33	28.03	103.5
1267670	7106207	633596		UTM83-8	WHI11001351	0.7	24	4.3	0.07	0.13	30	19.36	90.2
1267671	7106157	633598		UTM83-8	WHI11001351	1.4	21	5.6	0.06	0.16	24	21.38	97.7
1267672	7106098	633598		UTM83-8	WHI11001351	1.2	39	5.8	0.05	0.16	75	21.57	92.9
1267673	7106051	633599		UTM83-8	WHI11001351	0.1	30	4.9	0.06	0.21	52	12.56	88.7
1267674	7106003	633601		UTM83-8	WHI11001351	0.1	19	5.1	0.07	0.22	46	16.81	87.8
1267675	7105957	633596		UTM83-8	WHI11001351	0.6	18	6.8	0.06	0.2	35	24.86	101.4

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1267676	7107201	636603		UTM83-8	WHI11001352	1.2	86	7.7	0.17	0.17	31	81.97	133.3
1267677	7107152	636597		UTM83-8	WHI11001352	2.8	89	6.7	0.12	0.28	60	50.39	117.5
1267678	7107115	636593		UTM83-8	WHI11001352	0.8	117	5.8	0.09	0.16	28	30.59	74.7
1267679	7107054	636593		UTM83-8	WHI11001352	1.6	43	2.3	0.15	0.18	11	37.74	93.8
1267680	7107007	636605		UTM83-8	WHI11001352	1.4	65	9.4	0.13	0.42	18	59.65	77.9
1267681	7106949	636596		UTM83-8	WHI11001352	0.9	37	5.5	0.11	0.23	29	27.19	87.5
1267682	7106901	636591		UTM83-8	WHI11001352	0.8	26	5.4	0.11	0.28	12	23.58	83.4
1267683	7106852	636599		UTM83-8	WHI11001352	1.2	36	6.4	0.13	0.23	27	63.83	84.1
1267684	7106803	636599		UTM83-8	WHI11001352	1.4	199	10.3	0.14	0.65	23	18.68	133.1
1267685	7106753	636596		UTM83-8	WHI11001352	0.7	202	5.6	0.12	0.39	16	16.87	113.9
1267686	7106710	636605		UTM83-8	WHI11001352	3.4	102	10	0.13	0.7	30	34.23	97.8
1267687	7106658	636603		UTM83-8	WHI11001352	2.2	42	7.1	0.13	0.48	23	22.67	86.3
1267688	7106597	636593		UTM83-8	WHI11001352	0.8	91	8.9	0.13	0.62	34	17.39	88.2
1267689	7106553	636591		UTM83-8	WHI11001352	0.7	108	5.8	0.12	0.25	19	27.67	86.9
1267690	7106507	636589		UTM83-8	WHI11001352	0.8	31	5.7	0.1	0.23	19	29.11	80.4
1267691	7106450	636598		UTM83-8	WHI11001352	3	42	6.9	0.1	0.41	24	20.09	71.2
1267692	7106409	636599		UTM83-8	WHI11001352	1	122	10.2	0.15	0.47	37	24.35	93.2
1267693	7106348	636595		UTM83-8	WHI11001352	1.4	58	5.2	0.16	0.21	13	20.91	75.2
1267694	7106304	636601		UTM83-8	WHI11001352	1.3	195	5.5	0.12	0.22	18	21.52	72
1267695	7106255	636593		UTM83-8	WHI11001352	3.3	155	5.6	0.12	0.42	27	13.14	96.8
1267696	7106202	636593		UTM83-8	WHI11001352	0.5	49	5	0.15	0.27	12	15.94	73.8
1267697	7106155	636604		UTM83-8	WHI11001352	0.9	50	6.3	0.17	0.25	11	19.04	83.2
1267698	7106098	636610		UTM83-8	WHI11001352	1.1	41	4.6	0.17	0.23	23	15.37	83.7
1267699	7106057	636601		UTM83-8	WHI11001352	1	41	7.5	0.17	0.41	13	20.35	84.5
1267700	7106006	636600		UTM83-8	WHI11001352	0.4	58	6.1	0.16	0.3	16	17.95	78.1
1267701	7107700	640798	1207	UTM83-8	WHI11001352	0.8	61	3.9	0.12	0.2	24	23.74	118
1267702	7107650	640799	1198	UTM83-8	WHI11001352	1.3	45	5.2	0.15	0.29	29	33.98	87.4
1267704	7107601	640799	1180	UTM83-8	WHI11001352	0.7	136	6	0.12	0.32	40	23.6	81.5
1267705	7107553	640798	1164	UTM83-8	WHI11001352	0.9	196	5.4	0.12	0.28	23	24.22	66.8
1267706	7107502	640800	1144	UTM83-8	WHI11001352	0.8	98	4	0.14	0.24	27	17.78	93.5
1267707	7107451	640802	1111	UTM83-8	WHI11001352	0.4	106	4.6	0.13	0.16	20	28.53	128
1267708	7107401	640801	1082	UTM83-8	WHI11001352	0.2	206	4.3	0.11	0.18	27	21.08	79
1267709	7107201	639597	1049	UTM83-8	WHI11001353	3.5	54	5.2	0.1	0.34	74	17.31	77.4
1267710	7107099	639597	1051	UTM83-8	WHI11001353	1.9	63	2.9	0.14	0.16	45	18.3	73.5
1267711	7107051	639597	1058	UTM83-8	WHI11001353	0.5	44	5.6	0.12	0.2	19	21.15	72.6
1267712	7107001	639600	1062	UTM83-8	WHI11001353	1.1	57	5.4	0.11	0.25	39	18.69	70.1
1267713	7106949	639599	1065	UTM83-8	WHI11001353	0.4	27	5.6	0.11	0.24	53	20.46	75.5
1267714	7106901	639599	1061	UTM83-8	WHI11001353	0.9	90	12.6	0.15	0.55	42	27.18	84.5
1267715	7106848	639600	1058	UTM83-8	WHI11001353	1.5	50	7.9	0.11	0.36	31	17.16	67.8
1267716	7106801	639599	1042	UTM83-8	WHI11001353	0.1	58	2.9	0.14	0.22	15	16.35	92.6
1267717	7106751	639600	1014	UTM83-8	WHI11001353	0.1	60	2.9	0.15	0.17	23	14.22	97.3
1267718	7106701	639600	994	UTM83-8	WHI11001353	0.1	123	6	0.11	0.2	12	16.09	102.2
1267719	7106647	639600	968	UTM83-8	WHI11001353	0.1	117	6.4	0.11	0.28	28	27.28	95
1267720	7106599	639598	953	UTM83-8	WHI11001353	0.8	55	4.8	0.08	0.19	20	19.03	68.7
1267721	7106551	639599	947	UTM83-8	WHI11001353	0.4	46	3.6	0.08	0.19	12	17.39	80.7
1267722	7106451	639600	928	UTM83-8	WHI11001353	1.4	116	10.4	0.08	0.19	47	20.43	69.1
1267723	7106399	639598	920	UTM83-8	WHI11001353	0.5	91	8.3	0.09	0.18	32	18.91	67.1
1267724	7106301	639597	906	UTM83-8	WHI11001353	1.6	252	5	0.08	0.31	89	13.38	96.2
1267725	7106199	639599	900	UTM83-8	WHI11001353	0.4	32	6	0.11	0.2	25	20.9	87.2
1267726	7106153	639598	896	UTM83-8	WHI11001353	0.6	22	5.6	0.1	0.23	17	20.13	93.7
1267727	7106096	639602	890	UTM83-8	WHI11001353	0.4	68	14.1	0.11	0.75	70	31	172.3
1267728	7106048	639597	884	UTM83-8	WHI11001353	0.1	63	6.5	0.11	0.26	265	23.87	64.3
1267729	7105999	639599	876	UTM83-8	WHI11001353	0.1	57	6.5	0.09	0.27	62	16.98	77.8
1267730	7105954	639601	870	UTM83-8	WHI11001353	0.1	40	8.1	0.09	0.31	344	18.58	68.3
1267731	7107300	640101	1204	UTM83-8	WHI11001353	1.5	167	4.2	0.2	0.3	31	23.91	237.8
1267732	7107247	640099	1184	UTM83-8	WHI11001353	0.8	61	5.6	0.22	0.23	22	31.71	162.2
1267733	7107195	640099	1167	UTM83-8	WHI11001353	1.1	79	6.3	0.19	0.28	21	44.89	151.7
1267734	7107150	640095	1143	UTM83-8	WHI11001353	0.3	38	5	0.16	0.13	12	22.68	124.8
1267735	7107102	640099	1113	UTM83-8	WHI11001353	0.4	179	2	0.14	0.2	17	14.27	88.5
1267736	7107048	640095	1080	UTM83-8	WHI11001353	0.5	89	4	0.16	0.21	15	15.27	91.1
1267737	7106998	640100	1057	UTM83-8	WHI11001353	0.8	23	2.4	0.19	0.28	7	12.65	66.6
1267738	7106951	640097	1034	UTM83-8	WHI11001353	0.7	101	8	0.13	0.48	19	23.23	79.4

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1267739	7106898	640097	1008	UTM83-8	WHI11001353	0.6	50	1.1	0.13	0.23	24	16.07	56.6
1267740	7106852	640097	988	UTM83-8	WHI11001353	0.7	113	6	0.1	0.22	25	23.28	78.7
1267741	7106801	640098	960	UTM83-8	WHI11001353	1	34	5.2	0.12	0.2	16	19.19	71.3
1267742	7106751	640094	936	UTM83-8	WHI11001353	0.5	137	4.4	0.11	0.29	28	14.23	67.3
1267743	7106606	640099	912	UTM83-8	WHI11001353	0.7	24	4.8	0.14	0.19	14	20.46	127.2
1267744	7108878	354505	1317	UTM83-9	WHI11001353	0.5	64	14.6	0.09	0.56	58	24.85	67.3
1267745	7108823	354500	1287	UTM83-9	WHI11001353	0.3	80	9.8	0.11	0.36	51	23.56	63.3
1267746	7108776	354496	1250	UTM83-9	WHI11001353	0.5	119	6.5	0.11	0.31	34	24.68	66.4
1267747	7108726	354494	1225	UTM83-9	WHI11001353	1.1	103	24.4	0.12	1.38	62	43.41	655.6
1267748	7108675	354485	1198	UTM83-9	WHI11001353	0.6	23	12.6	0.11	0.65	60	24.57	136.2
1267749	7108626	354482	1174	UTM83-9	WHI11001353	4.2	143	38.8	0.11	2.03	413	34.01	85.8
1267750	7108534	354471	1109	UTM83-9	WHI11001353	0.9	135	7	0.14	0.3	81	31.25	104
1267751	7107259	639093	1313	UTM83-8	WHI11001352	0.9	307	5.3	0.17	0.46	28	17.84	100.9
1267752	7107200	639094	1308	UTM83-8	WHI11001352	1.3	110	6.5	0.2	0.48	32	16.45	95.6
1267753	7107108	639105	1283	UTM83-8	WHI11001352	0.6	35	2.9	0.16	0.29	33	25.39	108.1
1267754	7107052	639100	1262	UTM83-8	WHI11001352	0.6	108	2.8	0.16	0.21	19	18.52	151.8
1267755	7107002	639099	1244	UTM83-8	WHI11001352	0.5	69	5.8	0.15	0.33	7	21.4	90.7
1267756	7106956	639093	1239	UTM83-8	WHI11001352	0.7	50	5.9	0.14	0.36	22	17.65	187.1
1267757	7106900	639098	1216	UTM83-8	WHI11001352	0.6	115	7.6	0.11	0.38	32	26.33	111.9
1267758	7106854	639105	1193	UTM83-8	WHI11001352	0.8	208	5.9	0.12	0.26	44	21.95	140.9
1267759	7106805	639090	1167	UTM83-8	WHI11001353	1.4	118	7.1	0.11	0.29	30	22.08	70.9
1267760	7106755	639101	1155	UTM83-8	WHI11001356	0.1	87	5.2	0.13	0.19	27	20.15	80.9
1267761	7106692	639099	1118	UTM83-8	WHI11001353	0.1	126	2.9	0.1	0.2	14	14.1	43.2
1267762	7106651	639097	1096	UTM83-8	WHI11001353	0.5	270	3.7	0.14	0.16	19	16.36	103.9
1267763	7106603	639101	1074	UTM83-8	WHI11001353	0.1	37	3.8	0.11	0.16	68	16.39	74.7
1267764	7106552	639100	1059	UTM83-8	WHI11001353	0.1	83	5.6	0.1	0.15	29	20.21	66.1
1267765	7106506	639099	1036	UTM83-8	WHI11001353	0.7	85	4	0.13	0.25	12	13.95	57.8
1267766	7106355	639106	990	UTM83-8	WHI11001353	0.9	36	5.2	0.13	0.23	17	22.31	98.6
1267767	7106304	639101	977	UTM83-8	WHI11001353	0.9	111	3.4	0.09	0.15	20	13.79	76.8
1267768	7106196	639102	954	UTM83-8	WHI11001353	0.3	31	6.6	0.08	0.24	50	18.13	54.1
1267769	7106154	639109	947	UTM83-8	WHI11001353	0.3	16	2.2	0.15	0.15	15	9.33	62
1267770	7106109	639102	936	UTM83-8	WHI11001353	0.4	35	6.7	0.1	0.22	61	20.19	74.4
1267771	7105999	639098	903	UTM83-8	WHI11001353	4.3	52	5	0.09	0.23	40	17.46	47.7
1267772	7108777	353999	1354	UTM83-9	WHI11001353	2.6	121	3.9	0.07	0.41	13	17.45	89.7
1267773	7108673	353980	1380	UTM83-9	WHI11001353	2.3	150	6.2	0.17	0.23	129	31.92	74.2
1267774	7108624	353976	1368	UTM83-9	WHI11001353	2.4	41	10.6	0.13	0.44	28	25.48	66
1267775	7108524	353962	1331	UTM83-9	WHI11001353	1.2	103	5.5	0.18	0.18	69	22.9	51.1
1267776	7108483	353965	1317	UTM83-9	WHI11001353	0.4	108	11.1	0.12	0.45	67	23.24	57.4
1267777	7108331	353951	1249	UTM83-9	WHI11001353	3.8	93	18.9	0.08	1.2	128	24.39	71.7
1267801	7107555	634606	1198	UTM83-8	WHI11001352	0.8	51	38	0.12	1.56	42	45.17	254.3
1267802	7107451	634598	1144	UTM83-8	WHI11001352	0.4	106	5.5	0.1	0.25	30	19.53	79.3
1267803	7107404	634596	1129	UTM83-8	WHI11001352	0.8	43	8.6	0.1	0.33	25	27.51	80.9
1267804	7107501	634598	1145	UTM83-8	WHI11001352	0.1	56	3.7	0.12	0.21	26	35.56	67.1
1267805	7107354	634600	1107	UTM83-8	WHI11001352	0.2	51	6.3	0.1	0.31	18	26.3	102.3
1267806	7107301	634602	1084	UTM83-8	WHI11001352	0.8	90	8.4	0.09	0.49	18	27.03	83.7
1267807	7107259	634596	1057	UTM83-8	WHI11001352	0.1	84	9	0.11	0.27	23	31.35	89.3
1267808	7107141	634593	989	UTM83-8	WHI11001352	1.8	110	6.6	0.09	0.39	86	34.31	80.8
1267809	7107098	634600	968	UTM83-8	WHI11001352	1	85	7.7	0.09	0.43	62	27.99	83.8
1267810	7107006	634602	967	UTM83-8	WHI11001352	0.7	59	7.1	0.07	0.31	34	24.97	83.5
1267811	7106946	634592	982	UTM83-8	WHI11001352	1.4	21	5.8	0.07	1.69	25	18.87	66.4
1267812	7106853	634595	948	UTM83-8	WHI11001352	1.3	64	8.7	0.1	0.41	42	28.58	82.2
1267813	7106755	634604	926	UTM83-8	WHI11001352	1.5	134	7.6	0.08	0.46	59	20.47	68.8
1267814	7106660	634604	900	UTM83-8	WHI11001352	0.8	77	7.4	0.08	0.31	23	22.54	67.4
1267815	7106598	634605	889	UTM83-8	WHI11001352	0.1	67	6.6	0.08	0.27	20	24.84	104.1
1267816	7106447	634602	874	UTM83-8	WHI11001352	0.1	99	9.8	0.09	0.35	39	32	124.8
1267817	7106405	634599	864	UTM83-8	WHI11001352	0.5	27	4.3	0.09	0.17	16	14.03	62.2
1267818	7106256	634599	849	UTM83-8	WHI11001352	0.5	117	4.1	0.06	0.23	32	20.14	181.7
1267819	7106200	634596	842	UTM83-8	WHI11001352	0.8	23	7.5	0.11	0.35	23	18.46	96
1267820	7106151	634597	840	UTM83-8	WHI11001352	0.4	39	5.3	0.08	0.23	56	20.37	102.6
1267821	7106105	634602	835	UTM83-8	WHI11001352	1	13	7.8	0.09	0.33	25	22.51	72.6
1267822	7106052	634599	827	UTM83-8	WHI11001352	0.1	64	6.4	0.1	0.3	29	17.93	60.8
1267823	7106002	634598	818	UTM83-8	WHI11001352	1.6	76	5.6	0.07	0.23	33	18.74	93.2

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1267824	7105951	634602	814	UTM83-8	WHI11001352	1.5	101	12.1	0.1	0.39	71	27.34	111
1267825	7107207	638599	1296	UTM83-8	WHI11001352	0.1	47	4.5	0.12	0.23	24	21.71	112.4
1267826	7107257	638591	1314	UTM83-8	WHI11001352	0.1	118	3.9	0.16	0.16	34	16.76	129.8
1267827	7107300	638601	1320	UTM83-8	WHI11001352	0.1	42	5.3	0.12	0.17	14	21.87	88.2
1267828	7107150	638592	1283	UTM83-8	WHI11001352	0.1	147	4.3	0.12	0.34	27	19.47	173.5
1267829	7107100	638591	1268	UTM83-8	WHI11001352	0.4	244	8.5	0.14	0.3	40	29.98	118.9
1267830	7107049	638598	1243	UTM83-8	WHI11001352	0.7	118	3.9	0.12	0.11	33	16.69	75.7
1267831	7107001	638596	1240	UTM83-8	WHI11001352	0.4	35	3	0.14	0.28	16	24.28	69.2
1267832	7106952	638595	1230	UTM83-8	WHI11001352	0.1	162	5.5	0.14	0.35	29	20.88	132.7
1267833	7106908	638605	1208	UTM83-8	WHI11001352	0.1	155	11.2	0.16	0.27	35	39.23	114.2
1267834	7106856	638604	1191	UTM83-8	WHI11001352	0.4	76	5.9	0.12	0.34	28	15.34	76.2
1267835	7106802	638596	1177	UTM83-8	WHI11001352	0.6	104	4.5	0.12	0.21	23	20.28	90
1267836	7106753	638602	1157	UTM83-8	WHI11001352	1.1	111	6.7	0.14	0.41	34	27.94	101.8
1267837	7106649	638595	1111	UTM83-8	WHI11001352	0.2	132	8	0.12	0.41	20	20.25	71.6
1267838	7106604	638605	1087	UTM83-8	WHI11001352	0.4	136	3.1	0.21	0.12	11	18.93	127.2
1267839	7106554	638602	1051	UTM83-8	WHI11001352	0.1	87	1.9	0.19	0.12	8	14.91	109
1267840	7106452	638598	1017	UTM83-8	WHI11001352	0.4	87	2.5	0.15	0.16	17	14.91	115.8
1267841	7106398	638599	1000	UTM83-8	WHI11001352	0.1	167	2.7	0.1	0.14	20	20.21	43.3
1267842	7106306	638598	979	UTM83-8	WHI11001352	1.3	182	4.5	0.11	0.18	51	19.29	69.3
1267843	7106252	638600	964	UTM83-8	WHI11001352	0.4	158	5.3	0.07	0.29	45	26.85	76.1
1267844	7106205	638600	958	UTM83-8	WHI11001352	1.1	88	7.6	0.1	0.36	69	33.3	82.2
1267845	7106159	638604	951	UTM83-8	WHI11001352	1.5	23	4.8	0.12	0.17	26	29.76	80.4
1267846	7106105	638597	941	UTM83-8	WHI11001352	1.9	91	8.3	0.11	0.41	75	32.06	89.4
1267847	7106049	638590	926	UTM83-8	WHI11001352	2.9	87	5.4	0.1	0.27	61	25.85	73.3
1267848	7106006	638600	925	UTM83-8	WHI11001352	1.6	73	4.8	0.11	0.15	48	28.23	76
1267849	7105950	638599		UTM83-8	WHI11001352	1.2	54	4.4	0.09	0.18	39	22.95	90.9
1267850	7107296	639094	1323	UTM83-8	WHI11001352	0.5	33	1.8	0.17	0.27	12	22.24	64.6
1267851	7107248	636101	937	UTM83-8	WHI11001352	1.1	60	5.2	0.1	0.26	26	26.33	83.9
1267852	7107302	636102	974	UTM83-8	WHI11001352	1.5	40	4.2	0.09	0.21	30	18.35	82
1267853	7107343	636097	941	UTM83-8	WHI11001352	1.4	64	4.7	0.08	0.2	31	19.97	80.5
1267854	7107401	636105	933	UTM83-8	WHI11001352	0.6	45	6.4	0.11	0.28	18	28.19	80.5
1267855	7107451	636101	907	UTM83-8	WHI11001352	0.7	36	4.8	0.09	0.14	9	24.38	84
1267856	7107499	636099	909	UTM83-8	WHI11001352	1.2	103	9.4	0.09	0.47	53	21.78	85.2
1267857	7107542	636097	883	UTM83-8	WHI11001352	1.4	136	9	0.08	0.4	65	23.02	74
1267858	7107598	636097	870	UTM83-8	WHI11001352	0.8	84	7.4	0.1	0.3	30	27.57	73.7
1267859	7107707	636097	870	UTM83-8	WHI11001352	1.3	99	6	0.09	0.4	98	22.77	70.9
1267860	7107792	636102	933	UTM83-8	WHI11001352	0.1	40	11.5	0.1	0.77	32	22.28	63.5
1267861	7106557	636098	839	UTM83-8	WHI11001352	0.1	47	2.9	0.12	0.12	13	12.58	113
1267862	7106503	636096	810	UTM83-8	WHI11001352	0.5	49	7.8	0.11	0.39	24	18.7	88.1
1267863	7106448	636095	1069	UTM83-8	WHI11001352	0.4	38	5	0.1	0.28	13	14.23	56.2
1267864	7106401	636098	1079	UTM83-8	WHI11001352	0.5	50	4.7	0.13	0.16	32	40.58	94.4
1267865	7106350	636095	1099	UTM83-8	WHI11001352	0.5	52	6.6	0.11	0.31	13	28.52	89.1
1267866	7106308	636102	1105	UTM83-8	WHI11001352	0.2	65	3.7	0.12	0.23	10	12.53	80
1267867	7106249	636096	1057	UTM83-8	WHI11001352	1.1	85	6.3	0.19	0.19	39	16.9	63.2
1267868	7106155	636099	1053	UTM83-8	WHI11001352	0.5	78	4.3	0.1	0.13	19	18.43	85
1267869	7106105	636102	1033	UTM83-8	WHI11001352	0.6	49	6.8	0.08	0.33	249	17.98	70.3
1267870	7106056	636100	998	UTM83-8	WHI11001352	0.7	16	4.5	0.12	0.15	37	16.07	57.3
1267871	7106000	636094	926	UTM83-8	WHI11001352	0.8	39	5.2	0.11	0.17	2	16.02	55.7
1267872	7105952	636098	916	UTM83-8	WHI11001352	0.4	34	5	0.14	0.29	14	13.52	87.1
1267873	7108197	645101	1383	UTM83-8	WHI11001353	1.6	174	12.1	0.08	0.2	82	26.25	103.5
1267874	7108153	645099	1370	UTM83-8	WHI11001353	0.2	106	9.2	0.09	0.42	32	28.71	104.3
1267875	7108105	645094	1377	UTM83-8	WHI11001353	0.4	210	28	0.14	0.64	49	41.54	97.3
1267876	7108050	645100	1365	UTM83-8	WHI11001353	6.3	224	18.7	0.13	0.63	115	15.15	54.6
1267877	7108003	645096	1370	UTM83-8	WHI11001353	0.1	173	9.8	0.11	0.32	40	23.28	81
1267878	7107954	645098	1370	UTM83-8	WHI11001353	0.3	50	9.1	0.09	0.29	16	18.14	49.1
1267879	7107896	645093	1332	UTM83-8	WHI11001353	0.6	115	13.9	0.12	0.66	127	27.39	73.8
1267880	7107854	645099	1303	UTM83-8	WHI11001353	0.9	146	9.8	0.09	0.41	141	21.13	58.2
1267881	7107802	645099	1304	UTM83-8	WHI11001353	0.5	212	8.8	0.1	0.44	99	28.85	82.6
1267882	7107755	645098	1309	UTM83-8	WHI11001353	1.3	261	11	0.1	0.61	35	27.37	74.8
1267883	7107705	645094	1301	UTM83-8	WHI11001353	0.1	153	8.1	0.09	0.43	26	27.27	94.8
1267884	7107598	645097	1284	UTM83-8	WHI11001353	0.8	78	10.6	0.08	0.52	135	32.52	87.2
1267885	7107552	645094	1274	UTM83-8	WHI11001353	0.4	130	11.5	0.11	0.6	113	29.28	73.9

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1267886	7107504	645100	1256	UTM83-8	WHI11001353	1.2	122	9.4	0.06	0.46	162	18.89	112.3
1267887	7107448	645100	1255	UTM83-8	WHI11001353	1	143	20.6	0.11	0.6	453	23.51	82.1
1267888	7107399	645105	1266	UTM83-8	WHI11001353	1.1	39	19.9	0.15	0.69	290	35.6	97.6
1267889	7107350	645101	1269	UTM83-8	WHI11001353	0.5	240	31.5	0.14	0.29	367	36.41	76.1
1267890	7107254	645096	1274	UTM83-8	WHI11001353	0.6	33	13.6	0.18	0.47	120	29.19	65.9
1267891	7107100	645103	1281	UTM83-8	WHI11001353	0.1	56	18	0.14	0.43	102	27.6	142.3
1267892	7106953	645100	1279	UTM83-8	WHI11001353	0.1	29	32.9	0.13	1.04	206	50.74	262.6
1267893	7106900	645099		UTM83-8	WHI11001353	0.9	32	21.1	0.12	0.81	217	40.38	255
1267894	7108423	354965	984	UTM83-9	WHI11001353	0.8	43	16.9	0.13	0.7	64	18.67	289.7
1267895	7108378	354966	977	UTM83-9	WHI11001353	1.1	74	10.9	0.11	0.66	101	23.79	215.9
1267896	7108318	354955	978	UTM83-9	WHI11001353	0.1	122	7.4	0.12	0.24	84	29.99	89.7
1267897	7108281	354956	977	UTM83-9	WHI11001353	3.3	89	6.5	0.09	0.28	54	24.87	79.3
1267898	7107979	354917	955	UTM83-9	WHI11001353	1.5	99	5.5	0.07	0.21	62	20.87	78.6
1267899	7107888	354911	947	UTM83-9	WHI11001353	1.7	145	8.1	0.1	0.28	72	32.79	94.2
1267900	7107835	354902	939	UTM83-9	WHI11001353	1.8	113	8	0.08	0.42	119	24.02	120.3
1267901	7107452	644596	1296	UTM83-8	WHI11001353	0.2	87	8.9	0.09	0.24	43	22.98	140.4
1267902	7107401	644597	1305	UTM83-8	WHI11001353	1.3	234	16.8	0.11	0.34	271	22.1	71
1267903	7107304	644600	1332	UTM83-8	WHI11001353	0.8	76	12.7	0.09	0.42	106	21.35	66.9
1267904	7107253	644597	1351	UTM83-8	WHI11001353	0.7	71	15.2	0.1	0.81	21	16.94	53.7
1267905	7107203	644597	1355	UTM83-8	WHI11001353	0.1	23	40.7	0.1	0.47	45	10.14	63.3
1267906	7107151	644602	1335	UTM83-8	WHI11001353	0.1	65	16.9	0.07	0.39	34	20.87	75.6
1267907	7107053	644598	1286	UTM83-8	WHI11001353	0.8	130	14.3	0.19	0.22	561	26.15	73.2
1267908	7106996	644596	1269	UTM83-8	WHI11001353	0.1	140	8.5	0.06	0.4	133	19.5	63.2
1267909	7106948	644602	1250	UTM83-8	WHI11001353	1	156	16.7	0.12	0.61	500	25.77	78.3
1267910	7106901	644602	1240	UTM83-8	WHI11001353	0.7	238	49.5	0.11	0.49	2440	24	65.1
1267911	7107399	644102	1311	UTM83-8	WHI11001353	0.1	72	12.3	0.08	0.33	49	15.78	94.3
1267912	7107353	644099	1293	UTM83-8	WHI11001353	0.1	112	20.1	0.07	0.41	51	20.98	69.8
1267913	7107300	644102	1277	UTM83-8	WHI11001353	0.5	427	11.4	0.1	0.38	171	17.42	64.7
1267914	7107250	644101	1267	UTM83-8	WHI11001353	0.7	258	13.6	0.08	0.39	166	15.49	81.7
1267915	7107201	644102	1260	UTM83-8	WHI11001353	1	103	27.7	0.07	0.65	209	19.55	90.7
1267916	7107150	644102	1256	UTM83-8	WHI11001353	0.1	199	17.5	0.08	0.29	203	22.43	79.4
1267917	7107100	644102	1250	UTM83-8	WHI11001353	0.6	202	22.3	0.09	0.73	131	17.15	110.4
1267918	7107001	644094	1269	UTM83-8	WHI11001353	0.1	41	16.7	0.09	0.32	38	25.02	83.5
1267919	7106955	644096	1255	UTM83-8	WHI11001353	0.1	109	8.4	0.08	0.23	64	19.06	46.4
1267920	7106898	644101	1217	UTM83-8	WHI11001353	1	195	18.3	0.09	0.33	249	21.03	60.5
1267951	7105952	636595		UTM83-8	WHI11001353	0.1	38	5.9	0.14	0.17	35	18.64	78
1267952	7107202	637098		UTM83-8	WHI11001353	0.7	278	3.3	0.21	0.21	32	56.23	116.1
1267953	7107152	637100		UTM83-8	WHI11001353	0.1	71	6.4	0.1	0.38	22	17.85	87.7
1267954	7107110	637095		UTM83-8	WHI11001353	0.1	54	4.5	0.21	0.22	22	16.23	100.2
1267955	7107050	637092		UTM83-8	WHI11001353	0.1	39	7.5	0.12	0.23	19	27.72	65.8
1267956	7107004	637098		UTM83-8	WHI11001353	0.1	75	7.6	0.14	0.46	27	30.36	125.6
1267957	7106956	637099		UTM83-8	WHI11001353	0.1	102	5.7	0.12	0.23	22	18.49	95.4
1267958	7106902	637095		UTM83-8	WHI11001353	0.1	139	8	0.12	0.48	24	16.47	82.2
1267959	7106847	637099		UTM83-8	WHI11001353	0.1	72	7.8	0.11	0.39	33	29.18	99.8
1267960	7106803	637099		UTM83-8	WHI11001353	0.1	64	6.8	0.1	0.33	32	31.01	86.6
1267961	7106759	637101		UTM83-8	WHI11001353	0.1	56	10.2	0.13	0.3	26	36.49	80.2
1267962	7106708	637103		UTM83-8	WHI11001353	0.1	39	8.4	0.11	0.42	35	28.34	70.2
1267963	7106654	637102		UTM83-8	WHI11001353	0.1	74	9.3	0.1	0.21	21	26.17	85.9
1267964	7106604	637097		UTM83-8	WHI11001353	0.1	61	7.4	0.11	0.21	38	58.52	96.5
1267965	7106555	637096		UTM83-8	WHI11001353	0.1	76	6	0.15	0.18	10	31.48	84.2
1267966	7106503	637097		UTM83-8	WHI11001353	0.1	39	5.4	0.1	0.26	25	18.93	72.1
1267967	7106454	637099		UTM83-8	WHI11001353	0.1	24	6.1	0.12	0.24	20	22.35	83.6
1267968	7106405	637102		UTM83-8	WHI11001353	0.1	50	4	0.12	0.15	10	14.43	79
1267969	7106348	637096		UTM83-8	WHI11001353	0.1	33	5	0.1	0.18	15	23.37	79.9
1267970	7106304	637095		UTM83-8	WHI11001353	0.1	20	4.2	0.08	0.13	13	21.63	69.6
1267971	7106245	637099		UTM83-8	WHI11001353	0.1	71	3.7	0.09	0.19	46	13.51	93.9
1267972	7106198	637097		UTM83-8	WHI11001353	0.1	70	3.5	0.1	0.1	17	18.62	71.5
1267973	7106153	637093		UTM83-8	WHI11001353	0.1	46	8	0.11	0.25	13	17.72	73.1
1267974	7106104	637093		UTM83-8	WHI11001353	5.1	107	3.9	0.18	0.23	25	20.12	87.8
1267975	7106050	637096		UTM83-8	WHI11001353	2.1	61	5.3	0.14	0.39	22	13.7	87.5
1267976	7106007	637097		UTM83-8	WHI11001353	1.6	98	10.1	0.15	0.51	22	19.82	80.2
1267977	7105950	637095		UTM83-8	WHI11001353	0	0	0	0	0	0	0	0

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
1267978	7108600	645595		UTM83-8	WHI11001354	1.4	97	12.6	0.07	0.71	35	25.39	90
1267979	7108554	645599		UTM83-8	WHI11001354	1.1	33	11.9	0.1	0.64	27	24.27	77.9
1267980	7108507	645601		UTM83-8	WHI11001354	0.3	54	7.2	0.1	0.47	36	24.3	75.4
1267981	7108453	645600		UTM83-8	WHI11001354	1.2	112	9	0.1	0.37	57	25.62	72.9
1267982	7108359	645594		UTM83-8	WHI11001354	0.1	93	19.9	0.09	1.32	643	23.29	59
1267983	7108304	645600		UTM83-8	WHI11001354	0.3	257	14.1	0.14	0.5	388	37.33	87.4
1267984	7108255	645605		UTM83-8	WHI11001354	0.4	135	13.4	0.09	0.48	32	27.31	106.2
1267985	7108203	645607		UTM83-8	WHI11001354	0.1	90	9.7	0.08	0.47	20	18.16	74.9
1267986	7108160	645599		UTM83-8	WHI11001354	1.5	109	18.2	0.11	0.76	128	30.95	88.4
1267987	7108101	645599		UTM83-8	WHI11001354	2.1	112	16.1	0.07	0.74	115	25.06	82.2
1267988	7107897	645592		UTM83-8	WHI11001354	1.4	92	10	0.07	0.58	120	26.47	103.8

b) Stream silt geochemistry – selected elements

Sample	Northing	Easting	Elevation	Grid	Lab certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
118502	7107638	638309	1336	UTM83-8	WHI11000242	1	88	7.5	0.12	0.53	106	22.55	137.3
118503	7107433	638249	1265	UTM83-8	WHI11000242	1	63	8.2	0.08	0.55	397	27.79	97.5
118504	7107209	638276	1204	UTM83-8	WHI11000242	1	84	6.4	0.07	0.54	134	24.8	95.7
118505	7106996	638260	1151	UTM83-8	WHI11000242	1	75	4.7	0.07	0.36	100	23.46	89.4
118506	7106775	638331	1076	UTM83-8	WHI11000242	1	64	5.4	0.09	0.25	95	29.77	84.2
118507	7106573	638398	1023	UTM83-8	WHI11000242	1	60	4.8	0.08	0.23	90	26.89	85.8
118508	7106401	638533	980	UTM83-8	WHI11000242	1	74	4.8	0.09	0.23	81	26.86	88.2
118509	7106209	638553	951	UTM83-8	WHI11000242	1	73	4.5	0.09	0.19	69	23.39	90.7
118512	7108148	635046	1125	UTM83-8	WHI11000242	1	131	10.3	0.1	0.34	51	33.05	139.3
118513	7107995	635194	1076	UTM83-8	WHI11000242	1	102	9.7	0.11	0.38	30	31.64	122.9
118514	7107789	635275	1035	UTM83-8	WHI11000242	1	97	9.5	0.1	0.3	29	28.21	112.2
118515	7107634	635380	999	UTM83-8	WHI11000242	1	103	8.6	0.08	0.29	47	27.37	111.9
118517	7108519	635555	1098	UTM83-8	WHI11000242	1	81	12	0.06	0.34	79	27.34	83.2
118518	7108151	635676	1027	UTM83-8	WHI11000242	1	71	11	0.05	0.31	15	25.33	79.3
118519	7107953	635792	985	UTM83-8	WHI11000242	1	106	11	0.05	0.29	15	25.29	79
118521	7107709	635919	966	UTM83-8	WHI11000242	1	80	10.5	0.05	0.35	22	26.26	82.4
118651	7107964	633601	1291	UTM83-8	WHI11000242	1	109	5.7	0.13	0.35	35	28.38	150.9
118652	7107765	633626	1223	UTM83-8	WHI11000242	1	83	5.7	0.11	0.31	50	29.62	140
118653	7107587	633630	1155	UTM83-8	WHI11000242	1	80	6.2	0.11	0.34	51	31.61	133.3
118654	7107398	633652	1101	UTM83-8	WHI11000242	1	87	6.6	0.12	0.28	34	31.87	148.2
118655	7107212	633694	1063	UTM83-8	WHI11000242	1	89	6.6	0.11	0.34	41	28.59	124.3
118656	7107060	633831	1030	UTM83-8	WHI11000242	1	67	6.6	0.12	0.3	36	29.73	126.5
118657	7106937	633963	996	UTM83-8	WHI11000242	1	72	6.6	0.1	0.27	48	29.31	124.8
118658	7106848	634152	959	UTM83-8	WHI11000242	1	75	6.4	0.11	0.32	51	28.94	123.7
118659	7107823	639661	1173	UTM83-8	WHI11000242	1	114	6.5	0.12	0.44	77	26.45	90.5
118660	7107659	639713	1127	UTM83-8	WHI11000242	1	84	6.3	0.1	0.42	100	24.12	88
118661	7107423	639687	1082	UTM83-8	WHI11000242	1	97	6.4	0.09	0.4	57	24.5	79.5
118662	7107201	639697	1042	UTM83-8	WHI11000242	1	81	5.9	0.09	0.35	72	22.44	74
118663	7107045	639734	1013	UTM83-8	WHI11000242	1	106	5.3	0.09	0.31	80	24.53	81.6
118664	7109087	644994	1294	UTM83-8	WHI11000242	3	142	16.2	0.1	0.88	209	27.31	99.2
118665	7109174	644773	1252	UTM83-8	WHI11000242	2	95	17.1	0.1	1.31	257	22.07	93
118666	7109183	644728	1234	UTM83-8	WHI11000242	2	99	20.9	0.11	1.51	581	22.74	91.3
118667	7109950	644332	1270	UTM83-8	WHI11000242	3	147	14.8	0.09	0.87	578	21.47	90.5
118668	7109805	644179	1221	UTM83-8	WHI11000242	3	167	13.2	0.1	0.63	659	21.91	97.1
118669	7109617	643853	1119	UTM83-8	WHI11000242	2	119	9	0.08	0.47	652	20.62	85.4
118670	7109621	643557	1041	UTM83-8	WHI11000242	1	132	8.7	0.06	0.43	463	19.64	77.1
118671	7109518	643427	1005	UTM83-8		0	0	0	0	0	0	0	0
118673	7108765	643015	978	UTM83-8	WHI11000456	1	80	13.4	0.06	0.56	415	21.13	81.4
119201	7110411	643055	1060	UTM83-8	WHI11000306	1	74	19.9	0.06	1.1	708	28.51	107
119202	7110227	643234	1016	UTM83-8	WHI11000306	1	71	19.6	0.05	1.09	533	39.66	108.1
119203	7110099	643309	1020	UTM83-8	WHI11000306	1	67	19.6	0.05	1.15	920	28.17	104.4
119204	7109947	643413	1010	UTM83-8	WHI11000306	1	62	19.1	0.05	1.13	604	26.97	105.2
119205	7109742	643419	1013	UTM83-8	WHI11000306	1	71	19	0.05	1.08	1125	26.76	100.7
119206	7109518	643396	1028	UTM83-8	WHI11000306	1	61	17.9	0.05	0.99	197	25.19	100.8
119207	7109329	643299	999	UTM83-8	WHI11000306	1	76	19.8	0.06	1.04	379	28.78	107.4
119208	7109151	643216	1004	UTM83-8	WHI11000306	1	67	19.5	0.06	1.06	1072	27.4	108.5
119209	7108991	643123	988	UTM83-8	WHI11000306	1	66	19	0.06	1.06	1415	32.17	104.5
119210	7108781	643011	975	UTM83-8	WHI11000306	1	61	16.9	0.05	0.95	877	27.48	99.1
119211	7108578	642905	958	UTM83-8	WHI11000306	1	64	18	0.04	0.9	142	26.55	95.9
119213	7108584	637204	971	UTM83-8	WHI11000352	1	59	11	0.08	0.29	60	22.75	89.3
119214	7108427	637133	965	UTM83-8	WHI11000352	2	73	10.2	0.08	0.31	53	22.52	92.3
119215	7108289	637015	951	UTM83-8	WHI11000352	1	79	10	0.11	0.34	63	22.72	78.3
119216	7108116	636912	941	UTM83-8	WHI11000352	3	84	7.2	0.11	0.33	54	23.87	88.5
119217	7107977	636744	931	UTM83-8	WHI11000352	2	73	9.9	0.09	0.31	59	21.06	84.3
119218	7107840	636582	923	UTM83-8	WHI11000352	2	61	9.5	0.09	0.29	54	22.27	79.9
119219	7107705	636422	915	UTM83-8	WHI11000352	1	71	9.7	0.08	0.29	61	21.34	82.2
119220	7107586	636254	896	UTM83-8	WHI11000352	2	64	9.9	0.09	0.29	55	23.69	85.4
119221	7107458	636076	886	UTM83-8	WHI11000352	1	58	9.6	0.08	0.27	39	23.69	82.6
119222	7107289	635954	875	UTM83-8	WHI11000352	1	63	8.3	0.07	0.24	48	21.09	82.5
119251	7107068	641730	901	UTM83-8	WHI11000306	1	71	16.5	0.06	1.01	451	28.13	99.6
119252	7107235	641889	906	UTM83-8	WHI11000306	1	57	15.9	0.05	0.93	256	26.68	90.8
119253	7107388	642029	911	UTM83-8	WHI11000306	1	63	16.3	0.05	1.4	274	28.87	93.8

Sample	Northing	Easting	Elevation	Grid	Lab certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
119254	7107551	642154	911	UTM83-8	WHI11000306	1	60	15.7	0.05	0.81	296	29.14	94.1
119255	7107841	642359	933	UTM83-8	WHI11000306	1	56	17.2	0.04	0.95	1215	23.6	95.4
119256	7107921	642389	925	UTM83-8	WHI11000306	1	60	16.1	0.05	0.92	178	32.28	92
119257	7108091	642567	931	UTM83-8	WHI11000306	1	69	18	0.05	1	409	28.64	105
119258	7108290	642741	943	UTM83-8	WHI11000306	1	59	16.6	0.05	0.96	188	28.59	101.9
119260	7106092	634792	816	UTM83-8	WHI11000352	3	48	8.3	0.07	0.23	32	24.68	92.2
119261	7106290	634863	831	UTM83-8	WHI11000352	1	53	7.6	0.07	0.22	31	24.13	105.2
119262	7106419	635011	838	UTM83-8	WHI11000352	1	52	8.5	0.08	0.22	35	23.41	89
119263	7106573	635169	847	UTM83-8	WHI11000352	1	54	8	0.07	0.22	34	24.94	88.1
119264	7106789	635367	860	UTM83-8	WHI11000352	1	49	8.3	0.07	0.23	83	24.68	85
119265	7106913	635506	863	UTM83-8	WHI11000352	1	49	8.8	0.08	0.24	32	26.51	91.8
119266	7107038	635687	858	UTM83-8	WHI11000352	2	53	8.7	0.07	0.24	30	27.86	85.5
119267	7107149	635797	867	UTM83-8	WHI11000352	1	63	9.1	0.08	0.25	42	24.96	88.1
119448	7106937	641555	887	UTM83-8	WHI11000306	3	62	14.9	0.04	0.88	183	30.15	91.1
120001	7107797	634194	1200	UTM83-8	WHI11000242	1	77	7.4	0.15	0.3	26	34.89	361.8
120002	7107571	634171	1124	UTM83-8	WHI11000242	1	61	7.3	0.11	0.27	11	31.41	222.6
120003	7107299	634351	1046	UTM83-8	WHI11000242	1	88	8.1	0.11	0.35	80	30.43	205.9
120004	7108063	641088	1057	UTM83-8	WHI11000352	1	107	7.8	0.11	0.36	78	27.15	83.6
120005	7107825	641097	1027	UTM83-8	WHI11000352	1	96	7.3	0.09	0.35	53	24.82	78.5
120006	7107598	641160	1007	UTM83-8	WHI11000352	1	92	7.4	0.1	0.37	76	24.81	81
120007	7107381	641217	962	UTM83-8	WHI11000352	1	92	7.2	0.1	0.37	104	25.19	77.1
120008	7107218	641360	933	UTM83-8	WHI11000352	1	101	7.4	0.09	0.37	131	25.06	82.3
120009	7107006	641464	900	UTM83-8	WHI11000352	1	102	7.9	0.1	0.38	168	24.39	89.6
120010	7108061	641087	1062	UTM83-8	WHI11000352	1	80	7.5	0.09	0.44	100	21.57	72.1
120503	7109508	643381	1015	UTM83-8	WHI11000352	2	99	14.5	0.07	1.12	566	18.39	78.8
120504	7109654	643468	1022	UTM83-8	WHI11000352	3	64	15.7	0.06	0.81	378	21.37	86.1
120506	7106967	641543	902	UTM83-8	WHI11000352	1	86	7.4	0.09	0.33	70	23.03	72.8
120511	7110302	645367	1449	UTM83-8	WHI11000352	1	263	9.4	0.14	0.3	110	32.2	92.6
120512	7110472	645284	1378	UTM83-8	WHI11000352	2	157	10.5	0.08	0.33	101	27.3	91.3
120513	7109864	645368	1566	UTM83-8	WHI11000352	6	549	10.4	0.14	0.4	292	28.11	83.9
120514	7110099	645129	1454	UTM83-8	WHI11000352	1	545	10.8	0.13	0.4	277	25.52	97.4
120515	7110233	645009	1399	UTM83-8	WHI11000352	1	113	18.5	0.09	0.4	108	37.2	103.6
120516	7110356	644921	1383	UTM83-8	WHI11000352	1	225	19.5	0.11	0.47	317	40.78	101.6

c) BLEG geochemistry – selected elements

Sample	Northing	Easting	Elevation	Grid	Certificate	Au (ppb)	Ag (ppb)	As (ppm)	Tl (ppm)	Sb (ppm)	Hg (ppb)	Pb (ppm)	Zn (ppm)
118510	7106209	638551	953	UTM83-8	WHI11000243	3.6	42	0	0	0	0	0.005	2
118516	7107634	635380	1000	UTM83-8	WHI11000243	3.2	59	0	0	0	0	0.005	4.91
118520	7107953	635793	984	UTM83-8	WHI11000243	1.1	41	0	0	0	0	0.62	0.96
118672	7108767	643017	974	UTM83-8	WHI11000353	0.7	24	0	0	0	0	0.46	2.81
120014	7106291	634861	824	UTM83-8	WHI11000353	2.7	47	0	0	0	0	0.005	13.42
120015	7110376	644900	1367	UTM83-8	WHI11000353	2.4	108	0	0	0	0	0.39	5.09
120016	7110375	644900	1366	UTM83-8	WHI11000353	0.05	116	0	0	0	0	0.79	6.48
120505	7106967	641543	902	UTM83-8	WHI11000353	0.3	57	0	0	0	0	0.6	0.21

d) Rock geochemistry – selected elements

Sample	Northing	Easting	Elevation	Grid	Certificate	kg	Au (ppb)	Ag (ppm)	As (ppm)	Tl (ppm)	Sb (ppm)	Pb (ppm)	Zn (ppm)
119173	7106965	637823	1242	UTM83-8	WHI11000455	2.04	4	0.05	5.6	0.05	0.3	17.1	59
121551	7107427	633228	1325	UTM83-8	WHI11000383	3.04	11	0.05	6	0.05	0.05	4.8	15
118757	7107482	638956	1430	UTM83-8	WHI11000383	2.27	1	0.05	3.6	0.05	0.05	37.6	19
119527	7107516	643470	1479	UTM83-8	WHI11000886	1.87	34	0.05	61.9	0.05	0.2	11.6	53
119528	7107516	643474	1480	UTM83-8	WHI11000886	1.82	32	0.05	92.4	0.05	0.2	9.1	19
119524	7107518	643400	1459	UTM83-8	WHI11000886	1.99	35	0.05	51.9	0.05	0.1	6	12
119530	7107523	643516	1478	UTM83-8	WHI11000886	1.6	3	0.05	18	0.05	0.1	14.2	54
119529	7107526	643490	1481	UTM83-8	WHI11000886	1.06	3	0.05	4.3	0.05	0.1	6.1	16
119526	7107530	643409	1468	UTM83-8	WHI11000886	1.54	153	0.05	795.3	0.05	0.2	9.1	20
119525	7107531	643409	1467	UTM83-8	WHI11000886	1.72	35	0.05	294.8	0.05	0.3	16.4	9
119531	7107534	643518	1482	UTM83-8	WHI11000886	1.5	7	0.05	31.9	0.05	0.05	11.2	29
118755	7107536	637747	1453	UTM83-8	WHI11000383	3.38	1	0.05	1	0.05	0.05	14.9	73
119523	7107733	643682	1516	UTM83-8	WHI11000886	1.91	2	0.05	96.9	0.05	0.5	3	23
120109	7107810	637844	1490	UTM83-8	WHI11000383	2.6	1	0.05	4.8	0.05	0.1	1.3	1
119522	7107810	643800	1511	UTM83-8	WHI11000886	1.19	3	0.05	88.2	0.05	0.7	3.4	15
120108	7107822	637856	1494	UTM83-8	WHI11000383	2.16	1	0.05	1.1	0.05	0.05	16.6	70
118756	7107823	638903	1531	UTM83-8	WHI11000383	2.84	1	0.05	1	0.1	0.05	20.1	73
119172	7107931	632969	1525	UTM83-8	WHI11000383	2.5	1	0.05	1.3	0.05	0.05	0.7	7
120106	7107932	634161	1227	UTM83-8	WHI11000240	2.01	1	0.05	4.3	0.05	0.05	1	1
120110	7108007	640493	1380	UTM83-8	WHI11000383	1.28	1	0.05	1.1	0.05	0.05	2.5	19
118758	7108008	633879	1440	UTM83-8	WHI11000383	2.8	1	0.05	5.4	0.2	0.05	25.6	101
119166	7108015	644132	1455	UTM83-8	WHI11000383	1.84	1	0.05	4.7	0.05	0.3	4.7	13
119521	7108021	644100	1470	UTM83-8	WHI11000886	1.3	1	0.05	7.9	0.2	0.3	10.8	31
119171	7108070	632994	1547	UTM83-8	WHI11000383	3.07	1	0.05	0.7	0.05	0.05	7.7	11
119165	7108070	644180	1458	UTM83-8	WHI11000383	1.69	1	0.05	30.2	0.05	0.3	9.8	54
120107	7108119	633056	1604	UTM83-8	WHI11000383	1.85	1	0.05	1.4	0.05	0.05	3.4	34
120105	7108122	634111	1301	UTM83-8	WHI11000240	0.92	1	0.05	5.1	0.05	0.1	16.1	107
120111	7108176	640494	1329	UTM83-8	WHI11000383	2.2	1	0.05	6.8	0.05	0.1	62.1	30
120104	7108178	634048	1330	UTM83-8	WHI11000240	2.75	1	0.2	6.1	0.2	0.05	43.7	71
119151	7108225	638802	1645	UTM83-8	WHI11000240	1.44	1	0.05	13.5	0.05	0.4	2.1	67
119152	7108228	638805	1643	UTM83-8	WHI11000240	0.58	1	0.05	6.4	0.05	0.2	2.3	20
119153	7108228	638806	1647	UTM83-8	WHI11000240	0.51	4	0.05	23.1	0.05	2.2	15.9	81
119154	7108228	638806	1647	UTM83-8	WHI11000240	1.61	1	0.05	6	0.05	0.3	3.2	56
119170	7108250	633017	1637	UTM83-8	WHI11000383	2.16	1	0.05	4.9	0.05	0.05	6.8	19
120083	7108297	638820	1660	UTM83-8	WHI11001984	1.65	4	0.05	4.4	0.05	0.9	6.6	4
120101	7108303	633820	1488	UTM83-8	WHI11000240	1.24	1	0.05	0.25	0.05	0.05	1.6	26
119168	7108307	632873	1596	UTM83-8	WHI11000383	2.72	1	0.05	4.1	0.05	0.05	9.9	38
119167	7108314	632926	1622	UTM83-8	WHI11000383	3.98	1	0.05	25.6	0.05	0.1	12.4	45
119169	7108334	632837	1594	UTM83-8	WHI11000383	0.52	1	0.05	1.5	0.05	0.05	50.1	42
120102	7108346	633819	1511	UTM83-8	WHI11000240	1.6	1	0.2	5.1	0.05	0.05	28	36
119164	7108369	644470	1509	UTM83-8	WHI11000383	1.54	1	0.05	6.2	0.05	0.2	2.1	8
119155	7108372	638694	1559	UTM83-8	WHI11000240	1.59	1	0.05	6	0.05	0.05	0.4	2
119518	7108401	644420	1445	UTM83-8	WHI11000886	1.47	10	0.1	915.9	0.4	3.2	8.3	28
119520	7108404	644410	1445	UTM83-8	WHI11000886	1.36	1	0.05	2.8	0.05	0.1	3.2	5
119519	7108404	644412	1443	UTM83-8	WHI11000886	0.77	3	0.05	12.6	0.05	0.3	3.4	11
120091	7108421	641725	1423	UTM83-8	WHI11001984	1.39	1	0.05	20.4	0.1	0.3	0.9	0.5
120103	7108422	633850	1518	UTM83-8	WHI11000240	1.7	1	0.05	0.9	0.05	0.05	1.8	25
120092	7108422	641754	1421	UTM83-8	WHI11001984	1.41	1	0.05	1.5	0.6	0.05	0.6	0.5
120090	7108424	641731	1424	UTM83-8	WHI11001984	1.57	1	0.05	107.1	0.4	1.8	3.6	33
118638	7108449	643349	1129	UTM83-8	WHI11000953	0.51	11	0.05	30.8	0.05	0.05	19.4	130
617452	7108455	632892	1503	UTM83-8	WHI11001243	0.89	1	0.05	0.25	0.05	0.05	2.9	3
617453	7108455	632892	1504	UTM83-8	WHI11001243	0.34	1	0.05	2.4	0.05	0.05	6.9	28
120082	7108460	638921	1668	UTM83-8	WHI11001984	1.46	1	0.05	0.25	0.05	0.1	4.4	1622
118601	7108472	634309	1551	UTM83-8	WHI11000240	1.1	1	0.05	2.3	0.05	0.05	14.9	44
617451	7108484	634727	1361	UTM83-8	WHI11001243	1.41	1	0.1	8.5	0.1	0.1	37.7	240
617454	7108497	632898	1475	UTM83-8	WHI11001243	0.7	3	0.05	0.9	0.05	0.05	1.6	7
118602	7108508	634294	1555	UTM83-8	WHI11000240	1.18	1	0.05	0.25	0.05	0.05	3.3	19
120088	7108515	641746	1443	UTM83-8	WHI11001984	1.07	1	0.05	81.4	0.1	1.2	4.3	30
120089	7108516	641747	1445	UTM83-8	WHI11001984	1.41	1	0.05	22.6	0.05	0.4	0.9	8
120087	7108525	641752	1453	UTM83-8	WHI11001984	2.02	1	0.05	4.4	0.05	0.2	0.7	1
119160	7108533	644929	1516	UTM83-8	WHI11000383	1.71	1	0.05	9.5	0.05	0.05	6.1	15
119159	7108544	644935	1526	UTM83-8	WHI11000383	2.13	1	0.05	13.7	0.05	0.05	10.8	26

Sample	Northing	Easting	Elevation	Grid	Certificate	kg	Au (ppb)	Ag (ppm)	As (ppm)	Tl (ppm)	Sb (ppm)	Pb (ppm)	Zn (ppm)
119161	7108547	644728	1516	UTM83-8	WHI11000383	2.65	1	0.05	4	0.05	0.05	1.5	2
119162	7108575	644707	1499	UTM83-8	WHI11000383	2.44	5	0.05	15.3	0.05	1	7.4	29
119163	7108578	644619	1504	UTM83-8	WHI11000383	2.47	1	0.05	20.7	0.05	1	5.7	9
120086	7108630	641748	1479	UTM83-8	WHI11001984	1.26	1	0.05	2.6	0.05	0.2	4	2
120085	7108633	641741	1481	UTM83-8	WHI11001984	1.48	1	0.05	1.8	0.05	0.5	6.3	2
120084	7108647	641742	1480	UTM83-8	WHI11001984	1.47	1	0.05	1.2	0.05	0.05	0.8	4
118751	7108672	639604	1509	UTM83-8	WHI11000240	2.52	1	0.2	5.3	0.1	0.05	34.4	47
1097305	7109134	354086	1394	UTM83-9	WHI11001093	0.97	2	0.05	2.1	0.05	0.2	0.9	8
118753	7109181	644798	1242	UTM83-8	WHI11000240	1.72	1	0.05	2.4	0.05	0.05	9.5	21
118752	7109190	645555	1578	UTM83-8	WHI11000240	1.94	1	0.05	4.9	0.05	0.5	4.3	26
119510	7109194	645396	1585	UTM83-8	WHI11000869	1.19	1	0.05	2.6	0.05	0.05	5.4	20
119509	7109202	645385	1588	UTM83-8	WHI11000869	1.71	1	0.05	11.5	0.05	0.2	10.3	52
119508	7109203	645383	1589	UTM83-8	WHI11000869	0.74	4	0.05	18.1	0.05	0.3	18.9	40
119158	7109211	646043	1705	UTM83-8	WHI11000240	1.38	1	0.05	2	0.05	0.05	1.6	9
1097306	7109188	354129	1434	UTM83-9	WHI11001093	1.52	10	0.1	4.7	0.05	0.1	17.4	112
119512	7109249	645409	1587	UTM83-8	WHI11000869	1.21	1	0.05	3.4	0.05	0.2	9.1	37
119511	7109250	645406	1585	UTM83-8	WHI11000869	0.56	1	0.05	14.6	0.05	0.3	11.1	46
119513	7109277	645410	1595	UTM83-8	WHI11000869	1.55	2	0.05	25.6	0.05	0.3	9.3	52
119514	7109288	645409	0	UTM83-8	WHI11000869	0.97	1	0.05	40.5	0.05	0.3	6.5	48
120080	7109309	645838	1679	UTM83-8	WHI11000886	1.51	1	0.05	28.9	0.05	0.3	6.3	17
120081	7109309	645838	1679	UTM83-8	WHI11000886	1.61	1	0.05	4.4	0.05	0.05	15.3	49
118603	7109316	645468	1639	UTM83-8	WHI11000240	1.19	1	0.05	34.3	0.05	2.2	10.4	65
119157	7109337	645964	1721	UTM83-8	WHI11000240	0.69	1	0.05	13.3	0.05	0.1	7.1	11
119156	7109360	645950	1725	UTM83-8	WHI11000240	2.15	1	0.05	1.4	0.05	0.05	5.3	32
118604	7109527	644495	1444	UTM83-8	WHI11000240	2.15	1	0.05	1886.9	0.3	1.3	4	11
119516	7109549	645128	1560	UTM83-8	WHI11000869	0.78	1	0.05	18.6	0.05	0.05	6	39
120113	7109581	646146	1804	UTM83-8	WHI11000383	1.7	1	0.05	1.5	0.05	0.05	1.8	17
119515	7109585	645207	0	UTM83-8	WHI11000869	1.86	9	0.1	3528.3	13.5	89	26.4	35
119517	7109631	644864	1510	UTM83-8	WHI11000869	2.36	1	0.05	7.4	0.05	0.05	7.7	26
1097311	7109603	354175	1747	UTM83-9	WHI11001093	1.9	1	0.05	77.7	0.05	1.3	4.6	25
1097310	7109610	354175	1748	UTM83-9	WHI11001093	1.58	8	0.05	23.9	0.05	0.3	2.8	19
1097309	7109611	354175	1747	UTM83-9	WHI11001093	1.14	3	0.05	8.8	0.05	0.2	2	6
119546	7109642	354017	1733	UTM83-9	WHI11000886	1.05	1	0.05	0.25	0.05	0.05	1.1	3
119545	7109738	354052	1816	UTM83-9	WHI11000886	1.57	1	0.05	1.4	0.05	0.05	2.6	19
1097304	7109774	646163	1897	UTM83-8	WHI11001093	2.72	2	0.05	11.9	0.05	0.8	26.1	21
120078	7109777	646084	1871	UTM83-8	WHI11000886	2.16	1	0.05	2.1	0.05	0.2	3.2	21
1097303	7109778	646160	1897	UTM83-8	WHI11001093	1.81	1	0.05	2	0.05	0.1	2	25
120079	7109783	646074	1871	UTM83-8	WHI11000886	2.36	6	0.05	3.4	0.05	0.3	6.9	106
1097308	7109770	354066	1826	UTM83-9	WHI11001093	1.74	1	0.05	2.2	0.05	0.05	0.9	13
1097307	7109772	354064	1827	UTM83-9	WHI11001093	1.28	1	0.05	2.5	0.05	0.05	5.2	18
119543	7109782	354024	1835	UTM83-9	WHI11000886	1.33	1	0.05	0.25	0.05	0.05	1.5	24
1097302	7109812	646180	1900	UTM83-8	WHI11001093	1.35	3	0.05	3.2	0.05	0.2	2.3	33
119544	7109790	354028	1840	UTM83-9	WHI11000886	1.87	8	0.05	12.9	0.05	0.2	3.3	19
1097301	7109817	646175	1899	UTM83-8	WHI11001093	1.54	3	0.05	2.2	0.05	0.3	1.4	34
120112	7109846	353798	1861	UTM83-9	WHI11000383	1.79	4	0.1	14	0.05	0.4	14.7	49
119532	7109824	354109	1819	UTM83-9	WHI11000886	2.04	5	0.05	3.6	0.05	0.05	0.4	4
119542	7109836	353999	1849	UTM83-9	WHI11000886	1.65	1	0.05	0.25	0.05	0.05	0.9	0.5
119541	7109853	353963	1862	UTM83-9	WHI11000886	1.38	2	0.05	1.1	0.05	0.05	2	10
119540	7109868	353956	1866	UTM83-9	WHI11000886	1.93	1	0.05	1.5	0.05	0.05	1.2	12
119539	7109925	353968	1851	UTM83-9	WHI11000886	1.9	1	0.05	1.2	0.05	0.05	0.8	8
119533	7109918	354119	1833	UTM83-9	WHI11000886	1.88	6	0.05	1.5	0.05	0.05	2.2	5
119534	7109931	354127	1831	UTM83-9	WHI11000886	1.17	3	0.05	2.2	0.05	0.05	1	14
119538	7109954	353985	1847	UTM83-9	WHI11000886	1.97	1	0.05	1.2	0.05	0.05	2.2	18
119537	7109951	354049	1848	UTM83-9	WHI11000886	1.99	4	0.05	3	0.05	0.05	0.5	7
119535	7109947	354137	1831	UTM83-9	WHI11000886	1.4	3	0.05	2	0.05	0.05	2.4	12
119536	7109969	354147	1832	UTM83-9	WHI11000886	1.35	4	0.05	1.4	0.05	0.2	1.9	18
119550	7110312	354032	1714	UTM83-9	WHI11001093	1.47	4	0.05	47.1	0.05	0.8	6.3	40
119548	7110315	354075	1713	UTM83-9	WHI11001093	1.07	5	0.05	33.7	0.05	0.05	3.3	12
119549	7110318	354084	1708	UTM83-9	WHI11001093	1.02	3	0.05	4	0.05	0.2	2.7	17
120114	7110393	353796	1534	UTM83-9	WHI11000383	2.09	4	0.05	190.6	0.1	9.5	11.1	142
120115	7110394	353796	1534	UTM83-9	WHI11000383	2.45	292	0.05	280.5	0.1	0.5	8.3	13

Appendix C: Analytical certificates



Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: June 16, 2011
Report Date: July 04, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI11000240.1

CLIENT JOB INFORMATION

Project: SCARLETT
Shipment ID: 2011-01
P.O. Number: NA-11330
Number of Samples: 22

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 90 days Invoice for Storage

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: Simon Ridgway
database backup
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	21	Crush, split and pulverize 250 g rock to 200 mesh			WHI
3B01	22	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX1	22	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
7TD	1	4-acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: July 04, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

WHI11000240.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
118751	Rock	2.52	<2	0.3	19.9	34.4	47	0.2	9.6	4.1	105	3.00	5.3	<0.5	4.3	18	<0.1	<0.1	0.4	10	0.11
118752	Rock	1.94	<2	0.1	6.1	4.3	26	<0.1	4.3	2.0	231	0.74	4.9	0.7	1.3	265	0.6	0.5	<0.1	3	7.04
118753	Rock	1.72	<2	<0.1	7.2	9.5	21	<0.1	2.9	1.9	398	0.80	2.4	<0.5	1.0	901	0.1	<0.1	<0.1	4	16.44
120101	Rock	1.24	<2	<0.1	4.1	1.6	26	<0.1	5.2	1.9	261	0.65	<0.5	<0.5	0.3	2	<0.1	<0.1	<0.1	<2	0.03
120102	Rock	1.60	<2	0.4	20.5	28.0	36	0.2	6.7	2.4	47	2.84	5.1	<0.5	4.4	15	<0.1	<0.1	0.3	16	0.06
120103	Rock	1.70	<2	<0.1	4.0	1.8	25	<0.1	6.1	2.0	158	0.92	0.9	<0.5	0.3	9	<0.1	<0.1	<0.1	3	0.27
120104	Rock	2.75	<2	0.3	29.4	43.7	71	0.2	32.3	26.4	>10000	5.82	6.1	<0.5	5.9	48	<0.1	<0.1	0.4	6	0.09
120105	Rock	0.92	<2	0.2	21.7	16.1	107	<0.1	6.5	4.2	163	3.00	5.1	<0.5	7.0	1270	0.2	0.1	0.2	42	10.57
120106	Rock	2.01	<2	<0.1	0.3	1.0	1	<0.1	3.9	0.4	81	0.34	4.3	<0.5	0.7	1384	<0.1	<0.1	<0.1	<2	31.37
118601	Rock	1.10	<2	0.5	12.8	14.9	44	<0.1	9.1	2.8	203	3.13	2.3	<0.5	2.1	102	<0.1	<0.1	0.1	10	1.50
118602	Rock	1.18	<2	<0.1	4.3	3.3	19	<0.1	4.1	1.2	85	0.87	<0.5	<0.5	0.9	2	<0.1	<0.1	<0.1	2	0.02
118603	Rock	1.19	<2	0.1	15.7	10.4	65	<0.1	10.1	4.7	254	1.07	34.3	0.9	1.0	73	0.4	2.2	<0.1	10	4.18
118604	Rock	2.15	<2	0.4	2.8	4.0	11	<0.1	1.3	1.1	166	0.48	1887	<0.5	0.5	385	<0.1	1.3	<0.1	12	28.75
118605	Rock Pulp	0.14	1309	1407	>10000	8665	9969	89.2	273.3	32.1	835	6.08	456.7	1005	2.5	195	62.5	42.9	8.6	73	2.02
119151	Rock	1.44	<2	0.1	2.0	2.1	67	<0.1	0.5	0.9	747	0.53	13.5	1.9	0.2	47	<0.1	0.4	<0.1	<2	22.08
119152	Rock	0.58	<2	0.1	1.7	2.3	20	<0.1	1.7	1.0	548	0.60	6.4	<0.5	0.4	49	<0.1	0.2	<0.1	<2	11.50
119153	Rock	0.51	4	<0.1	9.2	15.9	81	<0.1	7.8	6.1	448	1.16	23.1	5.5	2.3	22	0.1	2.2	0.1	3	26.25
119154	Rock	1.61	<2	<0.1	1.4	3.2	56	<0.1	<0.1	1.1	972	0.70	6.0	0.9	0.3	67	0.2	0.3	<0.1	<2	19.47
119155	Rock	1.59	<2	<0.1	0.2	0.4	2	<0.1	<0.1	0.4	1056	0.78	6.0	<0.5	<0.1	46	<0.1	<0.1	<0.1	<2	23.35
119156	Rock	2.15	<2	0.1	2.9	5.3	32	<0.1	5.1	2.7	420	1.12	1.4	<0.5	1.1	4	<0.1	<0.1	<0.1	2	0.08
119157	Rock	0.69	<2	0.4	3.0	7.1	11	<0.1	7.4	1.9	139	1.05	13.3	<0.5	0.3	3	<0.1	0.1	<0.1	3	0.09
119158	Rock	1.38	<2	0.1	1.8	1.6	9	<0.1	3.9	1.0	67	0.81	2.0	<0.5	0.2	3	<0.1	<0.1	<0.1	<2	<0.01



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: July 04, 2011

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

WHI11000240.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	7TD	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.001	
118751	Rock	0.011	6	10	0.12	81	<0.001	<20	0.59	0.007	0.23	<0.1	0.05	1.9	0.1	0.11	2	<0.5	<0.2	
118752	Rock	0.054	5	4	3.73	38	<0.001	<20	0.13	0.004	0.06	<0.1	0.29	1.2	<0.1	<0.05	<1	<0.5	<0.2	
118753	Rock	0.029	6	9	1.48	37	<0.001	<20	0.14	0.005	0.04	<0.1	0.11	1.2	<0.1	<0.05	<1	0.5	<0.2	
120101	Rock	0.001	<1	1	0.03	23	<0.001	<20	0.13	0.004	0.01	<0.1	<0.01	0.7	<0.1	<0.05	<1	<0.5	<0.2	
120102	Rock	0.044	5	18	0.30	161	0.002	<20	0.92	0.007	0.24	<0.1	0.05	3.1	<0.1	0.14	3	<0.5	<0.2	
120103	Rock	0.002	<1	2	0.11	56	<0.001	<20	0.26	0.003	0.01	<0.1	<0.01	0.8	<0.1	<0.05	<1	<0.5	<0.2	
120104	Rock	0.064	2	15	0.24	211	0.001	<20	1.19	0.006	0.19	<0.1	0.05	4.8	0.2	0.05	3	0.6	<0.2	
120105	Rock	4.629	101	30	0.22	258	0.046	39	2.33	0.084	0.80	0.3	0.02	28.1	<0.1	0.87	6	1.3	<0.2	
120106	Rock	0.109	3	2	0.24	29	0.001	<20	0.06	0.020	0.03	<0.1	0.04	0.6	<0.1	<0.05	<1	<0.5	<0.2	
118601	Rock	0.463	4	10	0.11	663	0.005	<20	0.58	0.011	0.13	<0.1	0.02	1.6	<0.1	0.27	2	<0.5	<0.2	
118602	Rock	0.007	2	2	0.07	22	<0.001	<20	0.24	0.003	0.04	<0.1	<0.01	0.7	<0.1	<0.05	<1	<0.5	<0.2	
118603	Rock	0.006	2	15	0.10	89	0.001	<20	0.16	<0.001	0.04	<0.1	1.32	2.3	<0.1	<0.05	<1	<0.5	<0.2	
118604	Rock	0.002	1	7	1.37	21	<0.001	<20	0.07	0.005	0.02	<0.1	3.47	1.0	0.3	<0.05	<1	1.4	<0.2	
118605	Rock Pulp	0.118	13	76	1.52	40	0.101	<20	1.63	0.090	0.37	14.9	2.77	5.6	2.4	3.77	7	10.3	1.3	2.447
119151	Rock	0.027	1	1	8.27	7	<0.001	<20	0.03	0.009	<0.01	<0.1	0.04	0.5	<0.1	<0.05	<1	<0.5	<0.2	
119152	Rock	0.069	<1	3	5.83	6	0.001	<20	0.04	0.007	0.01	<0.1	0.06	0.4	<0.1	<0.05	<1	<0.5	<0.2	
119153	Rock	0.043	3	6	3.65	14	0.003	<20	0.17	0.005	0.02	<0.1	0.08	2.2	<0.1	<0.05	<1	<0.5	<0.2	
119154	Rock	0.054	2	2	11.51	4	<0.001	<20	0.04	0.011	0.01	<0.1	0.37	0.6	<0.1	<0.05	<1	<0.5	<0.2	
119155	Rock	0.015	<1	<1	9.63	6	<0.001	<20	0.01	0.008	<0.01	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2	
119156	Rock	0.004	1	5	0.03	26	<0.001	<20	0.15	0.001	0.05	<0.1	0.04	2.5	<0.1	<0.05	<1	<0.5	<0.2	
119157	Rock	0.002	<1	3	0.05	10	<0.001	<20	0.07	0.001	0.02	<0.1	0.04	0.8	<0.1	<0.05	<1	<0.5	<0.2	
119158	Rock	0.003	<1	3	0.02	7	<0.001	<20	0.05	0.002	0.02	<0.1	<0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2	



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: July 04, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

WHI11000240.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
120106	Rock	2.01	<2	<0.1	0.3	1.0	1	<0.1	3.9	0.4	81	0.34	4.3	<0.5	0.7	1384	<0.1	<0.1	<0.1	<2	31.37
REP 120106	QC			<0.1	0.3	1.2	2	<0.1	4.3	0.2	79	0.31	4.6	<0.5	0.7	1374	<0.1	<0.1	<0.1	<2	30.85
Core Reject Duplicates																					
120101	Rock	1.24	<2	<0.1	4.1	1.6	26	<0.1	5.2	1.9	261	0.65	<0.5	<0.5	0.3	2	<0.1	<0.1	<0.1	<2	0.03
DUP 120101	QC		<2	<0.1	3.8	1.4	23	<0.1	5.2	1.9	246	0.62	<0.5	<0.5	0.3	4	<0.1	<0.1	<0.1	<2	0.01
Reference Materials																					
STD DS8	Standard			14.8	114.3	126.0	329	1.6	39.8	8.1	632	2.58	25.9	103.6	6.7	62	2.0	3.7	5.8	40	0.70
STD OREAS131B	Standard																				
STD OREAS45CA	Standard			0.8	505.2	21.4	71	0.3	258.3	95.3	965	16.13	3.5	38.6	7.4	12	0.1	<0.1	0.2	225	0.43
STD OXC88	Standard		189																		
STD OXH82	Standard		1256																		
STD R4T	Standard																				
STD SU-1B	Standard																				
STD OXC88 Expected			203																		
STD OXH82 Expected			1278																		
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7	
STD OREAS45CA Expected			1	494	20	60	0.275	240	92	943	15.69	3.8	43	7	15	0.1	0.13	0.19	215	0.4265	
STD R4T Expected																					
STD OREAS131B Expected																					
STD SU-1B Expected																					
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank																				
Prep Wash																					
G1	Prep Blank		<2	0.1	3.2	4.7	55	<0.1	4.9	4.8	597	1.98	<0.5	<0.5	5.8	61	<0.1	<0.1	0.1	36	0.54
G1	Prep Blank		<2	0.2	3.2	5.5	59	<0.1	3.4	5.0	645	2.20	<0.5	1.5	5.8	64	<0.1	<0.1	<0.1	40	0.56



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: SCARLETT
Report Date: July 04, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

WHI11000240.1

Method		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	7TD	
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.001
Pulp Duplicates																				
120106	Rock	0.109	3	2	0.24	29	0.001	<20	0.06	0.020	0.03	<0.1	0.04	0.6	<0.1	<0.05	<1	<0.5	<0.2	
REP 120106	QC	0.103	3	2	0.23	29	0.001	<20	0.05	0.020	0.03	<0.1	0.03	0.6	<0.1	<0.05	<1	<0.5	<0.2	
Core Reject Duplicates																				
120101	Rock	0.001	<1	1	0.03	23	<0.001	<20	0.13	0.004	0.01	<0.1	<0.01	0.7	<0.1	<0.05	<1	<0.5	<0.2	
DUP 120101	QC	0.002	<1	1	0.03	21	<0.001	<20	0.13	0.004	0.01	<0.1	<0.01	0.7	<0.1	<0.05	<1	<0.5	<0.2	
Reference Materials																				
STD DS8	Standard	0.072	14	121	0.64	294	0.118	<20	0.94	0.089	0.39	2.9	0.20	2.2	5.4	0.16	5	5.9	5.3	
STD OREAS131B	Standard																			0.022
STD OREAS45CA	Standard	0.037	15	774	0.15	157	0.152	<20	3.82	0.005	0.08	<0.1	0.03	36.3	<0.1	<0.05	20	<0.5	<0.2	
STD OXC88	Standard																			
STD OXH82	Standard																			
STD R4T	Standard																			0.517
STD SU-1B	Standard																			1.208
STD OXC88 Expected																				
STD OXH82 Expected																				
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5	
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	39.7	0.07	0.021	18.4	0.5		
STD R4T Expected																				0.502
STD OREAS131B Expected																				0.0216
STD SU-1B Expected																				1.185
BLK	Blank																			
BLK	Blank																			
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank																			<0.001
Prep Wash																				
G1	Prep Blank	0.072	11	7	0.61	207	0.146	<20	1.01	0.076	0.53	0.1	<0.01	2.0	0.4	<0.05	5	<0.5	<0.2	
G1	Prep Blank	0.081	12	7	0.62	208	0.157	<20	1.09	0.092	0.55	<0.1	<0.01	2.1	0.4	<0.05	6	<0.5	<0.2	



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: June 16, 2011
Report Date: July 06, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS

WHI11000241.1

CLIENT JOB INFORMATION

Project: SCARLETT
Shipment ID: 2011-02
P.O. Number: NA-10337
Number of Samples: 278

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 90 days Invoice for Storage

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: database backup
Simon Ridgway
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, 1F05, and RJSV.

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: SCARLETT
 Report Date: July 06, 2011

Page: 2 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
119401	Soil			0.55	30.11	52.24	404.8	92	40.7	14.5	1752	3.19	80.3	1.2	6.0	2.5	39.0	0.79	8.03	0.28	19	3.62	0.098
119402	Soil			0.68	20.42	21.53	75.4	141	23.5	7.6	360	2.32	5.9	2.8	1.4	0.9	116.2	0.21	0.37	0.24	12	1.98	0.098
119403	Soil			0.92	29.91	28.40	101.0	74	29.0	14.2	620	3.40	6.6	0.5	1.7	1.6	11.0	0.19	0.42	0.44	21	0.08	0.079
119404	Soil			0.88	32.42	26.39	89.2	227	30.6	13.2	466	3.73	16.4	0.9	1.4	3.6	32.2	0.14	0.42	0.28	20	0.34	0.063
119405	Soil			0.94	32.30	25.33	96.0	93	27.4	11.4	455	4.20	7.5	0.6	1.0	0.6	16.7	0.21	0.45	0.36	26	0.17	0.088
119406	Soil			0.93	31.14	18.07	85.3	51	31.3	12.8	408	2.99	17.9	0.8	2.6	3.4	13.3	0.19	0.80	0.26	25	0.13	0.052
119407	Soil			1.04	34.80	24.27	89.4	176	33.6	13.9	614	3.27	15.5	1.2	9.3	2.6	62.9	0.27	1.70	0.30	21	0.85	0.078
119408	Soil			3.62	47.75	21.02	68.3	296	29.4	12.4	341	2.63	29.7	1.1	19.6	2.2	114.0	0.78	5.04	0.25	13	3.98	0.078
119409	Soil			3.30	40.42	17.84	64.2	232	25.3	12.7	288	1.76	29.1	1.5	30.7	3.4	254.7	0.39	4.11	0.26	8	7.80	0.064
119410	Soil			4.35	41.33	21.48	69.6	266	29.4	13.2	322	2.10	36.4	1.1	27.6	3.0	150.8	0.56	3.04	0.26	13	5.56	0.071
119411	Soil			1.57	33.10	17.35	79.3	141	29.7	9.1	421	3.16	496.7	1.5	6.2	0.8	24.5	0.97	23.43	0.18	23	0.74	0.037
119412	Soil			0.52	37.33	19.98	79.6	77	26.4	12.7	218	2.66	18.6	1.2	1.5	1.5	72.4	0.11	0.70	0.31	13	1.02	0.057
119413	Soil			1.03	31.17	17.01	77.3	333	27.7	9.8	320	2.41	74.1	2.0	7.3	1.9	36.1	0.39	2.99	0.17	17	1.18	0.044
119414	Soil			0.37	26.90	10.08	104.3	48	31.6	11.4	321	3.33	3.6	0.9	0.2	6.5	14.0	0.25	0.29	0.16	22	0.22	0.047
119415	Soil			0.86	36.68	18.06	119.5	212	31.9	11.9	466	3.01	30.4	2.4	3.2	2.0	37.6	0.38	1.31	0.22	29	1.05	0.086
119416	Soil			0.44	45.04	18.72	121.7	70	45.1	16.4	432	3.62	10.5	0.9	1.0	3.5	28.1	0.20	0.69	0.37	14	0.42	0.050
119417	Soil			1.28	24.42	31.58	80.3	73	19.6	15.5	1460	5.36	9.0	0.6	1.0	2.9	8.6	0.11	0.65	0.40	43	0.04	0.058
119418	Soil			0.79	40.22	26.89	92.0	37	31.8	18.3	675	4.18	19.2	0.8	0.7	2.0	13.2	0.10	0.46	0.37	28	0.02	0.062
119419	Soil			1.06	30.65	20.81	85.9	123	30.6	14.6	608	3.66	107.6	2.6	2.0	2.7	33.0	0.39	1.25	0.26	43	0.39	0.033
119420	Soil			0.60	37.75	25.67	87.8	35	33.4	17.0	590	4.37	18.1	0.6	0.2	2.9	20.4	0.03	0.32	0.42	25	0.10	0.020
118701	Soil			0.77	34.69	38.23	87.4	103	23.4	11.9	375	4.16	9.4	0.6	0.8	2.8	10.6	0.09	0.34	0.34	18	0.03	0.049
118702	Soil			1.22	35.12	36.56	92.6	198	23.3	9.7	305	4.23	8.6	0.7	0.8	2.4	18.8	0.10	0.51	0.38	25	0.05	0.062
118703	Soil			0.78	37.04	52.62	304.6	249	185.0	110.9	8879	8.61	7.1	1.8	0.7	6.2	12.9	0.68	0.31	0.47	22	0.04	0.079
118704	Soil			0.83	55.48	58.96	63.3	258	13.7	6.4	212	9.89	17.4	0.4	1.3	6.9	4.0	0.05	0.43	0.58	25	<0.01	0.082
118705	Soil			0.59	75.52	72.91	79.9	354	21.0	9.3	353	10.53	14.5	0.8	0.6	11.1	16.8	0.12	0.43	0.46	19	0.08	0.066
118706	Soil			0.58	42.99	43.12	121.0	238	42.4	18.2	669	5.21	7.8	0.9	0.2	4.7	31.1	0.16	0.27	0.36	12	0.27	0.052
118707	Soil			0.25	8.83	19.28	51.5	94	10.1	3.4	1282	2.11	12.5	1.9	6.1	0.8	47.6	0.21	1.41	0.12	6	14.33	0.101
118708	Soil			0.40	15.24	24.61	59.5	108	16.0	7.0	803	2.17	12.3	0.7	5.1	1.3	39.6	0.15	1.54	0.18	12	9.93	0.082
118709	Soil			0.54	30.34	19.65	75.3	79	31.3	12.8	538	3.02	11.8	1.0	1.1	3.9	15.1	0.18	0.51	0.26	17	0.14	0.044
118710	Soil			6.11	49.19	25.81	96.3	332	36.4	15.9	409	2.65	50.9	1.3	7.0	3.6	123.3	0.74	2.28	0.35	24	4.75	0.062



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: July 06, 2011

Page: 2 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
119401	Soil	9.8	18.5	1.99	182.4	0.005	<1	1.16	0.006	0.09	0.5	3.2	0.24	0.04	731	0.4	0.04	3.5	2.07	<0.1	0.10
119402	Soil	11.2	9.2	0.09	231.7	0.002	2	0.64	0.004	0.06	<0.1	1.9	0.10	0.13	175	0.7	0.06	1.5	0.81	<0.1	0.05
119403	Soil	3.8	24.4	0.26	61.4	0.003	1	1.30	0.003	0.08	<0.1	2.6	0.11	0.05	24	0.3	0.08	3.6	3.29	<0.1	0.06
119404	Soil	7.3	19.3	0.24	114.7	0.003	<1	0.95	0.002	0.07	<0.1	6.3	0.09	0.03	39	0.4	0.06	2.7	2.50	<0.1	0.06
119405	Soil	4.6	26.1	0.33	79.6	0.005	1	1.37	0.002	0.08	<0.1	1.5	0.08	0.06	24	0.3	0.10	4.1	2.19	<0.1	<0.02
119406	Soil	10.9	18.3	0.31	70.0	0.015	2	0.94	0.003	0.05	<0.1	3.7	0.08	<0.02	20	0.3	0.06	2.8	1.69	<0.1	<0.02
119407	Soil	14.1	17.8	0.35	117.8	0.004	1	1.11	0.004	0.07	<0.1	5.3	0.08	0.05	187	0.5	0.08	2.8	1.23	<0.1	0.09
119408	Soil	8.5	8.9	1.48	57.0	0.003	<1	0.43	0.004	0.07	<0.1	4.6	0.09	0.03	144	0.9	0.07	1.0	0.68	<0.1	0.04
119409	Soil	4.7	4.1	3.33	39.6	0.001	<1	0.21	0.005	0.08	<0.1	4.6	0.29	0.02	163	0.9	0.09	0.5	1.43	<0.1	0.04
119410	Soil	5.8	8.3	2.89	45.5	0.001	3	0.24	0.004	0.09	<0.1	5.0	0.20	0.02	254	1.0	0.07	0.7	0.57	<0.1	0.05
119411	Soil	9.3	16.9	0.15	55.6	0.002	2	0.38	0.001	0.06	<0.1	3.4	4.07	0.03	14621	0.7	0.06	1.2	0.37	<0.1	<0.02
119412	Soil	9.9	12.1	0.11	72.6	0.001	3	0.74	0.002	0.07	<0.1	4.6	0.11	0.05	211	0.5	0.08	1.7	0.78	<0.1	0.05
119413	Soil	11.3	13.4	0.36	47.0	0.001	<1	0.32	0.002	0.06	<0.1	4.1	0.32	0.02	1713	0.8	0.02	1.1	0.50	<0.1	0.05
119414	Soil	33.3	29.6	0.68	90.8	0.003	1	1.13	<0.001	0.10	<0.1	5.3	0.08	<0.02	135	0.6	<0.02	3.3	1.34	<0.1	0.03
119415	Soil	20.1	25.4	0.36	66.6	0.004	4	0.61	0.003	0.08	<0.1	6.0	0.13	0.06	392	1.4	0.02	1.9	0.84	<0.1	0.06
119416	Soil	11.6	18.4	0.31	84.5	0.002	2	0.76	0.002	0.07	<0.1	8.5	0.09	0.03	270	0.4	0.06	1.8	2.04	<0.1	0.05
119417	Soil	8.4	27.7	0.31	58.3	0.010	2	1.93	<0.001	0.09	<0.1	2.7	0.13	0.02	48	0.5	0.11	6.9	13.83	<0.1	0.02
119418	Soil	5.8	23.9	0.33	62.6	0.002	5	1.63	<0.001	0.11	<0.1	3.5	0.11	0.02	273	0.4	0.09	4.0	4.25	<0.1	0.05
119419	Soil	10.3	36.6	0.33	115.7	0.003	5	1.32	0.001	0.09	<0.1	4.9	0.16	0.02	320	0.9	0.07	3.4	1.97	<0.1	0.07
119420	Soil	6.7	18.2	0.31	62.3	0.002	<1	1.16	<0.001	0.06	<0.1	4.1	0.06	<0.02	124	0.2	0.14	3.6	2.98	<0.1	<0.02
118701	Soil	4.6	19.3	0.18	73.9	0.002	3	1.16	0.004	0.09	<0.1	4.0	0.14	0.03	18	0.4	0.06	3.0	2.86	<0.1	<0.02
118702	Soil	6.0	25.1	0.21	98.1	0.005	3	1.28	0.008	0.10	<0.1	3.4	0.15	0.07	35	0.5	0.04	3.7	2.70	<0.1	<0.02
118703	Soil	4.2	26.5	0.13	127.9	0.002	<1	2.54	0.004	0.10	<0.1	7.3	0.35	0.12	29	0.8	0.06	4.5	4.07	<0.1	0.06
118704	Soil	5.0	30.0	0.06	34.1	0.002	<1	0.89	0.001	0.10	<0.1	2.9	0.40	0.06	27	0.9	0.03	5.3	4.24	<0.1	0.05
118705	Soil	5.1	33.9	0.09	95.3	0.001	2	1.34	0.002	0.09	<0.1	6.6	0.42	0.06	23	0.7	0.08	3.9	3.06	<0.1	0.07
118706	Soil	8.0	17.3	0.22	133.4	0.001	3	1.20	0.002	0.10	<0.1	5.2	0.23	0.03	27	0.3	0.04	2.2	2.63	<0.1	0.03
118707	Soil	3.3	5.8	7.41	42.1	0.003	2	0.27	0.007	0.03	<0.1	1.1	0.07	<0.02	38	0.4	0.10	0.6	0.32	<0.1	0.05
118708	Soil	4.5	9.2	5.51	65.7	0.005	3	0.57	0.006	0.06	<0.1	2.0	0.09	<0.02	169	0.3	0.04	1.3	0.52	<0.1	0.03
118709	Soil	11.0	14.6	0.24	83.1	0.004	3	0.86	0.002	0.05	<0.1	5.8	0.06	<0.02	57	<0.1	0.07	2.1	1.40	<0.1	<0.02
118710	Soil	5.3	9.7	2.70	48.3	0.001	3	0.29	0.004	0.09	<0.1	6.8	0.25	<0.02	499	1.2	0.07	1.0	0.81	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: July 06, 2011

Page: 2 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
119401	Soil	0.19	6.4	0.5	<0.05	2.9	10.81	23.2	0.03	<1	0.8	16.6	32	3
119402	Soil	0.24	7.4	0.4	<0.05	0.7	12.95	26.6	0.03	<1	0.9	4.4	13	<2
119403	Soil	0.17	11.2	1.4	<0.05	1.5	4.52	8.9	0.05	<1	0.7	32.2	<10	<2
119404	Soil	0.13	7.5	1.2	<0.05	1.9	18.51	18.5	0.04	<1	1.0	24.4	<10	<2
119405	Soil	0.19	10.4	1.5	<0.05	0.1	5.98	17.8	0.05	<1	0.8	29.6	13	<2
119406	Soil	0.28	5.8	0.8	<0.05	0.5	8.28	23.2	<0.02	<1	0.8	17.3	<10	<2
119407	Soil	0.31	6.1	0.6	<0.05	2.3	19.94	34.4	0.03	<1	1.0	21.1	<10	<2
119408	Soil	0.09	3.5	0.9	<0.05	1.0	14.18	20.7	0.03	<1	0.9	6.3	<10	<2
119409	Soil	0.03	3.5	0.5	<0.05	2.2	11.52	13.8	0.02	<1	0.6	2.0	<10	<2
119410	Soil	0.03	4.1	1.2	<0.05	1.2	12.30	15.6	0.04	2	0.6	2.0	<10	<2
119411	Soil	0.05	4.2	0.8	<0.05	0.9	15.13	19.3	0.02	<1	1.2	3.8	<10	<2
119412	Soil	0.13	5.5	0.8	<0.05	1.2	18.02	19.8	0.04	<1	1.2	5.6	11	<2
119413	Soil	0.06	3.8	0.6	<0.05	1.3	12.06	22.4	0.03	<1	0.7	3.4	<10	<2
119414	Soil	0.13	9.1	0.5	<0.05	1.1	10.66	65.8	0.03	<1	1.0	19.9	<10	<2
119415	Soil	0.23	6.9	0.7	<0.05	1.6	19.72	37.3	0.04	<1	1.0	6.5	<10	<2
119416	Soil	0.12	6.8	0.6	<0.05	1.8	19.27	22.4	0.04	<1	1.3	10.8	11	<2
119417	Soil	0.53	12.3	0.8	<0.05	0.9	3.17	17.5	0.03	<1	0.8	27.8	<10	<2
119418	Soil	0.14	12.8	1.1	<0.05	1.1	5.82	16.1	0.03	<1	1.0	30.9	<10	<2
119419	Soil	0.22	8.5	0.7	<0.05	1.6	10.52	27.4	0.04	<1	1.1	20.6	<10	<2
119420	Soil	0.11	7.3	0.5	<0.05	0.7	5.38	16.9	0.03	<1	0.9	24.9	<10	<2
118701	Soil	0.08	9.7	1.0	<0.05	0.6	4.72	10.5	0.04	<1	0.9	17.9	<10	<2
118702	Soil	0.21	11.5	2.2	<0.05	0.3	4.37	13.5	0.04	<1	0.7	17.6	<10	<2
118703	Soil	0.09	11.8	1.1	<0.05	2.4	13.09	22.2	0.06	<1	2.9	72.3	22	<2
118704	Soil	0.07	9.3	1.1	<0.05	4.3	3.41	12.4	0.07	<1	0.6	4.1	10	<2
118705	Soil	0.04	7.0	0.5	<0.05	4.1	5.26	14.4	0.11	<1	0.6	9.6	11	2
118706	Soil	0.05	7.6	1.2	<0.05	1.4	13.33	24.1	0.04	<1	1.3	22.3	10	<2
118707	Soil	0.06	2.2	0.7	<0.05	1.3	6.94	6.9	0.04	1	0.3	3.5	<10	<2
118708	Soil	0.13	3.7	1.0	<0.05	1.2	6.08	10.0	0.03	<1	0.5	7.2	<10	<2
118709	Soil	0.10	5.1	0.5	<0.05	0.5	15.26	33.8	0.03	<1	0.8	19.0	<10	<2
118710	Soil	0.05	3.9	1.1	<0.05	2.3	13.80	14.8	0.03	<1	0.7	3.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 3 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
118711	Soil			1.24	38.40	19.46	100.0	307	29.9	10.8	263	2.60	24.7	4.4	7.7	1.6	149.1	0.47	1.60	0.22	29	2.36	0.081
118712	Soil			0.67	36.64	18.13	107.7	124	33.4	12.2	231	2.89	38.3	1.2	7.6	2.2	37.5	0.23	2.19	0.23	17	0.74	0.059
118713	Soil			0.78	46.15	28.16	103.6	155	42.1	19.2	587	4.03	15.7	0.9	0.9	3.1	33.9	0.08	0.43	0.39	22	0.24	0.048
118714	Soil			1.14	37.13	18.49	93.8	135	35.0	14.2	396	2.65	26.1	1.5	4.7	3.5	96.0	0.21	3.83	0.24	21	2.47	0.062
118715	Soil			0.69	38.17	19.38	93.4	147	32.6	14.8	500	3.21	17.2	1.4	2.0	3.0	110.2	0.29	0.49	0.27	21	1.94	0.067
118716	Soil			0.66	30.86	19.81	75.3	113	26.8	13.3	502	2.93	18.4	1.3	3.3	4.0	245.7	0.20	0.43	0.29	16	4.86	0.063
118717	Soil			0.70	29.60	18.96	76.1	133	27.7	13.4	540	2.79	16.3	1.5	3.0	4.2	292.7	0.19	0.50	0.28	18	5.90	0.069
118718	Soil			0.91	37.59	24.07	90.4	115	29.2	13.6	560	2.99	19.4	1.4	1.9	3.7	296.5	0.22	0.62	0.31	17	6.04	0.066
118719	Soil			0.64	36.79	26.82	95.6	118	31.3	16.3	1106	3.37	12.3	0.7	1.6	3.9	196.4	0.12	0.36	0.33	18	3.03	0.061
118720	Soil			0.50	34.55	22.17	83.9	110	30.2	14.7	576	3.22	8.5	0.7	0.8	4.5	217.9	0.10	0.28	0.31	16	4.37	0.053
118721	Soil			0.49	28.83	18.37	72.1	121	23.7	11.1	509	2.78	12.2	1.4	0.7	2.6	282.7	0.16	0.45	0.27	15	5.43	0.063
119101	Soil			1.11	53.84	79.79	82.7	356	28.5	13.2	826	9.65	20.4	0.7	0.7	11.9	203.8	0.08	0.71	0.68	16	0.20	0.316
119102	Soil			0.60	33.38	43.57	178.2	243	42.6	16.4	637	4.58	6.4	0.6	0.5	6.5	137.0	0.15	0.30	0.48	7	1.94	0.035
119103	Soil			0.98	34.10	44.70	140.0	293	54.7	18.0	854	4.74	9.7	0.9	0.6	7.0	40.3	0.14	0.28	0.42	11	0.32	0.027
119104	Soil			0.91	25.29	72.90	1123	326	26.8	6.9	650	2.70	27.3	5.2	3.8	6.8	27.1	2.07	5.50	0.24	14	3.96	0.543
119105	Soil			0.15	5.81	19.73	24.2	26	8.5	2.1	2247	2.17	30.8	1.1	1.2	0.6	72.9	0.02	2.61	0.05	2	18.48	0.087
119106	Soil			0.06	1.05	3.57	8.5	23	3.0	0.4	1743	1.41	12.2	1.5	0.6	0.2	21.4	0.05	2.15	0.03	<2	15.08	0.069
119107	Soil			0.12	34.12	54.93	49.7	78	19.0	9.8	832	3.18	30.4	5.6	10.5	5.7	31.4	0.05	4.67	0.31	10	12.74	0.299
119108	Soil			0.16	5.31	11.65	167.4	41	5.7	2.2	552	1.26	12.4	0.8	11.9	0.6	23.7	0.34	1.06	0.04	2	10.67	0.080
119109	Soil			0.12	1.64	5.38	70.5	20	3.4	1.2	695	0.62	2.8	0.5	0.9	0.2	42.6	0.24	0.50	<0.02	<2	12.08	0.051
119110	Soil			0.14	7.90	20.90	224.5	63	8.8	4.8	906	1.13	9.5	0.5	3.5	0.6	41.3	0.30	1.23	0.07	4	9.53	0.066
119111	Soil			0.67	14.20	14.20	74.6	120	18.4	7.0	933	2.45	11.4	0.5	2.5	1.5	26.4	0.28	0.97	0.16	27	5.31	0.078
119112	Soil			0.84	19.11	14.34	50.4	126	28.5	13.0	974	3.30	21.1	2.1	0.7	2.9	18.5	0.30	0.92	0.26	29	0.65	0.048
119113	Soil			0.74	31.99	19.11	64.6	107	32.5	14.2	878	3.26	11.2	2.1	0.5	1.8	31.7	0.30	0.98	0.32	33	0.93	0.080
119114	Soil			1.06	18.17	17.73	84.3	31	21.5	10.2	336	3.36	10.7	0.7	1.8	1.7	9.2	0.16	0.59	0.27	42	0.07	0.053
119115	Soil			1.36	19.64	16.49	59.4	35	15.1	7.2	379	3.19	6.6	0.6	0.4	1.1	7.9	0.09	0.62	0.33	48	0.05	0.055
119116	Soil			0.77	20.12	17.04	88.4	75	11.5	6.5	474	5.13	5.1	0.5	<0.2	1.0	4.5	0.24	0.36	0.35	42	0.03	0.084
119117	Soil			0.73	32.69	21.53	93.3	64	28.7	20.8	2230	4.38	3.1	0.7	0.4	3.3	6.5	0.19	0.31	0.32	32	0.05	0.092
119118	Soil			1.07	20.79	19.80	102.5	54	20.8	12.2	788	3.94	7.0	0.6	1.1	2.0	8.1	0.21	0.55	0.31	43	0.05	0.060
119119	Soil			0.55	38.11	28.11	108.4	45	26.4	17.6	1160	4.53	6.0	0.5	<0.2	2.9	7.7	0.15	0.23	0.51	33	0.05	0.053



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: July 06, 2011

Page: 3 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
118711	Soil	16.6	23.4	0.84	110.6	0.004	2	0.89	0.005	0.10	<0.1	3.1	0.19	0.05	130	1.0	<0.02	2.6	1.62	<0.1	0.06
118712	Soil	16.6	18.9	0.34	85.6	0.003	<1	0.52	0.003	0.08	<0.1	6.1	0.09	0.03	241	0.8	0.06	1.4	1.02	<0.1	0.06
118713	Soil	9.3	21.7	0.28	81.9	0.003	<1	0.84	0.002	0.10	<0.1	5.4	0.12	<0.02	83	0.5	0.08	2.8	5.04	<0.1	0.04
118714	Soil	11.6	21.6	1.09	77.1	0.006	1	0.70	0.004	0.08	<0.1	5.0	0.15	0.02	592	0.5	0.02	2.3	2.17	<0.1	0.05
118715	Soil	15.5	23.2	0.71	60.8	0.004	2	1.21	0.003	0.08	<0.1	4.8	0.09	0.03	185	0.4	0.05	3.4	1.16	<0.1	0.08
118716	Soil	10.7	15.9	0.75	63.2	0.004	3	1.02	0.004	0.08	<0.1	4.8	0.08	<0.02	308	0.3	0.04	2.6	1.40	<0.1	0.06
118717	Soil	11.7	18.4	1.11	74.1	0.006	2	1.03	0.005	0.06	<0.1	4.7	0.09	<0.02	493	0.3	0.05	2.5	1.49	<0.1	0.05
118718	Soil	10.2	20.8	1.16	63.1	0.004	2	1.09	0.004	0.07	<0.1	5.7	0.09	<0.02	330	0.3	0.03	2.9	1.79	<0.1	0.04
118719	Soil	6.2	21.7	0.60	106.9	0.003	5	1.49	0.003	0.12	<0.1	5.1	0.09	<0.02	88	0.4	0.06	4.3	2.79	<0.1	0.09
118720	Soil	5.2	22.2	0.80	75.8	0.002	4	1.58	0.004	0.14	<0.1	4.9	0.07	<0.02	69	0.3	<0.02	4.2	2.45	<0.1	0.14
118721	Soil	8.2	15.4	0.76	72.1	0.003	3	1.08	0.003	0.08	<0.1	4.5	0.06	0.03	200	0.4	0.04	2.8	1.53	<0.1	0.06
119101	Soil	10.3	27.7	0.09	229.2	0.002	1	0.90	0.018	0.13	<0.1	5.7	0.46	0.21	69	0.7	0.06	3.5	2.40	<0.1	0.03
119102	Soil	6.7	12.1	0.28	76.5	<0.001	2	0.68	0.002	0.08	<0.1	6.4	0.21	0.05	117	0.1	0.03	1.7	1.43	<0.1	0.11
119103	Soil	10.5	17.9	0.26	132.0	0.003	4	1.09	0.004	0.11	<0.1	7.9	0.19	0.04	105	0.6	0.03	2.9	2.96	<0.1	0.11
119104	Soil	16.8	14.1	1.63	36.1	0.002	7	0.69	0.005	0.18	<0.1	7.4	0.14	<0.02	3417	0.5	0.04	2.3	0.74	<0.1	0.04
119105	Soil	1.7	3.0	9.87	75.7	0.002	1	0.14	0.005	0.02	<0.1	0.7	1.69	<0.02	70	<0.1	0.03	0.4	0.32	<0.1	0.02
119106	Soil	1.1	1.8	8.84	52.7	0.002	<1	0.07	0.007	<0.01	<0.1	0.3	0.13	<0.02	69	<0.1	<0.02	0.2	0.02	<0.1	<0.02
119107	Soil	4.5	11.4	7.07	25.2	0.003	3	0.29	0.009	0.06	<0.1	2.1	0.11	<0.02	620	0.3	0.13	0.8	0.16	<0.1	0.07
119108	Soil	2.0	2.9	6.23	10.4	<0.001	<1	0.07	0.004	0.01	<0.1	0.6	0.04	<0.02	215	0.1	0.03	0.2	0.04	<0.1	<0.02
119109	Soil	1.3	2.2	7.06	17.1	0.001	<1	0.06	0.005	<0.01	<0.1	0.6	0.03	<0.02	59	<0.1	<0.02	0.1	0.04	<0.1	<0.02
119110	Soil	2.7	3.8	5.41	39.8	<0.001	2	0.13	0.006	0.03	<0.1	1.3	0.16	<0.02	379	0.2	0.04	0.4	0.13	<0.1	0.02
119111	Soil	9.9	15.9	3.42	78.6	0.013	3	1.08	0.008	0.05	0.1	2.8	0.07	<0.02	89	0.2	<0.02	2.3	0.53	<0.1	<0.02
119112	Soil	35.0	20.4	0.30	107.8	0.006	2	1.16	0.004	0.07	<0.1	6.8	0.08	0.03	48	0.2	0.04	2.8	1.02	<0.1	0.04
119113	Soil	22.0	23.3	0.38	137.5	0.005	3	1.60	0.003	0.09	<0.1	4.4	0.10	0.04	48	0.3	0.06	4.3	0.66	<0.1	0.05
119114	Soil	10.0	29.4	0.51	109.9	0.009	<1	1.98	0.003	0.06	<0.1	2.5	0.13	0.02	32	0.3	0.04	5.8	1.90	<0.1	0.04
119115	Soil	9.6	27.0	0.29	83.7	0.009	<1	1.73	0.003	0.06	0.1	2.1	0.12	0.03	36	0.2	<0.02	7.4	1.94	<0.1	<0.02
119116	Soil	4.7	30.7	0.21	47.6	0.008	<1	1.57	0.003	0.09	<0.1	2.4	0.08	0.05	31	<0.1	0.02	9.4	1.70	<0.1	<0.02
119117	Soil	3.7	37.8	0.43	228.9	0.006	<1	2.16	0.004	0.16	<0.1	4.1	0.14	0.05	36	0.2	0.04	7.2	3.85	<0.1	0.07
119118	Soil	8.3	31.4	0.39	105.1	0.011	1	1.86	0.003	0.09	<0.1	2.6	0.08	0.02	36	0.2	<0.02	6.6	1.89	<0.1	0.02
119119	Soil	5.8	37.5	0.39	118.4	0.002	<1	2.01	0.006	0.12	<0.1	4.2	0.10	<0.02	26	<0.1	<0.02	8.2	3.25	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 3 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
118711	Soil			0.19	6.9	0.5	<0.05	1.9	12.81	30.0	0.03	<1	0.9	17.3	14	<2
118712	Soil			0.09	5.7	0.9	<0.05	1.6	15.25	32.9	0.03	<1	0.6	6.1	<10	<2
118713	Soil			0.10	8.6	0.8	<0.05	1.1	13.29	20.3	0.04	<1	1.3	17.3	11	<2
118714	Soil			0.14	5.4	1.0	<0.05	1.8	9.80	24.1	0.02	<1	0.8	17.8	10	<2
118715	Soil			0.14	5.9	0.5	<0.05	2.4	12.67	30.6	0.03	<1	0.9	29.6	<10	<2
118716	Soil			0.10	4.2	1.0	<0.05	3.3	10.26	21.4	0.03	<1	1.1	25.3	<10	<2
118717	Soil			0.13	4.3	0.5	<0.05	2.8	10.75	23.2	0.03	<1	0.4	24.9	<10	<2
118718	Soil			0.14	5.2	1.6	<0.05	1.7	12.23	22.2	0.03	<1	0.7	28.7	<10	<2
118719	Soil			0.14	7.5	0.6	<0.05	3.9	9.77	14.4	0.03	<1	0.9	46.7	<10	<2
118720	Soil			0.05	6.7	1.1	<0.05	7.2	8.52	12.1	0.03	<1	0.9	47.4	<10	<2
118721	Soil			0.20	4.6	0.3	<0.05	2.5	10.88	18.3	0.03	<1	1.2	28.9	<10	<2
119101	Soil			0.03	8.8	1.6	<0.05	3.9	13.36	29.1	0.06	<1	0.6	7.8	11	<2
119102	Soil			<0.02	5.5	1.2	<0.05	6.5	15.97	22.5	0.04	<1	0.4	17.1	14	<2
119103	Soil			0.10	10.5	3.1	<0.05	5.5	22.86	33.1	0.03	1	1.4	30.9	10	<2
119104	Soil			0.04	7.0	1.0	<0.05	4.9	22.36	58.5	0.04	<1	0.5	2.4	73	<2
119105	Soil			0.04	1.4	1.3	<0.05	1.2	5.52	5.3	<0.02	<1	0.5	1.9	<10	<2
119106	Soil			0.04	0.2	0.2	<0.05	0.5	4.03	2.2	<0.02	<1	<0.1	0.5	<10	<2
119107	Soil			0.09	1.6	1.1	<0.05	5.3	13.11	9.5	<0.02	<1	0.2	1.2	<10	<2
119108	Soil			<0.02	0.4	0.7	<0.05	0.9	4.33	4.3	<0.02	<1	<0.1	0.5	14	<2
119109	Soil			<0.02	0.5	1.5	<0.05	0.2	3.00	2.8	<0.02	<1	0.1	0.7	<10	<2
119110	Soil			0.03	0.9	0.6	<0.05	0.6	4.48	5.0	<0.02	<1	0.2	1.1	18	<2
119111	Soil			0.34	5.3	0.8	<0.05	1.0	9.05	18.7	<0.02	<1	0.6	8.3	<10	<2
119112	Soil			0.34	7.5	0.6	<0.05	1.2	23.82	56.5	0.04	<1	1.7	7.9	<10	<2
119113	Soil			0.35	8.0	1.1	<0.05	1.2	13.17	41.6	0.03	<1	1.1	10.6	<10	<2
119114	Soil			0.65	12.5	0.8	<0.05	1.4	4.36	24.4	0.04	<1	0.7	29.4	<10	<2
119115	Soil			0.73	14.9	1.3	<0.05	0.7	3.79	19.4	0.02	<1	0.7	17.9	<10	<2
119116	Soil			0.75	14.9	1.0	<0.05	0.5	3.27	9.9	0.03	<1	0.5	9.8	<10	<2
119117	Soil			0.70	25.9	2.7	<0.05	2.7	4.69	12.3	0.03	<1	1.6	29.1	<10	<2
119118	Soil			0.84	15.0	1.0	<0.05	0.9	3.81	18.0	0.03	<1	1.0	30.8	<10	<2
119119	Soil			0.31	15.4	1.2	<0.05	1.8	5.75	15.7	0.06	<1	1.3	30.0	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 4 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
119120	Soil	0.55	41.86	27.86	84.4	24	35.0	27.0	1871	4.66	6.0	0.7	0.5	4.2	12.9	0.04	0.21	0.50	25	0.08	0.027
119121	Soil	0.62	26.33	25.41	104.1	53	22.0	13.4	649	3.74	4.3	0.5	0.4	4.4	5.5	0.08	0.23	0.48	34	0.02	0.042
119122	Soil	0.78	41.05	111.1	82.7	30	28.4	26.0	1601	4.06	6.4	0.9	0.6	4.1	12.8	0.02	0.41	0.47	22	0.08	0.039
119123	Soil	1.02	21.48	22.70	85.1	158	19.2	12.6	592	5.16	6.3	0.7	1.0	2.8	5.6	0.21	0.41	0.41	37	0.04	0.099
119124	Soil	0.87	23.17	17.72	111.7	44	20.8	9.4	234	4.01	11.8	0.5	1.0	3.7	8.6	0.15	0.59	0.50	34	0.04	0.035
119126	Soil	0.67	14.77	23.92	147.0	99	15.9	13.3	684	3.59	4.3	0.4	0.3	3.7	7.5	0.18	0.27	0.39	31	0.04	0.054
119127	Soil	0.60	41.21	7.33	98.9	125	19.9	9.7	305	4.53	1.4	0.6	1.1	2.9	6.2	0.19	0.16	0.52	21	0.05	0.072
119128	Soil	1.46	10.39	13.26	58.8	36	12.3	7.2	454	2.70	8.0	0.5	0.6	4.2	9.0	0.09	0.55	0.31	55	0.06	0.021
119129	Soil	0.88	8.14	12.53	52.3	107	7.1	6.8	552	2.22	4.5	0.4	<0.2	2.8	8.1	0.09	0.36	0.32	47	0.04	0.028
119130	Soil	0.85	21.65	28.91	88.5	223	24.1	9.9	376	4.11	5.7	0.6	0.3	3.4	6.4	0.14	0.33	0.38	31	0.03	0.071
119131	Soil	0.78	21.71	31.75	124.4	49	31.2	12.5	337	4.28	7.3	0.6	1.9	4.3	6.5	0.16	0.42	0.59	33	0.02	0.037
119132	Soil	0.53	21.83	16.39	137.3	71	20.6	10.0	570	4.72	5.6	0.4	1.2	3.0	6.4	0.18	0.27	0.39	41	0.03	0.058
119133	Soil	0.75	16.16	16.20	82.9	150	13.3	8.4	384	3.51	4.8	0.4	<0.2	3.6	5.2	0.09	0.31	0.35	44	0.02	0.035
119134	Soil	0.43	23.06	22.58	84.0	82	27.5	13.3	559	3.44	5.9	0.5	0.9	4.9	10.5	0.06	0.29	0.36	27	0.09	0.026
119135	Soil	0.71	22.80	36.47	81.6	144	28.7	12.9	386	5.37	9.7	1.0	<0.2	4.8	5.3	0.09	0.36	0.41	36	0.01	0.047
119136	Soil	0.51	17.32	18.17	65.7	31	22.5	9.3	252	3.73	5.7	0.4	<0.2	3.5	5.5	0.05	0.24	0.35	30	0.02	0.019
119137	Soil	1.06	15.11	19.08	109.7	310	23.9	9.9	351	4.33	10.7	0.6	0.6	4.3	7.5	0.12	0.50	0.37	49	0.04	0.039
119138	Soil	0.78	17.40	17.01	75.3	216	15.6	8.3	273	4.33	7.1	0.4	1.1	3.2	6.1	0.10	0.43	0.38	42	0.04	0.037
119139	Soil	0.79	17.79	19.83	73.9	110	22.7	10.2	276	3.57	7.5	0.6	0.9	4.0	9.1	0.08	0.40	0.32	38	0.06	0.026
119140	Soil	0.56	13.14	14.35	66.6	180	16.2	8.2	301	3.67	4.9	0.4	1.1	3.3	8.0	0.06	0.26	0.33	41	0.06	0.031
119141	Soil	0.52	16.95	13.93	64.6	146	15.0	7.6	231	3.60	6.0	0.4	<0.2	3.4	9.2	0.05	0.28	0.45	36	0.06	0.029
119142	Soil	0.85	19.93	22.58	73.8	72	22.5	10.0	455	3.47	4.2	0.6	<0.2	3.2	17.3	0.12	0.17	0.41	32	0.12	0.037
119143	Soil	0.33	3.23	13.71	43.3	41	5.4	1.2	2599	2.43	10.6	1.1	3.1	<0.1	47.7	0.17	0.81	0.08	3	18.87	0.114
119144	Soil	1.07	24.75	29.42	153.3	158	29.9	8.9	356	2.76	76.3	1.8	4.5	2.2	66.2	0.45	1.76	0.24	31	1.12	0.128
119145	Soil	0.44	7.08	16.94	115.1	82	7.9	2.8	1013	1.28	18.7	0.8	5.0	0.3	52.2	0.35	1.07	0.11	7	9.60	0.110
119146	Soil	0.56	12.81	30.94	304.2	113	16.5	5.5	872	1.90	44.1	1.2	7.3	1.3	41.2	0.79	1.91	0.14	14	9.96	0.107
119147	Soil	0.70	19.62	40.62	371.8	202	20.7	7.4	1273	2.83	48.8	1.3	11.7	0.9	53.1	0.83	2.22	0.22	24	4.35	0.180
119148	Soil	1.06	22.29	25.07	87.3	48	26.5	11.6	620	3.23	46.8	0.6	15.6	1.9	14.7	0.15	1.52	0.28	35	0.28	0.059
119149	Soil	0.94	18.62	17.24	494.4	185	22.7	7.9	844	2.70	20.9	0.8	7.5	1.4	23.5	0.88	1.79	0.20	36	4.37	0.119
119351	Soil	0.57	10.60	11.70	1213	102	12.4	4.8	938	1.55	9.4	0.6	4.9	0.8	23.8	2.63	1.45	0.11	18	7.45	0.076



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
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Page: 4 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
119120	Soil	4.9	31.4	0.49	312.4	0.003	<1	2.28	0.003	0.13	<0.1	6.7	0.14	<0.02	9	0.2	0.05	6.7	3.18	<0.1	0.03
119121	Soil	5.4	36.7	0.38	98.2	0.004	<1	1.92	0.001	0.18	<0.1	3.7	0.18	<0.02	36	0.2	<0.02	8.9	2.68	<0.1	0.09
119122	Soil	6.1	25.2	0.43	138.3	0.004	1	1.57	0.002	0.12	<0.1	6.1	0.14	<0.02	24	0.1	0.03	5.5	4.28	<0.1	0.04
119123	Soil	6.1	33.2	0.36	108.8	0.006	<1	2.43	0.001	0.13	<0.1	3.2	0.13	0.05	42	0.3	0.07	8.0	2.07	<0.1	0.08
119124	Soil	8.3	28.5	0.38	88.1	0.005	<1	1.62	0.002	0.09	<0.1	2.8	0.08	<0.02	45	0.2	0.04	6.5	1.72	<0.1	0.02
119126	Soil	5.8	26.6	0.30	178.1	0.003	1	1.71	0.001	0.20	<0.1	2.5	0.11	<0.02	21	<0.1	<0.02	7.3	1.29	<0.1	0.06
119127	Soil	4.5	27.0	0.30	131.4	0.007	<1	1.77	0.002	0.24	<0.1	3.0	0.17	0.03	36	<0.1	0.03	6.6	5.28	<0.1	0.09
119128	Soil	14.6	23.9	0.29	119.8	0.024	2	1.61	0.002	0.08	0.1	2.8	0.12	<0.02	21	0.1	<0.02	6.8	1.35	<0.1	0.05
119129	Soil	12.6	16.7	0.14	135.0	0.010	<1	1.28	0.002	0.08	<0.1	1.7	0.09	<0.02	19	<0.1	<0.02	6.1	1.04	<0.1	<0.02
119130	Soil	6.2	25.2	0.26	93.6	0.002	<1	1.82	0.001	0.11	<0.1	2.6	0.11	0.03	41	0.2	0.02	6.0	1.94	<0.1	0.07
119131	Soil	5.9	37.0	0.54	71.1	0.005	2	2.14	0.001	0.14	<0.1	3.4	0.12	<0.02	26	0.4	0.03	7.6	3.65	<0.1	0.06
119132	Soil	4.7	35.0	0.35	119.6	0.002	1	2.16	0.003	0.12	<0.1	3.1	0.10	<0.02	20	0.4	<0.02	8.6	2.10	<0.1	0.03
119133	Soil	7.3	24.3	0.25	136.2	0.003	1	2.07	<0.001	0.15	<0.1	2.5	0.14	<0.02	18	0.3	0.04	8.0	1.01	<0.1	0.03
119134	Soil	9.0	30.1	0.49	130.9	0.007	2	1.72	0.002	0.11	<0.1	3.7	0.09	<0.02	16	0.3	<0.02	6.0	1.40	<0.1	0.06
119135	Soil	5.0	37.8	0.48	73.8	0.004	2	2.48	<0.001	0.10	<0.1	3.6	0.11	<0.02	25	0.5	0.04	6.6	2.03	<0.1	0.07
119136	Soil	5.7	28.8	0.42	113.8	0.003	2	1.92	0.001	0.09	<0.1	2.8	0.12	<0.02	13	0.2	0.04	6.6	1.77	<0.1	0.04
119137	Soil	9.5	30.4	0.41	106.2	0.009	2	2.37	0.002	0.09	0.1	3.0	0.13	<0.02	479	0.5	0.04	7.2	1.76	<0.1	0.04
119138	Soil	6.8	27.5	0.29	79.6	0.004	1	1.82	0.001	0.11	0.1	2.6	0.12	<0.02	21	0.4	0.05	8.2	1.71	<0.1	<0.02
119139	Soil	9.6	29.2	0.46	191.5	0.008	2	1.88	0.002	0.09	<0.1	3.1	0.12	<0.02	28	0.3	<0.02	6.1	2.43	<0.1	0.02
119140	Soil	8.3	26.8	0.37	207.2	0.008	<1	1.76	0.002	0.13	<0.1	2.6	0.13	<0.02	12	0.2	<0.02	7.6	1.24	<0.1	<0.02
119141	Soil	6.7	24.1	0.32	137.8	0.007	1	1.43	0.002	0.13	<0.1	2.8	0.12	<0.02	12	0.4	0.05	7.8	1.75	<0.1	<0.02
119142	Soil	6.4	32.1	0.43	348.5	0.004	1	1.88	0.004	0.15	<0.1	3.3	0.11	<0.02	<5	0.2	0.04	6.8	2.09	<0.1	0.02
119143	Soil	2.3	6.2	9.32	44.1	0.001	3	0.13	0.008	<0.01	<0.1	1.0	0.05	<0.02	58	0.3	<0.02	0.3	0.11	<0.1	<0.02
119144	Soil	13.9	18.7	0.31	120.9	0.020	2	1.07	0.007	0.07	0.2	3.6	0.10	0.05	362	0.6	0.04	2.9	1.20	<0.1	0.07
119145	Soil	5.2	8.6	4.86	52.8	0.003	4	0.33	0.008	0.03	<0.1	0.7	0.04	0.04	158	0.4	<0.02	0.7	0.29	<0.1	0.03
119146	Soil	6.5	11.0	5.13	70.7	0.009	5	0.61	0.008	0.05	<0.1	1.6	0.08	<0.02	668	0.5	0.05	1.3	0.99	<0.1	0.04
119147	Soil	11.8	16.8	2.08	104.8	0.009	4	0.97	0.006	0.07	<0.1	2.2	0.10	0.07	598	0.9	0.04	2.3	1.07	<0.1	0.05
119148	Soil	9.6	23.3	0.42	123.0	0.011	2	1.37	0.002	0.08	0.1	3.0	0.13	0.02	53	0.4	0.05	3.6	3.83	<0.1	0.04
119149	Soil	13.5	21.0	2.68	92.2	0.019	3	1.18	0.008	0.05	0.2	2.6	0.07	0.03	743	0.6	0.04	3.1	0.81	<0.1	0.04
119351	Soil	6.2	10.6	4.24	58.6	0.013	2	0.65	0.007	0.03	0.1	1.1	0.04	<0.02	2381	0.5	<0.02	1.8	0.46	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
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Page: 4 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
119120	Soil	0.06	16.9	1.1	<0.05	2.2	9.24	17.6	0.05	<1	1.6	41.6	<10	<2
119121	Soil	0.50	31.9	1.4	<0.05	3.2	4.19	13.0	0.04	1	1.4	30.7	<10	<2
119122	Soil	0.14	18.5	1.3	<0.05	1.6	10.90	22.4	0.03	1	3.2	28.5	<10	<2
119123	Soil	0.88	24.3	1.1	<0.05	2.7	5.48	14.8	0.04	<1	1.8	30.7	<10	<2
119124	Soil	0.46	17.1	1.2	<0.05	1.6	3.85	17.2	<0.02	<1	0.6	23.4	<10	<2
119126	Soil	0.32	22.1	1.0	<0.05	1.7	2.40	12.8	0.04	<1	0.9	25.6	12	<2
119127	Soil	0.67	32.2	1.3	<0.05	2.8	4.37	10.5	0.03	<1	1.4	23.2	<10	<2
119128	Soil	0.75	19.2	1.0	<0.05	2.2	3.10	27.4	<0.02	<1	0.4	13.0	<10	<2
119129	Soil	0.62	16.5	1.1	<0.05	0.4	2.27	22.6	0.02	<1	0.4	6.2	<10	<2
119130	Soil	0.52	16.6	1.0	<0.05	2.3	3.39	14.1	0.03	<1	1.3	25.1	<10	<2
119131	Soil	0.36	17.5	1.3	<0.05	2.1	4.06	12.7	0.06	<1	1.1	40.4	<10	3
119132	Soil	0.31	18.2	1.3	<0.05	1.4	2.81	10.5	0.03	<1	1.2	45.2	<10	<2
119133	Soil	0.33	20.7	1.3	<0.05	1.2	2.93	14.9	<0.02	<1	0.3	23.3	<10	3
119134	Soil	0.31	13.5	0.9	<0.05	1.7	5.85	21.2	0.03	2	0.8	29.0	<10	<2
119135	Soil	0.34	16.2	1.0	<0.05	3.4	3.59	12.9	0.05	<1	1.4	48.2	<10	<2
119136	Soil	0.19	16.0	1.0	<0.05	1.6	2.96	12.5	0.03	<1	0.7	45.0	<10	<2
119137	Soil	0.74	17.8	1.2	<0.05	2.2	3.25	19.7	0.04	1	1.2	39.8	<10	<2
119138	Soil	0.37	20.5	1.2	<0.05	1.0	2.48	14.0	0.02	<1	0.5	32.1	<10	<2
119139	Soil	0.51	16.3	1.2	<0.05	1.4	3.98	21.1	0.03	<1	0.9	31.7	<10	<2
119140	Soil	0.55	22.0	1.1	<0.05	0.7	2.62	16.7	<0.02	<1	0.6	18.5	<10	<2
119141	Soil	0.52	25.4	1.3	<0.05	1.3	3.73	14.7	0.03	<1	0.7	11.7	<10	<2
119142	Soil	0.45	21.1	2.0	<0.05	0.7	5.77	15.0	0.02	<1	1.3	26.3	<10	<2
119143	Soil	0.02	0.9	6.9	<0.05	0.3	10.73	6.0	<0.02	<1	0.4	1.1	<10	<2
119144	Soil	0.44	6.4	1.5	<0.05	2.1	13.08	29.0	0.02	<1	0.7	11.8	<10	<2
119145	Soil	0.07	2.4	3.9	<0.05	0.8	5.54	10.9	<0.02	<1	0.4	2.5	<10	<2
119146	Soil	0.17	3.6	0.8	<0.05	1.2	7.19	13.9	<0.02	<1	0.4	5.4	22	<2
119147	Soil	0.22	6.5	2.1	<0.05	1.5	13.50	23.2	0.02	3	0.8	7.7	24	<2
119148	Soil	0.28	10.7	1.1	<0.05	0.6	5.49	24.8	0.03	<1	1.0	13.0	<10	<2
119149	Soil	0.35	6.0	1.0	<0.05	1.1	10.65	23.5	<0.02	<1	0.4	11.5	43	3
119351	Soil	0.16	3.4	1.3	<0.05	0.8	5.47	13.0	<0.02	<1	0.5	5.3	93	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: July 06, 2011

Page: 5 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
119352	Soil	0.80	16.75	18.73	383.6	137	20.7	9.6	1452	3.02	19.4	0.8	6.5	0.9	23.9	0.90	2.14	0.21	35	3.69	0.189
119353	Soil	0.63	16.74	18.33	140.8	173	23.2	8.3	457	3.03	14.7	0.9	5.1	2.3	13.7	0.26	0.90	0.24	36	0.75	0.087
119354	Soil	0.79	19.04	50.96	220.9	133	22.7	11.8	1130	3.03	16.7	0.8	1.9	2.1	11.2	0.68	1.11	0.27	27	0.90	0.069
119355	Soil	1.17	23.15	25.26	77.0	51	23.6	11.0	330	3.30	9.9	0.6	3.1	3.9	7.5	0.17	0.65	0.34	35	0.05	0.030
119356	Soil	0.95	28.08	23.16	53.2	45	26.9	14.2	464	3.38	7.8	0.5	1.0	3.6	8.0	0.11	0.53	0.31	28	0.05	0.032
119357	Soil	1.34	16.83	14.86	36.2	103	12.5	4.5	120	2.25	6.1	0.4	1.5	1.2	5.8	0.07	0.49	0.27	35	0.04	0.044
119358	Soil	1.10	16.29	16.58	40.3	27	14.1	6.8	203	2.51	6.7	0.4	0.6	1.7	7.3	0.06	0.56	0.31	37	0.10	0.026
119359	Soil	1.42	17.85	16.18	63.6	61	17.8	7.3	362	2.87	8.7	0.6	1.4	1.1	6.8	0.11	0.72	0.35	47	0.04	0.044
119360	Soil	0.85	20.79	14.08	57.6	83	17.9	8.6	489	3.20	5.0	0.5	0.3	2.8	9.2	0.07	0.35	0.28	41	0.12	0.045
119361	Soil	1.10	24.89	15.39	66.5	78	16.4	8.7	396	3.70	5.4	0.5	3.2	3.0	5.0	0.10	0.49	0.35	41	0.02	0.037
119362	Soil	1.35	29.74	29.70	104.9	66	23.6	27.0	1667	4.29	8.8	0.7	1.4	3.0	6.9	0.14	0.73	0.40	52	0.04	0.050
119363	Soil	1.07	31.01	25.89	116.0	93	24.0	21.6	1785	5.74	7.8	0.6	<0.2	3.3	5.8	0.25	0.44	0.50	48	0.03	0.074
119364	Soil	0.81	28.57	22.72	83.2	45	28.5	14.6	610	3.76	8.2	0.6	2.8	3.6	6.6	0.13	0.51	0.38	35	0.04	0.034
119365	Soil	0.83	35.03	37.63	110.2	89	31.6	33.3	1524	4.40	9.7	0.6	1.1	3.5	13.8	0.17	0.36	0.38	40	0.11	0.053
119366	Soil	1.35	23.60	24.86	104.6	212	22.5	13.4	653	5.55	8.4	0.6	0.7	3.5	5.4	0.15	0.57	0.47	54	0.03	0.083
119367	Soil	0.82	23.75	21.98	149.0	93	26.0	17.2	1176	3.96	4.1	0.6	1.9	3.2	7.0	0.12	0.33	0.40	40	0.04	0.048
119368	Soil	0.95	26.40	30.44	133.8	157	29.8	19.4	828	5.07	7.3	0.6	0.8	3.9	7.7	0.22	0.43	0.42	42	0.04	0.045
119451	Soil	1.03	28.48	21.79	87.2	34	28.1	11.0	317	3.46	12.0	0.6	0.7	0.8	21.7	0.11	0.55	0.34	24	0.21	0.058
119452	Soil	0.82	26.36	24.74	83.4	67	23.4	10.0	188	3.47	11.6	0.5	1.0	1.8	10.1	0.07	0.50	0.38	28	0.06	0.043
119453	Soil	0.88	35.40	30.37	104.8	111	35.0	15.2	507	3.92	16.5	1.5	2.0	2.9	52.0	0.13	0.52	0.46	25	0.46	0.042
119454	Soil	1.49	31.54	32.01	92.7	34	32.5	17.0	631	3.86	18.8	0.9	2.2	2.0	38.8	0.09	0.63	0.45	30	0.35	0.057
119455	Soil	1.24	30.39	28.30	114.0	40	26.1	18.6	1100	3.83	25.3	0.6	1.2	0.9	45.1	0.32	0.62	0.44	30	0.41	0.098
119456	Soil	1.01	36.96	29.66	78.8	43	32.7	21.9	1162	4.22	18.4	1.1	0.8	3.7	20.2	0.14	0.54	0.41	35	0.10	0.070
119457	Soil	0.72	44.16	21.65	121.0	73	42.4	19.5	569	3.22	23.4	0.9	1.0	6.7	117.9	0.30	0.55	0.39	17	3.52	0.087
119458	Soil	0.87	30.50	25.54	73.4	98	28.4	14.6	792	3.58	19.1	1.3	1.8	2.7	37.5	0.12	0.56	0.37	27	0.50	0.088
119459	Soil	0.98	35.85	24.83	118.1	187	31.9	13.7	663	3.30	17.8	3.2	2.2	2.3	48.9	0.16	0.57	0.30	27	0.54	0.144
119460	Soil	0.81	44.78	30.09	96.4	128	32.3	18.5	917	3.73	18.2	1.6	1.7	3.1	33.3	0.11	0.57	0.35	23	0.29	0.067
119461	Soil	1.52	33.70	35.37	107.8	100	27.5	27.6	1724	4.34	26.5	0.8	0.8	2.4	14.1	0.21	0.57	0.42	35	0.04	0.071
119462	Soil	0.98	37.26	29.27	91.1	66	34.8	20.8	983	4.02	23.1	1.3	0.9	3.0	22.3	0.10	0.72	0.38	26	0.13	0.060
119463	Soil	1.53	20.99	18.75	98.6	50	19.7	9.7	547	2.89	12.4	0.7	2.9	1.4	25.2	0.20	0.73	0.34	45	0.30	0.069



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: July 06, 2011

Page: 5 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
119352	Soil	13.4	20.1	2.04	106.5	0.011	3	1.38	0.005	0.05	0.1	2.1	0.08	0.07	313	0.5	0.05	3.1	0.82	<0.1	0.06
119353	Soil	18.6	25.1	0.57	102.2	0.015	3	1.43	0.004	0.06	0.1	3.7	0.08	0.04	94	0.5	0.02	3.4	0.90	<0.1	0.07
119354	Soil	11.1	20.7	0.64	149.0	0.009	4	1.32	0.004	0.10	0.1	3.8	0.09	0.04	183	0.4	0.03	3.0	1.14	<0.1	0.05
119355	Soil	9.7	22.7	0.28	68.9	0.008	1	1.49	0.001	0.10	<0.1	2.9	0.11	<0.02	24	0.4	0.04	4.5	2.11	<0.1	0.02
119356	Soil	8.1	22.9	0.32	77.3	0.011	2	1.39	0.002	0.09	<0.1	3.5	0.10	0.02	29	0.5	0.04	4.2	3.01	<0.1	<0.02
119357	Soil	7.5	18.9	0.13	60.5	0.008	<1	1.10	0.002	0.08	<0.1	1.5	0.12	0.04	20	0.5	0.03	5.2	1.62	<0.1	<0.02
119358	Soil	10.7	13.6	0.12	70.7	0.014	2	0.76	0.001	0.08	0.1	1.7	0.09	<0.02	12	0.4	<0.02	4.6	2.13	<0.1	<0.02
119359	Soil	11.0	22.9	0.24	86.3	0.012	<1	1.47	<0.001	0.09	0.1	1.9	0.16	0.03	20	0.5	0.03	6.2	2.63	<0.1	<0.02
119360	Soil	7.5	28.9	0.33	128.5	0.006	2	2.00	<0.001	0.09	<0.1	2.9	0.19	0.02	9	0.3	<0.02	6.9	2.19	<0.1	0.02
119361	Soil	7.1	26.5	0.28	89.1	0.006	<1	1.75	<0.001	0.13	<0.1	3.3	0.17	<0.02	7	0.4	<0.02	7.7	2.86	<0.1	0.03
119362	Soil	8.9	32.9	0.42	98.7	0.017	2	2.03	0.002	0.09	<0.1	4.1	0.14	0.02	14	0.5	0.06	7.7	3.21	<0.1	<0.02
119363	Soil	6.5	39.7	0.44	124.1	0.006	<1	2.55	0.003	0.11	<0.1	4.9	0.13	0.02	15	0.7	0.06	10.4	2.81	<0.1	0.06
119364	Soil	6.4	30.5	0.48	117.2	0.009	<1	1.88	0.002	0.09	0.1	3.4	0.10	<0.02	26	0.2	<0.02	6.2	2.86	<0.1	0.04
119365	Soil	7.2	40.2	0.58	111.3	0.007	1	2.25	0.004	0.12	<0.1	4.7	0.09	<0.02	24	0.3	<0.02	8.1	3.90	<0.1	<0.02
119366	Soil	6.7	41.0	0.37	119.4	0.007	1	2.46	0.002	0.11	0.1	3.6	0.11	0.03	60	0.5	0.02	9.1	2.30	<0.1	0.05
119367	Soil	5.6	32.3	0.41	247.1	0.005	1	2.16	0.003	0.12	<0.1	3.4	0.12	0.04	37	0.4	0.04	7.3	1.73	<0.1	0.03
119368	Soil	8.1	42.4	0.54	110.1	0.005	<1	2.41	0.002	0.10	<0.1	4.2	0.10	<0.02	29	0.5	0.03	7.8	2.37	<0.1	0.06
119451	Soil	5.6	19.6	0.19	96.2	0.004	<1	0.81	0.002	0.06	<0.1	1.9	0.08	0.02	43	0.3	0.05	3.1	2.01	<0.1	<0.02
119452	Soil	4.7	13.6	0.07	54.4	0.003	2	0.73	0.002	0.07	<0.1	2.9	0.11	0.02	61	0.3	0.05	3.3	2.33	<0.1	<0.02
119453	Soil	8.7	21.1	0.33	133.3	0.005	2	0.98	0.003	0.08	<0.1	4.8	0.09	0.03	91	0.6	0.09	3.1	3.49	<0.1	0.03
119454	Soil	8.0	25.0	0.39	97.7	0.005	2	1.27	0.001	0.08	<0.1	3.0	0.10	0.03	99	0.5	0.10	4.0	5.71	<0.1	0.03
119455	Soil	5.4	22.9	0.27	113.1	0.008	3	0.97	0.002	0.08	<0.1	2.5	0.10	0.06	105	0.4	0.12	3.8	5.64	<0.1	<0.02
119456	Soil	7.9	28.8	0.49	125.7	0.004	3	1.92	0.001	0.10	<0.1	4.3	0.15	0.03	97	0.4	0.06	5.5	6.58	<0.1	0.05
119457	Soil	17.4	26.7	1.62	88.5	0.002	5	0.97	0.004	0.11	<0.1	8.6	0.12	0.02	232	0.7	0.07	2.6	4.12	<0.1	0.05
119458	Soil	9.4	26.8	0.46	124.4	0.004	4	1.28	0.001	0.11	<0.1	4.9	0.12	0.04	144	0.5	0.05	4.2	4.15	<0.1	0.07
119459	Soil	11.8	29.1	0.55	142.3	0.003	2	1.67	0.002	0.12	<0.1	4.7	0.14	0.07	255	0.8	0.06	4.5	9.15	<0.1	0.10
119460	Soil	9.1	24.4	0.49	82.7	0.002	3	1.40	<0.001	0.12	<0.1	6.2	0.11	0.03	153	0.5	0.07	3.6	6.44	<0.1	0.09
119461	Soil	6.7	28.7	0.38	67.7	0.005	4	1.62	<0.001	0.12	<0.1	3.8	0.12	0.03	168	0.6	0.04	5.7	7.64	<0.1	0.02
119462	Soil	8.8	24.2	0.40	106.6	0.002	3	1.38	<0.001	0.11	<0.1	5.0	0.13	0.03	243	0.4	0.09	4.2	3.98	<0.1	0.03
119463	Soil	13.2	24.3	0.25	114.8	0.008	3	1.06	0.002	0.10	<0.1	2.8	0.19	0.03	113	0.9	0.11	5.4	3.33	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
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Page: 5 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
119352	Soil	0.26	6.9	0.9	<0.05	1.2	12.68	27.3	<0.02	<1	0.8	10.1	28	<2
119353	Soil	0.40	8.7	0.7	<0.05	1.5	15.69	28.6	0.03	<1	0.6	11.8	<10	<2
119354	Soil	0.30	9.7	0.7	<0.05	1.3	8.70	23.3	0.03	<1	1.1	11.5	18	<2
119355	Soil	0.39	13.4	1.8	<0.05	1.1	3.63	21.2	0.02	<1	0.5	19.9	<10	<2
119356	Soil	0.35	13.4	1.8	<0.05	1.0	4.56	20.0	0.03	<1	0.6	27.5	<10	<2
119357	Soil	0.51	14.6	1.8	<0.05	0.3	2.13	15.5	<0.02	<1	0.2	7.1	<10	<2
119358	Soil	0.46	16.4	1.7	<0.05	0.2	2.86	23.8	<0.02	<1	0.4	8.6	<10	<2
119359	Soil	0.50	18.8	1.2	<0.05	0.1	3.13	24.5	0.02	<1	0.6	14.2	<10	<2
119360	Soil	0.52	20.2	1.4	<0.05	0.9	3.31	16.3	0.03	<1	0.9	23.3	<10	<2
119361	Soil	0.37	25.7	1.3	<0.05	0.9	4.45	15.2	0.03	<1	1.0	16.6	<10	<2
119362	Soil	0.53	22.0	1.7	<0.05	0.5	5.20	21.1	0.03	<1	1.0	25.8	<10	<2
119363	Soil	0.53	24.5	1.5	<0.05	2.4	4.66	15.4	0.06	<1	1.4	36.3	<10	2
119364	Soil	0.45	14.4	1.5	<0.05	1.2	3.44	13.4	0.04	<1	1.0	33.0	<10	<2
119365	Soil	0.33	16.6	1.4	<0.05	1.1	4.80	19.9	0.04	<1	1.5	41.4	<10	3
119366	Soil	0.84	18.1	4.4	<0.05	1.6	3.35	14.9	0.03	<1	1.0	31.5	<10	<2
119367	Soil	0.61	21.3	1.5	<0.05	1.3	2.98	12.0	0.06	2	1.2	33.7	13	<2
119368	Soil	0.51	19.7	2.5	<0.05	2.1	4.01	19.1	0.06	<1	1.2	47.1	<10	<2
119451	Soil	0.15	8.9	1.3	<0.05	0.3	4.72	12.0	0.04	<1	0.4	14.8	<10	<2
119452	Soil	0.18	11.6	1.1	<0.05	0.4	3.17	11.1	0.04	<1	0.5	6.7	<10	<2
119453	Soil	0.24	7.3	1.5	<0.05	1.9	9.31	19.8	0.05	<1	0.9	22.8	<10	<2
119454	Soil	0.32	9.7	2.8	<0.05	1.1	4.47	17.7	0.03	<1	1.0	28.5	<10	<2
119455	Soil	0.37	10.8	2.2	<0.05	0.5	3.34	11.6	0.03	<1	0.9	18.5	<10	<2
119456	Soil	0.30	15.4	2.6	<0.05	1.5	6.46	26.8	0.05	<1	1.6	44.5	<10	<2
119457	Soil	0.09	8.3	1.8	<0.05	2.1	18.68	41.4	0.04	<1	1.1	22.0	<10	<2
119458	Soil	0.25	12.5	2.4	<0.05	1.7	8.38	25.3	0.04	<1	1.2	28.4	<10	<2
119459	Soil	0.26	20.0	1.7	<0.05	2.9	15.47	24.5	0.04	<1	1.8	37.8	<10	<2
119460	Soil	0.13	10.7	2.2	<0.05	2.2	11.24	22.6	0.04	<1	1.5	36.2	<10	<2
119461	Soil	0.23	16.0	4.2	<0.05	0.9	3.96	15.9	0.04	<1	1.1	34.7	<10	<2
119462	Soil	0.12	11.8	1.8	<0.05	1.3	7.24	25.5	0.04	<1	0.9	35.3	<10	<2
119463	Soil	0.37	14.8	1.8	<0.05	0.3	6.33	26.4	0.03	<1	0.4	18.8	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 6 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
119464	Soil	0.64	27.27	25.36	76.1	98	27.4	12.5	674	3.34	13.9	1.3	<0.2	1.5	108.4	0.13	0.51	0.33	21	1.12	0.106
119465	Soil	0.68	31.93	34.35	112.8	108	36.0	15.0	502	3.92	7.1	0.9	0.5	3.7	19.4	0.11	0.32	0.35	12	0.12	0.049
119466	Soil	0.85	31.47	23.16	86.0	165	34.2	13.0	659	4.07	17.4	0.8	<0.2	2.5	26.1	0.05	0.51	0.33	25	0.14	0.074
119467	Soil	1.79	33.49	28.38	104.2	139	38.3	15.3	569	3.30	8.1	0.7	<0.2	4.2	25.6	0.12	0.39	0.35	14	0.42	0.045
119468	Soil	1.14	47.31	43.34	131.5	227	44.7	22.4	594	4.15	16.2	0.6	1.0	4.7	63.5	0.09	0.49	0.40	17	0.91	0.042
119469	Soil	1.15	32.84	58.97	110.3	244	28.5	27.3	1974	4.12	9.1	0.7	<0.2	3.2	18.9	0.19	0.52	0.33	23	0.16	0.125
119470	Soil	1.69	47.72	76.81	131.3	250	46.4	42.6	2503	4.90	18.3	1.0	0.7	2.1	19.2	0.17	0.61	0.38	28	0.09	0.087
119471	Soil	1.55	33.95	57.22	88.6	220	49.7	22.9	1100	8.45	23.5	2.4	0.3	4.4	55.3	0.03	1.23	0.32	29	0.51	0.315
119472	Soil	0.88	25.99	30.92	130.0	88	22.3	11.5	565	3.48	9.0	0.3	<0.2	2.0	9.4	0.07	0.36	0.39	23	0.05	0.051
119473	Soil	1.30	33.29	37.04	99.5	114	35.9	22.9	964	4.35	11.6	0.6	<0.2	3.2	8.7	0.11	0.63	0.36	21	0.05	0.061
119474	Soil	0.64	22.29	33.79	84.1	39	26.1	10.4	343	3.54	9.4	0.3	0.2	3.5	13.6	0.08	0.32	0.33	13	0.14	0.019
119476	Soil	0.98	25.29	36.89	109.1	42	32.1	14.4	346	4.85	10.6	0.6	<0.2	3.6	12.4	0.08	0.51	0.48	36	0.10	0.037
119477	Soil	0.93	27.70	32.14	126.9	169	35.7	12.7	328	3.11	13.4	1.1	<0.2	5.7	30.3	0.18	0.89	0.26	21	0.30	0.054
119478	Soil	0.67	29.62	31.64	123.9	127	41.9	21.2	444	3.62	9.6	0.6	<0.2	7.8	46.3	0.06	0.23	0.39	12	0.42	0.042
119479	Soil	0.68	30.33	35.63	123.0	152	41.4	18.1	434	3.34	8.8	0.8	<0.2	7.9	67.0	0.05	0.23	0.43	14	1.16	0.044
119480	Soil	0.45	27.31	34.36	105.1	56	39.0	20.5	467	2.86	57.4	0.6	5.4	6.0	30.0	0.08	0.79	0.43	7	0.50	0.025
119481	Soil	0.27	35.03	47.92	567.2	50	47.1	15.8	936	3.75	210.3	1.4	10.7	6.1	175.2	0.28	2.84	0.32	25	5.27	0.137
119482	Soil	1.67	22.57	32.07	82.1	90	36.2	12.8	326	2.94	15.5	1.1	<0.2	2.7	51.2	0.11	0.47	0.35	7	0.78	0.054
119483	Soil	1.07	17.53	64.57	1295	180	25.6	8.2	933	2.11	54.0	1.6	31.4	0.9	142.1	4.25	3.65	0.22	10	9.52	0.143
119484	Soil	0.46	6.00	19.52	340.7	77	7.0	1.8	1657	1.91	52.0	1.0	28.0	0.2	57.4	1.03	1.77	0.06	2	17.55	0.092
119485	Soil	0.51	9.64	33.55	359.4	116	11.7	4.2	1606	2.50	81.4	0.9	32.2	0.4	65.5	0.93	2.56	0.12	6	14.35	0.109
119486	Soil	0.38	31.28	39.28	137.9	146	46.5	28.8	453	3.54	8.6	0.6	1.1	5.9	79.0	0.09	0.31	0.44	10	1.01	0.027
119487	Soil	0.47	26.70	28.38	111.6	131	30.7	12.6	281	2.63	6.9	0.9	0.9	3.5	310.8	0.12	0.26	0.38	10	4.32	0.041
120051	Soil	0.53	23.35	41.20	35.3	118	6.3	1.7	58	3.48	7.9	0.4	1.1	2.9	5.7	0.02	0.35	0.48	15	0.01	0.038
120052	Soil	0.75	29.79	35.33	72.2	448	14.1	5.1	99	4.20	9.3	0.6	1.0	3.6	12.0	0.09	0.45	0.39	20	0.02	0.038
120053	Soil	0.74	38.16	56.39	108.5	269	21.5	12.0	444	5.03	9.0	0.6	1.0	6.1	36.6	0.06	0.45	0.41	20	<0.01	0.075
120054	Soil	0.75	30.60	44.74	146.2	202	36.4	14.2	606	6.31	7.7	0.8	0.5	11.4	14.5	0.32	0.27	0.30	5	0.03	0.080
120055	Soil	0.70	40.26	55.26	89.4	137	18.0	8.6	259	5.35	12.6	0.9	0.9	4.7	15.2	0.07	0.48	0.43	18	0.07	0.055
120056	Soil	0.58	38.22	53.48	89.8	109	27.6	12.2	598	4.76	23.2	0.9	0.8	4.5	91.8	0.06	0.42	0.51	13	0.45	0.150
120057	Soil	0.72	51.45	76.88	121.1	92	18.7	8.0	127	5.79	23.9	1.2	0.8	6.1	20.4	0.05	0.95	0.49	16	0.06	0.036



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
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Page: 6 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
119464	Soil	15.5	17.1	0.25	115.7	0.004	3	1.01	0.002	0.07	<0.1	3.8	0.07	0.07	72	0.5	0.10	2.9	2.37	<0.1	0.06
119465	Soil	3.4	13.8	0.18	92.5	0.002	1	0.83	0.003	0.07	<0.1	5.1	0.11	0.02	42	0.4	0.04	2.2	2.51	<0.1	0.04
119466	Soil	7.1	18.5	0.18	102.8	0.003	1	0.76	0.002	0.06	<0.1	6.1	0.11	<0.02	50	0.4	0.03	2.2	7.07	<0.1	<0.02
119467	Soil	4.3	28.9	0.37	82.0	0.002	3	0.98	0.002	0.11	<0.1	5.4	0.07	0.02	27	0.3	0.06	2.9	1.88	<0.1	0.06
119468	Soil	5.6	25.7	0.42	186.7	0.002	5	1.29	0.002	0.12	<0.1	7.8	0.14	0.03	57	0.5	0.12	3.9	3.61	<0.1	0.08
119469	Soil	4.7	25.1	0.32	140.0	0.003	4	1.38	0.002	0.11	<0.1	4.8	0.15	0.07	51	0.5	0.06	4.0	5.87	<0.1	0.07
119470	Soil	5.4	29.5	0.39	210.7	0.005	4	1.56	0.001	0.10	<0.1	3.7	0.18	0.05	94	0.7	0.07	4.0	11.57	<0.1	0.03
119471	Soil	11.7	31.7	0.43	81.4	0.002	3	2.05	<0.001	0.08	<0.1	5.1	0.25	0.03	56	0.9	0.06	4.1	3.44	<0.1	0.07
119472	Soil	3.2	20.8	0.21	107.3	0.002	2	1.26	0.001	0.11	<0.1	2.6	0.09	0.03	36	0.2	0.06	4.5	3.78	<0.1	0.04
119473	Soil	5.5	23.9	0.34	88.0	0.003	3	1.28	0.001	0.10	<0.1	3.8	0.10	0.03	66	0.4	0.04	3.5	3.70	<0.1	0.05
119474	Soil	3.7	13.8	0.11	82.2	0.001	2	0.78	<0.001	0.07	<0.1	3.8	0.10	<0.02	36	0.2	0.05	1.9	1.57	<0.1	<0.02
119476	Soil	6.9	21.4	0.33	214.6	0.003	1	1.82	<0.001	0.10	<0.1	3.5	0.24	<0.02	42	0.4	0.07	4.6	2.09	<0.1	0.03
119477	Soil	12.6	13.1	0.23	102.4	0.015	2	0.83	0.005	0.08	<0.1	4.4	0.15	<0.02	124	0.5	0.05	2.0	1.68	<0.1	0.06
119478	Soil	8.9	16.6	0.21	197.3	0.007	5	0.98	0.004	0.21	<0.1	5.9	0.27	<0.02	70	0.3	0.02	2.9	5.13	<0.1	0.08
119479	Soil	9.1	18.1	0.24	271.5	0.005	10	0.97	0.006	0.26	<0.1	5.7	0.25	0.08	76	0.5	0.07	2.8	4.57	<0.1	0.07
119480	Soil	4.5	8.5	0.06	172.9	0.001	4	0.40	0.002	0.13	<0.1	7.2	0.25	<0.02	207	0.4	0.04	1.4	2.42	<0.1	0.07
119481	Soil	10.8	25.4	0.35	197.2	0.004	3	1.94	0.008	0.26	0.2	6.4	0.50	<0.02	2232	0.4	0.07	5.1	10.68	<0.1	0.10
119482	Soil	5.6	15.0	0.07	183.9	0.002	6	0.46	0.012	0.19	<0.1	4.2	0.13	0.22	117	0.4	0.07	1.0	4.77	<0.1	0.06
119483	Soil	6.1	11.3	3.30	138.3	0.003	8	0.36	0.006	0.07	<0.1	1.4	0.17	0.07	1954	0.7	<0.02	1.2	3.52	<0.1	0.08
119484	Soil	2.3	6.0	8.82	48.3	0.003	5	0.21	0.009	0.02	<0.1	0.4	0.06	<0.02	278	0.6	<0.02	0.6	0.28	<0.1	<0.02
119485	Soil	4.7	8.3	6.98	80.2	0.004	4	0.42	0.009	0.04	<0.1	0.6	0.08	<0.02	199	0.4	0.05	1.1	0.52	<0.1	0.03
119486	Soil	7.9	13.1	0.23	240.7	0.005	7	0.81	0.004	0.15	<0.1	6.4	0.31	0.04	98	0.8	<0.02	2.6	5.28	<0.1	0.06
119487	Soil	6.7	12.4	0.23	227.8	0.004	6	0.88	0.005	0.15	<0.1	4.0	0.17	0.05	57	0.7	0.05	2.3	2.08	<0.1	0.08
120051	Soil	2.6	19.7	0.13	33.9	0.001	1	0.88	0.002	0.08	<0.1	2.1	0.12	0.03	36	0.6	0.06	3.4	3.20	<0.1	0.03
120052	Soil	4.0	19.1	0.18	81.1	0.002	1	1.20	0.003	0.07	<0.1	3.5	0.11	0.05	23	0.6	0.03	3.6	2.04	<0.1	0.04
120053	Soil	2.3	16.5	0.09	164.0	0.001	2	0.78	0.014	0.09	<0.1	6.7	0.25	0.17	41	0.5	0.03	3.5	2.77	<0.1	0.06
120054	Soil	5.7	7.8	0.10	240.6	<0.001	2	0.65	0.002	0.04	<0.1	6.8	0.25	0.04	47	0.5	0.03	1.1	1.68	<0.1	0.07
120055	Soil	4.1	20.1	0.24	96.9	0.003	2	1.12	0.003	0.07	<0.1	5.0	0.15	0.03	16	0.5	0.05	3.3	2.81	<0.1	0.03
120056	Soil	5.0	12.4	0.15	146.3	0.001	4	0.96	0.013	0.13	<0.1	4.6	0.14	0.10	34	0.3	0.06	2.6	3.33	<0.1	0.09
120057	Soil	3.3	23.3	0.26	102.7	0.002	<1	1.18	0.003	0.06	<0.1	5.2	0.20	0.04	30	0.7	0.04	3.8	3.59	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 6 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
119464	Soil	0.28	9.0	1.0	<0.05	1.7	12.18	32.5	0.04	<1	1.2	16.4	<10	<2
119465	Soil	0.04	6.6	1.1	<0.05	3.3	8.95	9.7	0.04	<1	0.8	30.2	<10	<2
119466	Soil	0.09	8.9	1.5	<0.05	0.5	13.81	21.6	0.02	<1	0.9	21.0	<10	<2
119467	Soil	0.08	7.8	4.0	<0.05	2.6	11.58	15.6	0.04	<1	0.5	39.9	<10	<2
119468	Soil	0.11	9.9	5.0	<0.05	3.3	16.91	17.2	0.04	<1	1.1	50.1	<10	<2
119469	Soil	0.19	14.9	2.2	<0.05	2.2	9.55	15.7	0.04	<1	1.2	40.0	<10	<2
119470	Soil	0.15	13.8	4.5	<0.05	0.9	9.69	17.0	0.04	<1	2.0	48.0	<10	<2
119471	Soil	0.07	13.8	2.4	<0.05	2.7	24.66	43.8	0.04	<1	1.4	81.5	<10	<2
119472	Soil	0.21	17.8	3.7	<0.05	1.3	2.61	6.4	0.05	<1	0.6	36.0	<10	<2
119473	Soil	0.14	12.6	2.9	<0.05	0.9	4.82	14.8	0.03	<1	0.9	39.2	<10	<2
119474	Soil	0.06	9.1	2.1	<0.05	0.6	5.28	9.5	0.04	<1	1.0	11.8	<10	<2
119476	Soil	0.32	17.8	1.1	<0.05	0.9	5.09	19.4	0.06	<1	1.0	30.6	10	<2
119477	Soil	0.24	8.0	0.7	<0.05	3.6	11.39	28.4	0.03	<1	0.6	10.1	<10	<2
119478	Soil	0.09	20.2	2.7	<0.05	4.5	11.32	30.8	0.04	<1	0.7	22.8	<10	<2
119479	Soil	0.15	20.9	4.1	<0.05	3.1	11.90	26.7	0.04	1	0.9	24.6	11	<2
119480	Soil	0.04	9.5	1.3	<0.05	3.2	11.38	15.1	0.04	<1	0.8	4.3	<10	<2
119481	Soil	0.28	20.4	1.6	<0.05	5.4	13.38	31.4	0.04	<1	1.5	22.8	48	3
119482	Soil	0.07	7.8	5.4	<0.05	1.5	10.16	18.5	<0.02	<1	0.9	3.7	<10	<2
119483	Soil	0.09	5.1	9.2	<0.05	2.5	11.83	18.0	<0.02	<1	0.3	3.9	83	<2
119484	Soil	0.05	1.9	2.7	<0.05	0.6	2.83	4.8	<0.02	<1	0.2	1.9	24	<2
119485	Soil	0.06	3.2	2.3	<0.05	0.7	5.33	9.7	<0.02	<1	0.3	4.1	26	<2
119486	Soil	0.19	19.9	1.9	<0.05	2.8	12.06	24.4	0.05	<1	1.0	23.5	11	<2
119487	Soil	0.20	12.4	2.2	<0.05	2.8	9.83	18.4	0.04	1	0.7	25.8	<10	<2
120051	Soil	0.06	12.3	1.9	<0.05	1.1	1.47	5.6	0.05	<1	0.5	13.2	<10	<2
120052	Soil	0.16	11.7	1.0	<0.05	1.8	2.68	9.1	0.04	<1	0.7	17.8	<10	<2
120053	Soil	0.04	11.1	1.2	<0.05	6.6	7.26	6.9	0.06	<1	1.3	8.8	<10	<2
120054	Soil	<0.02	4.4	1.1	<0.05	3.9	11.09	16.0	0.05	<1	1.2	8.1	12	<2
120055	Soil	0.08	9.1	0.7	<0.05	2.1	4.73	9.8	0.05	<1	0.8	19.3	<10	<2
120056	Soil	0.03	11.9	1.4	<0.05	7.0	7.79	11.2	0.04	<1	1.1	11.0	<10	<2
120057	Soil	0.05	7.0	1.2	<0.05	4.1	5.14	7.9	0.07	<1	1.2	28.5	14	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: July 06, 2011

Page: 7 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
120058	Soil			0.93	27.24	54.88	62.9	224	9.5	4.0	159	4.98	10.4	0.6	1.4	3.8	11.4	0.06	0.53	0.61	20	0.02	0.068
120059	Soil			0.60	26.30	45.17	53.0	262	9.4	4.0	119	4.08	6.3	0.7	0.7	4.2	8.5	0.02	0.33	0.55	16	<0.01	0.048
120060	Soil			0.89	60.02	74.18	120.5	316	31.1	20.8	1628	9.68	13.8	2.0	1.7	11.5	62.8	0.18	0.60	0.65	22	0.03	0.159
120061	Soil			1.39	73.55	76.36	74.1	205	9.8	3.9	205	10.42	23.0	1.1	1.3	6.6	22.2	0.09	1.02	0.71	28	0.02	0.092
119001	Soil			1.07	24.96	25.43	75.2	20	23.4	14.3	891	3.93	8.5	1.0	1.1	2.0	8.9	0.15	0.66	0.33	45	0.05	0.041
119002	Soil			0.87	32.50	27.28	94.2	47	18.0	14.7	874	5.73	5.2	0.6	0.5	3.7	5.2	0.12	0.46	0.43	42	0.03	0.064
119003	Soil			0.69	41.83	36.69	95.0	52	27.1	27.1	2209	4.76	5.2	0.7	1.1	3.9	4.4	0.15	0.37	0.42	32	0.02	0.069
119004	Soil			0.86	20.44	15.48	76.7	36	21.3	10.5	564	2.93	7.3	0.8	4.2	1.3	7.9	0.15	0.55	0.30	41	0.06	0.052
119005	Soil			0.65	29.85	33.98	95.9	75	23.8	16.2	1229	3.84	6.6	0.9	0.9	3.0	5.8	0.11	0.36	0.50	31	0.02	0.067
119006	Soil			0.96	25.88	29.64	101.3	28	25.7	18.1	871	3.58	6.2	0.6	1.0	2.1	6.6	0.17	0.50	0.31	37	0.04	0.044
119007	Soil			2.62	22.87	27.65	84.8	60	26.9	12.1	696	3.97	8.1	0.7	2.2	1.4	7.1	0.15	0.75	0.43	53	0.03	0.050
119008	Soil			1.17	32.23	47.83	90.9	59	31.3	22.0	1105	4.41	4.5	0.9	0.9	5.0	6.8	0.11	0.32	0.49	34	0.03	0.042
119009	Soil			0.97	26.84	24.38	96.7	72	20.4	11.5	790	3.81	6.7	0.6	1.1	2.4	5.7	0.22	0.51	0.43	34	0.03	0.085
119010	Soil			1.93	24.95	32.15	90.7	47	31.5	17.1	799	4.08	9.8	0.9	1.6	2.2	8.3	0.19	0.89	0.43	47	0.05	0.050
119011	Soil			0.76	27.29	27.05	107.2	78	18.2	10.0	577	3.33	6.7	0.7	1.5	2.0	7.0	0.17	0.31	0.48	33	0.03	0.088
119012	Soil			1.28	13.16	14.47	60.6	68	14.5	6.3	352	2.37	6.1	1.2	1.0	1.1	8.3	0.08	0.51	0.30	46	0.05	0.071
119013	Soil			0.89	32.17	31.87	86.2	100	30.5	21.9	1055	3.84	7.2	0.7	1.9	4.4	7.6	0.06	0.47	0.40	35	0.04	0.026
119014	Soil			1.52	18.68	18.46	93.7	58	16.5	8.9	500	3.88	9.3	0.6	0.5	3.2	6.5	0.16	0.76	0.38	52	0.04	0.030
119015	Soil			1.23	23.29	24.38	110.4	61	28.6	12.2	361	3.84	8.9	0.5	0.6	4.1	7.2	0.12	0.65	0.37	43	0.04	0.022
119016	Soil			1.10	24.08	33.26	130.7	85	26.6	14.9	519	3.58	8.2	0.9	0.6	2.0	12.2	0.25	0.57	0.38	32	0.07	0.048
119017	Soil			1.71	18.46	25.16	63.6	53	23.0	8.5	250	3.70	7.6	0.5	0.7	4.1	6.6	0.07	0.49	0.41	40	0.03	0.026
119018	Soil			1.14	21.39	22.17	85.0	88	22.4	12.3	441	3.41	8.6	0.7	1.5	4.3	7.3	0.10	0.53	0.36	42	0.04	0.025
119019	Soil			0.59	20.81	18.86	67.5	53	12.5	7.9	352	3.60	5.2	0.4	0.6	3.9	5.9	0.11	0.29	0.40	31	0.02	0.024
119020	Soil			0.85	19.26	18.55	64.2	18	19.9	9.4	331	3.09	5.4	0.6	0.8	4.2	8.1	0.06	0.34	0.35	33	0.05	0.013
119021	Soil			1.43	14.05	23.36	53.4	41	21.3	8.1	264	2.84	5.8	0.6	1.0	3.0	7.4	0.07	0.38	0.32	38	0.04	0.027
119022	Soil			0.83	19.51	17.57	90.7	96	24.9	12.3	251	3.59	4.6	0.4	4.0	3.3	4.4	0.06	0.25	0.35	28	0.03	0.015
119023	Soil			1.18	19.68	13.48	84.3	46	19.2	7.7	217	3.79	7.0	0.3	2.3	2.5	5.2	0.06	0.41	0.32	38	0.05	0.036
119024	Soil			0.97	14.77	19.36	57.3	44	9.8	7.0	219	2.88	5.2	0.3	0.3	2.7	2.8	0.08	0.34	0.36	44	0.02	0.020
119026	Soil			0.53	17.73	21.97	96.5	33	24.1	14.8	608	3.80	3.9	0.4	1.3	2.7	7.5	0.05	0.19	0.37	32	0.05	0.030
119027	Soil			1.22	16.78	19.80	69.6	113	26.0	9.0	225	3.92	6.4	0.4	1.3	2.5	4.1	0.07	0.33	0.31	31	0.03	0.023



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: July 06, 2011

Page: 7 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
120058	Soil	3.8	19.7	0.15	68.5	0.002	2	1.02	0.003	0.09	<0.1	3.3	0.31	0.03	31	0.7	0.06	4.1	4.03	<0.1	<0.02
120059	Soil	3.1	20.7	0.17	53.4	0.001	2	1.05	0.002	0.09	<0.1	4.0	0.19	0.03	22	0.4	0.03	4.1	3.46	<0.1	<0.02
120060	Soil	3.4	29.3	0.18	115.3	0.002	2	1.88	0.004	0.09	<0.1	11.1	0.31	0.16	52	0.8	0.05	5.1	3.91	<0.1	0.07
120061	Soil	3.9	30.9	0.15	69.2	0.003	2	1.13	0.002	0.06	<0.1	5.0	0.25	0.07	72	1.7	0.07	4.9	3.05	<0.1	0.05
119001	Soil	9.2	32.5	0.48	133.3	0.017	1	1.79	0.002	0.08	0.1	3.2	0.12	<0.02	23	0.4	<0.02	6.1	2.33	<0.1	<0.02
119002	Soil	5.2	34.8	0.32	99.4	0.005	1	2.08	0.004	0.11	<0.1	4.0	0.14	0.03	37	0.5	<0.02	10.1	3.07	<0.1	0.06
119003	Soil	4.5	35.6	0.44	98.9	0.005	2	2.30	0.002	0.14	<0.1	4.5	0.15	0.03	36	0.6	0.05	7.9	3.10	<0.1	0.08
119004	Soil	11.1	30.8	0.43	94.1	0.011	3	1.77	0.003	0.07	0.2	2.0	0.15	<0.02	25	0.6	0.02	6.0	2.29	<0.1	<0.02
119005	Soil	6.1	33.9	0.35	120.7	0.004	1	1.94	0.001	0.09	<0.1	3.9	0.13	0.05	37	0.5	0.05	7.4	2.58	<0.1	0.10
119006	Soil	7.6	33.6	0.43	109.7	0.012	1	1.86	0.001	0.08	<0.1	2.4	0.11	0.02	26	0.6	0.03	6.4	2.48	<0.1	<0.02
119007	Soil	8.5	46.3	0.30	98.9	0.013	2	1.76	0.002	0.10	0.1	2.4	0.15	0.03	37	0.7	0.05	7.8	2.09	<0.1	<0.02
119008	Soil	6.7	47.3	0.44	136.4	0.004	1	2.08	0.002	0.11	<0.1	4.4	0.13	0.02	44	0.5	0.03	8.1	3.55	<0.1	0.09
119009	Soil	6.3	30.9	0.34	126.6	0.005	2	1.93	0.001	0.11	<0.1	2.8	0.16	0.05	25	0.4	0.04	7.2	2.51	<0.1	0.06
119010	Soil	10.2	44.7	0.55	115.6	0.018	2	2.04	0.002	0.13	0.2	2.9	0.16	0.03	38	0.6	0.03	6.2	2.36	<0.1	<0.02
119011	Soil	6.3	30.4	0.30	184.0	0.004	<1	1.90	<0.001	0.12	<0.1	2.7	0.19	0.03	20	0.3	0.03	7.5	2.70	<0.1	0.08
119012	Soil	11.6	30.2	0.32	172.5	0.007	1	2.06	<0.001	0.06	0.1	1.8	0.24	0.02	50	0.5	<0.02	7.2	2.84	<0.1	0.03
119013	Soil	7.8	33.5	0.47	140.0	0.008	1	1.98	0.002	0.11	<0.1	3.9	0.14	<0.02	27	0.5	0.02	6.3	2.73	<0.1	0.05
119014	Soil	9.7	30.4	0.28	131.0	0.016	1	1.52	<0.001	0.10	0.2	2.6	0.12	<0.02	22	0.5	0.04	7.0	2.20	<0.1	<0.02
119015	Soil	6.8	35.4	0.45	125.1	0.008	2	2.05	0.001	0.09	0.1	3.0	0.11	<0.02	36	0.4	0.03	6.8	1.70	<0.1	0.05
119016	Soil	8.0	28.7	0.41	149.2	0.007	2	1.50	0.002	0.09	<0.1	2.8	0.12	<0.02	19	0.4	0.03	5.1	2.62	<0.1	<0.02
119017	Soil	8.3	34.8	0.24	101.8	0.006	<1	1.48	0.001	0.10	<0.1	2.5	0.12	<0.02	26	0.4	0.02	7.1	1.74	<0.1	0.03
119018	Soil	8.5	31.7	0.38	79.7	0.009	1	1.88	0.002	0.08	0.1	3.4	0.11	<0.02	34	0.6	0.03	5.9	1.89	<0.1	0.06
119019	Soil	5.7	23.6	0.20	107.1	0.002	<1	1.62	<0.001	0.08	<0.1	2.6	0.13	<0.02	16	0.3	<0.02	7.3	1.43	<0.1	0.05
119020	Soil	9.7	25.8	0.33	137.8	0.006	1	1.49	0.002	0.08	<0.1	3.0	0.11	<0.02	21	0.3	<0.02	5.9	1.26	<0.1	<0.02
119021	Soil	9.6	32.9	0.38	98.5	0.008	<1	1.74	0.001	0.09	0.1	2.7	0.14	<0.02	20	0.4	<0.02	6.2	1.84	<0.1	0.02
119022	Soil	4.6	29.1	0.38	77.5	0.004	<1	1.67	<0.001	0.08	<0.1	2.3	0.11	<0.02	22	<0.1	<0.02	5.9	1.21	<0.1	0.05
119023	Soil	5.2	29.6	0.35	106.4	0.005	<1	1.49	<0.001	0.09	<0.1	1.8	0.10	<0.02	32	<0.1	0.02	6.7	1.02	<0.1	0.03
119024	Soil	6.1	19.3	0.11	62.6	0.003	<1	1.66	<0.001	0.05	0.1	1.6	0.13	<0.02	24	0.2	0.03	6.8	1.15	<0.1	0.04
119026	Soil	4.2	32.2	0.38	123.7	0.002	<1	1.96	0.002	0.11	<0.1	3.0	0.13	<0.02	17	<0.1	<0.02	7.6	2.00	<0.1	0.05
119027	Soil	3.8	33.5	0.35	83.6	0.003	<1	1.64	0.001	0.07	0.1	2.1	0.08	<0.02	37	<0.1	0.04	5.9	1.60	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 7 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
120058	Soil	0.10	14.1	1.0	<0.05	0.9	2.79	8.7	0.06	<1	0.6	13.2	<10	<2
120059	Soil	0.06	11.6	1.2	<0.05	1.0	2.73	8.3	0.05	<1	0.5	19.0	<10	<2
120060	Soil	0.11	14.2	1.7	<0.05	3.1	6.86	10.0	0.10	<1	1.9	30.8	<10	<2
120061	Soil	0.19	10.7	1.2	<0.05	2.6	2.71	9.6	0.11	1	1.0	11.5	<10	<2
119001	Soil	0.43	15.2	1.1	<0.05	0.2	5.24	22.8	0.04	<1	1.1	25.8	<10	<2
119002	Soil	0.49	20.7	1.1	<0.05	1.5	4.62	13.3	0.04	<1	1.1	26.9	<10	<2
119003	Soil	0.41	25.0	1.5	<0.05	2.9	6.27	13.4	0.05	<1	1.4	31.3	<10	<2
119004	Soil	0.37	15.4	0.9	<0.05	0.3	4.27	22.9	0.02	1	0.8	22.3	<10	<2
119005	Soil	0.33	18.6	1.6	<0.05	3.2	7.15	15.9	0.04	<1	1.3	29.7	<10	<2
119006	Soil	0.35	17.6	1.4	<0.05	0.3	4.95	20.6	0.03	<1	0.7	36.1	11	<2
119007	Soil	0.56	20.7	5.9	<0.05	0.3	4.12	18.7	0.02	<1	0.5	18.3	<10	<2
119008	Soil	0.28	20.4	3.8	<0.05	3.2	6.31	18.2	0.03	<1	1.8	36.5	<10	<2
119009	Soil	0.58	24.8	2.1	<0.05	1.6	4.55	15.8	0.02	<1	1.2	27.4	<10	<2
119010	Soil	0.59	19.0	5.2	<0.05	0.3	4.89	25.4	0.02	<1	1.2	34.8	<10	<2
119011	Soil	0.33	25.8	1.7	<0.05	2.5	4.71	14.5	0.04	<1	0.8	21.0	<10	<2
119012	Soil	0.43	18.0	1.4	<0.05	1.0	3.82	23.6	0.03	<1	0.7	19.8	<10	<2
119013	Soil	0.32	18.9	2.0	<0.05	1.3	5.27	21.0	0.03	<1	1.4	32.4	<10	<2
119014	Soil	0.71	21.1	2.2	<0.05	0.8	2.92	19.7	0.02	<1	0.5	22.3	<10	<2
119015	Soil	0.52	15.2	2.1	<0.05	2.3	3.29	14.1	0.03	<1	0.5	33.3	<10	<2
119016	Soil	0.32	18.1	1.9	<0.05	0.5	6.78	18.2	0.02	<1	0.8	33.2	16	<2
119017	Soil	0.43	18.8	4.5	<0.05	1.7	3.05	16.5	0.02	<1	0.6	20.3	<10	<2
119018	Soil	0.54	19.3	1.8	<0.05	2.7	2.77	18.4	0.03	<1	0.7	27.8	<10	<2
119019	Soil	0.23	20.9	1.1	<0.05	2.3	3.30	11.9	0.02	<1	0.7	17.5	<10	<2
119020	Soil	0.35	17.4	1.6	<0.05	1.0	4.12	20.1	0.02	<1	0.7	21.1	<10	<2
119021	Soil	0.59	16.7	2.7	<0.05	0.9	3.24	19.1	<0.02	<1	0.5	25.2	<10	<2
119022	Soil	0.27	14.6	1.4	<0.05	2.2	2.74	10.5	0.03	<1	0.5	31.2	<10	<2
119023	Soil	0.56	12.4	1.9	<0.05	1.6	2.00	11.0	0.03	<1	0.6	20.2	<10	<2
119024	Soil	0.31	14.6	1.3	<0.05	1.6	2.08	12.8	0.03	<1	0.5	18.5	<10	<2
119026	Soil	0.26	20.3	1.5	<0.05	1.6	3.55	10.6	0.02	<1	1.4	29.0	<10	<2
119027	Soil	0.35	12.1	2.3	<0.05	1.5	2.15	8.7	0.04	<1	0.8	31.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 8 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
119028	Soil			0.77	14.60	17.14	87.1	134	24.4	12.0	377	3.37	3.7	0.3	0.5	2.3	11.5	0.06	0.20	0.31	30	0.12	0.025
119029	Soil			0.69	18.64	18.08	103.1	70	27.1	11.8	255	3.92	4.9	0.4	0.7	3.1	8.1	0.05	0.24	0.33	30	0.07	0.021
119030	Soil			0.61	24.27	21.22	78.2	23	30.4	14.8	594	3.37	3.2	0.4	0.4	3.8	10.0	0.02	0.12	0.35	23	0.09	0.014
119031	Soil			0.72	15.60	16.68	99.1	37	27.9	13.0	339	4.08	4.8	0.3	0.4	2.4	6.0	0.11	0.18	0.37	32	0.04	0.020
119032	Soil			0.55	12.55	14.44	68.9	118	23.2	9.4	179	3.22	5.7	0.3	<0.2	2.2	3.5	0.05	0.24	0.24	26	0.02	0.014
119033	Soil			2.05	27.46	32.74	82.0	65	30.5	12.2	884	4.08	8.9	0.7	1.0	0.6	5.5	0.18	0.60	0.30	30	0.04	0.100
119034	Soil			1.21	28.92	21.19	75.3	79	28.8	11.5	425	3.17	13.0	0.6	1.1	0.8	7.1	0.12	0.78	0.27	24	0.06	0.063
119035	Soil			1.92	13.98	12.84	52.4	56	22.4	5.6	161	2.09	5.7	0.3	0.8	0.2	4.3	0.12	0.41	0.15	19	0.04	0.045
119036	Soil			0.75	30.91	20.72	79.3	34	29.9	11.2	374	3.09	3.6	0.4	0.9	1.6	7.9	0.05	0.24	0.22	14	0.05	0.016
119037	Soil			1.30	25.87	26.59	75.2	36	32.7	13.3	487	3.42	9.8	0.6	2.2	1.8	7.9	0.14	0.64	0.27	29	0.05	0.044
119038	Soil			2.60	33.98	23.78	75.3	86	38.4	13.0	635	3.30	10.2	0.4	0.6	0.6	7.5	0.09	0.52	0.32	29	0.06	0.044
119039	Soil			2.48	24.56	19.49	69.2	95	28.8	9.4	711	3.05	7.5	0.4	1.5	0.9	3.5	0.09	0.44	0.24	27	0.02	0.042
119040	Soil			0.44	30.70	19.61	58.1	205	29.1	14.2	632	3.18	4.2	0.4	0.5	4.6	14.2	0.05	0.16	0.18	14	0.25	0.028
119041	Soil			0.98	27.18	20.99	78.7	225	28.0	13.0	731	3.50	10.0	1.0	1.5	1.8	74.5	0.18	0.56	0.29	19	1.66	0.072
119042	Soil			1.07	21.29	26.25	52.6	116	23.4	12.4	789	3.39	8.8	0.5	<0.2	2.7	38.0	0.09	0.28	0.19	12	0.63	0.059
119043	Soil			0.89	20.83	23.44	72.0	53	18.5	10.9	350	3.59	6.0	0.4	0.3	3.0	6.4	0.13	0.32	0.30	24	0.05	0.041
119044	Soil			1.34	28.55	25.98	71.4	223	33.0	14.8	463	3.66	9.2	0.8	0.4	3.3	77.6	0.13	0.29	0.30	13	1.35	0.053
119045	Soil			1.37	18.90	21.95	77.8	88	22.0	8.2	284	4.93	9.2	0.4	2.5	1.4	4.0	0.11	0.59	0.31	30	0.02	0.055
119046	Soil			0.75	18.78	23.97	55.2	50	18.4	8.1	166	3.78	9.4	0.4	0.8	2.2	4.5	0.07	0.39	0.34	28	0.02	0.031
119047	Soil			0.54	10.32	44.31	726.4	140	12.0	4.7	4615	5.25	13.1	0.8	0.9	0.8	39.9	2.83	2.09	0.12	17	9.28	0.140
119048	Soil			0.81	14.27	39.96	643.4	121	18.6	6.4	4288	9.48	36.7	1.1	3.3	1.3	50.9	2.19	2.94	0.20	37	2.17	0.164
119049	Soil			0.53	16.54	20.81	87.3	104	22.7	8.0	276	3.11	10.3	0.6	0.8	2.2	42.5	0.12	0.52	0.27	17	0.74	0.033
119051	Soil			0.89	22.30	31.51	170.3	137	27.6	9.4	812	3.09	12.4	0.9	2.2	1.9	58.2	0.40	0.87	0.23	18	2.92	0.080
119052	Soil			1.12	14.50	56.26	429.2	135	19.1	6.3	946	2.15	14.6	1.1	6.9	0.5	104.6	1.17	1.60	0.14	13	7.68	0.108
119053	Soil			0.71	24.32	25.18	116.8	178	26.6	8.6	358	2.86	11.6	0.8	1.7	1.4	69.7	0.27	0.84	0.27	16	1.48	0.085
119054	Soil			0.72	18.37	18.60	76.0	55	19.8	6.6	205	2.55	6.8	0.5	0.6	0.9	27.3	0.12	0.39	0.23	19	0.33	0.074
119055	Soil			2.31	29.58	29.92	82.6	83	36.2	12.0	456	3.47	8.5	0.8	1.5	0.8	8.2	0.17	0.59	0.27	27	0.09	0.089
119056	Soil			1.42	25.25	16.76	76.5	75	24.1	8.2	260	2.75	10.1	0.6	1.6	0.4	7.1	0.12	0.65	0.24	33	0.06	0.078
119057	Soil			2.48	28.19	34.09	70.5	103	30.1	13.6	1196	3.38	9.1	0.7	1.7	0.3	5.3	0.16	0.60	0.29	31	0.03	0.104
119058	Soil			1.74	23.32	18.03	57.0	135	22.6	8.2	530	3.07	6.8	1.0	3.2	0.2	5.3	0.12	0.57	0.22	28	0.05	0.120



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: July 06, 2011

Page: 8 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
119028	Soil	4.3	32.4	0.38	207.0	0.003	<1	1.85	0.002	0.13	<0.1	2.5	0.10	<0.02	15	<0.1	0.02	7.0	1.00	<0.1	0.03
119029	Soil	5.8	32.1	0.43	178.7	0.004	<1	1.86	0.002	0.13	<0.1	2.8	0.11	<0.02	18	0.1	<0.02	7.2	1.54	<0.1	0.04
119030	Soil	3.7	31.2	0.49	219.9	0.006	<1	1.58	0.002	0.08	<0.1	2.9	0.09	<0.02	17	<0.1	<0.02	6.1	1.30	<0.1	0.05
119031	Soil	4.3	37.3	0.48	144.9	0.003	<1	1.94	0.002	0.09	<0.1	2.7	0.08	<0.02	24	0.1	<0.02	8.2	1.79	<0.1	0.02
119032	Soil	4.2	26.9	0.41	125.1	0.003	<1	1.78	<0.001	0.05	<0.1	2.0	0.09	<0.02	388	<0.1	<0.02	5.4	0.99	<0.1	0.04
119033	Soil	6.2	36.5	0.28	60.0	0.006	<1	1.52	0.001	0.05	<0.1	1.2	0.11	0.05	41	0.4	0.06	4.0	2.38	<0.1	<0.02
119034	Soil	5.0	22.1	0.23	63.4	0.004	<1	1.02	0.001	0.05	<0.1	1.9	0.08	0.03	46	0.2	0.04	3.0	1.90	<0.1	<0.02
119035	Soil	2.9	22.6	0.03	52.1	0.004	<1	0.41	0.002	0.04	<0.1	1.0	0.08	0.04	22	0.2	0.02	2.3	2.16	<0.1	<0.02
119036	Soil	2.9	17.5	0.07	48.8	0.001	<1	0.33	0.001	0.05	<0.1	2.4	0.05	<0.02	19	0.1	<0.02	1.1	0.85	<0.1	<0.02
119037	Soil	7.1	29.7	0.35	84.8	0.005	<1	1.46	0.001	0.05	<0.1	2.6	0.13	0.02	75	0.3	0.04	4.1	3.16	<0.1	0.02
119038	Soil	3.7	42.4	0.14	83.0	0.005	<1	0.82	0.001	0.07	<0.1	2.0	0.11	0.03	33	0.3	0.06	4.2	2.44	<0.1	<0.02
119039	Soil	3.5	34.1	0.08	44.1	0.007	<1	0.65	<0.001	0.06	<0.1	1.9	0.08	0.03	70	0.2	0.05	4.1	2.42	<0.1	<0.02
119040	Soil	6.7	20.1	0.28	98.6	0.002	1	1.00	<0.001	0.05	<0.1	7.3	0.07	<0.02	59	0.3	0.03	3.0	1.75	<0.1	0.06
119041	Soil	9.8	18.7	0.31	179.7	0.003	<1	0.98	0.002	0.05	<0.1	4.8	0.08	0.04	122	0.5	0.05	2.5	0.61	<0.1	0.07
119042	Soil	8.5	16.3	0.20	79.0	0.002	<1	0.80	0.001	0.05	<0.1	4.2	0.09	0.05	60	0.2	0.04	2.1	1.35	<0.1	0.04
119043	Soil	2.7	21.0	0.23	89.1	0.002	1	1.34	<0.001	0.06	<0.1	3.0	0.11	<0.02	13	0.2	0.04	4.6	2.41	<0.1	0.04
119044	Soil	18.1	24.5	0.25	89.6	0.001	<1	0.92	0.002	0.06	<0.1	8.9	0.11	0.04	42	0.5	0.08	2.1	0.94	<0.1	0.04
119045	Soil	5.3	32.5	0.25	40.7	0.015	<1	1.25	0.001	0.06	<0.1	2.0	0.06	0.02	39	0.5	<0.02	4.4	2.17	<0.1	<0.02
119046	Soil	4.5	18.3	0.19	86.7	0.002	<1	1.55	<0.001	0.04	<0.1	2.5	0.19	<0.02	39	0.3	0.05	4.3	1.70	<0.1	0.03
119047	Soil	10.7	14.1	4.69	103.0	0.004	<1	0.86	0.008	0.03	<0.1	1.4	0.05	0.05	350	0.5	0.02	1.7	0.42	<0.1	0.05
119048	Soil	12.7	26.0	0.61	212.1	0.007	<1	1.48	0.003	0.04	<0.1	3.6	0.08	0.08	241	0.7	0.08	3.3	0.53	0.1	0.06
119049	Soil	7.0	16.9	0.30	185.5	0.003	<1	0.99	0.002	0.08	<0.1	3.7	0.08	0.02	111	<0.1	<0.02	2.6	0.74	<0.1	0.05
119051	Soil	11.3	15.9	1.36	136.0	0.005	1	0.85	0.004	0.06	<0.1	3.2	0.10	0.03	213	0.3	0.06	1.9	1.25	0.1	0.06
119052	Soil	7.2	15.4	3.00	93.0	0.005	<1	0.48	0.007	0.04	<0.1	0.9	0.07	0.05	396	0.6	0.04	1.2	0.93	<0.1	0.02
119053	Soil	10.2	13.5	0.29	126.7	0.004	<1	0.80	0.004	0.05	<0.1	3.0	0.09	0.07	181	0.4	0.02	2.0	0.88	<0.1	0.07
119054	Soil	4.0	16.1	0.20	93.9	0.003	<1	0.98	0.002	0.04	<0.1	1.7	0.10	0.04	29	0.2	0.02	2.6	1.90	<0.1	0.03
119055	Soil	6.7	36.9	0.23	54.5	0.005	<1	1.19	0.001	0.05	0.1	1.7	0.09	0.04	32	0.3	0.06	3.1	2.61	<0.1	<0.02
119056	Soil	6.4	23.3	0.25	68.7	0.005	<1	1.24	0.002	0.05	<0.1	1.1	0.11	0.05	33	0.3	0.08	3.9	1.72	<0.1	<0.02
119057	Soil	4.5	39.2	0.20	57.3	0.008	<1	1.19	0.002	0.07	<0.1	1.0	0.09	0.08	60	0.4	0.06	4.0	2.57	<0.1	<0.02
119058	Soil	5.5	30.8	0.24	58.1	0.005	<1	1.33	0.002	0.04	<0.1	0.5	0.09	0.12	48	0.4	0.04	3.9	1.79	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 8 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
119028	Soil	0.24	14.2	2.0	<0.05	0.9	2.37	9.5	0.03	<1	1.1	26.9	<10	<2
119029	Soil	0.42	19.3	1.5	<0.05	1.4	4.09	14.5	0.02	<1	1.0	36.4	<10	<2
119030	Soil	0.21	10.6	1.1	<0.05	1.7	4.47	12.5	0.02	<1	1.0	28.1	<10	<2
119031	Soil	0.31	13.7	1.7	<0.05	0.9	2.23	9.6	0.03	<1	0.6	32.4	<10	<2
119032	Soil	0.28	14.5	0.8	<0.05	1.1	1.83	9.1	<0.02	<1	0.7	34.8	<10	<2
119033	Soil	0.25	9.4	3.3	<0.05	0.4	5.91	18.8	0.03	<1	1.0	21.2	<10	<2
119034	Soil	0.16	7.3	1.7	<0.05	0.5	4.79	13.6	0.03	<1	0.7	17.5	<10	<2
119035	Soil	0.14	8.4	1.3	<0.05	0.2	1.46	5.9	0.02	<1	0.2	0.8	<10	<2
119036	Soil	0.05	3.9	1.3	<0.05	0.4	2.90	7.4	0.03	<1	0.5	5.4	<10	<2
119037	Soil	0.38	9.3	1.6	<0.05	0.6	4.55	22.8	0.03	<1	0.8	30.2	<10	<2
119038	Soil	0.22	10.4	3.1	<0.05	0.1	2.79	9.1	0.03	<1	0.4	8.1	<10	<2
119039	Soil	0.33	10.2	3.6	<0.05	0.2	1.95	7.5	0.03	<1	0.3	4.3	<10	<2
119040	Soil	0.08	5.6	1.2	<0.05	1.6	17.70	20.4	0.04	<1	0.9	28.0	<10	<2
119041	Soil	0.20	6.0	1.1	<0.05	1.5	21.50	19.6	0.03	<1	0.9	9.4	<10	<2
119042	Soil	0.10	5.4	1.8	<0.05	0.9	9.80	38.8	0.03	<1	0.9	19.8	<10	<2
119043	Soil	0.17	12.9	1.4	<0.05	1.1	3.51	8.8	0.04	<1	0.7	31.5	<10	<2
119044	Soil	0.08	6.6	3.8	<0.05	1.4	25.05	59.0	0.05	<1	1.0	19.2	<10	<2
119045	Soil	0.81	9.3	2.3	<0.05	0.3	2.29	12.4	0.03	<1	0.4	14.1	<10	<2
119046	Soil	0.31	9.5	0.9	<0.05	1.2	3.35	11.1	0.04	<1	0.7	17.6	<10	<2
119047	Soil	0.10	3.3	0.8	<0.05	1.7	11.45	25.8	<0.02	<1	0.5	3.4	36	<2
119048	Soil	0.32	5.7	0.8	<0.05	1.9	17.50	24.0	0.04	<1	1.3	5.8	29	<2
119049	Soil	0.28	7.7	1.1	<0.05	1.4	7.47	14.1	0.03	<1	0.9	11.0	<10	<2
119051	Soil	0.17	6.7	1.6	<0.05	1.7	13.57	22.3	0.03	<1	0.7	8.9	<10	<2
119052	Soil	0.12	3.3	2.5	<0.05	0.9	8.48	15.8	<0.02	<1	0.3	4.9	21	<2
119053	Soil	0.21	6.1	1.5	<0.05	1.9	14.62	19.4	0.03	<1	0.7	10.5	<10	<2
119054	Soil	0.18	9.4	1.2	<0.05	1.0	3.82	9.3	0.03	<1	0.6	16.4	<10	<2
119055	Soil	0.19	7.9	7.3	<0.05	0.4	6.05	19.4	0.02	<1	0.8	18.2	<10	<2
119056	Soil	0.23	8.4	1.3	<0.05	0.3	3.87	14.6	0.02	<1	0.7	17.5	<10	<2
119057	Soil	0.29	8.9	7.3	<0.05	0.2	3.04	11.1	<0.02	<1	0.7	12.4	<10	<2
119058	Soil	0.34	7.9	3.0	<0.05	0.2	5.43	12.4	0.03	<1	0.9	13.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: July 06, 2011

Page: 9 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
119059	Soil	1.43	22.74	19.66	73.7	35	22.1	11.2	721	4.08	9.8	0.6	3.6	0.8	10.8	0.20	0.90	0.31	47	0.07	0.053
119060	Soil	1.23	42.89	25.47	91.4	254	37.7	15.0	364	3.55	15.0	0.8	3.8	4.2	49.4	0.15	0.85	0.30	28	0.48	0.049
119061	Soil	0.76	37.41	24.28	83.4	77	32.3	17.6	896	3.70	13.9	0.8	1.7	4.0	34.3	0.15	0.54	0.34	22	0.45	0.062
119062	Soil	1.90	47.81	62.33	93.1	109	35.1	32.8	2528	4.03	19.6	0.7	1.1	3.1	18.3	0.13	0.84	0.35	30	0.12	0.088
119063	Soil	0.99	33.69	36.87	97.0	50	26.7	16.8	1159	4.13	13.9	0.7	1.0	2.4	13.0	0.10	0.74	0.36	28	0.04	0.109
119064	Soil	0.58	39.50	19.55	75.3	20	28.4	13.8	213	3.69	5.7	0.4	1.0	2.5	12.5	0.06	0.28	0.38	25	0.03	0.034
119065	Soil	0.69	52.29	23.94	95.0	56	33.6	16.5	296	3.44	6.8	0.7	0.8	3.5	44.7	0.07	0.33	0.51	20	0.05	0.026
119066	Soil	2.03	35.32	40.40	82.0	95	32.8	18.7	1464	3.51	8.5	0.5	0.8	1.4	26.3	0.15	0.40	0.40	24	0.06	0.083
119067	Soil	1.27	23.86	24.45	57.1	69	14.4	9.2	525	4.49	9.7	0.4	1.7	2.8	8.3	0.07	0.69	0.38	45	0.03	0.061
119068	Soil	1.54	19.21	15.72	53.2	29	11.4	4.9	305	3.09	9.0	0.6	1.0	0.2	8.2	0.07	0.92	0.40	57	0.03	0.062
119069	Soil	1.61	31.19	23.83	101.0	46	26.3	11.7	597	3.97	13.8	0.9	1.4	1.0	12.9	0.26	1.05	0.36	50	0.06	0.074
119070	Soil	1.38	24.80	20.12	85.2	56	15.2	11.3	916	4.73	9.2	0.5	1.2	2.0	9.0	0.12	0.81	0.43	51	0.03	0.061
119071	Soil	1.27	17.89	17.62	58.8	31	19.3	7.3	294	3.10	9.4	0.7	0.9	0.8	11.7	0.09	0.74	0.32	51	0.09	0.054
119072	Soil	0.71	33.59	22.26	80.6	43	26.3	10.9	451	3.03	15.1	1.2	2.5	3.1	22.0	0.26	4.58	0.30	28	0.15	0.034
119073	Soil	1.19	18.05	29.68	60.8	13	12.3	6.6	191	2.83	16.4	0.7	0.9	2.6	14.9	0.10	3.20	0.33	43	0.12	0.027
119074	Soil	0.99	20.97	21.45	69.7	42	21.2	9.5	464	3.21	14.0	1.3	1.3	2.8	28.4	0.10	0.94	0.32	37	0.29	0.046
119076	Soil	1.32	23.60	20.28	75.1	285	20.7	8.4	318	2.68	22.9	3.9	5.4	2.6	71.2	0.32	1.64	0.26	35	0.53	0.073
119077	Soil	1.02	22.33	20.06	88.0	60	20.9	9.8	380	2.94	72.9	4.1	1.8	2.0	70.0	0.30	3.72	0.26	35	0.60	0.039
119078	Soil	1.42	15.72	17.37	58.2	83	25.8	8.5	412	2.88	16.6	1.6	3.1	1.4	20.9	0.16	1.29	0.23	44	0.20	0.054
119079	Soil	1.08	28.61	13.85	78.0	126	20.0	8.6	361	2.53	10.4	1.3	2.8	4.0	31.5	0.31	0.46	0.17	34	0.38	0.059
119080	Soil	0.79	34.76	16.80	101.8	249	26.3	10.4	418	2.80	26.6	1.7	5.5	5.0	33.9	0.29	0.76	0.19	33	0.40	0.055
119081	Soil	1.57	27.53	22.63	85.9	150	32.0	9.9	418	2.70	25.2	2.1	8.0	2.1	45.9	0.23	2.01	0.25	25	0.41	0.072
119082	Soil	1.08	26.37	20.03	101.8	170	25.4	10.4	471	2.79	20.1	7.4	2.8	1.9	71.0	0.48	0.74	0.23	29	0.60	0.057
119083	Soil	1.22	26.48	17.59	76.7	149	24.5	8.8	286	3.02	22.5	1.2	4.1	1.5	18.1	0.12	1.92	0.26	38	0.06	0.047
119084	Soil	2.49	47.22	21.02	116.1	409	34.7	11.1	310	2.59	57.6	1.2	13.6	1.4	76.7	0.34	2.85	0.21	24	0.66	0.053
119085	Soil	0.55	50.31	24.83	91.0	64	35.0	16.3	570	3.94	35.9	1.5	4.5	3.9	41.4	0.14	1.05	0.33	21	0.20	0.015
119086	Soil	1.46	57.50	32.96	101.8	132	49.7	29.7	599	4.07	26.1	0.6	2.5	2.4	101.3	0.10	0.62	0.38	16	1.83	0.026
119087	Soil	2.58	38.38	30.75	115.7	46	52.3	22.1	290	5.14	16.9	0.5	1.0	2.6	10.8	0.05	0.40	0.36	24	0.04	0.033
119088	Soil	0.89	14.95	13.55	38.1	23	12.4	5.8	139	1.90	29.1	0.3	0.7	2.4	9.0	0.05	0.73	0.19	21	0.01	0.014
119089	Soil	1.05	27.00	24.60	75.3	85	22.8	11.7	516	3.50	7.8	0.3	0.6	2.2	15.5	0.14	0.34	0.26	27	0.19	0.039



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: July 06, 2011

Page: 9 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
119059	Soil	9.3	32.0	0.50	77.4	0.013	3	1.99	<0.001	0.08	0.1	1.9	0.12	0.02	18	0.4	0.05	5.4	2.75	<0.1	<0.02
119060	Soil	13.7	22.0	0.47	145.2	0.009	3	1.33	0.005	0.08	<0.1	8.9	0.09	0.03	83	0.6	0.06	3.7	1.86	<0.1	0.05
119061	Soil	8.3	23.0	0.49	132.6	0.002	4	1.57	0.001	0.11	<0.1	8.4	0.09	0.04	39	0.3	0.05	4.2	1.31	<0.1	0.05
119062	Soil	6.7	37.9	0.56	123.7	0.007	5	1.99	0.001	0.11	<0.1	5.1	0.16	0.05	98	0.5	0.07	5.4	7.48	<0.1	0.02
119063	Soil	6.2	26.5	0.39	85.0	0.003	3	1.63	<0.001	0.09	<0.1	3.7	0.14	0.03	41	0.4	0.08	4.7	4.75	<0.1	0.07
119064	Soil	5.0	26.5	0.31	52.5	0.002	1	1.50	<0.001	0.07	<0.1	2.7	0.11	<0.02	26	<0.1	0.04	5.0	3.72	<0.1	0.04
119065	Soil	7.6	16.6	0.06	83.3	<0.001	2	0.41	0.002	0.08	<0.1	3.3	0.07	<0.02	17	0.2	0.05	2.1	1.97	<0.1	<0.02
119066	Soil	4.5	36.8	0.30	78.1	0.004	4	1.18	0.002	0.11	<0.1	3.0	0.09	0.06	50	0.3	0.07	3.9	4.33	<0.1	0.02
119067	Soil	7.1	25.2	0.21	53.4	0.006	2	1.40	<0.001	0.09	<0.1	2.5	0.11	0.03	46	0.2	0.08	6.9	2.99	<0.1	0.02
119068	Soil	10.8	21.9	0.17	68.9	0.010	2	1.31	<0.001	0.08	0.1	0.8	0.16	0.05	26	0.4	0.05	7.8	2.72	<0.1	<0.02
119069	Soil	9.9	34.4	0.50	97.6	0.012	3	2.14	<0.001	0.10	0.1	2.4	0.16	0.05	43	0.7	0.07	6.0	4.52	<0.1	<0.02
119070	Soil	7.5	28.5	0.28	71.0	0.014	4	1.71	<0.001	0.12	<0.1	2.9	0.13	0.03	32	0.4	0.09	8.3	4.09	<0.1	<0.02
119071	Soil	11.8	26.2	0.36	116.2	0.012	2	1.83	<0.001	0.05	0.1	1.9	0.16	0.03	34	0.3	0.06	6.1	2.14	<0.1	<0.02
119072	Soil	10.2	18.6	0.29	205.7	0.003	3	1.46	0.001	0.07	<0.1	3.7	0.13	<0.02	190	0.2	0.06	3.2	2.86	<0.1	0.04
119073	Soil	8.7	13.7	0.08	113.1	0.005	2	1.28	<0.001	0.05	0.1	1.8	0.17	<0.02	28	<0.1	0.07	5.3	1.69	<0.1	<0.02
119074	Soil	10.9	22.8	0.32	127.1	0.005	2	1.67	<0.001	0.07	<0.1	3.4	0.16	<0.02	58	0.1	0.05	4.7	2.55	<0.1	<0.02
119076	Soil	13.8	24.2	0.18	165.1	0.003	2	1.40	0.001	0.06	<0.1	4.0	0.16	0.04	307	0.4	0.03	4.1	1.42	<0.1	0.03
119077	Soil	9.8	22.2	0.29	130.8	0.005	2	1.32	<0.001	0.06	<0.1	3.7	0.14	0.03	123	0.3	0.04	4.1	1.19	<0.1	0.03
119078	Soil	14.3	29.0	0.37	132.0	0.015	2	2.09	<0.001	0.05	0.1	3.0	0.15	0.04	87	0.6	0.04	4.5	1.34	<0.1	<0.02
119079	Soil	27.0	29.9	0.42	182.3	0.003	2	1.17	<0.001	0.09	<0.1	4.5	0.15	0.03	49	0.7	<0.02	3.6	0.95	<0.1	0.06
119080	Soil	22.4	30.2	0.22	158.2	0.002	2	0.99	0.001	0.08	<0.1	6.1	0.27	0.03	373	1.1	0.02	2.6	1.46	<0.1	0.06
119081	Soil	13.4	31.2	0.29	162.2	0.004	2	1.04	0.001	0.09	<0.1	4.1	0.12	0.03	175	0.7	<0.02	3.0	1.05	<0.1	0.03
119082	Soil	11.8	21.8	0.23	299.9	0.003	2	1.23	0.002	0.07	<0.1	3.1	0.13	0.04	136	0.4	0.04	2.9	0.59	<0.1	0.03
119083	Soil	9.8	24.9	0.28	100.7	0.006	2	1.52	<0.001	0.07	<0.1	2.9	0.19	0.03	68	0.5	0.05	4.8	1.88	<0.1	<0.02
119084	Soil	6.9	22.8	0.29	92.5	0.002	2	0.42	0.002	0.07	<0.1	6.8	0.42	0.04	244	1.3	0.03	1.4	0.56	<0.1	0.03
119085	Soil	9.0	18.4	0.24	114.6	0.002	2	0.95	<0.001	0.07	<0.1	5.8	0.08	<0.02	204	0.7	0.05	2.8	1.07	<0.1	0.03
119086	Soil	3.6	17.7	0.10	172.9	<0.001	4	0.46	0.002	0.10	<0.1	9.8	0.13	0.03	196	0.5	0.05	1.5	1.39	<0.1	<0.02
119087	Soil	4.9	37.7	0.09	33.7	<0.001	2	0.49	0.001	0.07	<0.1	3.8	0.10	<0.02	186	<0.1	0.03	2.9	4.70	<0.1	<0.02
119088	Soil	6.2	10.6	0.03	33.6	0.002	1	0.56	0.001	0.06	<0.1	1.5	0.07	<0.02	21	<0.1	0.04	2.5	2.76	<0.1	<0.02
119089	Soil	3.8	25.2	0.26	129.3	0.003	3	1.26	<0.001	0.13	<0.1	3.8	0.08	0.02	37	0.2	0.04	5.0	3.37	<0.1	0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: July 06, 2011

Page: 9 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
119059	Soil	0.42	12.7	1.8	<0.05	0.2	3.16	20.3	0.04	<1	0.7	34.3	<10	<2
119060	Soil	0.42	8.1	1.4	<0.05	2.5	21.10	23.2	0.04	<1	1.0	26.8	<10	<2
119061	Soil	0.17	9.6	1.6	<0.05	1.9	15.15	23.9	0.04	<1	1.4	37.6	<10	<2
119062	Soil	0.32	15.4	8.3	<0.05	0.9	7.55	24.2	0.03	<1	2.0	47.9	<10	<2
119063	Soil	0.24	16.2	2.7	<0.05	2.0	6.77	16.2	0.03	<1	1.0	37.1	<10	<2
119064	Soil	0.19	11.9	1.4	<0.05	1.7	2.75	10.7	0.03	<1	0.8	33.4	<10	<2
119065	Soil	0.03	6.9	1.6	<0.05	0.3	3.76	17.0	0.03	<1	1.3	3.8	<10	<2
119066	Soil	0.21	12.1	7.0	<0.05	0.6	3.48	10.4	0.02	<1	1.1	22.7	<10	<2
119067	Soil	0.57	15.3	2.7	<0.05	1.1	2.40	13.8	0.03	<1	0.5	17.3	<10	<2
119068	Soil	0.36	14.1	1.4	<0.05	0.1	3.01	20.3	0.02	<1	0.2	8.2	<10	<2
119069	Soil	0.55	15.5	1.8	<0.05	0.3	5.31	22.4	0.03	<1	0.8	30.4	<10	<2
119070	Soil	0.64	20.4	2.5	<0.05	0.3	2.53	16.1	0.03	<1	0.3	17.7	<10	<2
119071	Soil	0.45	9.4	1.3	<0.05	0.2	4.45	30.3	0.03	<1	0.8	21.0	<10	<2
119072	Soil	0.23	11.2	0.8	<0.05	1.1	6.08	31.5	0.04	<1	1.0	17.8	<10	<2
119073	Soil	0.57	10.1	1.1	<0.05	0.9	2.63	24.8	0.02	<1	0.2	8.0	<10	<2
119074	Soil	0.35	14.4	1.0	<0.05	0.8	6.62	32.2	0.04	<1	0.8	24.6	<10	<2
119076	Soil	0.41	12.2	1.4	<0.05	1.0	7.79	38.0	0.03	<1	1.0	14.5	<10	<2
119077	Soil	0.43	8.9	0.9	<0.05	0.8	6.17	28.2	0.04	<1	0.6	14.0	<10	<2
119078	Soil	0.72	7.7	1.2	<0.05	0.4	6.66	41.5	0.03	<1	0.7	14.6	<10	<2
119079	Soil	0.20	15.5	1.0	<0.05	1.7	11.55	51.9	0.03	<1	1.2	24.2	<10	<2
119080	Soil	0.12	13.0	1.0	<0.05	1.7	11.49	53.5	0.04	<1	1.2	12.5	<10	<2
119081	Soil	0.26	9.0	3.5	<0.05	1.0	9.60	31.6	0.02	<1	0.6	13.1	<10	<2
119082	Soil	0.23	9.6	0.9	<0.05	1.4	6.72	35.5	0.04	<1	0.9	11.9	<10	<2
119083	Soil	0.35	11.2	1.4	<0.05	0.6	4.57	23.8	0.03	<1	0.4	15.5	<10	<2
119084	Soil	0.10	6.4	2.2	<0.05	1.2	11.22	15.8	0.04	<1	0.9	4.4	<10	<2
119085	Soil	0.08	6.3	1.4	<0.05	2.4	8.88	17.8	0.04	<1	1.2	13.3	<10	<2
119086	Soil	0.03	6.5	3.0	<0.05	1.3	15.97	9.0	0.04	<1	1.2	4.8	<10	<2
119087	Soil	0.07	10.9	4.3	<0.05	0.2	2.89	10.9	0.04	<1	0.6	4.7	<10	<2
119088	Soil	0.16	11.7	1.3	<0.05	0.5	1.39	12.3	<0.02	<1	0.2	2.5	<10	<2
119089	Soil	0.23	16.3	2.8	<0.05	0.7	2.84	8.7	0.04	<1	0.5	28.5	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: July 06, 2011

Page: 10 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
119090	Soil	0.37	19.17	35.72	407.9	72	23.2	9.0	905	2.64	31.0	0.9	13.6	2.4	34.9	2.08	2.19	0.21	14	4.80	0.073
119091	Soil	0.96	30.83	32.15	113.5	189	39.2	13.4	386	2.86	22.5	0.7	0.4	1.8	58.8	0.25	0.58	0.32	12	0.73	0.051
119092	Soil	0.60	33.99	35.10	107.9	216	30.6	13.1	386	3.77	7.3	0.6	1.2	3.5	80.4	0.17	0.40	0.37	12	1.20	0.065
119093	Soil	0.49	25.32	25.29	78.1	50	17.8	7.7	153	2.72	6.1	0.4	0.8	2.3	23.5	0.07	0.29	0.30	12	0.05	0.029
119094	Soil	1.12	35.24	42.88	90.7	148	21.5	20.9	1399	3.79	10.5	0.9	0.7	2.1	12.0	0.10	0.58	0.33	25	0.03	0.091
119095	Soil	1.52	31.60	32.99	89.7	236	35.0	15.0	773	3.32	10.1	1.0	2.0	2.9	32.8	0.16	0.53	0.39	14	0.56	0.066
119096	Soil	0.98	39.11	36.95	123.8	275	37.4	13.9	580	4.54	11.0	1.2	0.6	2.7	58.5	0.22	0.50	0.37	20	1.01	0.089
119097	Soil	0.61	37.89	30.94	115.4	225	34.1	13.2	341	4.06	11.2	0.9	0.6	2.8	105.5	0.16	0.49	0.36	17	0.98	0.078
119098	Soil	0.61	30.93	21.96	83.1	87	28.9	12.8	371	3.18	8.6	0.7	1.0	3.8	19.6	0.12	0.46	0.30	19	0.15	0.045
119099	Soil	0.70	27.78	23.08	82.6	65	28.3	11.7	413	3.13	10.0	0.7	<0.2	2.2	10.9	0.19	0.54	0.29	20	0.08	0.056
118551	Soil	1.24	26.28	28.62	96.3	49	28.3	16.5	878	4.59	9.3	0.8	0.7	1.6	8.0	0.19	0.73	0.38	48	0.05	0.052
118552	Soil	1.40	81.70	34.67	91.8	139	61.3	30.8	808	3.44	12.8	1.2	2.9	5.8	12.3	0.17	0.96	0.48	22	0.43	0.046
118553	Soil	0.53	37.61	30.83	96.3	23	37.2	26.0	1409	4.55	2.9	0.6	0.4	3.8	13.8	0.03	0.15	0.37	29	0.05	0.032
118554	Soil	1.07	33.25	66.22	92.3	122	42.2	30.6	5421	4.77	9.1	1.1	1.0	5.0	13.0	0.09	0.40	0.39	31	0.13	0.056
118555	Soil	0.74	24.77	57.57	74.9	55	22.2	12.8	512	3.55	6.7	0.7	0.2	3.4	20.6	0.09	0.39	0.48	31	0.03	0.041
118556	Soil	1.52	20.85	22.97	84.3	34	22.4	11.6	636	4.76	9.6	0.6	0.6	3.8	7.5	0.15	0.83	0.45	51	0.04	0.040
118557	Soil	1.14	18.35	15.69	64.6	39	10.8	7.0	485	3.40	6.6	0.5	<0.2	3.2	6.2	0.08	0.51	0.41	50	0.03	0.039
118558	Soil	0.57	47.79	45.48	70.3	216	9.5	3.2	56	8.37	11.3	0.5	<0.2	6.7	8.3	0.02	0.30	0.63	23	0.01	0.040
118559	Soil	0.96	30.76	32.80	153.8	246	50.3	19.0	1539	5.40	8.6	1.8	<0.2	11.1	62.4	0.24	0.18	0.39	13	0.64	0.172
118560	Soil	1.05	23.91	28.80	93.6	135	25.6	10.4	298	4.10	7.7	0.7	0.6	4.0	12.6	0.17	0.59	0.39	28	0.03	0.039
118561	Soil	0.69	17.38	46.47	72.2	158	40.3	21.6	667	2.94	16.2	0.6	1.0	6.7	51.1	0.06	0.59	0.36	6	2.91	0.036
118562	Soil	1.07	47.52	75.27	158.5	138	47.1	27.0	665	5.22	22.0	1.1	0.3	3.4	33.0	0.10	0.74	0.36	25	0.08	0.053
118563	Soil	0.91	38.05	39.55	106.2	154	41.3	20.6	794	4.03	13.6	1.1	0.4	3.6	37.5	0.10	0.53	0.35	20	0.38	0.055
118564	Soil	1.31	38.05	44.02	112.9	594	47.4	19.3	1161	4.20	14.3	1.2	<0.2	6.4	38.4	0.26	0.62	0.34	22	0.27	0.093
118565	Soil	0.69	28.01	29.16	106.2	149	35.3	15.0	1064	3.69	9.6	0.7	0.8	3.4	55.6	0.16	0.62	0.32	23	1.55	0.073
118566	Soil	0.54	33.67	31.55	123.3	185	40.0	15.7	595	4.22	7.7	0.6	0.3	4.9	47.2	0.13	0.31	0.38	16	0.43	0.072
118567	Soil	0.54	24.66	60.17	223.6	230	28.4	12.6	1385	2.88	14.1	3.0	3.2	2.4	143.3	0.37	2.11	0.22	15	11.49	0.227
118568	Soil	0.91	29.46	22.79	93.6	129	16.6	10.1	1808	3.97	8.4	0.5	<0.2	0.3	14.5	0.32	0.53	0.27	34	0.07	0.135
118569	Soil	1.08	32.09	51.22	116.6	579	14.2	7.7	285	7.26	10.7	0.4	<0.2	3.0	7.3	0.07	0.48	0.54	22	0.02	0.081
118570	Soil	0.92	22.74	43.03	94.4	119	27.1	14.5	876	5.11	9.9	0.8	<0.2	2.2	7.1	0.13	0.58	0.40	30	0.04	0.079



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Project: SCARLETT
 Report Date: July 06, 2011

Page: 10 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
119090	Soil	6.6	13.5	2.73	98.5	0.004	3	1.01	0.006	0.08	<0.1	2.5	0.09	<0.02	677	0.3	0.04	2.9	1.08	<0.1	0.06
119091	Soil	7.0	9.1	0.10	84.6	0.001	6	0.59	0.002	0.13	<0.1	4.2	0.14	0.04	108	0.8	0.03	1.6	1.01	<0.1	0.03
119092	Soil	5.9	10.9	0.21	95.0	0.001	3	0.72	0.004	0.10	<0.1	6.2	0.15	0.06	159	0.7	0.02	1.8	1.37	<0.1	0.04
119093	Soil	3.8	8.6	0.07	56.9	0.001	2	0.49	0.005	0.08	<0.1	2.9	0.09	0.03	22	0.2	0.05	1.6	2.17	<0.1	<0.02
119094	Soil	4.6	21.5	0.29	54.7	0.005	4	1.38	0.003	0.11	<0.1	3.7	0.12	0.05	65	0.6	0.07	4.2	7.72	<0.1	0.06
119095	Soil	6.5	22.7	0.26	82.4	0.004	4	0.78	0.003	0.11	<0.1	5.5	0.08	0.05	62	0.4	0.02	2.4	2.93	<0.1	0.10
119096	Soil	13.0	18.6	0.26	141.2	0.003	4	0.94	0.003	0.09	<0.1	8.3	0.12	0.07	115	0.8	0.10	2.4	2.83	<0.1	0.06
119097	Soil	13.0	15.8	0.24	120.2	0.002	3	0.90	0.002	0.08	<0.1	7.1	0.10	0.06	98	0.5	0.10	2.5	2.31	<0.1	0.08
119098	Soil	8.1	14.4	0.24	73.5	0.008	2	0.72	0.002	0.05	<0.1	3.9	0.06	<0.02	53	0.2	<0.02	2.3	2.61	<0.1	<0.02
119099	Soil	6.2	15.8	0.22	71.6	0.005	4	0.91	0.002	0.06	<0.1	2.8	0.07	0.02	47	0.3	0.03	2.6	2.02	<0.1	0.03
118551	Soil	10.2	38.8	0.47	107.7	0.016	3	2.28	0.004	0.09	0.1	3.5	0.12	0.03	36	0.6	0.06	7.2	2.87	<0.1	<0.02
118552	Soil	21.3	19.5	0.35	124.7	0.003	4	1.22	0.002	0.28	<0.1	7.6	0.23	<0.02	53	0.3	0.08	3.3	3.22	<0.1	0.08
118553	Soil	4.5	41.0	0.72	454.6	0.004	2	2.53	0.009	0.16	<0.1	6.6	0.13	<0.02	23	<0.1	0.03	8.1	3.38	<0.1	0.04
118554	Soil	10.3	36.6	0.48	206.5	0.006	1	2.10	0.005	0.10	<0.1	7.1	0.15	<0.02	35	0.3	0.06	6.3	3.20	<0.1	0.04
118555	Soil	8.8	31.7	0.40	100.6	0.007	1	1.86	0.002	0.17	<0.1	3.0	0.20	0.04	25	0.3	<0.02	7.3	3.83	<0.1	0.02
118556	Soil	10.4	37.3	0.43	81.9	0.020	2	1.95	0.002	0.10	0.2	3.1	0.11	<0.02	56	0.4	0.04	7.5	2.21	<0.1	<0.02
118557	Soil	9.0	23.0	0.15	69.8	0.006	2	1.57	0.001	0.09	<0.1	2.0	0.14	<0.02	26	0.3	<0.02	7.9	2.19	<0.1	<0.02
118558	Soil	2.9	38.6	0.25	65.3	0.001	2	1.48	0.001	0.09	<0.1	5.1	0.31	0.04	33	0.4	0.08	6.5	5.19	<0.1	0.11
118559	Soil	40.2	17.8	0.28	172.6	0.003	4	1.25	0.006	0.12	<0.1	19.6	0.25	<0.02	60	0.5	<0.02	3.0	2.88	<0.1	0.07
118560	Soil	10.2	22.0	0.30	82.6	0.009	2	1.69	0.003	0.11	0.1	3.7	0.19	0.06	38	0.5	0.04	4.4	2.53	<0.1	<0.02
118561	Soil	6.4	11.2	0.14	76.4	<0.001	3	0.46	0.002	0.15	<0.1	5.1	0.41	<0.02	750	0.6	0.03	1.3	1.37	<0.1	0.09
118562	Soil	6.4	21.3	0.30	125.2	0.008	2	1.42	0.015	0.10	<0.1	5.2	0.14	0.11	21	0.3	0.10	3.4	3.70	<0.1	<0.02
118563	Soil	7.5	21.6	0.42	112.3	0.004	4	1.36	0.005	0.10	<0.1	5.5	0.14	0.02	34	0.3	0.08	3.7	3.00	<0.1	0.03
118564	Soil	13.3	28.5	0.49	153.6	0.006	3	1.59	0.005	0.13	<0.1	8.8	0.15	<0.02	38	0.5	0.04	3.6	3.90	<0.1	0.05
118565	Soil	11.0	22.0	0.81	103.0	0.006	4	1.31	0.006	0.11	<0.1	5.2	0.14	0.03	66	0.4	0.03	3.7	1.95	<0.1	0.03
118566	Soil	9.5	19.2	0.35	125.3	0.004	4	1.24	0.005	0.15	<0.1	6.0	0.21	0.03	74	0.3	0.04	3.6	2.94	<0.1	0.03
118567	Soil	15.6	14.4	3.98	50.3	0.004	3	1.02	0.007	0.09	<0.1	2.6	0.07	0.03	179	0.6	0.08	1.9	0.39	<0.1	0.07
118568	Soil	3.6	19.5	0.14	130.0	0.003	3	1.03	0.003	0.12	<0.1	0.8	0.13	0.09	34	0.3	0.05	4.0	3.48	<0.1	<0.02
118569	Soil	3.2	21.8	0.11	61.4	0.002	3	1.07	0.003	0.11	<0.1	2.3	0.16	0.06	51	0.9	0.06	4.9	3.70	<0.1	0.04
118570	Soil	6.8	25.7	0.28	84.7	0.005	4	1.82	0.002	0.10	<0.1	2.8	0.12	0.03	37	0.4	0.03	5.1	2.83	<0.1	0.02



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Project: SCARLETT
 Report Date: July 06, 2011

Page: 10 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
119090	Soil	0.17	6.3	0.4	<0.05	2.3	6.08	14.8	<0.02	<1	0.6	12.9	22	<2
119091	Soil	0.10	7.8	1.0	<0.05	1.2	12.95	18.0	0.03	<1	1.0	9.0	<10	<2
119092	Soil	0.09	6.9	1.2	<0.05	2.5	14.85	15.3	0.05	<1	0.8	15.8	<10	<2
119093	Soil	0.05	8.0	0.8	<0.05	0.6	3.17	8.2	0.03	<1	0.5	9.2	<10	<2
119094	Soil	0.20	16.1	1.5	<0.05	1.9	5.21	11.3	0.03	<1	0.6	25.5	<10	<2
119095	Soil	0.11	7.5	4.4	<0.05	3.0	21.81	16.3	0.06	<1	0.9	25.1	<10	<2
119096	Soil	0.18	7.8	3.1	<0.05	1.9	28.70	31.1	0.05	<1	1.4	21.8	<10	<2
119097	Soil	0.16	7.1	0.9	<0.05	2.1	21.84	28.1	0.05	<1	1.1	21.6	12	<2
119098	Soil	0.16	5.3	0.9	<0.05	1.4	9.27	19.4	0.03	<1	0.8	18.1	<10	<2
119099	Soil	0.16	7.4	0.8	<0.05	0.8	5.84	19.0	<0.02	<1	0.9	21.3	<10	<2
118551	Soil	0.67	17.8	2.4	<0.05	0.2	5.90	34.0	0.04	<1	1.2	31.7	<10	<2
118552	Soil	0.13	18.1	0.9	<0.05	2.7	15.66	48.4	0.04	<1	2.1	12.7	<10	<2
118553	Soil	0.19	18.0	1.6	<0.05	1.7	7.77	20.4	0.04	<1	2.3	40.9	<10	<2
118554	Soil	0.21	14.1	3.9	<0.05	1.3	15.33	64.6	0.03	<1	2.8	33.0	10	<2
118555	Soil	0.44	24.0	1.2	<0.05	0.9	4.91	22.2	0.03	<1	0.8	32.3	<10	<2
118556	Soil	1.05	17.5	1.9	<0.05	1.1	4.13	22.9	0.03	<1	0.8	27.6	<10	<2
118557	Soil	0.57	20.7	1.2	<0.05	1.1	3.23	17.7	0.02	<1	0.5	15.7	<10	<2
118558	Soil	0.02	11.6	1.7	<0.05	6.4	2.35	7.6	0.10	<1	0.7	21.3	<10	<2
118559	Soil	0.09	11.7	1.0	<0.05	5.3	96.57	91.7	0.05	<1	2.0	28.2	10	<2
118560	Soil	0.40	14.7	1.2	<0.05	0.6	5.35	23.0	0.03	<1	0.9	19.6	12	<2
118561	Soil	0.03	6.8	1.3	<0.05	5.5	11.99	27.6	0.03	<1	1.4	1.7	<10	<2
118562	Soil	0.24	9.5	1.2	<0.05	1.7	8.90	15.6	0.05	<1	1.3	31.8	12	2
118563	Soil	0.15	9.7	1.3	<0.05	1.8	13.76	19.2	0.04	<1	1.0	41.1	<10	<2
118564	Soil	0.17	11.1	2.7	<0.05	1.9	23.92	47.2	0.04	<1	1.5	41.6	<10	<2
118565	Soil	0.28	11.4	1.0	<0.05	1.6	13.39	24.9	0.04	<1	1.0	24.5	<10	<2
118566	Soil	0.17	13.1	1.2	<0.05	1.9	13.78	24.5	0.04	<1	1.1	30.2	<10	<2
118567	Soil	0.19	5.0	0.7	<0.05	2.7	22.01	27.3	<0.02	<1	0.4	6.0	14	<2
118568	Soil	0.15	19.5	1.3	<0.05	0.2	2.94	7.8	0.03	<1	0.5	11.0	<10	<2
118569	Soil	0.14	11.7	0.8	<0.05	1.7	3.15	7.1	0.05	<1	0.5	9.5	12	<2
118570	Soil	0.56	18.2	1.6	<0.05	0.8	4.51	27.1	0.04	<1	0.6	28.9	<10	<2



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Project: SCARLETT
 Report Date: July 06, 2011

Page: 11 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000241.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
118571	Soil	0.66	18.76	15.40	142.6	113	19.8	6.1	213	2.26	5.5	1.1	1.0	0.7	63.8	0.68	0.26	0.26	21	0.85	0.172
118572	Soil	0.56	14.63	19.75	246.8	102	12.5	6.0	3117	4.40	6.3	1.4	0.5	0.6	21.6	0.86	0.50	0.18	17	3.10	0.190
118573	Soil	1.15	22.74	16.07	76.2	97	18.9	8.1	646	2.17	12.7	3.6	<0.2	0.6	99.3	0.54	0.72	0.19	19	2.31	0.101
118574	Soil	1.27	39.50	17.63	91.9	348	28.4	12.0	425	2.49	30.5	1.8	10.3	1.1	118.1	0.36	0.92	0.20	19	2.16	0.102
118575	Soil	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
118576	Soil	0.96	28.38	18.81	77.2	132	26.0	10.3	517	2.64	15.5	1.1	2.5	1.8	101.8	0.40	1.17	0.24	22	2.45	0.087
118577	Soil	1.14	37.45	19.32	112.2	138	39.3	13.1	438	2.98	30.2	1.0	2.9	2.6	45.2	0.24	1.21	0.25	20	0.81	0.055
118578	Soil	0.56	24.35	13.41	92.7	95	23.1	10.2	389	2.30	11.6	1.0	2.6	5.9	137.1	0.12	0.37	0.21	16	4.15	0.051



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Project: SCARLETT
 Report Date: July 06, 2011

Page: 11 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000241.1

	Method	1F15																			
		Analyte																			
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
118571	Soil	8.2	22.3	0.43	110.3	0.003	2	1.48	0.004	0.08	<0.1	1.7	0.12	0.08	37	0.3	0.04	4.0	3.04	<0.1	0.02
118572	Soil	11.0	12.8	1.31	149.2	0.007	3	1.01	0.005	0.06	<0.1	1.5	0.08	0.11	66	0.4	0.03	2.3	1.13	<0.1	<0.02
118573	Soil	17.0	12.7	0.35	141.0	0.003	3	0.74	0.003	0.06	<0.1	1.9	0.07	0.10	252	0.6	0.04	1.9	0.87	<0.1	<0.02
118574	Soil	24.3	16.3	0.44	120.3	0.002	6	0.61	0.002	0.12	<0.1	2.9	0.17	0.07	230	1.1	0.02	1.7	1.19	<0.1	0.03
118575	Soil	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
118576	Soil	16.5	14.8	0.33	159.1	0.007	5	0.85	0.004	0.08	<0.1	4.2	0.07	0.05	140	0.5	0.03	2.3	0.80	<0.1	0.04
118577	Soil	16.7	22.7	0.30	70.8	0.003	3	0.45	0.002	0.06	<0.1	7.7	0.09	0.04	488	1.3	<0.02	1.2	0.74	<0.1	0.08
118578	Soil	26.4	21.7	2.53	204.3	0.002	4	0.71	0.010	0.08	<0.1	6.2	0.06	0.03	121	1.4	<0.02	1.8	1.95	<0.1	0.05



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: July 06, 2011

Page: 11 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI1100241.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
118571	Soil	0.27	15.7	1.0	<0.05	0.8	11.11	17.8	0.03	<1	0.8	32.8	<10	<2
118572	Soil	0.31	8.7	1.2	<0.05	0.8	10.67	20.4	<0.02	<1	0.7	8.0	16	<2
118573	Soil	0.18	6.3	0.6	<0.05	0.7	14.91	36.6	0.02	<1	0.9	12.0	<10	<2
118574	Soil	0.11	7.3	0.5	<0.05	1.3	16.64	47.9	0.04	<1	1.2	10.4	<10	<2
118575	Soil	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
118576	Soil	0.27	6.3	0.6	<0.05	1.5	17.08	33.2	0.03	<1	1.1	16.5	<10	<2
118577	Soil	0.09	4.7	1.2	<0.05	2.1	17.17	32.5	0.03	<1	0.6	5.5	<10	<2
118578	Soil	0.08	5.2	0.9	<0.05	2.5	14.28	46.6	0.02	<1	0.6	13.0	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: SCARLETT
Report Date: July 06, 2011

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000241.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
119410	Soil	4.35	41.33	21.48	69.6	266	29.4	13.2	322	2.10	36.4	1.1	27.6	3.0	150.8	0.56	3.04	0.26	13	5.56	0.071
REP 119410	QC	4.17	40.93	21.24	68.7	271	27.9	12.6	311	1.98	34.3	1.0	29.2	2.5	138.3	0.57	2.95	0.26	13	4.98	0.071
118701	Soil	0.77	34.69	38.23	87.4	103	23.4	11.9	375	4.16	9.4	0.6	0.8	2.8	10.6	0.09	0.34	0.34	18	0.03	0.049
REP 118701	QC	0.79	34.81	37.46	87.3	95	24.0	11.6	370	4.12	9.3	0.6	0.4	2.7	10.6	0.09	0.36	0.34	18	0.02	0.049
118719	Soil	0.64	36.79	26.82	95.6	118	31.3	16.3	1106	3.37	12.3	0.7	1.6	3.9	196.4	0.12	0.36	0.33	18	3.03	0.061
REP 118719	QC	0.62	37.00	27.11	99.7	102	32.6	16.8	1117	3.37	12.0	0.7	1.0	3.9	190.4	0.14	0.35	0.32	19	3.04	0.057
119126	Soil	0.67	14.77	23.92	147.0	99	15.9	13.3	684	3.59	4.3	0.4	0.3	3.7	7.5	0.18	0.27	0.39	31	0.04	0.054
REP 119126	QC	0.68	14.40	24.12	139.6	99	15.5	12.7	695	3.58	4.4	0.4	<0.2	3.6	7.4	0.24	0.29	0.40	31	0.04	0.053
119131	Soil	0.78	21.71	31.75	124.4	49	31.2	12.5	337	4.28	7.3	0.6	1.9	4.3	6.5	0.16	0.42	0.59	33	0.02	0.037
REP 119131	QC	0.69	20.79	29.02	116.0	48	29.4	11.9	314	4.07	6.8	0.6	0.7	4.1	6.2	0.12	0.37	0.54	32	0.01	0.031
119357	Soil	1.34	16.83	14.86	36.2	103	12.5	4.5	120	2.25	6.1	0.4	1.5	1.2	5.8	0.07	0.49	0.27	35	0.04	0.044
REP 119357	QC	1.40	18.11	16.14	40.2	111	13.6	4.6	129	2.36	6.3	0.4	1.3	1.2	6.3	0.09	0.49	0.30	37	0.04	0.049
119367	Soil	0.82	23.75	21.98	149.0	93	26.0	17.2	1176	3.96	4.1	0.6	1.9	3.2	7.0	0.12	0.33	0.40	40	0.04	0.048
REP 119367	QC	0.88	24.54	23.31	150.8	97	27.2	17.0	1220	4.05	4.2	0.6	1.7	3.2	7.0	0.15	0.36	0.38	40	0.04	0.054
119470	Soil	1.69	47.72	76.81	131.3	250	46.4	42.6	2503	4.90	18.3	1.0	0.7	2.1	19.2	0.17	0.61	0.38	28	0.09	0.087
REP 119470	QC	1.65	47.46	76.07	133.9	256	46.3	43.0	2486	4.84	18.8	1.0	1.6	2.1	19.6	0.16	0.62	0.38	27	0.09	0.091
119483	Soil	1.07	17.53	64.57	1295	180	25.6	8.2	933	2.11	54.0	1.6	31.4	0.9	142.1	4.25	3.65	0.22	10	9.52	0.143
REP 119483	QC	1.13	17.87	64.82	1318	184	25.5	8.5	954	2.13	53.8	1.6	26.6	0.8	144.0	4.10	3.56	0.19	10	9.65	0.145
119485	Soil	0.51	9.64	33.55	359.4	116	11.7	4.2	1606	2.50	81.4	0.9	32.2	0.4	65.5	0.93	2.56	0.12	6	14.35	0.109
REP 119485	QC	0.54	10.20	33.63	366.0	111	12.0	4.1	1562	2.48	80.7	1.0	32.1	0.4	65.0	0.94	2.47	0.12	6	13.89	0.112
120058	Soil	0.93	27.24	54.88	62.9	224	9.5	4.0	159	4.98	10.4	0.6	1.4	3.8	11.4	0.06	0.53	0.61	20	0.02	0.068
REP 120058	QC	0.92	28.53	56.12	66.2	224	10.2	4.1	163	5.08	11.0	0.7	1.9	3.9	11.8	0.05	0.56	0.64	21	0.02	0.069
119018	Soil	1.14	21.39	22.17	85.0	88	22.4	12.3	441	3.41	8.6	0.7	1.5	4.3	7.3	0.10	0.53	0.36	42	0.04	0.025
REP 119018	QC	1.16	21.80	21.88	86.5	91	21.9	12.2	442	3.39	8.4	0.7	1.5	4.4	7.6	0.09	0.56	0.34	42	0.04	0.023
119036	Soil	0.75	30.91	20.72	79.3	34	29.9	11.2	374	3.09	3.6	0.4	0.9	1.6	7.9	0.05	0.24	0.22	14	0.05	0.016
REP 119036	QC	0.83	31.46	20.36	82.3	36	30.5	11.2	382	3.10	3.7	0.5	0.5	1.7	9.2	0.05	0.24	0.23	15	0.05	0.017
119047	Soil	0.54	10.32	44.31	726.4	140	12.0	4.7	4615	5.25	13.1	0.8	0.9	0.8	39.9	2.83	2.09	0.12	17	9.28	0.140
REP 119047	QC	0.48	9.58	42.02	705.8	136	11.1	4.4	4303	4.97	11.8	0.8	0.7	0.7	37.9	2.59	2.01	0.11	16	8.72	0.131

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: July 06, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000241.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
119410	Soil	5.8	8.3	2.89	45.5	0.001	3	0.24	0.004	0.09	<0.1	5.0	0.20	0.02	254	1.0	0.07	0.7	0.57	<0.1	0.05
REP 119410	QC	5.6	8.9	2.62	44.2	<0.001	3	0.23	0.004	0.09	<0.1	4.7	0.19	0.02	217	1.1	0.08	0.7	0.52	<0.1	0.05
118701	Soil	4.6	19.3	0.18	73.9	0.002	3	1.16	0.004	0.09	<0.1	4.0	0.14	0.03	18	0.4	0.06	3.0	2.86	<0.1	<0.02
REP 118701	QC	4.6	18.7	0.18	72.9	0.002	<1	1.19	0.004	0.10	<0.1	3.9	0.13	0.03	18	0.5	0.05	3.0	2.92	<0.1	<0.02
118719	Soil	6.2	21.7	0.60	106.9	0.003	5	1.49	0.003	0.12	<0.1	5.1	0.09	<0.02	88	0.4	0.06	4.3	2.79	<0.1	0.09
REP 118719	QC	5.8	22.0	0.61	102.8	0.003	3	1.49	0.003	0.12	<0.1	5.3	0.09	<0.02	220	<0.1	0.09	4.2	2.70	<0.1	0.08
119126	Soil	5.8	26.6	0.30	178.1	0.003	1	1.71	0.001	0.20	<0.1	2.5	0.11	<0.02	21	<0.1	<0.02	7.3	1.29	<0.1	0.06
REP 119126	QC	5.6	26.9	0.31	179.3	0.003	<1	1.67	0.001	0.19	<0.1	2.4	0.12	<0.02	18	<0.1	<0.02	7.3	1.34	<0.1	0.06
119131	Soil	5.9	37.0	0.54	71.1	0.005	2	2.14	0.001	0.14	<0.1	3.4	0.12	<0.02	26	0.4	0.03	7.6	3.65	<0.1	0.06
REP 119131	QC	5.7	35.8	0.51	67.3	0.005	4	2.05	0.001	0.14	<0.1	3.2	0.11	<0.02	24	0.5	0.04	7.3	3.51	<0.1	0.04
119357	Soil	7.5	18.9	0.13	60.5	0.008	<1	1.10	0.002	0.08	<0.1	1.5	0.12	0.04	20	0.5	0.03	5.2	1.62	<0.1	<0.02
REP 119357	QC	8.2	20.3	0.14	65.7	0.010	<1	1.18	0.002	0.09	<0.1	1.6	0.12	0.04	33	0.5	<0.02	5.7	1.85	<0.1	<0.02
119367	Soil	5.6	32.3	0.41	247.1	0.005	1	2.16	0.003	0.12	<0.1	3.4	0.12	0.04	37	0.4	0.04	7.3	1.73	<0.1	0.03
REP 119367	QC	5.4	34.8	0.43	251.8	0.004	<1	2.21	0.003	0.12	<0.1	3.6	0.12	0.03	33	0.5	0.06	7.6	1.73	<0.1	0.03
119470	Soil	5.4	29.5	0.39	210.7	0.005	4	1.56	0.001	0.10	<0.1	3.7	0.18	0.05	94	0.7	0.07	4.0	11.57	<0.1	0.03
REP 119470	QC	5.7	27.7	0.42	221.1	0.005	2	1.55	0.001	0.10	<0.1	3.7	0.18	0.05	85	0.6	0.06	4.1	12.13	<0.1	0.04
119483	Soil	6.1	11.3	3.30	138.3	0.003	8	0.36	0.006	0.07	<0.1	1.4	0.17	0.07	1954	0.7	<0.02	1.2	3.52	<0.1	0.08
REP 119483	QC	5.8	11.7	3.26	136.0	0.002	6	0.34	0.006	0.06	<0.1	1.3	0.17	0.07	1996	0.8	0.02	1.2	2.79	<0.1	0.07
119485	Soil	4.7	8.3	6.98	80.2	0.004	4	0.42	0.009	0.04	<0.1	0.6	0.08	<0.02	199	0.4	0.05	1.1	0.52	<0.1	0.03
REP 119485	QC	4.8	8.3	6.95	78.9	0.004	6	0.42	0.009	0.04	<0.1	0.7	0.09	<0.02	197	0.3	0.06	1.2	0.55	<0.1	<0.02
120058	Soil	3.8	19.7	0.15	68.5	0.002	2	1.02	0.003	0.09	<0.1	3.3	0.31	0.03	31	0.7	0.06	4.1	4.03	<0.1	<0.02
REP 120058	QC	4.3	20.9	0.15	70.5	0.002	3	1.04	0.003	0.09	<0.1	3.4	0.31	0.03	24	0.8	0.03	4.6	4.05	<0.1	<0.02
119018	Soil	8.5	31.7	0.38	79.7	0.009	1	1.88	0.002	0.08	0.1	3.4	0.11	<0.02	34	0.6	0.03	5.9	1.89	<0.1	0.06
REP 119018	QC	8.5	32.9	0.38	83.6	0.010	1	1.89	0.001	0.08	0.1	3.4	0.12	<0.02	26	0.4	0.05	6.0	1.95	<0.1	0.06
119036	Soil	2.9	17.5	0.07	48.8	0.001	<1	0.33	0.001	0.05	<0.1	2.4	0.05	<0.02	19	0.1	<0.02	1.1	0.85	<0.1	<0.02
REP 119036	QC	3.2	18.6	0.08	50.5	0.001	<1	0.35	0.001	0.05	<0.1	2.5	0.05	<0.02	19	0.2	0.03	1.1	0.92	<0.1	<0.02
119047	Soil	10.7	14.1	4.69	103.0	0.004	<1	0.86	0.008	0.03	<0.1	1.4	0.05	0.05	350	0.5	0.02	1.7	0.42	<0.1	0.05
REP 119047	QC	10.2	12.6	4.46	100.6	0.004	<1	0.80	0.008	0.02	<0.1	1.3	0.05	0.04	320	0.6	0.04	1.7	0.39	<0.1	0.06

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: July 06, 2011

Page: 1 of 3 Part 3

QUALITY CONTROL REPORT

WHI11000241.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
119410	Soil	0.03	4.1	1.2	<0.05	1.2	12.30	15.6	0.04	2	0.6	2.0	<10	<2
REP 119410	QC	0.03	3.6	1.4	<0.05	1.2	12.25	15.3	0.03	<1	0.7	1.8	<10	<2
118701	Soil	0.08	9.7	1.0	<0.05	0.6	4.72	10.5	0.04	<1	0.9	17.9	<10	<2
REP 118701	QC	0.09	9.9	0.9	<0.05	0.7	4.70	10.8	0.04	<1	0.8	17.6	<10	<2
118719	Soil	0.14	7.5	0.6	<0.05	3.9	9.77	14.4	0.03	<1	0.9	46.7	<10	<2
REP 118719	QC	0.12	7.0	0.6	<0.05	3.7	9.61	13.8	0.03	<1	0.8	46.2	<10	<2
119126	Soil	0.32	22.1	1.0	<0.05	1.7	2.40	12.8	0.04	<1	0.9	25.6	12	<2
REP 119126	QC	0.35	21.8	1.1	<0.05	2.0	2.23	12.3	0.03	<1	0.8	23.4	<10	<2
119131	Soil	0.36	17.5	1.3	<0.05	2.1	4.06	12.7	0.06	<1	1.1	40.4	<10	3
REP 119131	QC	0.34	16.4	1.1	<0.05	1.9	3.86	12.4	0.03	<1	0.9	37.5	<10	<2
119357	Soil	0.51	14.6	1.8	<0.05	0.3	2.13	15.5	<0.02	<1	0.2	7.1	<10	<2
REP 119357	QC	0.55	16.0	1.8	<0.05	0.2	2.25	16.5	<0.02	<1	0.3	7.2	<10	<2
119367	Soil	0.61	21.3	1.5	<0.05	1.3	2.98	12.0	0.06	2	1.2	33.7	13	<2
REP 119367	QC	0.62	21.1	1.6	<0.05	1.4	2.99	12.2	0.04	<1	0.9	34.3	<10	<2
119470	Soil	0.15	13.8	4.5	<0.05	0.9	9.69	17.0	0.04	<1	2.0	48.0	<10	<2
REP 119470	QC	0.16	14.3	4.6	<0.05	0.9	9.88	17.3	0.04	<1	2.1	53.2	<10	3
119483	Soil	0.09	5.1	9.2	<0.05	2.5	11.83	18.0	<0.02	<1	0.3	3.9	83	<2
REP 119483	QC	0.07	4.1	8.7	<0.05	2.4	12.30	17.2	<0.02	<1	0.3	3.3	89	<2
119485	Soil	0.06	3.2	2.3	<0.05	0.7	5.33	9.7	<0.02	<1	0.3	4.1	26	<2
REP 119485	QC	0.07	3.4	2.2	<0.05	0.6	5.19	9.8	<0.02	<1	0.3	3.9	24	<2
120058	Soil	0.10	14.1	1.0	<0.05	0.9	2.79	8.7	0.06	<1	0.6	13.2	<10	<2
REP 120058	QC	0.10	14.3	1.0	<0.05	1.0	2.88	8.9	0.06	<1	0.6	14.1	<10	<2
119018	Soil	0.54	19.3	1.8	<0.05	2.7	2.77	18.4	0.03	<1	0.7	27.8	<10	<2
REP 119018	QC	0.54	19.6	1.7	<0.05	2.4	2.85	18.0	0.03	<1	0.6	26.0	<10	<2
119036	Soil	0.05	3.9	1.3	<0.05	0.4	2.90	7.4	0.03	<1	0.5	5.4	<10	<2
REP 119036	QC	0.05	4.4	1.1	<0.05	0.3	3.05	8.2	0.03	<1	0.6	5.6	<10	<2
119047	Soil	0.10	3.3	0.8	<0.05	1.7	11.45	25.8	<0.02	<1	0.5	3.4	36	<2
REP 119047	QC	0.10	3.2	0.7	<0.05	1.7	10.75	24.4	<0.02	<1	0.4	3.4	39	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: SCARLETT
Report Date: July 06, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000241.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
119072	Soil	0.71	33.59	22.26	80.6	43	26.3	10.9	451	3.03	15.1	1.2	2.5	3.1	22.0	0.26	4.58	0.30	28	0.15	0.034
REP 119072	QC	0.74	33.89	21.92	81.2	45	26.8	10.7	456	3.05	16.0	1.2	2.0	3.1	21.9	0.30	4.67	0.30	28	0.15	0.036
119084	Soil	2.49	47.22	21.02	116.1	409	34.7	11.1	310	2.59	57.6	1.2	13.6	1.4	76.7	0.34	2.85	0.21	24	0.66	0.053
REP 119084	QC	2.54	47.72	21.21	118.5	414	34.2	11.9	303	2.63	57.6	1.2	14.1	1.4	77.3	0.35	2.84	0.21	25	0.67	0.048
118551	Soil	1.24	26.28	28.62	96.3	49	28.3	16.5	878	4.59	9.3	0.8	0.7	1.6	8.0	0.19	0.73	0.38	48	0.05	0.052
REP 118551	QC	1.20	25.50	28.45	94.8	40	27.3	16.6	850	4.60	8.8	0.8	1.0	1.7	7.9	0.18	0.74	0.37	48	0.05	0.051
118576	Soil	0.96	28.38	18.81	77.2	132	26.0	10.3	517	2.64	15.5	1.1	2.5	1.8	101.8	0.40	1.17	0.24	22	2.45	0.087
REP 118576	QC	0.97	27.70	19.32	73.4	140	25.2	10.5	527	2.62	16.0	1.2	2.7	2.0	101.5	0.42	1.25	0.25	21	2.47	0.082
Reference Materials																					
STD DS8	Standard	12.04	109.8	120.9	311.9	1607	34.0	7.2	593	2.40	23.7	2.6	100.5	6.4	69.3	2.48	5.87	6.36	37	0.67	0.078
STD DS8	Standard	11.71	107.5	120.2	305.7	1657	33.6	6.8	579	2.33	23.1	2.8	98.2	6.7	70.4	2.40	6.08	6.53	38	0.67	0.075
STD DS8	Standard	12.97	105.8	123.0	321.3	1748	36.1	6.9	612	2.49	25.6	2.7	100.4	6.5	68.6	2.32	6.03	6.57	40	0.70	0.087
STD DS8	Standard	12.44	104.8	117.9	308.3	1667	35.0	6.9	570	2.32	25.2	2.5	106.0	6.4	65.2	2.23	5.86	6.23	37	0.67	0.083
STD DS8	Standard	13.07	111.3	117.7	317.2	1730	36.7	7.4	606	2.41	24.7	2.6	104.3	6.4	65.1	2.22	5.66	6.33	39	0.70	0.089
STD DS8	Standard	12.57	111.8	117.4	313.1	1700	37.7	7.5	614	2.45	24.8	2.5	118.2	6.4	64.5	2.21	5.52	6.29	40	0.71	0.088
STD DS8	Standard	12.94	110.8	118.3	311.9	1729	36.9	7.3	582	2.40	24.5	2.6	107.2	6.7	66.7	2.13	5.83	6.40	42	0.71	0.079
STD DS8	Standard	13.03	111.0	118.9	310.5	1747	36.8	7.4	597	2.44	24.7	2.7	127.8	6.7	69.2	2.21	5.73	6.25	41	0.73	0.085
STD DS8	Standard	12.13	107.0	108.4	292.6	1728	37.6	7.5	563	2.31	21.7	2.3	116.2	5.5	54.2	2.04	4.64	5.72	38	0.66	0.071
STD DS8	Standard	12.52	110.2	108.2	295.2	1698	38.6	7.7	577	2.31	22.0	2.3	101.2	5.7	55.7	2.01	4.78	5.65	38	0.66	0.070
STD DS8	Standard	12.58	107.4	118.9	311.9	1588	37.5	7.2	608	2.38	24.4	2.6	103.0	6.2	68.8	2.23	5.87	6.16	39	0.69	0.081
STD DS8	Standard	13.46	110.4	125.6	312.6	1704	39.8	7.9	614	2.45	25.6	2.8	106.0	6.6	69.9	2.32	6.11	6.45	41	0.72	0.080
STD DS8	Standard	13.54	107.1	115.8	313.0	1691	37.8	7.5	607	2.42	24.5	2.5	99.0	6.4	64.2	2.20	5.19	6.20	38	0.70	0.077
STD DS8	Standard	13.12	106.4	111.7	305.4	1698	38.3	7.5	601	2.40	24.1	2.4	98.5	6.1	63.4	2.21	5.07	6.04	38	0.69	0.075
STD DS8	Standard	13.62	116.1	117.2	315.3	1773	41.3	7.8	604	2.48	22.6	2.6	106.9	6.5	58.9	2.19	5.02	6.23	41	0.73	0.074
STD DS8	Standard	13.18	107.1	111.3	289.8	1613	38.9	7.6	588	2.38	22.1	2.4	96.3	6.1	59.2	2.12	4.63	5.84	40	0.71	0.069
STD DS8	Standard	10.81	106.3	121.2	308.2	1668	34.5	7.1	577	2.41	25.6	2.6	100.2	5.6	62.5	2.18	5.48	6.42	39	0.65	0.084
STD DS8	Standard	10.85	104.2	116.8	307.6	1632	35.9	7.1	563	2.37	25.0	2.5	105.8	5.8	62.6	2.31	5.32	6.25	39	0.65	0.081
STD DS8	Standard	12.69	113.7	129.7	321.0	1686	35.1	7.0	587	2.42	25.5	2.9	104.5	7.2	69.4	2.51	5.86	6.84	40	0.70	0.076
STD DS8	Standard	12.17	111.3	123.9	312.8	1686	35.6	6.9	572	2.40	23.8	2.7	111.8	6.8	69.2	2.52	5.88	6.54	41	0.69	0.075

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830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: SCARLETT
Report Date: July 06, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000241.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
119072	Soil	10.2	18.6	0.29	205.7	0.003	3	1.46	0.001	0.07	<0.1	3.7	0.13	<0.02	190	0.2	0.06	3.2	2.86	<0.1	0.04
REP 119072	QC	10.6	19.1	0.28	215.2	0.003	3	1.45	0.001	0.07	<0.1	3.7	0.12	<0.02	172	0.2	0.05	3.3	2.88	<0.1	0.03
119084	Soil	6.9	22.8	0.29	92.5	0.002	2	0.42	0.002	0.07	<0.1	6.8	0.42	0.04	244	1.3	0.03	1.4	0.56	<0.1	0.03
REP 119084	QC	6.9	22.7	0.29	95.4	0.002	3	0.41	0.002	0.08	<0.1	6.8	0.41	0.04	234	1.3	0.03	1.5	0.54	<0.1	0.03
118551	Soil	10.2	38.8	0.47	107.7	0.016	3	2.28	0.004	0.09	0.1	3.5	0.12	0.03	36	0.6	0.06	7.2	2.87	<0.1	<0.02
REP 118551	QC	9.9	37.1	0.46	103.1	0.016	2	2.26	0.004	0.09	0.1	3.5	0.12	0.03	41	0.4	0.04	7.4	2.80	<0.1	<0.02
118576	Soil	16.5	14.8	0.33	159.1	0.007	5	0.85	0.004	0.08	<0.1	4.2	0.07	0.05	140	0.5	0.03	2.3	0.80	<0.1	0.04
REP 118576	QC	17.5	14.2	0.32	169.7	0.007	3	0.84	0.004	0.08	0.1	4.2	0.08	0.05	131	0.5	0.02	2.3	0.82	<0.1	0.04
Reference Materials																					
STD DS8	Standard	14.7	109.9	0.55	266.5	0.115	3	0.89	0.085	0.40	2.8	2.2	5.24	0.19	187	4.8	4.67	4.5	2.31	<0.1	0.08
STD DS8	Standard	14.9	112.2	0.59	274.1	0.114	3	0.88	0.086	0.40	3.0	2.3	5.18	0.16	205	4.7	4.82	4.3	2.33	0.1	0.09
STD DS8	Standard	15.8	111.9	0.63	273.5	0.117	3	0.94	0.093	0.43	2.9	2.4	5.15	0.16	202	5.2	5.10	4.7	2.50	<0.1	0.09
STD DS8	Standard	15.3	110.1	0.58	259.4	0.111	2	0.89	0.087	0.40	2.9	2.3	5.05	0.15	182	5.1	4.75	4.4	2.39	<0.1	0.08
STD DS8	Standard	15.3	111.2	0.60	262.0	0.121	3	0.91	0.089	0.41	2.9	2.2	5.17	0.15	176	5.1	5.13	4.6	2.39	0.1	0.09
STD DS8	Standard	14.9	111.7	0.61	265.0	0.122	3	0.92	0.089	0.41	2.9	2.4	5.20	0.16	174	4.9	4.78	4.5	2.39	0.1	0.07
STD DS8	Standard	15.6	113.8	0.62	270.1	0.124	3	0.89	0.089	0.39	2.9	2.2	5.10	0.16	203	4.8	5.09	4.4	2.36	<0.1	0.08
STD DS8	Standard	17.2	114.4	0.63	277.7	0.126	3	0.92	0.093	0.40	2.8	2.3	5.14	0.16	179	5.0	4.96	4.4	2.44	<0.1	0.09
STD DS8	Standard	12.4	116.0	0.58	243.5	0.110	1	0.85	0.082	0.40	2.8	1.9	5.14	0.15	206	5.2	4.54	4.3	2.26	0.1	0.06
STD DS8	Standard	13.3	118.9	0.57	246.2	0.115	<1	0.85	0.080	0.38	2.7	2.1	4.99	0.15	176	4.9	4.67	4.3	2.24	0.1	0.06
STD DS8	Standard	16.0	112.7	0.59	261.8	0.118	4	0.89	0.089	0.40	2.9	2.2	5.26	0.15	207	4.9	5.14	4.5	2.41	0.1	0.08
STD DS8	Standard	17.1	119.1	0.60	285.4	0.125	2	0.93	0.093	0.42	3.2	2.4	5.32	0.15	203	5.1	5.27	4.6	2.52	0.1	0.09
STD DS8	Standard	15.4	118.8	0.61	269.1	0.118	4	0.94	0.097	0.43	3.1	2.3	5.22	0.15	186	5.2	5.05	4.4	2.34	<0.1	0.09
STD DS8	Standard	15.2	116.6	0.61	275.7	0.114	4	0.93	0.095	0.43	3.1	2.2	5.20	0.15	202	5.2	4.57	4.5	2.31	<0.1	0.09
STD DS8	Standard	15.3	123.0	0.62	245.6	0.122	3	0.93	0.090	0.42	3.0	2.1	5.31	0.16	172	5.1	5.27	4.7	2.34	<0.1	0.07
STD DS8	Standard	14.9	119.2	0.61	253.9	0.119	2	0.92	0.091	0.40	2.7	2.1	5.03	0.15	199	4.8	4.89	4.1	2.20	<0.1	0.06
STD DS8	Standard	11.7	109.4	0.59	237.4	0.100	1	0.88	0.090	0.42	2.8	2.2	5.15	0.15	207	5.2	4.69	4.4	2.37	<0.1	0.07
STD DS8	Standard	12.0	109.3	0.58	242.6	0.101	3	0.86	0.083	0.40	2.8	2.2	4.92	0.15	205	4.9	5.17	4.3	2.32	<0.1	0.07
STD DS8	Standard	15.1	113.8	0.62	288.7	0.119	2	0.88	0.086	0.39	3.1	2.3	5.56	0.16	198	5.2	4.97	4.6	2.35	0.2	0.08
STD DS8	Standard	14.9	110.2	0.61	278.4	0.112	2	0.87	0.084	0.38	3.1	2.3	5.29	0.16	206	5.4	4.91	4.4	2.35	0.1	0.07

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Project: SCARLETT
 Report Date: July 06, 2011

Page: 2 of 3 Part 3

QUALITY CONTROL REPORT

WHI11000241.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
119072	Soil	0.23	11.2	0.8	<0.05	1.1	6.08	31.5	0.04	<1	1.0	17.8	<10	<2
REP 119072	QC	0.23	10.9	0.8	<0.05	1.3	6.03	31.6	0.04	<1	1.1	17.7	<10	<2
119084	Soil	0.10	6.4	2.2	<0.05	1.2	11.22	15.8	0.04	<1	0.9	4.4	<10	<2
REP 119084	QC	0.11	6.6	2.3	<0.05	1.2	11.20	15.6	0.02	<1	0.8	4.5	<10	<2
118551	Soil	0.67	17.8	2.4	<0.05	0.2	5.90	34.0	0.04	<1	1.2	31.7	<10	<2
REP 118551	QC	0.67	17.4	2.4	<0.05	0.2	5.66	33.2	0.04	<1	1.2	31.5	<10	<2
118576	Soil	0.27	6.3	0.6	<0.05	1.5	17.08	33.2	0.03	<1	1.1	16.5	<10	<2
REP 118576	QC	0.28	6.2	0.5	<0.05	1.7	17.29	34.5	0.04	<1	0.8	16.3	<10	<2
Reference Materials														
STD DS8	Standard	1.23	38.6	6.9	<0.05	2.1	5.81	27.3	2.22	54	5.0	25.7	113	333
STD DS8	Standard	1.35	37.9	6.9	<0.05	2.1	5.85	26.3	2.23	53	4.1	26.1	109	324
STD DS8	Standard	1.19	37.0	7.1	<0.05	2.0	5.85	26.8	2.32	60	4.5	26.7	125	330
STD DS8	Standard	1.23	36.6	6.9	<0.05	1.9	5.80	26.7	2.27	51	4.8	26.2	122	312
STD DS8	Standard	1.19	36.0	6.6	<0.05	1.9	6.08	27.7	2.04	50	5.1	28.2	110	328
STD DS8	Standard	1.19	36.0	6.7	<0.05	2.1	6.05	27.5	2.25	52	4.8	27.0	115	347
STD DS8	Standard	1.31	36.7	6.7	<0.05	2.2	6.23	28.2	2.22	48	4.9	26.4	123	356
STD DS8	Standard	1.33	36.9	6.7	<0.05	2.0	6.57	29.6	2.08	47	4.7	27.8	124	320
STD DS8	Standard	1.12	36.0	5.6	<0.05	1.9	5.19	22.5	1.84	50	5.2	23.8	123	332
STD DS8	Standard	1.27	35.2	5.6	<0.05	1.9	5.46	24.3	1.94	58	4.9	23.5	111	307
STD DS8	Standard	1.38	36.4	6.8	<0.05	2.0	6.27	27.6	2.15	53	5.2	25.7	116	318
STD DS8	Standard	1.42	36.6	6.9	<0.05	2.4	6.82	30.0	2.27	56	4.7	26.9	116	358
STD DS8	Standard	1.33	35.6	6.3	<0.05	2.2	5.79	27.9	2.02	47	5.1	25.3	121	330
STD DS8	Standard	1.24	34.8	6.4	<0.05	2.1	5.83	27.2	2.03	57	5.4	25.8	123	336
STD DS8	Standard	1.23	36.3	6.2	<0.05	1.7	5.79	26.6	2.03	56	5.2	27.1	126	347
STD DS8	Standard	1.25	35.4	5.9	<0.05	1.6	5.82	27.4	1.86	44	4.8	24.5	119	326
STD DS8	Standard	1.00	38.4	6.4	<0.05	1.6	5.02	20.4	2.13	53	5.0	27.6	125	321
STD DS8	Standard	0.96	37.5	6.2	<0.05	1.7	5.21	20.9	2.16	50	4.8	26.2	122	318
STD DS8	Standard	1.26	41.3	6.7	<0.05	2.1	5.75	27.1	2.22	53	4.9	26.2	111	340
STD DS8	Standard	1.23	39.5	6.8	<0.05	2.1	5.65	25.9	2.24	57	5.0	23.2	112	334

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Project: SCARLETT
 Report Date: July 06, 2011

Page: 3 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000241.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
STD DS8	Standard	12.58	110.8	113.9	314.2	1754	35.5	7.1	601	2.40	24.0	2.6	108.4	6.7	68.9	2.10	5.43	6.55	40	0.73	0.081
STD DS8	Standard	12.87	109.8	129.1	317.0	1789	36.3	6.8	611	2.43	24.0	3.0	107.1	7.3	72.5	2.22	5.64	7.09	40	0.72	0.079
STD DS8	Standard	12.17	109.0	124.8	308.9	1766	37.2	7.3	567	2.39	24.0	2.7	102.6	6.5	60.9	2.17	5.41	6.48	42	0.67	0.079
STD DS8	Standard	11.99	107.8	130.7	315.2	1770	38.0	7.5	573	2.38	24.4	2.7	111.9	6.7	62.4	2.26	5.48	6.69	42	0.66	0.081
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: July 06, 2011

Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000241.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
STD DS8	Standard	14.8	110.1	0.62	260.8	0.116	2	0.97	0.101	0.43	2.7	2.2	4.98	0.16	221	5.5	4.65	4.4	2.29	0.1	0.08
STD DS8	Standard	15.6	111.9	0.61	277.2	0.115	2	0.95	0.096	0.42	3.1	2.3	5.62	0.16	226	5.5	5.01	4.6	2.36	0.1	0.10
STD DS8	Standard	13.6	114.7	0.58	255.4	0.115	3	0.85	0.077	0.39	3.1	2.0	5.34	0.15	224	4.9	4.96	4.2	2.41	0.1	0.07
STD DS8	Standard	13.6	113.0	0.58	257.5	0.113	3	0.82	0.075	0.39	3.1	2.1	5.44	0.15	226	4.9	4.97	4.3	2.44	<0.1	0.07
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: SCARLETT

Report Date: July 06, 2011

Page: 3 of 3 Part 3

QUALITY CONTROL REPORT

WHI11000241.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
STD DS8	Standard	1.24	36.9	6.6	<0.05	2.1	5.90	26.9	2.23	49	5.9	26.7	125	320
STD DS8	Standard	1.32	36.7	6.9	<0.05	2.2	6.17	28.0	2.35	57	5.9	27.3	115	342
STD DS8	Standard	1.17	36.3	6.7	<0.05	1.9	5.50	24.6	2.24	51	4.9	26.4	119	340
STD DS8	Standard	1.22	37.3	6.9	<0.05	2.0	5.49	24.5	2.30	56	4.7	26.3	119	346
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: June 16, 2011
Report Date: July 07, 2011
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI11000242.1

CLIENT JOB INFORMATION

Project: SCARLETT
Shipment ID: 2011-03
P.O. Number
Number of Samples: 41

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: Scott Turton
Simon Ridgway
database backup
David Clark

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
S150	41	Sieve to 150 mesh			VAN
RJSV	41	Saving all or part of Soil Reject			VAN
3B01+3B04	41	lead collection fire assay - ICP-ES finish	50	Completed	VAN
1F03	38	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: July 07, 2011

Page: 2 of 3 Part 1

CERTIFICATE OF ANALYSIS

WHI11000242.1

Method	Analyte	3B-50	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.1	0.5	0.01	0.02	0.02	2	0.01
118651	Silt	<2	0.45	23.11	28.38	150.9	109	39.9	32.0	2762	4.44	5.7	1.4	2.2	2.9	346.5	0.13	0.35	0.37	13	6.16
118652	Silt	<2	0.47	22.50	29.62	140.0	83	39.5	17.6	964	3.41	5.7	1.0	1.8	3.5	97.7	0.19	0.31	0.41	13	0.67
118653	Silt	<2	0.41	21.26	31.61	133.3	80	34.8	13.4	656	3.38	6.2	0.9	1.4	3.5	99.7	0.19	0.34	0.41	13	0.61
118654	Silt	<2	0.49	21.83	31.87	148.2	87	34.9	15.3	724	3.46	6.6	1.4	1.9	3.4	92.3	0.22	0.28	0.39	15	0.84
118655	Silt	<2	0.43	21.14	28.59	124.3	89	30.1	13.2	742	3.43	6.6	1.5	1.7	3.2	75.3	0.16	0.34	0.36	14	0.76
118656	Silt	<2	0.45	23.56	29.73	126.5	67	32.1	15.5	836	3.64	6.6	1.1	1.7	3.8	79.3	0.15	0.30	0.40	19	0.66
118657	Silt	<2	0.45	23.57	29.31	124.8	72	31.7	14.5	741	3.53	6.6	1.1	2.4	4.0	77.5	0.13	0.27	0.41	18	0.71
118658	Silt	<2	0.37	20.75	28.94	123.7	75	29.4	14.1	709	3.50	6.4	1.2	2.2	3.9	80.4	0.19	0.32	0.38	18	0.68
118659	Silt	<2	0.31	21.77	26.45	90.5	114	28.3	11.3	565	2.79	6.5	0.8	1.9	3.8	87.7	0.14	0.44	0.30	8	4.09
118660	Silt	<2	0.33	20.75	24.12	88.0	84	24.8	11.9	657	2.86	6.3	0.9	2.1	3.4	76.0	0.12	0.42	0.30	14	2.84
118661	Silt	<2	0.29	20.80	24.50	79.5	97	23.8	9.9	521	2.67	6.4	0.8	1.4	3.5	106.0	0.10	0.40	0.28	9	4.84
118662	Silt	<2	0.25	18.82	22.44	74.0	81	23.9	9.6	503	2.54	5.9	0.7	1.3	3.4	114.3	0.09	0.35	0.26	9	5.02
118663	Silt	<2	0.35	21.73	24.53	81.6	106	25.6	10.4	489	2.66	5.3	1.3	2.3	3.0	107.8	0.13	0.31	0.30	13	3.27
118664	Silt	3	0.84	38.51	27.31	99.2	142	33.9	15.2	520	3.45	16.2	1.6	3.6	3.7	104.1	0.20	0.88	0.43	19	1.55
118665	Silt	2	0.69	33.37	22.07	93.0	95	31.3	13.0	461	2.98	17.1	1.7	3.7	3.7	106.6	0.18	1.31	0.31	17	2.03
118666	Silt	2	0.70	33.10	22.74	91.3	99	31.7	13.3	483	2.89	20.9	1.6	3.6	3.7	127.9	0.18	1.51	0.31	17	2.44
118667	Silt	3	0.63	34.84	21.47	90.5	147	27.8	12.4	552	2.65	14.8	1.4	2.8	2.4	122.2	0.31	0.87	0.29	18	2.20
118668	Silt	3	0.64	33.65	21.91	97.1	167	28.9	12.1	486	2.66	13.2	1.6	3.1	2.5	161.4	0.28	0.63	0.28	18	3.10
118669	Silt	2	0.53	33.61	20.62	85.4	119	27.3	12.2	448	2.77	9.0	1.2	3.0	3.3	211.0	0.21	0.47	0.29	17	3.03
118670	Silt	<2	0.50	33.25	19.64	77.1	132	26.2	10.3	278	2.53	8.7	1.3	2.0	2.8	232.0	0.18	0.43	0.26	16	3.95
120001	Silt	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
120002	Silt	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
120003	Silt	<2	0.47	27.61	30.43	205.9	88	67.3	26.6	1022	3.58	8.1	1.0	0.6	3.9	80.2	0.35	0.35	0.30	14	0.98
118501	Silt	<2	0.69	15.69	19.11	93.5	69	17.4	7.8	490	1.89	7.5	1.0	2.2	2.4	108.1	0.29	0.60	0.12	15	10.33
118502	Silt	<2	1.02	33.64	22.55	137.3	88	28.5	11.3	504	3.30	7.5	1.6	2.1	1.7	107.5	0.28	0.53	0.32	30	0.91
118503	Silt	<2	0.54	30.41	27.79	97.5	63	30.3	16.3	649	3.96	8.2	0.9	2.7	4.1	48.5	0.10	0.55	0.42	27	0.36
118504	Silt	<2	0.47	26.49	24.80	95.7	84	27.6	12.7	536	3.30	6.4	0.9	2.3	3.6	57.2	0.19	0.54	0.36	23	0.85
118505	Silt	<2	0.35	21.03	23.46	89.4	75	26.8	12.2	464	3.04	4.7	0.9	5.4	3.4	60.4	0.11	0.36	0.31	20	0.90
118506	Silt	<2	0.32	24.31	29.77	84.2	64	27.8	16.8	1034	3.35	5.4	0.8	1.5	4.3	44.8	0.07	0.25	0.37	23	0.64
118507	Silt	<2	0.30	21.28	26.89	85.8	60	26.7	13.5	594	3.25	4.8	0.8	1.9	4.1	51.7	0.05	0.23	0.37	22	0.92



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: July 07, 2011

Page: 2 of 3 Part 2

CERTIFICATE OF ANALYSIS

WHI11000242.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	
MDL	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	
118651	Silt	0.037	3.9	14.3	0.27	148.5	0.002	4	0.92	0.007	0.09	<0.1	4.3	0.13	0.29	35	0.4	0.04	2.4
118652	Silt	0.036	4.8	14.8	0.25	118.7	0.002	3	0.99	0.004	0.09	<0.1	3.5	0.11	0.06	50	0.3	0.04	2.8
118653	Silt	0.036	5.1	15.5	0.31	105.9	0.003	4	0.98	0.004	0.10	<0.1	3.4	0.11	0.04	51	0.5	0.05	3.1
118654	Silt	0.044	5.6	16.0	0.45	107.7	0.003	5	1.03	0.004	0.10	<0.1	3.6	0.12	0.04	34	0.3	0.03	3.0
118655	Silt	0.041	5.8	15.2	0.42	119.1	0.003	5	1.00	0.004	0.09	<0.1	3.4	0.11	0.04	41	0.7	0.04	2.8
118656	Silt	0.034	6.5	20.1	0.45	126.4	0.003	3	1.20	0.004	0.11	<0.1	3.8	0.12	0.03	36	<0.1	0.03	4.2
118657	Silt	0.036	6.3	19.8	0.48	121.5	0.003	4	1.18	0.004	0.11	<0.1	3.7	0.10	0.03	48	0.3	0.04	4.1
118658	Silt	0.036	6.6	19.4	0.47	121.3	0.003	3	1.20	0.004	0.11	<0.1	3.7	0.11	0.03	51	0.3	0.03	4.0
118659	Silt	0.041	5.2	9.8	1.87	83.4	0.002	3	0.65	0.004	0.10	<0.1	3.2	0.12	0.05	77	0.3	<0.02	1.8
118660	Silt	0.037	5.7	16.1	1.38	98.1	0.004	3	0.96	0.004	0.10	<0.1	3.1	0.10	0.04	100	0.2	<0.02	2.9
118661	Silt	0.039	5.0	11.0	2.11	84.2	0.002	3	0.68	0.004	0.09	<0.1	3.0	0.09	0.04	57	0.1	0.04	1.8
118662	Silt	0.033	4.5	11.1	2.01	91.7	0.002	2	0.65	0.004	0.09	<0.1	2.7	0.09	0.04	72	0.2	<0.02	1.8
118663	Silt	0.040	5.5	15.9	1.34	119.8	0.003	7	0.96	0.006	0.10	<0.1	3.3	0.09	0.07	80	0.6	0.05	3.1
118664	Silt	0.057	10.4	17.3	0.76	108.9	0.003	4	0.83	0.003	0.09	<0.1	4.9	0.10	0.02	209	0.5	0.05	2.8
118665	Silt	0.054	10.5	17.2	0.88	102.0	0.003	4	0.67	0.003	0.07	<0.1	4.3	0.10	0.02	257	0.7	0.04	2.4
118666	Silt	0.054	10.9	19.5	0.90	107.7	0.003	4	0.67	0.003	0.07	<0.1	4.3	0.11	0.03	581	0.8	0.05	2.2
118667	Silt	0.076	10.2	21.1	0.84	111.1	0.005	4	0.91	0.004	0.07	<0.1	4.5	0.09	0.05	578	1.4	0.08	2.7
118668	Silt	0.078	9.9	21.2	0.89	120.5	0.005	5	0.99	0.004	0.08	<0.1	4.2	0.10	0.05	659	1.2	0.05	2.9
118669	Silt	0.064	8.7	19.7	0.81	109.4	0.006	7	1.13	0.004	0.10	<0.1	4.4	0.08	0.06	652	0.6	0.06	3.1
118670	Silt	0.067	7.5	21.5	0.92	101.1	0.004	6	1.05	0.004	0.09	<0.1	4.1	0.06	0.06	463	0.9	0.03	3.0
120001	Silt	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
120002	Silt	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
120003	Silt	0.043	7.4	16.6	0.45	132.1	0.005	6	1.47	0.004	0.11	<0.1	4.2	0.11	0.03	80	<0.1	0.07	3.3
118501	Silt	0.048	7.3	11.9	4.55	84.5	0.004	4	0.62	0.006	0.08	<0.1	2.3	0.13	0.02	91	<0.1	0.06	1.7
118502	Silt	0.083	6.4	32.5	0.60	845.4	0.008	4	1.59	0.008	0.13	0.1	3.8	0.12	0.10	106	0.8	<0.02	5.6
118503	Silt	0.030	7.8	33.8	0.58	159.9	0.006	2	1.73	0.008	0.11	<0.1	4.1	0.08	0.02	397	<0.1	0.03	6.6
118504	Silt	0.041	7.7	27.2	0.71	151.2	0.004	3	1.51	0.007	0.11	0.1	3.6	0.07	0.04	134	0.3	<0.02	5.4
118505	Silt	0.038	7.1	24.5	0.66	157.4	0.005	4	1.41	0.007	0.10	<0.1	3.2	0.07	0.05	100	0.3	<0.02	5.0
118506	Silt	0.026	6.5	25.8	0.61	180.4	0.006	2	1.55	0.006	0.12	0.1	3.7	0.09	0.02	95	<0.1	0.02	5.6
118507	Silt	0.028	5.8	26.1	0.71	170.9	0.005	3	1.48	0.007	0.12	0.1	3.6	0.08	0.03	90	<0.1	0.04	5.9



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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: July 07, 2011

Page: 3 of 3 Part 1

CERTIFICATE OF ANALYSIS

WHI11000242.1

Method	Analyte	3B-50	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.1	0.5	0.01	0.02	0.02	2	0.01
118508	Silt	<2	0.32	22.07	26.86	88.2	74	27.0	13.8	683	3.34	4.8	0.9	2.0	4.0	52.7	0.07	0.23	0.37	23	0.71
118509	Silt	<2	0.33	25.52	23.39	90.7	73	28.1	12.1	459	3.19	4.5	0.9	2.3	3.9	54.8	0.09	0.19	0.37	22	0.64
118511	Silt	<2	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
118512	Silt	<2	0.53	32.82	33.05	139.3	131	42.5	18.7	799	3.82	10.3	1.1	2.4	3.8	97.6	0.21	0.34	0.33	14	1.01
118513	Silt	<2	0.45	29.91	31.64	122.9	102	37.4	15.9	661	3.46	9.7	1.1	0.9	3.6	99.7	0.12	0.38	0.33	14	1.09
118514	Silt	<2	0.48	30.95	28.21	112.2	97	36.1	15.7	522	3.39	9.5	1.1	0.5	3.2	89.6	0.17	0.30	0.34	14	1.10
118515	Silt	<2	0.46	29.74	27.37	111.9	103	32.8	14.0	443	3.28	8.6	1.0	0.8	3.4	77.1	0.12	0.29	0.33	14	0.96
118517	Silt	<2	0.46	33.56	27.34	83.2	81	35.0	16.7	460	3.09	12.0	0.7	0.5	3.6	287.4	0.06	0.34	0.33	14	5.38
118518	Silt	<2	0.39	31.12	25.33	79.3	71	31.5	16.1	454	2.90	11.0	0.7	<0.2	3.5	287.2	0.05	0.31	0.31	13	5.34
118519	Silt	<2	0.41	31.10	25.29	79.0	106	31.9	15.4	459	2.94	11.0	0.8	0.3	3.8	294.8	0.04	0.29	0.32	14	5.57
118521	Silt	<2	0.41	32.00	26.26	82.4	80	33.4	16.4	456	2.90	10.5	0.8	1.0	3.6	274.8	0.06	0.35	0.33	14	4.99



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 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 3 of 3 Part 2

CERTIFICATE OF ANALYSIS

WHI11000242.1

Method	Analyte	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm
MDL		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
118508	Silt	0.028	5.9	27.5	0.61	189.4	0.005	3	1.55	0.007	0.13	0.1	3.7	0.09	0.03	81	0.1	0.03	5.9
118509	Silt	0.031	6.1	27.3	0.54	196.9	0.004	5	1.55	0.007	0.13	0.1	3.7	0.09	0.04	69	0.3	0.02	5.8
118511	Silt	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
118512	Silt	0.044	5.6	17.4	0.41	101.3	0.004	4	1.15	0.005	0.10	<0.1	4.2	0.10	0.05	51	0.4	0.05	3.1
118513	Silt	0.042	5.0	16.5	0.39	96.3	0.003	4	1.09	0.005	0.09	<0.1	4.1	0.11	0.05	30	0.6	0.06	3.2
118514	Silt	0.047	5.1	18.9	0.41	97.0	0.003	3	1.15	0.004	0.10	<0.1	4.0	0.10	0.05	29	1.0	0.05	3.2
118515	Silt	0.053	5.8	19.2	0.49	103.5	0.003	4	1.15	0.004	0.10	<0.1	4.5	0.08	0.04	47	0.9	0.06	3.3
118517	Silt	0.031	4.8	21.1	0.56	63.4	0.003	1	1.40	0.004	0.07	<0.1	4.7	0.06	<0.02	79	0.4	0.12	3.8
118518	Silt	0.031	4.4	19.1	0.54	58.3	0.002	<1	1.30	0.003	0.07	<0.1	4.4	0.05	<0.02	15	0.3	0.06	3.6
118519	Silt	0.032	4.6	20.4	0.61	61.5	0.003	<1	1.34	0.003	0.07	<0.1	4.6	0.05	<0.02	15	0.4	0.07	3.7
118521	Silt	0.036	4.8	19.5	0.63	67.1	0.003	1	1.32	0.003	0.07	<0.1	4.4	0.05	<0.02	22	0.4	0.09	3.9



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Project: SCARLETT
 Report Date: July 07, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

WHI11000242.1

Method	3B-50	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	
Pulp Duplicates																					
118652	Silt	<2	0.47	22.50	29.62	140.0	83	39.5	17.6	964	3.41	5.7	1.0	1.8	3.5	97.7	0.19	0.31	0.41	13	0.67
REP 118652	QC		0.45	23.25	29.33	141.2	83	39.2	17.4	1000	3.52	5.6	1.0	1.8	3.6	99.9	0.18	0.28	0.41	13	0.69
118659	Silt	<2	0.31	21.77	26.45	90.5	114	28.3	11.3	565	2.79	6.5	0.8	1.9	3.8	87.7	0.14	0.44	0.30	8	4.09
REP 118659	QC	<2																			
118665	Silt	2	0.69	33.37	22.07	93.0	95	31.3	13.0	461	2.98	17.1	1.7	3.7	3.7	106.6	0.18	1.31	0.31	17	2.03
REP 118665	QC		0.68	33.51	22.56	90.5	97	31.7	13.4	472	2.98	17.1	1.6	3.1	3.5	102.1	0.20	1.36	0.31	17	2.05
118512	Silt	<2	0.53	32.82	33.05	139.3	131	42.5	18.7	799	3.82	10.3	1.1	2.4	3.8	97.6	0.21	0.34	0.33	14	1.01
REP 118512	QC	<2																			
Reference Materials																					
STD DS8	Standard		12.47	104.4	128.4	307.1	1794	37.5	7.2	601	2.39	23.8	2.6	110.7	6.4	67.7	2.27	6.07	6.91	39	0.70
STD DS8	Standard		13.08	104.0	126.3	308.7	1768	37.3	7.1	599	2.42	23.9	2.7	121.0	6.4	69.0	2.22	5.80	6.81	39	0.70
STD DS8	Standard		12.81	101.2	120.3	314.2	1782	37.6	7.8	606	2.39	23.2	2.5	105.1	6.3	59.9	2.35	5.23	6.54	40	0.70
STD DS8	Standard		13.35	105.1	120.9	308.3	1769	38.8	7.9	601	2.42	23.1	2.6	113.8	6.2	63.8	2.36	5.11	6.55	40	0.72
STD OXC88	Standard	213																			
STD OXC88	Standard	205																			
STD OXC88	Standard	203																			
STD OXC88 Expected		203																			
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01



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Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

WHI11000242.1

Method		1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
MDL		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
Pulp Duplicates																			
118652	Silt	0.036	4.8	14.8	0.25	118.7	0.002	3	0.99	0.004	0.09	<0.1	3.5	0.11	0.06	50	0.3	0.04	2.8
REP 118652	QC	0.037	4.8	14.0	0.24	118.6	0.002	4	0.99	0.004	0.09	<0.1	3.6	0.11	0.06	25	0.2	0.03	2.8
118659	Silt	0.041	5.2	9.8	1.87	83.4	0.002	3	0.65	0.004	0.10	<0.1	3.2	0.12	0.05	77	0.3	<0.02	1.8
REP 118659	QC																		
118665	Silt	0.054	10.5	17.2	0.88	102.0	0.003	4	0.67	0.003	0.07	<0.1	4.3	0.10	0.02	257	0.7	0.04	2.4
REP 118665	QC	0.055	10.0	17.8	0.88	100.7	0.003	3	0.65	0.003	0.07	<0.1	4.0	0.11	0.02	281	0.4	0.05	2.2
118512	Silt	0.044	5.6	17.4	0.41	101.3	0.004	4	1.15	0.005	0.10	<0.1	4.2	0.10	0.05	51	0.4	0.05	3.1
REP 118512	QC																		
Reference Materials																			
STD DS8	Standard	0.073	15.0	115.2	0.59	276.7	0.118	3	0.92	0.091	0.41	3.2	2.3	5.44	0.15	234	4.7	5.21	4.6
STD DS8	Standard	0.077	15.2	114.6	0.60	278.5	0.120	3	0.94	0.094	0.42	3.0	2.3	5.41	0.15	213	4.9	4.80	4.8
STD DS8	Standard	0.084	14.3	115.9	0.59	267.9	0.107	2	0.92	0.091	0.41	2.9	2.3	5.19	0.15	196	5.7	5.35	4.6
STD DS8	Standard	0.084	14.4	110.7	0.60	264.3	0.108	1	0.93	0.091	0.41	2.8	2.4	5.35	0.16	207	5.3	4.98	4.8
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXC88 Expected																			
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1



Acme Analytical Laboratories (Chile) S.A.
 Av. Claudio Arrau 7152 Pudahuel Región Metropolitana de Santiago Chile

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
 Receiving Lab: Canada-Whitehorse
 Received: June 16, 2011
 Report Date: August 16, 2011
 Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI11000243.1

CLIENT JOB INFORMATION

Project: SCARLETT
 Shipment ID: 2011-04
 P.O. Number
 Number of Samples: 5

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
 STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8
 Canada

CC: Scott Turton
 Simon Ridgway
 database backup

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	5	Dry at 60C			VAN
SS80	5	Dry at 60C sieve 100g to -80 mesh			VAN
RJSV	5	Saving all or part of Soil Reject			VAN
5L	5	BLEG leach CN, Au, Ag, Cu, Pb and Zn	1000	Completed	SAN

ADDITIONAL COMMENTS


 GONZALO CASTRO
 Lab Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Chile) S.A.

Av. Claudio Arrau 7152 Pudahuel Región Metropolitana de Santiago Chile

Phone 011-56-2-7486771 Fax 011-56-2-7486772

www.acmelab.com

Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: SCARLETT
Report Date: August 16, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

WHI11000243.1

Table with 6 columns: Method, Analyte, Unit, MDL, and five 5L columns. Rows include Silt analysis for Au, Ag, Cu, Pb, and Zn with various concentration values.



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Av. Claudio Arrau 7152 Pudahuel Región Metropolitana de Santiago Chile

Phone 011-56-2-7486771 Fax 011-56-2-7486772

www.acmelab.com

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830 - 355 Burrard St.
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Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

WHI11000243.1

Table with 6 columns: Method, Analyte, Unit, MDL, and five 5L columns. Rows include STANDARD, Reference Materials, STANDARD Expected, and BLK.



Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: June 20, 2011
Report Date: June 30, 2011
Page: 1 of 5

CERTIFICATE OF ANALYSIS

WHI11000257.1

CLIENT JOB INFORMATION

Project: SCARLETT
Shipment ID: 2011-05
P.O. Number: NA-10337
Number of Samples: 107

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 90 days Invoice for Storage

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

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830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: database backup
Simon Ridgway
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	107	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	107	Dry at 60C			WHI
1F05	107	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
RJSV	107	Saving all or part of Soil Reject			WHI

ADDITIONAL COMMENTS



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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: June 30, 2011

Page: 2 of 5 Part 1

CERTIFICATE OF ANALYSIS

WHI11000257.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
118722	Soil	0.64	50.26	46.65	116.2	142	39.8	22.6	852	4.20	20.8	0.9	2.3	4.8	28.9	0.16	0.66	0.53	21	0.31	0.042
118723	Soil	1.68	46.88	39.82	142.5	259	48.4	18.2	297	4.80	16.9	1.0	2.5	5.0	224.4	0.16	0.96	0.46	11	3.31	0.047
118724	Soil	1.09	55.66	48.22	111.8	156	48.7	25.4	902	4.87	29.0	1.2	1.6	3.5	32.9	0.14	0.98	0.39	24	0.36	0.064
118725	Soil	0.59	52.76	62.05	111.4	180	42.9	22.5	879	4.48	13.2	1.0	1.3	4.9	35.0	0.10	0.71	0.46	23	0.37	0.045
118726	Soil	1.10	56.48	82.23	121.3	385	71.6	39.9	843	6.22	36.5	1.0	0.7	4.4	40.7	0.16	1.18	0.44	20	0.42	0.035
118727	Soil	1.09	30.95	67.29	83.2	124	26.8	17.5	743	3.16	22.8	1.1	2.2	3.1	21.6	0.13	0.91	0.40	23	0.14	0.050
118728	Soil	0.66	34.25	57.43	84.9	58	22.1	19.5	974	2.58	8.2	0.6	0.2	2.0	12.6	0.10	0.44	0.40	22	0.07	0.041
118729	Soil	1.03	38.13	43.92	98.7	75	24.0	13.3	707	3.69	7.7	0.8	1.4	1.5	6.1	0.14	0.57	0.55	30	0.03	0.080
118730	Soil	1.47	32.82	52.93	97.1	61	44.5	41.9	802	3.90	34.7	1.0	1.0	1.7	13.7	0.12	1.45	0.44	30	0.10	0.065
118731	Soil	0.90	29.58	49.96	101.3	74	16.9	11.1	605	2.89	7.3	0.6	0.3	1.3	8.4	0.11	0.54	0.50	28	0.06	0.067
118732	Soil	0.52	39.69	58.37	99.1	149	23.9	17.6	683	2.94	6.8	0.7	0.5	2.1	10.0	0.09	0.40	0.44	21	0.04	0.043
118733	Soil	1.21	45.56	109.6	122.9	286	40.5	42.1	3047	5.31	28.4	1.3	1.0	3.2	26.9	0.20	1.04	0.46	22	0.31	0.103
118734	Soil	0.43	51.01	80.83	110.5	304	32.7	23.6	1526	3.94	12.6	1.0	0.7	3.9	24.0	0.08	0.51	0.58	22	0.28	0.043
118735	Soil	0.84	33.10	42.78	106.9	112	36.1	17.3	343	3.83	18.1	0.6	0.8	2.4	18.5	0.10	0.48	0.41	10	0.16	0.046
118736	Soil	1.24	39.86	43.02	103.5	326	41.0	20.1	578	4.74	16.9	0.7	1.2	3.2	57.8	0.16	1.09	0.39	13	0.69	0.080
118737	Soil	1.10	33.95	38.89	99.4	163	35.2	18.7	744	4.15	19.2	0.7	<0.2	2.0	34.4	0.12	1.03	0.37	15	0.28	0.060
118738	Soil	1.33	36.50	42.49	103.8	210	36.9	18.3	770	4.03	23.1	0.9	1.1	2.4	96.0	0.14	1.36	0.36	15	0.71	0.084
118739	Soil	1.05	36.09	34.52	95.8	247	34.8	15.7	498	3.92	16.1	1.0	1.1	2.4	45.2	0.14	0.80	0.35	14	0.48	0.067
118740	Soil	0.78	51.85	60.43	147.1	303	50.2	26.5	565	4.83	27.0	0.7	0.9	3.2	65.1	0.13	0.67	0.60	19	0.67	0.059
118741	Soil	1.28	66.29	90.10	203.7	401	66.7	48.3	497	5.74	43.5	0.8	2.2	4.3	67.6	0.14	0.98	0.66	19	0.89	0.061
118742	Soil	0.66	53.49	66.41	157.0	337	67.5	37.8	1486	5.97	32.5	0.5	1.2	2.2	115.8	0.10	0.78	0.78	28	0.15	0.047
118743	Soil	0.68	40.65	32.96	106.9	172	35.7	17.5	544	3.97	13.1	0.5	1.1	4.1	37.0	0.11	0.54	0.42	23	0.27	0.037
118744	Soil	1.41	42.68	38.56	153.2	163	39.7	24.5	922	3.54	20.2	1.2	2.4	2.8	90.0	0.35	0.85	0.37	24	1.74	0.089
118745	Soil	1.12	52.90	32.97	130.9	129	41.3	19.3	508	3.06	14.3	1.3	2.9	3.1	71.9	0.17	0.84	0.51	14	1.41	0.077
118746	Soil	1.00	21.58	29.92	97.5	202	22.2	6.1	220	2.67	8.4	1.0	0.3	1.1	52.2	0.24	0.51	0.34	13	0.74	0.129
118747	Soil	0.95	30.19	32.23	78.3	192	27.6	8.1	206	3.06	11.5	1.2	1.1	1.9	62.6	0.10	0.48	0.33	15	1.16	0.073
118748	Soil	0.66	29.56	43.74	71.1	267	25.3	9.7	193	3.80	16.5	1.3	0.8	2.1	110.8	0.07	0.49	0.41	13	0.98	0.053
118749	Soil	0.64	24.59	29.56	107.3	156	22.5	7.4	208	2.94	8.9	1.5	0.5	1.6	126.8	0.15	0.39	0.32	13	1.10	0.081
118750	Soil	0.65	22.46	24.69	69.4	176	19.0	6.2	196	2.44	7.7	2.1	0.6	0.8	174.4	0.14	0.34	0.27	10	1.91	0.106
119369	Soil	0.47	28.37	36.00	105.2	109	34.6	15.7	315	3.78	14.6	0.4	0.4	2.6	20.0	0.07	0.34	0.36	11	0.18	0.026



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: June 30, 2011

Page: 2 of 5 Part 2

CERTIFICATE OF ANALYSIS

WHI11000257.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
118722	Soil	7.9	21.6	0.59	82.7	0.003	3	1.57	0.004	0.07	<0.1	8.0	0.08	0.04	27	0.6	0.11	4.7	2.13	<0.1	0.15
118723	Soil	5.3	14.4	0.33	70.0	0.001	1	0.78	0.005	0.07	<0.1	7.6	0.29	<0.02	96	1.0	0.21	2.6	1.47	<0.1	0.11
118724	Soil	9.9	26.0	0.50	71.1	0.003	3	1.68	0.004	0.08	<0.1	9.1	0.13	0.03	30	0.8	0.11	5.2	2.99	<0.1	0.10
118725	Soil	10.2	23.8	0.56	108.7	0.004	3	1.72	0.004	0.09	<0.1	9.6	0.10	0.02	34	0.7	0.18	5.4	4.70	<0.1	0.15
118726	Soil	11.8	21.3	0.45	98.0	0.003	3	1.43	0.003	0.07	<0.1	9.5	0.15	0.04	61	1.2	0.10	4.2	2.95	<0.1	0.17
118727	Soil	6.6	18.4	0.32	176.3	0.006	3	1.22	0.018	0.09	<0.1	5.1	0.16	0.11	35	0.7	0.09	3.5	4.68	<0.1	0.05
118728	Soil	4.3	16.9	0.40	99.5	0.005	3	1.33	0.003	0.08	<0.1	2.6	0.10	0.02	38	0.2	0.07	3.9	4.11	<0.1	0.03
118729	Soil	4.6	25.0	0.41	88.2	0.005	2	1.87	0.002	0.09	<0.1	2.5	0.13	0.03	22	0.4	0.08	4.9	3.26	<0.1	0.07
118730	Soil	7.2	21.4	0.41	124.0	0.012	2	1.58	0.003	0.08	0.1	2.3	0.22	0.03	48	0.7	0.07	4.3	4.19	<0.1	0.02
118731	Soil	4.5	18.0	0.32	109.2	0.006	3	1.27	0.002	0.09	<0.1	2.3	0.11	0.03	27	0.4	0.08	4.4	4.62	<0.1	0.02
118732	Soil	4.1	18.7	0.43	96.5	0.004	2	1.46	0.003	0.08	<0.1	3.1	0.08	0.03	33	0.3	0.10	4.2	2.34	<0.1	0.07
118733	Soil	7.5	18.5	0.26	570.5	0.004	2	1.37	0.002	0.11	<0.1	7.4	0.18	0.05	74	0.5	0.06	3.8	4.50	<0.1	0.07
118734	Soil	8.0	23.8	0.56	112.3	0.002	2	1.72	0.002	0.08	<0.1	11.7	0.10	0.02	78	0.5	0.07	5.2	3.34	<0.1	0.13
118735	Soil	3.6	7.6	0.09	67.6	<0.001	2	0.59	0.002	0.07	<0.1	3.4	0.16	<0.02	29	0.3	0.05	1.4	2.09	<0.1	0.06
118736	Soil	4.5	10.8	0.16	94.7	0.001	4	0.47	0.002	0.08	<0.1	6.5	0.12	0.05	68	0.6	0.03	1.6	2.35	<0.1	0.06
118737	Soil	3.9	12.9	0.16	65.0	0.002	2	0.70	0.001	0.08	<0.1	4.0	0.11	0.03	50	0.3	0.06	1.9	3.51	<0.1	0.04
118738	Soil	5.3	19.7	0.31	83.8	0.003	4	0.90	0.002	0.08	<0.1	5.2	0.10	0.06	95	0.6	0.12	2.9	3.43	<0.1	0.06
118739	Soil	6.6	13.0	0.26	93.6	0.002	3	0.82	0.001	0.07	<0.1	5.0	0.10	0.04	83	0.6	0.11	2.3	1.78	<0.1	0.06
118740	Soil	6.1	19.3	0.44	92.1	0.002	3	1.39	0.002	0.09	<0.1	9.1	0.11	0.03	113	0.5	0.15	4.2	2.93	<0.1	0.08
118741	Soil	5.6	19.5	0.55	139.3	0.002	5	1.48	0.003	0.09	<0.1	9.5	0.18	0.06	109	0.7	0.13	4.2	9.23	<0.1	0.14
118742	Soil	2.8	19.8	0.16	101.7	0.002	2	0.42	<0.001	0.07	<0.1	5.5	0.21	<0.02	212	0.3	0.15	2.1	7.60	<0.1	0.05
118743	Soil	6.4	18.1	0.33	74.2	0.004	2	1.07	0.002	0.08	<0.1	5.3	0.09	<0.02	138	0.2	0.04	3.4	2.02	<0.1	0.04
118744	Soil	12.3	29.2	1.16	569.7	0.004	7	0.89	0.004	0.11	<0.1	6.4	0.21	0.14	113	2.2	0.05	3.1	5.20	<0.1	0.13
118745	Soil	4.9	14.4	0.41	84.9	0.002	5	0.58	0.002	0.08	<0.1	6.0	0.08	0.06	73	0.8	0.05	1.8	1.23	<0.1	0.11
118746	Soil	5.1	15.8	0.24	106.6	0.004	3	0.99	0.004	0.08	<0.1	2.7	0.10	0.09	138	0.5	0.04	2.5	2.85	<0.1	0.06
118747	Soil	5.5	17.6	0.26	88.5	0.003	3	0.98	0.003	0.08	<0.1	3.6	0.09	0.07	62	0.5	0.05	2.7	2.14	<0.1	0.06
118748	Soil	3.8	15.4	0.19	119.1	0.002	3	0.93	0.004	0.07	<0.1	3.9	0.11	0.07	103	0.4	0.06	2.6	2.02	<0.1	0.05
118749	Soil	4.8	13.6	0.35	76.1	0.003	5	0.86	0.004	0.08	<0.1	3.5	0.10	0.07	78	0.5	0.04	2.3	1.54	<0.1	0.06
118750	Soil	4.9	11.2	0.26	142.0	0.003	7	0.68	0.005	0.06	<0.1	2.1	0.08	0.16	79	0.7	0.03	1.8	1.31	<0.1	0.05
119369	Soil	3.2	8.2	0.09	85.4	0.001	1	0.47	0.003	0.07	<0.1	5.7	0.09	<0.02	22	0.2	0.06	1.3	1.91	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: June 30, 2011

Page: 2 of 5 Part 3

CERTIFICATE OF ANALYSIS

WHI11000257.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
118722	Soil			0.09	6.0	1.0	<0.05	5.4	19.51	22.8	0.08	<1	1.4	43.7	<10	<2
118723	Soil			0.06	4.8	2.3	<0.05	6.0	12.89	15.9	0.05	<1	1.0	14.9	12	<2
118724	Soil			0.15	7.6	2.5	<0.05	3.4	24.91	31.5	0.04	<1	1.6	45.3	<10	2
118725	Soil			0.17	9.3	0.9	<0.05	5.6	24.62	29.6	0.05	<1	1.4	51.6	<10	<2
118726	Soil			0.12	6.7	2.1	<0.05	5.7	27.16	35.8	0.05	<1	1.3	40.9	<10	3
118727	Soil			0.20	10.9	1.0	<0.05	2.2	10.80	18.5	0.04	<1	0.9	26.2	<10	<2
118728	Soil			0.19	11.4	1.2	<0.05	1.2	5.08	11.4	0.04	<1	0.9	32.9	<10	<2
118729	Soil			0.29	14.0	1.7	<0.05	2.5	5.45	10.7	0.05	<1	0.8	37.4	<10	<2
118730	Soil			0.34	11.0	1.2	<0.05	0.7	7.09	18.3	0.03	<1	1.4	36.3	<10	<2
118731	Soil			0.30	14.8	1.1	<0.05	0.9	4.48	10.4	0.03	<1	0.9	30.6	<10	<2
118732	Soil			0.15	8.9	0.7	<0.05	2.5	6.24	9.5	0.06	<1	1.1	42.3	<10	<2
118733	Soil			0.14	13.7	1.1	<0.05	2.3	22.66	26.7	0.05	<1	1.9	24.7	13	<2
118734	Soil			0.09	7.7	1.5	<0.05	5.2	29.27	20.8	0.05	<1	1.6	51.7	12	<2
118735	Soil			0.04	5.3	0.7	<0.05	1.8	9.45	11.3	0.04	<1	0.9	8.1	11	<2
118736	Soil			0.05	4.8	1.4	<0.05	2.8	17.31	13.2	0.04	<1	1.1	12.4	<10	<2
118737	Soil			0.09	6.5	1.5	<0.05	1.4	10.63	11.1	0.04	<1	1.0	15.8	<10	<2
118738	Soil			0.15	8.0	4.5	<0.05	2.3	15.11	15.9	0.03	<1	1.1	29.0	<10	2
118739	Soil			0.09	5.3	0.9	<0.05	2.5	16.77	18.3	0.06	<1	0.7	23.4	<10	<2
118740	Soil			0.13	6.2	1.5	<0.05	2.7	18.83	17.1	0.07	<1	1.6	44.2	11	<2
118741	Soil			0.17	9.9	1.0	<0.05	6.2	19.65	17.9	0.07	<1	2.0	51.7	13	2
118742	Soil			0.04	7.5	1.1	<0.05	2.1	7.95	6.9	0.05	<1	1.4	5.7	19	2
118743	Soil			0.15	5.8	0.9	<0.05	1.8	9.88	17.0	0.04	<1	1.1	24.7	<10	<2
118744	Soil			0.17	11.6	2.4	<0.05	4.2	16.77	29.2	0.03	<1	0.8	22.5	16	<2
118745	Soil			0.13	4.9	1.1	<0.05	4.3	11.89	14.6	0.04	<1	1.2	11.8	11	2
118746	Soil			0.21	9.9	4.2	<0.05	2.1	8.96	11.9	0.02	<1	0.7	19.0	10	<2
118747	Soil			0.20	8.5	2.5	<0.05	2.3	10.05	14.1	0.04	<1	1.1	23.5	<10	<2
118748	Soil			0.13	6.6	1.8	<0.05	2.2	8.09	9.9	0.04	<1	1.1	24.2	<10	<2
118749	Soil			0.18	9.1	1.4	<0.05	2.0	9.66	12.6	0.04	<1	0.8	22.5	<10	<2
118750	Soil			0.18	7.9	2.0	<0.05	1.6	10.34	11.8	<0.02	<1	0.9	16.0	<10	<2
119369	Soil			0.05	5.2	0.7	<0.05	1.9	9.87	9.3	0.04	<1	0.8	8.9	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: June 30, 2011

Page: 3 of 5 Part 1

CERTIFICATE OF ANALYSIS

WHI11000257.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
119370	Soil	0.56	33.80	49.21	122.5	285	37.2	18.1	682	5.13	7.8	0.7	<0.2	4.4	102.1	0.10	0.30	0.52	13	1.12	0.082
119371	Soil	0.59	22.62	26.91	91.9	130	25.0	10.1	453	3.36	7.3	0.6	<0.2	3.4	17.1	0.08	0.28	0.35	11	0.15	0.031
119372	Soil	0.79	11.62	22.98	52.8	69	17.5	6.9	274	3.32	12.5	0.6	0.3	2.6	34.3	0.09	0.69	0.33	40	0.36	0.035
119373	Soil	0.77	16.50	38.46	112.6	204	20.6	8.1	3961	6.80	25.5	1.2	1.9	1.3	17.3	0.42	2.66	0.25	28	2.74	0.158
119374	Soil	0.76	21.10	63.27	813.7	374	77.2	32.7	5433	10.27	29.3	2.4	5.8	5.1	7.2	1.14	1.83	0.25	47	0.39	0.108
119375	Soil	0.59	10.80	18.82	46.2	114	10.7	5.3	1406	2.01	42.9	1.3	1.7	0.6	48.8	0.22	1.48	0.14	17	9.74	0.135
119376	Soil	0.73	18.64	59.51	224.4	123	19.8	13.6	8625	10.31	100.2	1.6	1.2	1.2	28.8	0.84	3.13	0.27	40	3.42	0.135
119377	Soil	0.90	12.39	34.25	71.3	118	15.7	9.0	5272	5.84	13.9	1.0	0.8	1.0	18.2	0.29	1.43	0.23	34	3.26	0.139
119378	Soil	0.81	9.93	33.91	105.8	124	13.3	7.8	7454	6.99	12.9	1.3	0.3	1.1	24.3	0.57	1.37	0.16	28	5.18	0.126
119379	Soil	0.79	12.40	30.94	67.2	134	17.5	9.4	4347	4.60	14.9	1.0	0.5	1.8	25.1	0.34	1.49	0.23	37	4.43	0.093
119380	Soil	1.16	16.19	41.98	149.6	84	23.5	9.3	2846	7.28	31.2	2.5	2.5	5.1	7.4	0.26	1.98	0.31	46	0.30	0.051
119381	Soil	0.90	19.87	65.30	385.5	141	26.7	15.5	4363	6.04	30.2	1.1	0.6	4.0	10.4	0.82	2.54	0.32	41	1.12	0.079
119382	Soil	1.13	13.69	28.79	69.3	124	21.1	9.5	5551	6.18	13.3	1.3	0.7	2.9	15.6	0.31	1.09	0.27	49	2.40	0.073
119383	Soil	0.90	16.79	41.50	79.5	83	23.9	11.1	3619	5.21	15.8	0.7	1.5	4.0	14.0	0.26	1.29	0.29	39	1.30	0.057
119384	Soil	0.73	19.23	28.59	76.0	103	23.9	10.3	915	4.25	12.2	0.7	0.3	4.6	10.4	0.15	0.67	0.28	32	0.33	0.025
119385	Soil	0.73	10.81	31.83	110.8	100	19.4	10.7	3139	4.79	11.3	0.5	<0.2	3.4	21.2	0.41	0.79	0.27	37	3.40	0.050
119386	Soil	0.77	18.64	23.63	67.9	34	25.2	12.6	404	3.78	9.9	0.9	0.4	4.3	20.8	0.10	0.53	0.25	26	0.34	0.022
119387	Soil	0.58	18.44	30.11	68.2	76	21.2	11.2	1445	3.73	11.9	0.4	0.2	3.3	22.6	0.20	0.78	0.27	31	1.28	0.031
119388	Soil	0.75	23.60	26.46	80.0	76	28.9	12.7	627	3.73	13.5	0.9	1.4	4.4	20.4	0.09	0.89	0.30	30	0.81	0.027
119389	Soil	0.52	21.75	25.72	78.2	90	22.6	10.2	492	3.83	13.2	0.8	0.4	3.3	30.0	0.09	0.79	0.29	22	0.85	0.038
119390	Soil	1.31	21.01	26.23	95.9	28	22.8	14.0	349	4.90	14.7	0.5	<0.2	2.7	27.7	0.16	0.65	0.33	36	0.39	0.025
119391	Soil	0.56	42.88	40.15	57.7	102	37.0	22.8	1441	4.53	5.4	0.6	0.2	4.7	11.6	0.04	0.25	0.34	14	0.36	0.043
119392	Soil	1.14	56.44	38.12	77.1	70	40.9	47.5	1193	3.35	5.2	0.7	0.3	4.8	10.9	0.05	0.23	0.54	27	0.14	0.025
119393	Soil	1.18	33.02	26.17	93.6	32	27.9	20.3	759	4.64	5.3	0.9	3.7	3.7	9.4	0.18	0.54	0.42	45	0.07	0.037
119394	Soil	0.87	39.81	39.52	104.7	42	30.2	29.8	1492	5.48	4.9	0.5	0.5	3.6	6.0	0.10	0.31	0.44	39	0.04	0.041
119395	Soil	1.31	35.93	49.51	80.9	49	31.0	25.1	1532	4.40	4.4	0.7	0.7	3.4	10.9	0.16	0.36	0.39	33	0.12	0.051
119396	Soil	0.79	31.01	25.42	73.5	20	34.5	19.0	869	3.57	5.9	0.8	0.4	5.3	10.9	0.06	0.44	0.35	34	0.08	0.021
119397	Soil	0.96	34.45	51.20	88.2	78	36.1	43.8	2240	4.31	4.5	0.8	0.3	4.4	14.2	0.09	0.25	0.34	31	0.11	0.046
119398	Soil	0.48	36.63	28.74	84.2	48	32.8	16.0	350	4.60	6.8	0.7	<0.2	4.8	6.2	0.12	0.23	0.40	33	0.02	0.026
119399	Soil	1.19	24.50	33.62	113.1	64	23.3	16.0	873	4.54	5.5	0.5	<0.2	3.0	7.9	0.29	0.49	0.34	44	0.08	0.047



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 3 of 5 Part 2

CERTIFICATE OF ANALYSIS

WHI11000257.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
119370	Soil	6.4	11.0	0.25	143.0	<0.001	3	1.04	0.003	0.07	<0.1	6.9	0.24	0.03	47	0.6	0.04	2.3	1.51	<0.1	0.06
119371	Soil	7.1	10.6	0.15	183.5	<0.001	2	0.88	0.001	0.11	<0.1	3.7	0.15	<0.02	44	0.4	<0.02	2.3	0.78	<0.1	0.02
119372	Soil	6.6	19.9	0.25	214.3	0.003	1	1.85	<0.001	0.05	0.1	2.7	0.16	<0.02	20	0.1	0.07	5.2	1.20	<0.1	0.03
119373	Soil	11.7	18.3	1.31	162.3	0.005	3	1.22	0.003	0.05	<0.1	3.1	0.15	0.08	264	0.7	0.03	3.1	0.39	0.1	0.08
119374	Soil	32.0	26.2	0.30	232.8	0.004	1	1.64	<0.001	0.03	<0.1	13.8	0.95	0.04	1565	1.3	0.05	3.1	0.52	0.1	0.10
119375	Soil	6.4	13.7	5.42	72.9	0.009	3	0.83	0.008	0.03	0.1	1.1	0.12	0.04	157	0.2	0.06	1.5	0.39	<0.1	0.02
119376	Soil	18.0	27.2	1.71	339.5	0.008	3	1.42	0.003	0.03	0.2	3.6	0.49	0.10	373	0.4	0.06	3.1	0.52	<0.1	0.06
119377	Soil	16.5	23.3	1.78	146.7	0.010	1	1.74	0.003	0.04	<0.1	2.6	0.11	0.09	105	0.3	0.06	3.9	0.78	<0.1	0.05
119378	Soil	17.2	20.1	2.95	229.2	0.011	2	1.47	0.005	0.04	0.1	2.2	0.13	0.09	151	0.5	0.08	3.0	0.70	0.1	0.04
119379	Soil	13.8	24.3	2.74	149.2	0.006	2	1.80	0.004	0.04	0.1	3.2	0.10	0.05	133	0.5	0.04	4.0	0.60	<0.1	0.07
119380	Soil	22.8	34.3	0.33	177.3	0.005	2	2.37	<0.001	0.05	0.1	7.0	0.19	<0.02	431	0.5	0.08	5.5	1.27	<0.1	0.10
119381	Soil	20.5	28.7	0.66	164.4	0.004	3	1.95	0.002	0.08	<0.1	5.8	0.18	0.04	292	0.4	0.04	5.1	0.72	<0.1	0.13
119382	Soil	20.1	32.5	1.51	167.0	0.011	3	2.21	0.002	0.06	0.1	5.0	0.26	0.04	131	0.6	<0.02	5.5	1.46	<0.1	0.09
119383	Soil	15.1	28.4	0.96	183.1	0.006	4	1.93	0.003	0.09	<0.1	5.0	0.17	0.03	45	0.4	0.05	5.3	1.05	<0.1	0.12
119384	Soil	13.9	24.9	0.38	119.8	0.004	2	1.72	0.002	0.12	<0.1	5.4	0.13	<0.02	62	0.4	0.05	4.7	0.99	<0.1	0.07
119385	Soil	15.0	26.5	2.05	187.6	0.005	7	2.13	0.003	0.14	<0.1	4.3	0.13	<0.02	48	0.3	0.04	5.1	1.01	<0.1	0.06
119386	Soil	9.5	23.8	0.32	95.6	0.004	3	1.51	0.002	0.10	<0.1	4.0	0.10	<0.02	32	0.3	0.04	3.6	1.12	<0.1	0.04
119387	Soil	9.5	22.1	0.73	123.0	0.004	4	1.55	0.003	0.10	<0.1	3.8	0.12	0.02	67	0.2	<0.02	4.3	0.85	<0.1	0.05
119388	Soil	12.0	26.8	0.60	123.3	0.007	3	1.57	0.004	0.09	<0.1	4.6	0.10	<0.02	137	0.3	0.06	4.1	0.94	<0.1	0.07
119389	Soil	10.5	20.3	0.44	100.9	0.003	3	1.33	0.003	0.08	<0.1	4.4	0.07	0.02	147	0.2	0.08	3.4	0.73	<0.1	0.04
119390	Soil	5.8	26.5	0.30	75.6	0.006	3	1.41	0.001	0.13	<0.1	2.5	0.10	<0.02	94	0.3	0.04	5.0	1.13	<0.1	0.04
119391	Soil	15.1	19.9	0.21	107.7	0.005	5	1.01	0.002	0.20	<0.1	9.0	0.15	0.03	66	0.4	<0.02	3.3	5.38	<0.1	0.08
119392	Soil	6.4	38.7	0.45	153.9	0.010	2	1.84	0.005	0.26	<0.1	6.8	0.16	<0.02	23	0.4	0.03	7.0	3.52	<0.1	0.02
119393	Soil	8.0	41.8	0.44	173.6	0.014	2	2.22	0.004	0.17	<0.1	4.1	0.17	<0.02	31	0.3	0.02	7.9	2.68	<0.1	<0.02
119394	Soil	5.2	44.9	0.45	75.5	0.005	2	2.71	0.005	0.14	<0.1	5.1	0.17	<0.02	15	0.3	0.04	9.3	3.30	<0.1	0.05
119395	Soil	5.2	44.9	0.41	139.4	0.006	2	2.13	0.007	0.16	<0.1	4.5	0.14	0.04	37	0.3	0.03	7.5	2.70	<0.1	0.04
119396	Soil	9.9	37.6	0.60	142.6	0.009	<1	1.98	0.004	0.14	<0.1	4.2	0.11	<0.02	20	0.2	0.04	7.0	2.21	<0.1	0.02
119397	Soil	8.6	42.0	0.55	128.2	0.006	1	2.19	0.007	0.16	<0.1	7.0	0.14	0.02	32	0.2	0.02	7.7	3.97	<0.1	0.03
119398	Soil	6.8	40.9	0.44	65.8	0.004	<1	2.29	0.004	0.12	<0.1	4.7	0.14	<0.02	<5	0.2	<0.02	8.2	5.52	<0.1	0.03
119399	Soil	7.0	36.9	0.26	112.0	0.007	1	1.97	0.003	0.16	<0.1	3.0	0.12	<0.02	27	0.3	0.04	8.2	1.68	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: June 30, 2011

Page: 3 of 5 Part 3

CERTIFICATE OF ANALYSIS

WHI11000257.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
119370	Soil	0.04	7.4	1.7	<0.05	2.5	17.96	24.0	0.05	<1	1.4	23.2	13	<2
119371	Soil	0.08	9.0	0.8	<0.05	1.0	7.98	20.5	0.04	<1	0.9	11.4	<10	<2
119372	Soil	0.46	7.4	1.0	<0.05	0.9	3.79	17.9	0.04	<1	0.8	17.2	<10	<2
119373	Soil	0.20	4.8	0.6	<0.05	2.1	16.08	24.6	0.04	<1	0.6	7.1	<10	<2
119374	Soil	0.26	5.3	1.0	<0.05	3.1	46.65	79.2	0.08	<1	1.0	6.5	75	<2
119375	Soil	0.21	3.3	1.3	<0.05	0.5	7.60	11.5	<0.02	<1	0.5	5.1	<10	<2
119376	Soil	0.18	5.0	0.8	<0.05	1.2	22.40	34.4	0.05	<1	1.4	5.4	<10	<2
119377	Soil	0.25	8.0	0.8	<0.05	1.1	15.03	29.4	0.03	<1	1.1	8.1	<10	<2
119378	Soil	0.25	6.2	1.4	<0.05	1.2	15.86	26.4	<0.02	<1	1.2	6.1	<10	<2
119379	Soil	0.26	6.0	0.7	<0.05	1.6	13.88	27.7	0.04	<1	1.3	10.0	<10	<2
119380	Soil	0.34	9.4	2.1	<0.05	2.2	21.71	34.3	0.03	<1	1.3	17.6	<10	<2
119381	Soil	0.28	9.4	1.2	<0.05	2.8	17.14	35.6	0.03	<1	1.2	12.5	13	<2
119382	Soil	0.45	12.5	1.0	<0.05	2.2	15.91	29.4	0.04	<1	1.9	14.1	<10	<2
119383	Soil	0.36	13.8	1.1	<0.05	3.2	13.78	32.0	0.04	<1	1.7	17.5	<10	<2
119384	Soil	0.27	11.6	0.9	<0.05	2.0	11.75	29.1	0.04	<1	1.3	19.4	<10	<2
119385	Soil	0.43	15.6	1.2	<0.05	1.6	10.66	31.3	0.04	1	1.1	18.6	<10	<2
119386	Soil	0.32	9.9	1.4	<0.05	1.6	6.83	24.4	0.04	<1	0.9	26.3	<10	<2
119387	Soil	0.34	12.1	0.9	<0.05	1.8	6.49	21.1	0.04	1	1.1	19.6	<10	<2
119388	Soil	0.45	8.7	0.9	<0.05	2.4	9.29	23.1	0.03	<1	0.7	24.5	<10	<2
119389	Soil	0.27	6.8	0.5	<0.05	1.5	8.70	17.2	0.04	<1	1.0	25.2	<10	<2
119390	Soil	0.57	12.3	0.9	<0.05	2.0	2.35	11.2	0.03	<1	0.6	38.7	<10	<2
119391	Soil	0.18	15.8	1.9	<0.05	2.0	24.42	33.3	0.07	<1	1.2	12.0	<10	<2
119392	Soil	0.15	27.1	3.8	<0.05	1.2	11.90	19.6	0.02	<1	1.5	23.7	<10	<2
119393	Soil	0.60	25.5	2.4	<0.05	0.5	6.97	19.4	0.04	<1	1.3	22.0	<10	<2
119394	Soil	0.28	22.2	2.7	<0.05	1.7	5.67	13.0	0.05	<1	1.6	39.6	<10	<2
119395	Soil	0.37	19.2	4.5	<0.05	1.1	6.54	14.6	0.03	<1	1.3	28.4	<10	<2
119396	Soil	0.24	15.4	1.3	<0.05	1.0	6.52	25.0	0.03	<1	1.2	30.1	<10	<2
119397	Soil	0.20	18.5	4.3	<0.05	0.9	10.08	27.6	0.03	<1	1.8	33.6	<10	<2
119398	Soil	0.16	18.8	1.1	<0.05	1.9	5.38	16.7	0.04	<1	1.6	39.7	<10	<2
119399	Soil	0.59	18.0	1.4	<0.05	0.7	3.34	14.2	0.03	<1	0.6	29.0	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: June 30, 2011

Page: 4 of 5 Part 1

CERTIFICATE OF ANALYSIS

WHI11000257.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
119421	Soil	1.15	33.17	19.51	97.6	122	21.1	12.2	472	2.97	7.8	4.5	2.3	2.7	46.8	0.31	1.74	0.20	29	0.66	0.053
119422	Soil	0.83	26.91	15.08	113.9	85	36.4	14.5	308	3.44	6.2	2.0	1.1	9.3	48.8	0.18	0.42	0.23	32	0.26	0.020
119423	Soil	1.29	35.80	42.80	95.5	66	38.4	20.1	736	4.60	10.8	0.9	<0.2	3.2	19.0	0.23	0.69	0.31	26	0.13	0.067
119424	Soil	0.60	28.68	35.05	83.0	147	33.0	13.9	454	3.76	7.5	0.8	<0.2	4.3	21.2	0.11	0.36	0.33	21	0.22	0.032
119426	Soil	1.60	26.15	28.72	86.1	82	23.2	11.7	629	3.78	9.7	0.7	1.2	0.5	8.3	0.16	0.82	0.37	50	0.05	0.065
119427	Soil	1.15	31.64	34.51	101.1	124	30.5	16.5	619	3.72	13.3	1.2	1.3	0.8	106.1	0.27	0.67	0.35	30	0.73	0.106
119428	Soil	1.17	37.29	40.87	99.6	124	35.7	18.3	653	3.96	16.4	1.7	0.3	1.3	47.7	0.20	0.75	0.37	26	0.71	0.100
119429	Soil	1.31	21.87	23.66	63.5	45	22.2	9.8	345	3.61	11.6	0.6	0.6	0.4	10.1	0.11	0.69	0.36	39	0.04	0.043
119430	Soil	1.12	26.81	33.80	105.6	57	31.0	12.9	417	4.08	10.5	0.7	1.0	2.0	13.2	0.17	0.64	0.34	31	0.04	0.052
119431	Soil	1.17	25.83	27.07	90.4	69	30.3	12.7	389	3.62	9.2	0.9	1.6	2.3	8.2	0.18	0.77	0.28	34	0.06	0.041
119432	Soil	1.61	43.25	63.99	97.7	304	24.5	31.2	1685	4.24	8.9	0.8	3.7	2.3	9.4	0.11	0.81	0.42	29	0.05	0.096
119433	Soil	1.29	17.89	23.27	64.9	44	15.0	6.1	204	3.00	9.2	0.6	3.2	2.3	12.6	0.12	0.84	0.39	43	0.03	0.034
119434	Soil	1.26	49.44	58.27	242.7	423	76.7	29.1	1141	7.04	15.2	1.1	1.4	8.1	30.6	0.51	0.53	0.43	7	0.24	0.019
119435	Soil	0.59	25.77	39.16	82.9	205	34.4	11.9	389	2.81	19.9	1.4	0.9	5.1	81.7	0.15	0.84	0.40	11	4.72	0.064
119436	Soil	0.71	17.11	20.35	83.2	183	20.9	8.0	546	4.17	9.1	1.9	1.3	1.5	70.6	0.38	0.52	0.31	27	1.43	0.091
119437	Soil	0.83	27.90	46.23	98.8	85	28.0	13.7	747	4.22	13.8	0.5	1.2	1.6	12.6	0.09	0.68	0.39	18	0.03	0.055
119438	Soil	1.88	43.31	68.31	135.2	136	42.5	25.2	656	4.39	22.6	0.9	1.1	2.7	28.0	0.10	0.59	0.46	15	0.39	0.052
119439	Soil	1.26	24.55	26.34	77.2	50	29.6	10.8	444	3.46	12.0	1.0	3.2	2.8	13.1	0.09	1.00	0.33	39	0.10	0.038
119440	Soil	1.76	18.62	25.33	70.5	225	16.9	8.0	515	3.70	9.5	0.9	1.8	0.8	7.8	0.17	1.00	0.36	58	0.05	0.056
119441	Soil	1.54	55.49	61.04	143.1	774	42.3	34.1	610	5.27	21.8	0.8	3.1	5.8	66.4	0.27	0.95	0.35	21	0.80	0.110
119442	Soil	1.20	30.25	35.84	69.5	340	13.9	10.4	680	4.02	5.3	0.6	0.6	2.0	5.4	0.19	0.56	0.32	34	0.03	0.052
119443	Soil	1.45	31.96	45.92	94.4	363	35.0	16.8	539	4.47	11.2	1.1	1.1	4.2	78.0	0.14	0.84	0.36	18	0.91	0.059
119444	Soil	1.06	42.73	59.39	130.5	221	41.9	24.7	646	4.58	24.3	1.3	1.5	3.6	82.5	0.11	0.94	0.47	17	0.75	0.075
119446	Soil	1.18	26.46	38.42	80.8	260	32.4	14.5	380	2.93	6.8	0.7	1.0	2.4	74.8	0.07	0.37	0.33	11	0.96	0.049
119447	Soil	0.71	26.91	27.35	87.8	117	25.3	11.1	680	3.06	12.3	1.2	1.5	2.8	95.6	0.10	0.65	0.28	12	4.07	0.066
119488	Soil	0.81	44.49	38.12	105.9	253	35.1	18.1	1391	4.78	10.9	1.8	1.3	6.3	101.9	0.12	0.46	0.44	24	1.44	0.195
119489	Soil	0.92	51.82	62.00	152.9	382	56.8	26.8	827	5.62	22.9	1.0	2.0	4.9	44.6	0.12	0.92	0.45	20	0.44	0.047
119490	Soil	1.06	45.59	94.31	105.0	99	29.2	39.3	1362	3.83	12.2	1.1	0.9	2.5	17.3	0.13	0.70	0.39	31	0.13	0.081
119491	Soil	0.47	35.13	30.73	85.1	77	27.5	17.8	947	3.33	10.2	1.3	1.2	4.1	68.6	0.19	0.65	0.39	22	0.96	0.080
119492	Soil	1.54	26.05	18.11	60.2	213	16.7	7.5	378	1.98	10.8	5.9	6.5	2.1	88.0	0.34	1.01	0.19	19	3.07	0.122



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 4 of 5 Part 2

CERTIFICATE OF ANALYSIS

WHI11000257.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
119421	Soil	18.7	20.1	0.22	109.6	0.002	5	0.98	0.002	0.11	<0.1	4.5	0.10	0.04	330	1.0	0.04	2.7	0.31	<0.1	0.08
119422	Soil	33.4	38.1	0.32	108.4	0.003	3	1.04	<0.001	0.11	<0.1	7.7	0.11	<0.02	314	1.3	<0.02	3.6	0.60	0.2	0.11
119423	Soil	8.4	20.7	0.25	79.8	0.005	2	1.44	0.002	0.09	<0.1	4.7	0.14	0.03	34	0.4	0.04	4.0	3.18	<0.1	0.03
119424	Soil	7.9	21.0	0.26	149.8	0.003	1	1.71	0.002	0.10	<0.1	4.4	0.15	<0.02	24	0.3	0.06	3.7	2.12	<0.1	0.04
119426	Soil	10.3	26.3	0.26	80.7	0.015	2	1.67	0.002	0.10	0.1	1.8	0.17	0.04	37	0.5	0.06	6.3	3.76	<0.1	<0.02
119427	Soil	8.8	24.1	0.25	191.3	0.007	2	1.40	0.003	0.09	<0.1	2.8	0.14	0.06	28	0.6	0.12	4.4	2.68	<0.1	0.02
119428	Soil	9.8	19.1	0.11	115.5	0.007	2	0.79	0.003	0.08	<0.1	4.7	0.12	0.07	49	0.6	0.10	2.7	2.52	<0.1	0.05
119429	Soil	9.0	20.8	0.15	64.0	0.012	1	1.10	0.002	0.08	0.1	1.4	0.13	0.03	30	0.5	0.07	4.4	2.70	<0.1	<0.02
119430	Soil	9.0	23.5	0.25	65.6	0.009	3	1.61	0.004	0.09	<0.1	2.5	0.17	0.04	39	0.8	0.05	3.9	3.03	<0.1	<0.02
119431	Soil	15.1	22.5	0.31	66.9	0.017	2	1.43	0.003	0.06	0.2	2.9	0.15	<0.02	35	0.6	0.03	3.7	2.49	<0.1	<0.02
119432	Soil	5.8	24.7	0.34	56.4	0.009	3	1.51	0.004	0.08	<0.1	3.8	0.18	0.09	83	0.7	<0.02	4.2	9.98	0.1	0.02
119433	Soil	11.1	17.3	0.19	57.1	0.011	2	1.24	0.001	0.06	0.1	1.9	0.14	0.02	27	0.6	0.05	5.1	3.19	<0.1	<0.02
119434	Soil	11.8	5.7	0.03	167.6	<0.001	2	0.28	0.002	0.08	<0.1	6.1	0.34	0.04	188	1.0	0.03	0.6	2.22	<0.1	0.09
119435	Soil	7.2	9.2	2.13	47.9	0.001	4	0.35	0.003	0.13	<0.1	3.7	0.22	0.03	235	0.7	0.04	1.5	1.09	<0.1	0.04
119436	Soil	15.3	21.1	0.22	186.8	0.004	3	1.25	0.002	0.07	<0.1	2.6	0.15	0.07	127	0.7	0.03	3.0	0.73	<0.1	0.02
119437	Soil	4.3	10.6	0.08	126.9	0.002	2	0.67	0.001	0.07	<0.1	3.4	0.14	0.04	337	0.4	0.04	1.8	3.59	<0.1	<0.02
119438	Soil	4.7	24.3	0.24	182.4	0.002	2	1.00	0.002	0.10	<0.1	5.5	0.11	0.03	63	0.7	0.10	2.5	4.60	<0.1	0.04
119439	Soil	13.7	25.1	0.47	132.6	0.014	1	1.62	0.003	0.06	0.2	2.9	0.15	<0.02	43	0.6	0.05	4.1	2.30	<0.1	<0.02
119440	Soil	10.6	27.2	0.31	78.9	0.013	1	1.83	<0.001	0.06	0.1	1.8	0.18	0.04	62	0.7	0.05	6.7	4.30	<0.1	<0.02
119441	Soil	5.0	27.3	0.53	133.5	0.003	5	1.52	0.002	0.11	<0.1	10.8	0.27	0.03	120	1.1	0.04	4.3	5.82	<0.1	0.08
119442	Soil	4.0	22.6	0.18	53.1	0.004	2	1.32	<0.001	0.09	<0.1	2.6	0.10	0.02	61	0.4	0.05	5.7	5.30	<0.1	0.04
119443	Soil	9.3	21.1	0.33	143.1	0.002	3	1.13	0.001	0.10	<0.1	7.8	0.11	0.04	112	0.4	0.06	3.1	2.13	<0.1	0.05
119444	Soil	7.2	18.9	0.33	130.1	0.003	4	1.30	0.002	0.11	<0.1	5.7	0.18	0.05	83	0.8	0.10	3.2	6.10	<0.1	0.10
119446	Soil	4.9	21.1	0.24	115.4	0.001	3	0.89	0.003	0.08	<0.1	3.6	0.11	0.05	66	0.5	0.04	2.3	3.21	<0.1	0.03
119447	Soil	8.0	17.3	1.90	56.4	0.002	4	0.91	0.004	0.08	<0.1	4.0	0.08	0.05	183	0.5	0.03	2.6	2.56	<0.1	0.05
119488	Soil	16.4	27.7	0.50	92.4	0.003	5	1.88	0.006	0.12	<0.1	10.4	0.12	0.04	55	0.6	0.08	5.8	2.90	<0.1	0.10
119489	Soil	10.2	21.7	0.46	106.5	0.002	3	1.55	0.003	0.10	<0.1	8.9	0.13	0.03	87	0.8	0.06	3.9	2.05	<0.1	0.08
119490	Soil	6.5	25.2	0.55	156.0	0.007	4	1.79	0.003	0.11	<0.1	5.7	0.15	0.03	57	0.4	0.07	5.0	8.89	<0.1	<0.02
119491	Soil	19.7	21.7	0.54	219.4	0.003	6	1.61	0.002	0.14	<0.1	8.1	0.09	0.05	58	0.5	0.06	4.5	1.29	<0.1	0.06
119492	Soil	11.6	11.2	1.37	1057	0.003	6	0.53	0.004	0.12	<0.1	2.7	0.12	0.04	261	0.8	0.03	1.7	0.32	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: June 30, 2011

Page: 4 of 5 Part 3

CERTIFICATE OF ANALYSIS

WHI11000257.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
119421	Soil	0.15	9.7	0.7	<0.05	2.7	9.83	37.8	0.04	1	1.3	11.5	<10	<2
119422	Soil	0.11	9.9	0.9	<0.05	4.5	16.05	67.8	0.04	<1	1.3	13.8	14	<2
119423	Soil	0.20	11.9	0.9	<0.05	0.5	11.10	30.1	0.05	<1	1.4	29.2	<10	<2
119424	Soil	0.15	13.0	0.7	<0.05	1.2	6.27	24.7	0.03	<1	1.0	25.0	<10	<2
119426	Soil	0.35	15.4	1.2	<0.05	<0.1	3.57	22.4	0.03	1	0.4	20.3	<10	<2
119427	Soil	0.23	13.8	1.5	<0.05	0.5	9.89	23.1	0.03	<1	0.7	21.4	<10	<2
119428	Soil	0.21	10.6	1.9	<0.05	0.9	12.75	18.2	0.05	<1	0.9	5.9	<10	<2
119429	Soil	0.29	12.3	1.4	<0.05	<0.1	3.02	18.3	0.03	<1	0.3	7.7	<10	<2
119430	Soil	0.30	13.1	1.1	<0.05	0.2	4.15	21.3	0.04	<1	0.7	19.3	<10	<2
119431	Soil	0.36	8.9	0.9	<0.05	0.2	6.30	31.5	0.03	<1	0.7	15.9	<10	<2
119432	Soil	0.32	12.2	4.1	<0.05	0.8	6.06	14.9	0.07	<1	0.9	28.3	11	<2
119433	Soil	0.45	11.1	1.0	<0.05	0.3	3.25	24.6	0.03	<1	0.5	12.5	<10	<2
119434	Soil	0.03	5.4	2.3	<0.05	8.4	22.15	35.8	0.04	<1	1.4	2.4	18	<2
119435	Soil	0.06	6.8	1.3	<0.05	2.4	8.84	17.7	0.03	<1	0.6	2.8	<10	<2
119436	Soil	0.42	8.8	1.1	<0.05	1.6	10.85	33.6	0.03	1	1.4	11.3	<10	<2
119437	Soil	0.11	9.6	1.4	<0.05	0.7	5.77	10.6	0.04	<1	0.7	4.5	<10	<2
119438	Soil	0.09	8.8	13.1	<0.05	2.5	11.73	12.6	<0.02	<1	1.2	27.0	<10	<2
119439	Soil	0.42	9.1	1.0	<0.05	0.5	6.87	34.8	0.03	<1	0.8	27.3	<10	<2
119440	Soil	0.74	13.5	1.4	<0.05	0.2	4.33	22.7	0.04	<1	0.7	27.6	<10	<2
119441	Soil	0.10	10.4	5.8	<0.05	4.1	27.81	15.6	0.04	<1	1.9	52.5	<10	<2
119442	Soil	0.33	13.5	3.9	<0.05	2.2	4.32	9.0	0.03	<1	0.7	15.5	<10	<2
119443	Soil	0.17	7.1	1.8	<0.05	2.3	26.66	24.8	0.04	<1	1.2	30.3	<10	<2
119444	Soil	0.14	12.0	3.2	<0.05	4.3	17.33	19.8	0.04	<1	1.2	41.9	<10	<2
119446	Soil	0.14	7.5	4.0	<0.05	2.2	10.87	13.2	0.02	<1	1.0	30.2	<10	<2
119447	Soil	0.10	6.2	4.1	<0.05	1.9	10.35	20.2	0.02	<1	0.7	28.1	<10	<2
119488	Soil	0.16	10.4	2.1	<0.05	3.7	32.89	45.1	0.05	<1	1.5	57.9	<10	<2
119489	Soil	0.12	7.8	2.1	<0.05	4.2	31.22	29.3	0.05	<1	1.4	37.5	<10	<2
119490	Soil	0.25	13.9	1.7	<0.05	0.9	10.92	19.8	0.04	<1	2.6	47.9	<10	<2
119491	Soil	0.18	9.3	1.6	<0.05	2.3	24.54	45.1	0.05	<1	1.7	33.5	<10	<2
119492	Soil	0.07	6.1	1.3	<0.05	2.1	12.44	25.9	0.02	<1	0.8	5.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: June 30, 2011

Page: 5 of 5 Part 1

CERTIFICATE OF ANALYSIS

WHI11000257.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
119493	Soil	0.86	35.27	25.25	127.7	118	42.5	14.1	521	3.58	8.3	2.1	3.7	5.1	23.1	0.16	1.32	0.25	37	0.32	0.093
119494	Soil	0.62	23.41	14.76	104.6	62	23.4	8.9	397	2.69	5.9	1.9	2.6	2.3	28.7	0.23	0.44	0.27	35	0.54	0.092
119495	Soil	0.48	39.86	37.95	107.9	29	46.8	18.0	583	4.31	3.6	0.5	3.1	4.9	8.9	0.08	0.31	0.43	27	0.05	0.035
119496	Soil	0.93	67.10	62.64	133.8	115	51.1	21.0	1090	4.18	4.2	1.5	3.8	6.0	52.8	0.24	0.43	0.42	24	0.39	0.077
119497	Soil	0.25	32.93	20.82	77.9	53	21.6	12.9	247	2.12	5.4	1.3	1.3	3.0	333.5	0.10	0.24	0.31	12	8.66	0.046
119498	Soil	0.92	32.88	22.82	94.3	111	27.0	11.9	454	3.17	10.1	2.2	1.9	4.0	36.0	0.25	0.56	0.32	23	0.56	0.062
119499	Soil	0.88	37.09	18.72	97.7	192	19.9	9.4	334	2.53	5.8	1.9	13.6	3.3	40.1	0.34	0.40	0.21	23	1.08	0.072
120062	Soil	0.58	53.64	68.34	117.7	159	37.5	34.3	1059	4.31	7.2	1.2	2.5	6.0	25.7	0.09	0.63	0.50	27	0.21	0.026
120063	Soil	0.94	46.96	54.11	112.2	284	45.8	25.9	1465	4.53	22.3	1.2	0.3	5.5	31.5	0.15	0.71	0.45	22	0.35	0.067
120064	Soil	0.99	37.54	65.61	99.8	97	24.0	30.3	3014	5.13	14.8	1.1	0.8	3.3	7.7	0.16	0.73	0.38	33	0.04	0.207
120065	Soil	1.21	31.30	95.31	86.6	178	21.0	37.3	4587	5.19	12.7	1.1	0.8	1.9	15.0	0.17	0.84	0.33	38	0.09	0.163
120066	Soil	0.53	41.19	41.36	117.7	132	34.4	15.2	474	3.75	8.9	1.2	1.3	3.4	71.6	0.19	0.44	0.45	22	0.74	0.061
120067	Soil	0.67	33.97	21.02	72.8	64	24.0	10.5	259	3.50	6.2	0.5	0.8	4.2	11.8	0.10	0.42	0.49	33	0.04	0.017
120068	Soil	0.84	26.85	50.14	50.5	174	2.7	1.1	16	8.91	16.0	0.5	0.9	11.0	7.3	<0.01	0.48	0.57	21	<0.01	0.094
120069	Soil	0.53	29.18	37.70	46.5	95	5.0	2.2	57	4.63	10.7	0.4	0.8	4.9	2.9	<0.01	0.41	0.37	15	<0.01	0.045
120070	Soil	0.33	4.84	17.47	64.0	70	8.4	2.4	972	1.50	7.2	0.9	2.2	0.7	46.1	0.18	0.72	0.09	5	11.43	0.089
120071	Soil	0.35	15.31	27.49	79.2	140	16.0	4.5	2894	4.39	22.9	1.7	<0.2	1.2	24.3	0.33	1.08	0.19	20	7.26	0.162



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 5 of 5 Part 2

CERTIFICATE OF ANALYSIS

WHI11000257.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
119493	Soil	26.5	52.0	0.33	105.2	0.006	4	1.06	0.002	0.11	<0.1	8.0	0.13	0.03	252	1.1	0.03	3.0	0.77	0.1	0.03
119494	Soil	24.8	34.0	0.50	130.3	0.006	3	1.34	<0.001	0.11	<0.1	3.5	0.13	0.05	81	1.0	0.06	4.4	1.19	<0.1	0.03
119495	Soil	7.4	46.2	1.52	106.5	0.005	4	2.79	<0.001	0.17	<0.1	3.7	0.14	<0.02	29	0.3	<0.02	7.9	4.52	<0.1	0.07
119496	Soil	10.2	53.1	1.52	174.2	0.011	8	2.21	0.001	0.18	<0.1	8.9	0.20	0.04	72	0.9	0.02	7.0	5.70	<0.1	0.09
119497	Soil	8.3	11.2	0.49	79.8	<0.001	6	0.49	0.003	0.15	<0.1	4.4	0.09	<0.02	87	0.4	0.08	1.5	0.63	<0.1	0.03
119498	Soil	21.9	19.9	0.46	170.1	0.003	5	1.40	0.002	0.14	<0.1	6.0	0.11	0.04	102	0.5	0.04	3.7	0.65	0.1	0.08
119499	Soil	13.0	15.2	0.52	161.2	0.002	4	0.82	0.002	0.13	<0.1	4.7	0.11	0.04	117	0.8	0.04	2.3	0.47	<0.1	0.10
120062	Soil	9.9	25.8	0.59	111.9	0.007	2	1.82	0.005	0.11	<0.1	10.1	0.10	<0.02	28	0.4	0.09	5.5	5.13	<0.1	0.07
120063	Soil	12.7	22.3	0.40	143.5	0.003	3	1.55	0.004	0.11	<0.1	10.5	0.12	0.03	39	0.7	0.10	3.9	3.87	<0.1	0.08
120064	Soil	5.9	26.2	0.49	94.8	0.007	4	1.99	<0.001	0.14	<0.1	3.1	0.16	0.04	38	0.6	0.06	4.8	5.41	<0.1	0.06
120065	Soil	7.2	27.4	0.36	201.3	0.008	3	1.72	<0.001	0.11	<0.1	2.6	0.17	0.05	63	0.6	0.07	5.3	8.59	<0.1	<0.02
120066	Soil	10.4	22.6	0.42	111.9	0.003	4	1.62	0.009	0.14	<0.1	7.6	0.10	0.07	32	0.7	0.23	4.9	1.80	<0.1	0.10
120067	Soil	6.7	24.9	0.45	74.7	0.003	2	2.07	<0.001	0.13	<0.1	2.5	0.10	<0.02	18	0.4	0.08	5.2	2.20	<0.1	0.05
120068	Soil	2.7	22.6	0.02	84.8	0.001	2	0.46	0.005	0.09	<0.1	5.9	0.19	0.10	39	1.3	0.07	4.6	2.92	<0.1	0.04
120069	Soil	2.7	15.8	0.05	24.9	0.001	2	0.68	0.002	0.08	<0.1	3.1	0.11	0.03	9	0.5	0.03	2.8	2.13	<0.1	0.04
120070	Soil	4.2	5.3	8.15	26.1	0.001	3	0.19	0.007	0.04	<0.1	0.9	0.04	0.08	97	0.3	<0.02	0.4	0.18	<0.1	0.05
120071	Soil	19.0	13.7	4.83	105.7	0.003	2	0.97	0.005	0.04	<0.1	2.7	0.10	0.12	638	0.5	0.04	1.5	0.28	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: June 30, 2011

Page: 5 of 5 Part 3

CERTIFICATE OF ANALYSIS

WHI11000257.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
119493	Soil	0.17	9.2	1.2	<0.05	1.3	20.59	61.5	0.04	<1	1.1	12.9	10	<2
119494	Soil	0.33	14.6	1.2	<0.05	1.2	13.04	56.9	0.04	<1	1.1	23.9	11	<2
119495	Soil	0.26	18.9	4.3	<0.05	2.9	4.49	17.4	0.03	<1	1.4	86.6	<10	<2
119496	Soil	0.31	17.6	7.3	<0.05	3.4	25.61	30.6	0.04	<1	2.0	82.2	13	<2
119497	Soil	0.05	6.8	1.8	<0.05	1.3	11.86	22.7	0.03	<1	0.8	5.9	<10	<2
119498	Soil	0.22	10.2	1.2	<0.05	2.6	22.66	45.1	0.05	<1	1.7	23.7	<10	<2
119499	Soil	0.12	7.4	1.0	<0.05	4.1	13.00	29.2	0.03	<1	1.1	9.3	<10	<2
120062	Soil	0.15	9.4	1.4	<0.05	5.0	21.06	27.0	0.06	<1	1.3	56.0	<10	<2
120063	Soil	0.11	9.9	1.3	<0.05	3.4	28.15	36.2	0.06	<1	1.6	37.1	12	<2
120064	Soil	0.13	16.4	2.2	<0.05	2.1	7.17	23.5	0.04	<1	1.6	44.0	12	<2
120065	Soil	0.21	16.8	2.0	<0.05	0.6	7.65	21.7	0.05	<1	1.6	38.6	<10	<2
120066	Soil	0.23	9.5	1.1	<0.05	3.4	17.85	25.8	0.04	<1	1.4	44.7	<10	<2
120067	Soil	0.20	12.3	1.5	<0.05	3.3	4.78	14.7	0.03	<1	0.7	56.0	<10	<2
120068	Soil	0.03	10.2	1.1	<0.05	3.5	1.99	9.4	0.09	<1	0.4	1.5	<10	<2
120069	Soil	0.06	7.7	0.8	<0.05	3.5	1.92	6.5	0.05	<1	0.4	3.1	<10	<2
120070	Soil	0.04	1.9	0.9	<0.05	1.6	5.30	9.6	<0.02	<1	0.1	1.1	<10	<2
120071	Soil	0.13	4.2	0.7	<0.05	1.5	21.16	26.5	0.02	<1	0.7	5.3	<10	<2



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

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830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: SCARLETT
Report Date: June 30, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

WHI11000257.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
118726	Soil	1.10	56.48	82.23	121.3	385	71.6	39.9	843	6.22	36.5	1.0	0.7	4.4	40.7	0.16	1.18	0.44	20	0.42	0.035
REP 118726	QC	1.18	59.52	85.67	122.5	424	75.9	39.3	895	6.29	37.6	1.1	1.8	4.7	43.4	0.17	1.21	0.44	21	0.46	0.036
118746	Soil	1.00	21.58	29.92	97.5	202	22.2	6.1	220	2.67	8.4	1.0	0.3	1.1	52.2	0.24	0.51	0.34	13	0.74	0.129
REP 118746	QC	0.90	19.37	28.79	86.5	191	19.7	5.8	218	2.59	8.3	1.0	<0.2	1.4	46.9	0.20	0.47	0.32	13	0.72	0.124
119377	Soil	0.90	12.39	34.25	71.3	118	15.7	9.0	5272	5.84	13.9	1.0	0.8	1.0	18.2	0.29	1.43	0.23	34	3.26	0.139
REP 119377	QC	0.89	12.72	33.80	77.4	108	16.5	9.7	5302	6.03	14.0	1.2	0.2	1.0	18.9	0.27	1.47	0.22	35	3.29	0.141
119396	Soil	0.79	31.01	25.42	73.5	20	34.5	19.0	869	3.57	5.9	0.8	0.4	5.3	10.9	0.06	0.44	0.35	34	0.08	0.021
REP 119396	QC	0.83	32.40	26.51	79.1	26	35.4	20.3	898	3.72	6.2	0.9	0.4	5.6	11.9	0.08	0.48	0.37	35	0.09	0.022
119433	Soil	1.29	17.89	23.27	64.9	44	15.0	6.1	204	3.00	9.2	0.6	3.2	2.3	12.6	0.12	0.84	0.39	43	0.03	0.034
REP 119433	QC	1.28	18.62	24.24	67.8	41	16.7	6.3	202	3.07	9.8	0.6	1.5	2.4	12.1	0.10	0.85	0.46	43	0.03	0.037
120068	Soil	0.84	26.85	50.14	50.5	174	2.7	1.1	16	8.91	16.0	0.5	0.9	11.0	7.3	<0.01	0.48	0.57	21	<0.01	0.094
REP 120068	QC	0.88	26.92	51.40	50.5	181	2.6	1.1	17	8.94	15.9	0.5	0.4	11.1	7.3	<0.01	0.46	0.58	21	<0.01	0.096
120070	Soil	0.33	4.84	17.47	64.0	70	8.4	2.4	972	1.50	7.2	0.9	2.2	0.7	46.1	0.18	0.72	0.09	5	11.43	0.089
REP 120070	QC	0.30	5.04	16.59	60.6	62	8.1	2.4	940	1.48	7.3	0.8	1.3	0.7	46.4	0.19	0.72	0.06	5	11.00	0.087
Reference Materials																					
STD DS8	Standard	12.69	105.8	122.1	316.7	1691	35.0	7.1	616	2.41	24.1	2.7	106.7	6.5	71.3	2.42	6.09	6.58	40	0.71	0.079
STD DS8	Standard	13.33	112.6	124.1	331.2	1777	37.2	7.3	631	2.56	24.5	2.8	122.4	7.2	73.5	2.45	6.01	6.54	42	0.76	0.078
STD DS8	Standard	11.14	102.8	117.8	298.6	1640	36.5	7.5	597	2.36	24.7	2.4	101.2	5.6	60.8	2.13	5.54	6.29	38	0.65	0.076
STD DS8	Standard	11.71	108.2	126.7	302.9	1722	37.5	7.2	603	2.38	25.0	2.7	102.7	6.3	67.0	2.21	5.78	6.91	39	0.67	0.083
STD DS8	Standard	15.50	124.9	132.0	319.5	1744	41.4	8.6	672	2.69	25.5	3.1	111.7	7.0	67.9	2.44	5.82	6.71	44	0.78	0.085
STD DS8	Standard	13.88	117.1	116.2	296.4	1576	37.4	8.0	568	2.44	22.5	2.7	93.6	6.4	62.0	2.02	5.00	5.75	41	0.72	0.068
STD DS8	Standard	11.63	108.1	122.4	303.3	1606	35.7	7.0	595	2.46	25.1	2.6	109.8	6.0	64.4	2.24	5.17	6.39	40	0.66	0.087
STD DS8	Standard	11.93	106.3	118.4	304.0	1587	35.8	7.0	589	2.38	25.4	2.6	103.9	6.1	65.9	2.13	5.27	6.48	39	0.68	0.090
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: June 30, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

WHI11000257.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
118726	Soil	11.8	21.3	0.45	98.0	0.003	3	1.43	0.003	0.07	<0.1	9.5	0.15	0.04	61	1.2	0.10	4.2	2.95	<0.1	0.17
REP 118726	QC	12.2	22.6	0.45	103.5	0.002	3	1.48	0.003	0.07	<0.1	9.6	0.15	0.04	75	1.2	0.11	4.9	3.04	<0.1	0.14
118746	Soil	5.1	15.8	0.24	106.6	0.004	3	0.99	0.004	0.08	<0.1	2.7	0.10	0.09	138	0.5	0.04	2.5	2.85	<0.1	0.06
REP 118746	QC	5.3	15.6	0.24	103.8	0.006	2	0.97	0.003	0.09	<0.1	3.1	0.10	0.09	110	0.6	0.06	2.4	3.35	<0.1	0.06
119377	Soil	16.5	23.3	1.78	146.7	0.010	1	1.74	0.003	0.04	<0.1	2.6	0.11	0.09	105	0.3	0.06	3.9	0.78	<0.1	0.05
REP 119377	QC	17.1	23.6	1.78	156.8	0.011	2	1.80	0.003	0.04	0.1	2.5	0.11	0.09	118	0.6	0.06	3.7	0.80	0.1	0.07
119396	Soil	9.9	37.6	0.60	142.6	0.009	<1	1.98	0.004	0.14	<0.1	4.2	0.11	<0.02	20	0.2	0.04	7.0	2.21	<0.1	0.02
REP 119396	QC	11.0	38.9	0.63	156.7	0.011	2	2.08	0.004	0.15	<0.1	4.6	0.12	<0.02	19	0.2	0.03	7.2	2.42	<0.1	0.04
119433	Soil	11.1	17.3	0.19	57.1	0.011	2	1.24	0.001	0.06	0.1	1.9	0.14	0.02	27	0.6	0.05	5.1	3.19	<0.1	<0.02
REP 119433	QC	10.6	17.5	0.19	54.9	0.008	2	1.25	0.001	0.06	0.1	1.9	0.15	0.02	34	0.6	0.04	5.0	2.99	<0.1	<0.02
120068	Soil	2.7	22.6	0.02	84.8	0.001	2	0.46	0.005	0.09	<0.1	5.9	0.19	0.10	39	1.3	0.07	4.6	2.92	<0.1	0.04
REP 120068	QC	2.7	22.0	0.02	81.7	0.001	2	0.45	0.005	0.08	<0.1	5.8	0.19	0.11	37	1.0	0.07	4.8	2.87	0.1	0.05
120070	Soil	4.2	5.3	8.15	26.1	0.001	3	0.19	0.007	0.04	<0.1	0.9	0.04	0.08	97	0.3	<0.02	0.4	0.18	<0.1	0.05
REP 120070	QC	4.0	5.2	7.95	25.4	0.001	3	0.19	0.007	0.04	<0.1	0.9	0.04	0.11	90	0.3	<0.02	0.5	0.18	<0.1	0.05
Reference Materials																					
STD DS8	Standard	15.5	114.6	0.61	285.0	0.116	3	0.93	0.097	0.42	3.1	2.1	5.44	0.16	202	5.2	4.97	4.7	2.37	<0.1	0.08
STD DS8	Standard	17.0	118.0	0.64	278.9	0.128	2	1.01	0.106	0.44	2.9	2.4	5.50	0.16	200	5.1	4.92	4.7	2.34	0.2	0.08
STD DS8	Standard	11.4	102.4	0.59	242.2	0.100	2	0.86	0.084	0.40	2.9	1.9	5.04	0.16	204	4.9	4.71	4.2	2.26	<0.1	0.06
STD DS8	Standard	12.9	109.5	0.60	270.0	0.106	3	0.88	0.085	0.41	3.3	2.0	5.46	0.16	195	4.9	5.20	4.5	2.36	0.2	0.07
STD DS8	Standard	17.6	132.5	0.67	281.7	0.140	2	1.00	0.095	0.45	3.1	2.4	5.56	0.17	189	5.6	5.08	5.1	2.61	0.1	0.09
STD DS8	Standard	16.1	119.1	0.61	246.0	0.122	2	0.92	0.087	0.41	2.8	2.5	5.00	0.16	172	5.1	4.66	4.5	2.35	<0.1	0.07
STD DS8	Standard	14.3	108.1	0.60	254.7	0.115	3	0.88	0.083	0.41	3.0	2.2	5.07	0.16	195	4.9	4.73	4.4	2.38	0.1	0.07
STD DS8	Standard	14.5	106.5	0.60	260.8	0.116	3	0.86	0.082	0.39	2.8	2.2	5.03	0.16	188	4.8	4.62	4.3	2.34	0.1	0.08
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: SCARLETT
 Report Date: June 30, 2011

Page: 1 of 1 Part 3

QUALITY CONTROL REPORT

WHI11000257.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
118726	Soil	0.12	6.7	2.1	<0.05	5.7	27.16	35.8	0.05	<1	1.3	40.9	<10	3
REP 118726	QC	0.11	6.8	2.7	<0.05	5.9	28.65	36.0	0.05	<1	1.4	42.4	<10	<2
118746	Soil	0.21	9.9	4.2	<0.05	2.1	8.96	11.9	0.02	<1	0.7	19.0	10	<2
REP 118746	QC	0.18	11.0	3.9	<0.05	2.4	7.89	12.1	<0.02	<1	0.7	16.4	<10	<2
119377	Soil	0.25	8.0	0.8	<0.05	1.1	15.03	29.4	0.03	<1	1.1	8.1	<10	<2
REP 119377	QC	0.28	8.0	0.7	<0.05	1.1	15.47	30.1	0.03	2	1.0	8.8	<10	<2
119396	Soil	0.24	15.4	1.3	<0.05	1.0	6.52	25.0	0.03	<1	1.2	30.1	<10	<2
REP 119396	QC	0.27	16.5	1.6	<0.05	1.0	6.94	26.6	0.03	<1	1.5	31.6	<10	<2
119433	Soil	0.45	11.1	1.0	<0.05	0.3	3.25	24.6	0.03	<1	0.5	12.5	<10	<2
REP 119433	QC	0.41	10.3	1.0	<0.05	0.3	3.28	22.9	0.03	<1	0.4	12.6	<10	<2
120068	Soil	0.03	10.2	1.1	<0.05	3.5	1.99	9.4	0.09	<1	0.4	1.5	<10	<2
REP 120068	QC	0.04	9.4	1.1	<0.05	3.8	2.09	9.4	0.08	<1	0.2	1.4	<10	<2
120070	Soil	0.04	1.9	0.9	<0.05	1.6	5.30	9.6	<0.02	<1	0.1	1.1	<10	<2
REP 120070	QC	0.03	2.0	0.9	<0.05	1.6	5.21	9.6	<0.02	<1	0.3	1.0	<10	<2
Reference Materials														
STD DS8	Standard	1.38	37.2	7.2	<0.05	2.2	5.99	26.8	2.28	49	5.6	26.3	118	338
STD DS8	Standard	1.49	37.0	7.1	<0.05	2.3	6.53	30.4	2.23	57	5.2	26.0	124	354
STD DS8	Standard	0.99	36.5	6.7	<0.05	1.7	4.96	21.0	2.06	64	5.4	24.9	118	308
STD DS8	Standard	1.03	38.5	6.6	<0.05	2.0	5.25	23.2	2.24	54	5.3	26.1	118	353
STD DS8	Standard	1.40	40.9	7.2	<0.05	2.0	6.58	28.1	2.30	55	5.2	28.4	112	343
STD DS8	Standard	1.21	36.3	6.0	<0.05	1.8	5.88	26.5	2.08	51	4.8	24.2	124	302
STD DS8	Standard	1.05	36.1	6.6	<0.05	1.9	5.56	24.8	2.26	54	5.5	27.4	117	336
STD DS8	Standard	1.21	36.2	6.5	<0.05	1.9	5.87	25.7	2.13	50	4.4	27.8	119	313
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: June 24, 2011
Report Date: July 06, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI11000306.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-06
P.O. Number
Number of Samples: 20

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: David Clark
Scott Turton
Simon Ridgway
database backup

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
S150	20	Sieve to 150 mesh			VAN
RJSV	20	Saving all or part of Soil Reject			VAN
3B01+3B04	20	lead collection fire assay - ICP-ES finish	50	Completed	VAN
1F03	20	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.

** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 06, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

WHI11000306.1

Method	Analyte	3B-50	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
119251	Silt	<2	0.44	39.28	28.13	99.6	71	33.4	15.3	708	3.44	16.5	0.9	2.7	4.5	111.9	0.15	1.01	0.42	13	3.02
119252	Silt	<2	0.43	34.10	26.68	90.8	57	31.9	14.9	690	3.36	15.9	0.8	1.9	4.3	121.7	0.10	0.93	0.38	12	3.34
119253	Silt	<2	0.51	35.55	28.87	93.8	63	34.0	15.1	733	3.40	16.3	0.8	0.7	4.2	117.5	0.13	1.40	0.38	13	3.21
119254	Silt	<2	0.45	33.35	29.14	94.1	60	31.2	14.1	671	3.25	15.7	0.8	1.6	4.2	112.1	0.11	0.81	0.35	12	3.16
119255	Silt	<2	0.43	35.42	23.60	95.4	56	30.8	15.1	650	3.35	17.2	0.9	1.1	4.3	99.0	0.11	0.95	0.35	12	2.88
119256	Silt	<2	0.44	35.36	32.28	92.0	60	32.4	13.7	697	3.36	16.1	0.8	0.8	4.2	121.9	0.09	0.92	0.34	12	3.22
119257	Silt	<2	0.42	40.20	28.64	105.0	69	34.4	16.6	751	3.41	18.0	0.9	2.0	4.4	113.0	0.10	1.00	0.35	13	2.78
119258	Silt	<2	0.51	37.67	28.59	101.9	59	37.5	16.3	731	3.48	16.6	0.9	0.9	4.5	115.9	0.11	0.96	0.37	13	3.30
119201	Silt	<2	0.47	43.02	28.51	107.0	74	36.5	17.8	851	3.63	19.9	0.9	0.9	4.6	94.7	0.12	1.10	0.39	13	2.49
119202	Silt	<2	0.54	42.81	39.66	108.1	71	37.8	17.3	823	3.56	19.6	0.9	0.8	4.5	87.0	0.11	1.09	0.38	12	2.30
119203	Silt	<2	0.50	42.14	28.17	104.4	67	36.3	17.4	831	3.62	19.6	0.9	1.4	4.6	94.7	0.10	1.15	0.38	12	2.60
119204	Silt	<2	0.45	40.08	26.97	105.2	62	36.6	17.2	846	3.55	19.1	0.9	0.8	4.6	89.1	0.09	1.13	0.37	13	2.47
119205	Silt	<2	0.43	39.20	26.76	100.7	71	33.0	17.1	792	3.58	19.0	0.9	1.3	4.4	95.8	0.11	1.08	0.36	12	2.69
119206	Silt	<2	0.44	38.70	25.19	100.8	61	33.7	16.9	800	3.48	17.9	0.9	4.0	4.6	96.5	0.10	0.99	0.35	12	2.52
119207	Silt	<2	0.43	40.89	28.78	107.4	76	37.0	18.7	882	3.57	19.8	0.9	1.4	4.7	103.0	0.10	1.04	0.41	13	2.54
119208	Silt	<2	0.44	43.61	27.40	108.5	67	37.3	18.2	794	3.60	19.5	0.9	1.9	4.8	96.0	0.11	1.06	0.40	13	2.46
119209	Silt	<2	0.48	41.73	32.17	104.5	66	36.7	16.3	761	3.55	19.0	0.9	0.8	4.9	108.5	0.11	1.06	0.38	13	2.77
119210	Silt	<2	0.39	38.20	27.48	99.1	61	34.7	15.8	752	3.39	16.9	0.8	1.2	4.2	103.2	0.10	0.95	0.34	12	2.91
119211	Silt	<2	0.38	37.92	26.55	95.9	64	32.5	16.9	758	3.41	18.0	0.9	0.6	4.1	108.3	0.09	0.90	0.34	12	2.90
119448	Silt	3	0.45	35.03	30.15	91.1	62	32.3	14.8	659	3.23	14.9	0.8	2.2	4.0	115.9	0.10	0.88	0.33	12	3.54



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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 06, 2011

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

WHI11000306.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	
MDL	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	
119251	Silt	0.040	5.4	18.9	1.24	57.4	0.002	3	1.15	0.003	0.06	<0.1	3.7	0.06	0.10	451	0.4	0.07	3.5
119252	Silt	0.038	4.9	18.8	1.25	50.5	0.002	3	1.10	0.003	0.06	<0.1	3.7	0.05	0.09	256	0.3	0.07	3.3
119253	Silt	0.036	5.0	24.2	1.24	50.7	0.002	3	1.10	0.003	0.06	<0.1	3.7	0.05	0.09	274	0.3	0.08	3.5
119254	Silt	0.033	5.0	19.2	1.25	54.3	0.002	3	1.08	0.003	0.06	<0.1	3.5	0.05	0.08	296	0.3	0.06	3.3
119255	Silt	0.039	5.1	17.9	1.29	52.2	0.002	2	1.07	0.003	0.05	<0.1	3.6	0.04	0.11	1215	0.3	0.07	3.2
119256	Silt	0.038	5.0	18.9	1.25	49.9	0.002	2	1.09	0.003	0.06	<0.1	3.6	0.05	0.10	178	0.3	0.05	3.4
119257	Silt	0.040	5.5	18.8	1.16	53.5	0.002	3	1.09	0.003	0.06	<0.1	3.9	0.05	0.12	409	0.4	0.04	3.4
119258	Silt	0.036	5.2	23.8	1.31	48.9	0.002	2	1.15	0.004	0.06	<0.1	3.8	0.05	0.09	188	0.3	0.07	3.4
119201	Silt	0.043	5.8	20.3	1.21	64.5	0.002	2	1.22	0.003	0.06	<0.1	4.1	0.06	0.13	708	0.5	0.06	3.6
119202	Silt	0.036	5.3	18.9	1.14	53.8	0.002	2	1.14	0.003	0.06	<0.1	4.0	0.05	0.12	533	0.3	0.05	3.5
119203	Silt	0.038	5.7	20.3	1.23	56.5	0.002	2	1.14	0.003	0.06	<0.1	3.8	0.05	0.14	920	0.3	0.08	3.6
119204	Silt	0.037	5.2	19.1	1.19	49.0	0.002	2	1.13	0.003	0.06	<0.1	3.8	0.05	0.13	604	0.5	0.05	3.5
119205	Silt	0.039	5.1	18.5	1.26	57.4	0.002	2	1.12	0.003	0.05	<0.1	3.7	0.05	0.15	1125	0.4	0.07	3.5
119206	Silt	0.035	5.0	18.2	1.13	45.6	0.002	2	1.13	0.003	0.06	<0.1	3.9	0.05	0.12	197	0.4	0.05	3.5
119207	Silt	0.037	5.6	20.3	1.14	54.1	0.002	2	1.14	0.003	0.06	<0.1	4.3	0.06	0.13	379	0.3	0.08	3.5
119208	Silt	0.035	6.1	20.6	1.18	55.8	0.002	2	1.19	0.003	0.06	<0.1	4.1	0.06	0.10	1072	0.3	0.09	3.9
119209	Silt	0.042	6.0	20.4	1.24	61.4	0.002	2	1.18	0.003	0.06	<0.1	3.9	0.06	0.12	1415	0.4	0.06	3.8
119210	Silt	0.033	4.8	19.3	1.27	49.6	0.002	2	1.10	0.003	0.05	<0.1	3.3	0.05	0.11	877	0.3	0.06	3.3
119211	Silt	0.038	4.7	17.1	1.17	45.6	0.002	1	1.06	0.003	0.05	<0.1	3.7	0.04	0.12	142	0.4	0.06	3.3
119448	Silt	0.033	4.6	20.2	1.38	53.3	0.002	2	1.05	0.003	0.05	<0.1	3.5	0.04	0.09	183	0.3	0.06	3.2



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

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830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: July 06, 2011

Page: 1 of 1 **Part** 1

QUALITY CONTROL REPORT

WHI11000306.1

Method	3B-50	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	
Pulp Duplicates																					
119209	Silt	<2	0.48	41.73	32.17	104.5	66	36.7	16.3	761	3.55	19.0	0.9	0.8	4.9	108.5	0.11	1.06	0.38	13	2.77
REP 119209	QC		0.44	40.98	30.26	105.4	67	35.4	15.6	734	3.34	18.1	0.9	1.5	4.7	97.7	0.11	0.97	0.36	12	2.60
Reference Materials																					
STD DS8	Standard		13.37	115.7	128.2	323.5	1721	38.2	7.6	602	2.41	27.6	3.0	107.2	7.6	67.4	2.59	6.09	7.33	41	0.70
STD DS8	Standard		13.80	119.0	133.8	329.7	1804	40.6	7.3	635	2.56	28.4	3.1	108.0	8.0	70.7	2.81	6.52	7.51	41	0.70
STD OXC88	Standard		213																		
STD DS8 Expected			13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7
STD OXC88 Expected			203																		
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank		<2																		
BLK	Blank		<2																		



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

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Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: July 06, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

WHI11000306.1

Method		1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	
MDL		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	
Pulp Duplicates																				
119209	Silt	0.042	6.0	20.4	1.24	61.4	0.002	2	1.18	0.003	0.06	<0.1	3.9	0.06	0.12	1415	0.4	0.06	3.8	
REP 119209	QC	0.036	5.5	18.7	1.18	58.3	0.002	2	1.09	0.003	0.06	<0.1	3.7	0.05	0.12	1282	0.3	0.05	3.6	
Reference Materials																				
STD DS8	Standard	0.079	17.0	110.8	0.59	271.8	0.124	3	0.92	0.088	0.40	2.9	2.5	5.15	0.15	192	5.3	4.98	5.1	
STD DS8	Standard	0.082	16.7	125.6	0.63	285.2	0.124	3	0.89	0.089	0.42	3.1	2.6	5.39	0.16	200	5.3	5.08	4.9	
STD OXC88	Standard																			
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	
STD OXC88 Expected																				
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	
BLK	Blank																			
BLK	Blank																			



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830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: June 28, 2011
Report Date: July 15, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS

WHI11000332.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-07
P.O. Number: NA-10337
Number of Samples: 293

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: database backup
Simon Ridgway
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	293	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	293	Dry at 60C			WHI
1F05	293	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
RJSV	293	Saving all or part of Soil Reject			WHI

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 2 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
118801	Soil	0.58	50.29	51.27	91.0	32	38.1	37.3	1996	4.26	2.2	0.8	3.7	4.3	13.2	0.07	0.26	0.42	29	0.08	0.034
118802	Soil	1.18	27.03	18.25	72.3	22	21.1	10.4	622	3.67	7.2	0.6	2.3	2.5	6.4	0.13	0.68	0.36	46	0.05	0.044
118803	Soil	0.89	40.16	18.95	69.5	31	28.0	14.9	706	3.05	5.3	0.8	1.3	3.9	10.8	0.09	0.59	0.27	38	0.08	0.027
118804	Soil	0.62	28.19	20.99	92.0	86	21.9	17.5	1326	4.35	3.2	0.7	0.9	1.9	4.5	0.20	0.39	0.33	29	0.03	0.089
118805	Soil	1.13	26.37	22.09	79.2	34	29.2	13.2	490	3.56	9.8	0.7	0.9	1.3	6.6	0.15	0.63	0.36	39	0.05	0.050
118806	Soil	0.43	35.21	28.64	80.3	35	32.5	23.0	753	3.91	2.0	0.6	1.8	3.6	9.2	0.09	0.19	0.37	30	0.06	0.035
118807	Soil	0.99	44.00	41.68	73.9	38	35.4	23.4	3311	3.69	6.5	1.0	2.1	5.8	11.8	0.16	0.55	0.37	41	0.12	0.037
118808	Soil	0.67	33.10	31.06	107.4	37	29.8	25.7	1376	3.81	8.1	0.7	0.9	4.2	8.8	0.18	0.28	0.40	32	0.05	0.039
118809	Soil	0.88	27.66	25.24	70.9	55	27.9	17.8	818	3.47	6.6	0.8	1.8	3.5	8.0	0.11	0.45	0.32	37	0.05	0.021
118810	Soil	1.06	29.78	34.36	82.7	46	28.3	23.7	999	3.53	8.8	0.8	2.0	4.3	8.5	0.10	0.58	0.44	36	0.05	0.024
118811	Soil	0.74	32.88	31.99	80.3	28	30.9	19.1	672	3.39	6.1	0.7	1.0	4.7	8.3	0.07	0.39	0.39	29	0.07	0.027
118812	Soil	1.03	23.85	38.52	114.2	76	27.6	16.6	1049	3.90	7.6	0.6	0.6	3.2	7.7	0.25	0.50	0.40	36	0.04	0.042
118813	Soil	0.89	29.36	21.44	97.6	62	23.7	17.4	616	4.56	6.7	1.0	2.0	3.3	10.2	0.16	0.45	0.49	35	0.05	0.069
118814	Soil	0.57	34.07	50.58	105.4	67	38.8	42.1	1174	3.55	4.7	0.9	1.5	5.8	14.7	0.11	0.17	0.61	23	0.11	0.023
118815	Soil	1.03	25.33	29.70	77.9	29	27.6	16.6	688	3.11	6.8	0.7	0.9	2.2	9.2	0.19	0.53	0.33	37	0.06	0.028
118816	Soil	1.07	36.13	50.77	97.9	98	28.6	27.3	1804	4.19	8.1	0.9	2.6	2.6	9.3	0.20	0.48	0.47	37	0.06	0.066
118817	Soil	0.87	40.51	92.42	101.6	204	44.6	70.3	4670	4.79	9.0	1.0	1.5	4.6	15.7	0.08	0.27	0.40	29	0.11	0.038
118818	Soil	0.31	8.75	20.87	22.1	76	14.8	8.6	1428	1.86	11.4	0.9	14.1	0.6	32.0	0.14	1.02	0.14	5	10.14	0.087
118819	Soil	0.53	19.88	23.70	34.1	104	18.0	11.6	1401	2.38	14.2	0.4	8.2	2.1	22.1	0.11	1.82	0.22	13	11.24	0.077
118820	Soil	0.24	18.87	27.07	76.5	59	21.6	15.4	480	1.88	16.8	1.0	3.7	3.7	22.7	0.08	1.29	0.28	8	5.97	0.115
118821	Soil	1.17	20.02	16.72	103.0	96	26.0	10.5	946	3.37	13.6	1.1	1.6	2.0	12.1	0.39	1.06	0.27	38	0.41	0.089
118822	Soil	1.17	25.73	19.57	77.1	69	24.0	9.8	392	3.06	7.0	0.7	0.7	0.5	13.0	0.17	0.71	0.29	44	0.27	0.071
118823	Soil	0.65	11.07	10.69	56.5	175	15.1	6.3	1199	1.95	8.0	0.8	1.7	1.1	27.8	0.47	0.64	0.13	22	6.89	0.085
118824	Soil	0.68	14.83	15.36	50.4	116	16.7	6.8	1284	2.04	9.2	0.9	2.7	2.1	41.1	0.49	0.87	0.17	23	9.25	0.093
118825	Soil	0.95	33.99	24.76	66.2	78	36.8	17.1	2872	4.09	9.7	1.4	1.2	4.4	9.3	0.29	0.61	0.34	27	0.17	0.052
118826	Soil	1.26	24.46	19.76	76.1	49	19.8	9.0	545	3.27	7.7	0.6	2.9	0.6	8.3	0.13	0.78	0.27	45	0.06	0.058
118827	Soil	1.22	26.99	20.76	68.6	35	27.6	13.0	819	2.91	7.3	0.8	3.0	3.8	18.0	0.17	0.73	0.21	44	0.21	0.054
118828	Soil	1.09	32.54	39.30	87.9	33	35.5	29.7	1060	4.10	9.3	0.7	0.9	3.0	9.3	0.16	0.66	0.39	39	0.05	0.035
118829	Soil	0.67	44.87	40.00	94.4	32	34.8	22.3	624	4.62	6.3	0.9	1.5	5.0	10.6	0.10	0.21	0.46	33	0.06	0.035
118830	Soil	0.66	33.28	37.52	95.2	65	30.7	23.1	939	3.83	7.2	0.9	1.4	4.4	10.5	0.05	0.30	0.49	30	0.06	0.023



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Page: 2 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
118801	Soil	4.8	36.0	0.69	274.6	0.007	<1	2.07	0.005	0.15	<0.1	6.6	0.13	<0.02	38	0.2	0.05	7.8	3.19	<0.1	0.03
118802	Soil	6.9	28.5	0.38	196.4	0.006	<1	1.92	0.001	0.06	<0.1	3.3	0.15	0.02	31	0.4	0.04	7.2	2.25	<0.1	<0.02
118803	Soil	7.1	29.6	0.51	191.2	0.021	1	1.45	0.004	0.08	<0.1	3.5	0.11	<0.02	12	0.3	0.04	4.9	1.84	<0.1	<0.02
118804	Soil	3.4	31.7	0.38	104.7	0.007	<1	2.05	0.002	0.13	<0.1	2.7	0.12	0.05	47	0.4	0.04	6.5	2.71	<0.1	0.05
118805	Soil	8.0	31.4	0.50	109.5	0.007	1	2.07	0.002	0.06	<0.1	2.3	0.13	0.02	31	0.5	0.05	5.9	1.74	<0.1	<0.02
118806	Soil	4.0	37.9	0.61	285.2	0.004	<1	2.24	0.006	0.17	<0.1	5.6	0.14	<0.02	26	0.3	0.04	8.4	2.76	<0.1	0.04
118807	Soil	5.8	35.4	0.56	761.0	0.012	1	1.66	0.004	0.12	0.2	8.0	0.13	<0.02	34	0.5	0.07	5.2	2.98	<0.1	<0.02
118808	Soil	6.0	37.0	0.47	89.8	0.003	<1	2.10	0.003	0.12	<0.1	5.0	0.12	<0.02	33	0.4	0.03	8.1	2.08	<0.1	0.04
118809	Soil	7.4	32.1	0.48	126.4	0.011	<1	1.83	0.003	0.06	<0.1	3.5	0.10	<0.02	20	0.3	0.05	5.8	1.76	<0.1	<0.02
118810	Soil	7.6	30.3	0.44	105.2	0.010	<1	1.81	0.002	0.06	<0.1	4.2	0.12	<0.02	28	0.4	0.03	5.7	3.39	<0.1	0.03
118811	Soil	6.9	30.8	0.48	124.4	0.006	1	1.95	0.001	0.11	<0.1	3.2	0.12	<0.02	21	0.2	0.03	6.1	2.25	<0.1	0.03
118812	Soil	7.5	33.3	0.40	139.2	0.008	<1	1.87	0.002	0.09	0.1	2.9	0.11	<0.02	37	0.4	0.05	6.6	2.52	<0.1	0.02
118813	Soil	7.3	32.9	0.37	149.5	0.007	<1	1.82	0.002	0.14	<0.1	3.7	0.16	0.02	42	0.4	0.02	7.1	6.01	<0.1	0.02
118814	Soil	5.8	33.6	0.49	173.0	0.005	<1	1.65	0.002	0.15	<0.1	4.5	0.15	<0.02	25	0.2	<0.02	6.7	3.28	<0.1	0.04
118815	Soil	9.2	29.9	0.46	110.8	0.013	1	1.87	0.003	0.08	<0.1	2.7	0.14	<0.02	20	0.4	0.04	5.9	2.36	<0.1	0.02
118816	Soil	7.6	36.2	0.41	112.0	0.007	<1	1.88	0.004	0.09	<0.1	4.1	0.14	0.03	49	0.5	0.04	7.2	3.60	<0.1	0.02
118817	Soil	7.5	33.9	0.64	160.6	0.006	<1	2.05	0.003	0.10	<0.1	9.5	0.29	<0.02	48	0.5	0.02	7.1	5.88	<0.1	0.04
118818	Soil	3.1	5.7	5.12	36.8	0.002	5	0.24	0.006	0.03	<0.1	1.1	0.07	<0.02	193	0.3	0.03	0.5	0.08	<0.1	0.05
118819	Soil	7.1	11.7	5.53	27.0	0.001	3	0.35	0.009	0.05	<0.1	3.0	0.07	<0.02	385	0.2	0.07	0.9	0.08	<0.1	0.09
118820	Soil	4.9	7.0	3.07	34.2	<0.001	2	0.34	0.005	0.10	<0.1	4.2	0.08	<0.02	211	0.2	0.05	1.0	0.33	<0.1	0.05
118821	Soil	14.7	25.6	0.46	143.4	0.011	1	1.47	0.003	0.08	0.1	4.0	0.11	0.03	58	0.4	0.05	4.2	1.25	<0.1	0.03
118822	Soil	8.6	29.8	0.47	157.2	0.011	<1	1.81	0.003	0.07	0.1	1.7	0.13	0.02	21	0.3	0.03	6.0	2.14	<0.1	<0.02
118823	Soil	9.9	14.4	3.87	82.8	0.013	2	0.87	0.008	0.05	<0.1	2.2	0.06	0.02	51	0.4	<0.02	1.9	0.74	<0.1	<0.02
118824	Soil	9.3	14.0	5.02	75.8	0.018	2	0.74	0.010	0.05	0.1	2.3	0.06	<0.02	56	0.4	0.05	1.8	0.66	<0.1	0.02
118825	Soil	20.7	20.5	0.27	156.3	0.005	1	1.40	0.001	0.14	<0.1	6.2	0.12	0.02	36	0.5	0.05	3.1	1.46	<0.1	0.04
118826	Soil	8.7	30.7	0.42	65.5	0.014	<1	1.67	0.003	0.06	<0.1	1.8	0.10	0.03	39	0.4	0.05	6.1	2.04	<0.1	<0.02
118827	Soil	12.7	30.8	0.45	167.3	0.043	<1	1.42	0.006	0.07	0.2	3.7	0.08	<0.02	14	0.5	0.04	4.5	1.66	<0.1	<0.02
118828	Soil	8.1	36.3	0.60	118.0	0.015	1	2.06	0.003	0.12	<0.1	3.9	0.12	<0.02	27	0.3	0.05	6.6	2.71	<0.1	<0.02
118829	Soil	8.1	41.0	0.58	115.6	0.004	<1	2.22	0.004	0.09	<0.1	5.8	0.09	<0.02	24	0.2	0.04	8.0	3.33	<0.1	0.03
118830	Soil	8.1	31.3	0.44	125.0	0.005	1	1.91	0.001	0.13	<0.1	4.7	0.13	<0.02	17	0.3	0.03	6.4	2.30	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: July 15, 2011

Page: 2 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
118801	Soil	0.18	18.3	1.0	<0.05	1.3	10.04	19.4	0.05	<1	1.7	35.1	<10	<2
118802	Soil	0.71	14.5	2.1	<0.05	0.8	4.02	15.0	0.03	<1	0.9	27.5	<10	<2
118803	Soil	0.33	14.0	0.9	<0.05	0.6	5.49	16.4	0.02	<1	0.9	20.7	<10	<2
118804	Soil	0.61	20.1	2.4	<0.05	1.3	3.29	8.3	0.04	<1	1.3	26.0	<10	<2
118805	Soil	0.50	11.8	0.8	<0.05	0.4	4.09	20.5	0.04	<1	0.6	34.5	<10	<2
118806	Soil	0.30	22.4	6.9	<0.05	1.5	6.84	11.5	0.03	<1	1.3	31.2	<10	<2
118807	Soil	0.27	16.7	1.4	<0.05	0.8	14.03	21.4	0.04	<1	2.3	23.7	<10	<2
118808	Soil	0.24	17.4	2.9	<0.05	1.6	5.52	17.8	0.03	<1	1.3	33.8	<10	<2
118809	Soil	0.31	13.2	1.0	<0.05	0.5	4.97	20.1	0.03	<1	0.9	27.0	<10	<2
118810	Soil	0.29	14.5	2.1	<0.05	1.8	5.75	22.2	0.03	<1	1.1	31.6	<10	<2
118811	Soil	0.31	16.0	1.0	<0.05	1.7	5.02	19.0	0.03	<1	1.6	36.5	<10	<2
118812	Soil	0.53	18.6	3.1	<0.05	0.6	4.88	20.0	0.03	<1	1.1	41.0	<10	<2
118813	Soil	0.55	26.7	1.1	<0.05	1.0	5.42	19.7	0.03	<1	1.7	32.2	<10	<2
118814	Soil	0.08	19.0	5.1	<0.05	2.6	10.05	22.7	<0.02	<1	1.4	37.1	<10	<2
118815	Soil	0.39	15.6	1.0	<0.05	0.2	5.21	20.5	0.03	<1	1.1	28.2	<10	<2
118816	Soil	0.38	19.4	2.6	<0.05	0.8	7.69	21.9	0.04	<1	1.7	31.2	<10	<2
118817	Soil	0.11	16.9	1.4	<0.05	1.6	14.21	40.3	0.05	<1	1.4	45.6	<10	<2
118818	Soil	0.04	1.5	4.2	<0.05	0.8	6.57	6.2	<0.02	<1	0.3	1.3	<10	<2
118819	Soil	0.06	1.9	0.9	<0.05	2.2	6.55	13.3	<0.02	<1	0.2	2.1	<10	<2
118820	Soil	0.04	3.1	2.9	<0.05	1.7	7.84	11.0	<0.02	<1	0.2	1.1	<10	<2
118821	Soil	0.36	13.0	0.9	<0.05	1.1	12.60	24.9	0.03	<1	0.9	12.4	<10	<2
118822	Soil	0.33	15.5	2.6	<0.05	0.2	5.15	16.1	0.03	<1	0.9	19.8	<10	<2
118823	Soil	0.27	6.6	0.5	<0.05	0.7	8.45	18.3	0.02	<1	0.6	6.4	<10	<2
118824	Soil	0.27	5.9	2.1	<0.05	1.0	7.90	17.6	<0.02	<1	0.4	6.1	<10	<2
118825	Soil	0.20	12.3	0.6	<0.05	1.1	17.92	63.0	0.04	<1	1.7	9.8	<10	<2
118826	Soil	0.43	15.4	2.2	<0.05	0.1	4.11	17.9	0.03	2	0.6	19.3	<10	<2
118827	Soil	0.36	10.1	0.8	<0.05	0.7	8.17	30.5	0.02	<1	0.6	17.7	<10	<2
118828	Soil	0.43	17.3	3.7	<0.05	0.5	4.84	25.0	0.03	<1	1.6	35.7	<10	<2
118829	Soil	0.19	13.9	1.3	<0.05	1.5	6.43	21.0	0.04	<1	1.5	36.7	<10	<2
118830	Soil	0.21	18.3	3.7	<0.05	1.2	9.48	24.8	0.03	1	1.3	32.3	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 3 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
118831	Soil			0.68	28.94	30.14	82.9	75	23.3	15.8	1109	4.52	3.9	0.7	0.8	2.0	7.3	0.22	0.24	0.38	33	0.04	0.076
118832	Soil			1.04	26.70	19.30	83.2	25	23.9	10.5	494	3.60	6.5	0.7	1.5	1.1	7.7	0.14	0.53	0.37	41	0.06	0.081
118833	Soil			1.30	30.23	17.59	69.8	131	23.3	9.5	346	3.14	8.1	0.9	1.3	1.8	6.5	0.12	0.27	0.35	33	0.04	0.106
118834	Soil			0.42	52.34	56.84	87.8	175	40.4	28.4	1711	4.72	4.0	0.9	0.9	6.1	22.5	0.05	0.08	0.46	31	0.25	0.023
118835	Soil			1.26	22.79	21.48	104.0	68	25.3	15.7	1086	4.97	6.9	0.7	1.5	5.1	7.1	0.11	0.48	0.53	42	0.04	0.055
118836	Soil			1.00	25.62	20.75	84.9	91	24.5	11.1	597	4.56	7.9	0.5	1.5	4.1	5.1	0.12	0.55	0.44	29	0.03	0.067
118837	Soil			0.77	21.78	34.97	131.5	36	39.8	21.6	808	5.54	6.8	0.6	0.5	4.2	5.2	0.11	0.46	0.49	23	0.03	0.039
118838	Soil			0.55	17.13	35.48	102.4	285	36.6	14.9	427	3.50	6.4	1.0	0.9	4.5	38.9	0.12	0.33	0.37	10	0.47	0.051
118839	Soil			0.32	15.98	37.82	357.2	120	12.0	3.9	1954	3.38	13.3	2.2	1.8	1.2	19.4	0.78	1.19	0.12	6	10.41	0.105
118840	Soil			0.31	11.51	17.28	87.8	142	11.8	5.7	1706	2.20	8.0	1.3	0.9	0.9	41.4	0.27	0.69	0.15	12	12.78	0.120
118841	Soil			0.29	19.25	40.28	61.8	321	19.0	9.8	1506	2.49	13.8	1.1	1.5	1.7	28.9	0.21	2.12	0.30	13	9.82	0.128
118842	Soil			0.52	9.49	9.39	39.6	79	8.5	6.0	259	2.58	3.2	0.4	1.2	1.2	4.3	0.10	0.37	0.33	28	0.08	0.028
118843	Soil			1.06	15.15	16.08	59.0	64	17.6	7.4	257	3.25	7.6	0.5	0.5	3.8	12.6	0.05	0.54	0.32	44	0.26	0.030
118844	Soil			0.78	24.00	20.19	79.4	200	21.0	13.9	595	4.02	6.8	0.4	0.6	3.5	7.7	0.08	0.34	0.41	41	0.08	0.029
118845	Soil			0.70	26.74	25.37	75.5	131	28.4	13.3	314	4.06	7.4	0.5	<0.2	4.3	6.4	0.05	0.29	0.42	31	0.05	0.028
118846	Soil			0.54	29.16	26.95	98.8	100	29.8	18.6	865	3.95	6.8	0.5	<0.2	3.7	10.9	0.08	0.26	0.42	30	0.11	0.030
118847	Soil			0.61	22.23	23.76	116.1	56	26.7	15.9	787	3.72	5.1	0.4	0.4	3.2	12.5	0.09	0.18	0.48	34	0.14	0.031
118848	Soil			0.76	18.52	14.41	65.1	51	24.1	9.8	261	3.13	6.1	0.5	<0.2	4.4	11.2	0.07	0.39	0.30	32	0.13	0.017
118849	Soil			0.59	16.11	15.48	97.9	60	24.7	11.3	324	3.44	5.0	0.3	<0.2	3.8	7.3	0.06	0.34	0.29	35	0.08	0.019
118850	Soil			0.77	19.57	19.30	71.6	68	29.5	11.8	485	3.21	7.9	1.0	0.9	5.6	15.3	0.10	0.63	0.31	33	0.23	0.020
118951	Soil			0.94	29.82	20.73	78.4	286	30.9	12.3	507	3.25	18.2	2.9	3.4	3.5	36.5	0.21	0.55	0.34	25	0.29	0.031
118952	Soil			0.73	31.81	27.54	86.2	47	34.4	14.5	509	3.65	14.4	1.1	0.6	3.0	17.7	0.20	0.51	0.37	24	0.11	0.031
118953	Soil			0.65	15.18	14.91	80.5	82	19.9	6.6	315	2.50	9.7	4.0	1.5	2.3	31.0	0.21	0.33	0.24	28	0.30	0.076
118954	Soil			0.56	21.73	18.93	94.4	126	16.8	8.3	1019	2.96	23.2	4.4	0.5	1.3	23.5	0.56	0.60	0.20	24	0.23	0.054
118955	Soil			2.64	32.56	27.79	72.7	281	24.9	11.6	483	3.13	28.1	1.5	1.5	3.0	63.4	0.47	3.06	0.30	14	1.90	0.075
118956	Soil			0.93	27.28	18.16	64.1	102	23.8	11.0	385	2.57	14.2	1.3	1.1	1.8	457.2	0.20	0.49	0.25	12	8.20	0.062
118957	Soil			0.86	29.86	24.32	84.2	168	32.2	13.5	763	3.46	23.2	1.9	1.9	3.1	51.2	0.26	0.80	0.32	24	0.49	0.061
118958	Soil			0.86	44.35	44.47	124.6	56	44.4	30.8	630	5.58	71.8	1.0	1.9	3.1	18.0	0.10	1.05	0.47	25	0.09	0.032
118959	Soil			0.93	34.75	23.74	100.2	50	38.6	18.5	715	3.84	19.2	0.7	2.0	3.2	17.9	0.22	0.76	0.36	30	0.07	0.039
118960	Soil			0.71	29.04	31.34	90.2	49	29.6	14.2	411	4.18	12.5	0.6	0.2	1.8	9.9	0.07	0.46	0.40	22	0.03	0.046



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 3 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
118831	Soil	5.2	37.3	0.37	88.6	0.003	<1	2.16	0.003	0.08	<0.1	3.1	0.10	0.04	48	0.3	0.04	7.5	1.99	<0.1	0.06
118832	Soil	7.9	35.1	0.43	99.2	0.007	<1	2.10	0.002	0.09	<0.1	2.0	0.16	0.03	34	0.4	0.03	7.4	2.23	<0.1	0.03
118833	Soil	6.8	39.6	0.28	68.4	0.004	1	2.03	0.003	0.08	<0.1	2.4	0.18	0.06	46	0.6	0.02	6.0	2.34	<0.1	0.06
118834	Soil	10.3	40.8	0.63	148.8	0.002	<1	2.39	0.004	0.09	<0.1	6.4	0.14	<0.02	18	0.2	<0.02	8.6	6.44	<0.1	0.05
118835	Soil	7.6	39.6	0.39	115.1	0.006	1	2.26	0.001	0.12	<0.1	3.2	0.13	0.02	52	0.4	0.03	7.9	3.89	<0.1	0.05
118836	Soil	5.5	30.9	0.47	61.1	0.006	2	2.02	<0.001	0.08	<0.1	2.7	0.11	0.02	51	0.5	0.03	5.9	4.85	<0.1	0.05
118837	Soil	4.5	24.6	0.33	54.3	0.006	3	1.96	0.002	0.11	<0.1	4.9	0.14	<0.02	34	0.6	0.02	5.5	4.99	<0.1	0.04
118838	Soil	27.0	10.6	0.14	86.1	0.002	3	0.90	0.003	0.12	<0.1	7.0	0.24	0.03	95	0.9	<0.02	1.8	1.19	0.1	0.07
118839	Soil	8.0	5.9	5.20	39.2	0.002	<1	0.33	0.007	0.03	<0.1	1.1	0.05	0.05	256	0.7	0.03	0.7	0.07	<0.1	0.06
118840	Soil	5.4	10.8	6.43	72.6	0.002	4	0.77	0.011	0.06	<0.1	1.4	0.08	0.04	150	0.3	0.03	2.0	0.47	<0.1	0.06
118841	Soil	14.6	10.7	4.92	44.3	0.002	9	0.49	0.012	0.08	<0.1	2.5	0.15	0.03	194	0.7	0.06	1.4	0.23	<0.1	0.09
118842	Soil	9.1	14.7	0.13	98.3	0.009	3	0.99	0.001	0.18	0.1	1.3	0.12	<0.02	15	0.3	0.03	4.3	0.93	<0.1	<0.02
118843	Soil	11.3	24.4	0.38	90.6	0.011	3	1.60	0.002	0.13	0.1	2.5	0.14	<0.02	13	0.4	<0.02	6.7	1.08	<0.1	<0.02
118844	Soil	7.9	30.8	0.35	130.1	0.004	2	1.98	0.003	0.11	<0.1	3.1	0.12	<0.02	12	0.5	<0.02	8.5	1.66	<0.1	0.04
118845	Soil	8.1	34.3	0.53	66.9	0.003	2	1.82	0.002	0.12	<0.1	3.2	0.08	<0.02	31	0.2	0.02	6.6	1.22	<0.1	0.03
118846	Soil	7.2	31.4	0.47	113.7	0.003	2	1.81	0.003	0.14	<0.1	3.7	0.10	<0.02	21	0.3	0.04	6.4	1.30	<0.1	0.02
118847	Soil	7.3	35.2	0.43	183.0	0.002	1	2.31	0.004	0.21	<0.1	3.4	0.12	<0.02	<5	0.4	<0.02	8.5	1.08	<0.1	0.03
118848	Soil	10.4	28.1	0.49	111.2	0.004	3	1.76	0.002	0.11	<0.1	2.7	0.10	<0.02	8	0.3	0.06	6.1	1.03	<0.1	0.03
118849	Soil	9.0	31.8	0.46	165.3	0.004	3	2.17	0.002	0.13	<0.1	2.6	0.13	<0.02	<5	0.2	0.03	7.3	1.49	<0.1	0.03
118850	Soil	15.1	28.5	0.58	143.7	0.008	2	1.68	0.005	0.08	<0.1	4.4	0.10	<0.02	40	0.5	<0.02	4.7	1.04	<0.1	0.06
118951	Soil	20.4	24.2	0.47	117.3	0.003	3	1.32	0.002	0.06	<0.1	4.5	0.12	<0.02	646	0.5	0.07	3.7	1.80	<0.1	0.05
118952	Soil	12.3	22.1	0.47	117.8	0.004	2	1.32	0.002	0.04	<0.1	4.3	0.08	<0.02	65	0.5	0.03	3.8	2.14	<0.1	0.02
118953	Soil	23.8	26.7	0.61	94.3	0.006	2	1.31	0.003	0.07	<0.1	3.7	0.11	0.03	65	0.6	<0.02	3.9	1.34	<0.1	0.08
118954	Soil	27.3	16.3	0.14	110.2	0.004	2	0.77	0.002	0.04	<0.1	4.2	0.09	0.02	394	0.8	<0.02	1.6	0.89	<0.1	0.03
118955	Soil	21.8	10.2	0.85	71.3	0.002	3	0.59	0.002	0.05	<0.1	5.8	0.09	0.02	2936	0.8	0.05	1.1	0.88	<0.1	0.05
118956	Soil	9.1	10.4	0.45	60.9	0.002	3	0.54	0.003	0.05	<0.1	3.8	0.06	0.02	461	0.7	0.10	1.4	1.53	<0.1	0.04
118957	Soil	22.2	20.3	0.37	115.5	0.005	2	1.18	0.003	0.05	<0.1	5.4	0.10	0.03	861	0.7	0.04	3.0	1.39	<0.1	0.05
118958	Soil	9.7	20.4	0.25	82.0	0.002	2	1.13	0.001	0.06	<0.1	6.4	0.21	<0.02	455	0.6	0.07	2.9	3.10	<0.1	<0.02
118959	Soil	11.4	26.3	0.53	58.9	0.015	2	1.47	0.002	0.07	0.1	3.5	0.12	<0.02	231	0.6	0.06	4.1	4.63	<0.1	<0.02
118960	Soil	5.6	18.9	0.24	56.5	0.003	2	1.12	0.001	0.06	<0.1	3.1	0.13	<0.02	33	0.4	<0.02	3.5	4.01	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 3 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
118831	Soil			0.42	14.8	1.3	<0.05	1.3	4.55	13.5	0.04	<1	1.0	26.1	<10	<2
118832	Soil			0.43	19.5	4.2	<0.05	0.9	4.56	17.1	0.03	<1	0.9	22.4	<10	<2
118833	Soil			0.38	15.6	1.1	<0.05	1.5	4.67	16.0	0.05	<1	0.9	23.2	<10	<2
118834	Soil			0.07	18.0	5.6	<0.05	2.7	13.18	33.2	0.05	<1	1.4	43.7	<10	<2
118835	Soil			0.63	23.6	4.3	<0.05	2.2	3.68	18.1	0.04	1	1.3	38.3	<10	<2
118836	Soil			0.61	13.2	1.0	<0.05	2.0	3.27	12.8	0.05	<1	1.0	33.7	10	<2
118837	Soil			0.44	15.1	2.7	<0.05	2.0	6.45	13.6	0.05	<1	1.0	39.3	11	2
118838	Soil			0.15	9.6	0.6	<0.05	3.0	28.96	90.9	0.03	<1	1.4	6.4	11	<2
118839	Soil			0.06	1.3	1.1	<0.05	2.2	12.67	14.0	0.02	1	1.4	0.1	22	<2
118840	Soil			0.14	5.3	0.6	<0.05	1.9	8.27	10.5	<0.02	<1	0.6	6.4	10	<2
118841	Soil			0.05	3.6	2.0	<0.05	2.8	13.86	26.7	0.02	<1	0.5	2.7	<10	<2
118842	Soil			0.44	16.0	0.8	<0.05	<0.1	1.59	19.7	<0.02	<1	0.2	2.6	<10	<2
118843	Soil			0.69	15.0	2.1	<0.05	0.6	2.78	23.9	<0.02	<1	0.6	23.4	<10	<2
118844	Soil			0.32	17.2	1.2	<0.05	1.4	3.69	16.9	0.04	<1	1.1	32.1	<10	<2
118845	Soil			0.33	10.7	2.6	<0.05	2.0	3.93	18.6	<0.02	<1	0.9	35.0	<10	<2
118846	Soil			0.22	14.0	1.0	<0.05	1.0	3.99	18.4	0.04	<1	1.2	31.9	<10	<2
118847	Soil			0.17	22.5	2.1	<0.05	1.0	3.52	17.3	0.04	<1	1.0	33.0	<10	<2
118848	Soil			0.28	15.3	0.8	<0.05	1.7	3.11	21.5	0.03	<1	0.8	39.0	<10	<2
118849	Soil			0.26	21.7	0.9	<0.05	1.5	2.33	19.0	0.02	<1	0.8	32.7	<10	<2
118850	Soil			0.40	10.6	1.6	<0.05	2.5	11.42	32.8	0.03	<1	1.2	23.8	<10	<2
118951	Soil			0.16	8.7	0.7	<0.05	1.6	12.68	38.9	<0.02	<1	1.1	24.3	<10	<2
118952	Soil			0.19	7.4	1.2	<0.05	1.0	8.87	30.4	0.03	<1	1.3	28.4	<10	<2
118953	Soil			0.18	11.6	0.9	<0.05	1.8	13.95	44.5	0.03	<1	1.0	19.3	<10	<2
118954	Soil			0.10	6.7	1.3	<0.05	0.7	21.71	55.0	0.03	<1	1.0	5.9	11	<2
118955	Soil			0.05	5.2	6.7	<0.05	1.3	23.05	37.7	0.03	<1	0.9	8.1	<10	<2
118956	Soil			0.08	5.6	0.5	<0.05	1.2	11.54	23.8	0.03	2	0.7	9.2	<10	<2
118957	Soil			0.19	7.7	2.1	<0.05	1.6	18.61	52.1	0.03	<1	1.1	17.3	11	<2
118958	Soil			0.13	9.2	0.6	<0.05	0.8	11.84	22.2	0.04	<1	1.4	18.5	<10	<2
118959	Soil			0.30	8.6	1.3	<0.05	0.3	5.02	24.9	0.03	<1	1.2	34.7	10	<2
118960	Soil			0.17	10.2	0.6	<0.05	0.6	5.30	16.2	0.04	1	0.8	27.7	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 4 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
118961	Soil	0.69	24.85	24.60	105.9	43	25.6	11.3	356	3.64	12.6	0.5	<0.2	0.8	17.1	0.19	0.52	0.38	26	0.11	0.062
118962	Soil	0.77	31.26	29.24	83.2	32	29.1	13.3	441	4.00	23.2	0.6	<0.2	2.6	22.6	0.09	0.46	0.39	19	0.21	0.035
118963	Soil	0.49	25.89	25.76	92.7	68	25.5	10.7	393	3.79	7.7	0.9	<0.2	3.4	46.3	0.11	0.33	0.37	19	0.35	0.050
118964	Soil	0.69	28.63	39.35	99.9	226	38.8	17.0	428	4.11	10.2	1.0	0.6	4.2	17.3	0.23	0.39	0.38	15	0.12	0.043
118965	Soil	0.87	34.39	41.58	108.5	86	28.7	18.5	644	4.57	7.5	0.9	0.4	3.6	9.5	0.13	0.47	0.43	17	0.01	0.066
118966	Soil	0.83	28.12	30.00	85.3	110	31.8	13.0	420	3.75	10.0	0.7	<0.2	3.4	11.3	0.11	0.50	0.36	19	0.08	0.044
118967	Soil	0.38	25.18	29.19	101.5	26	33.5	15.7	333	4.94	4.6	0.4	0.6	5.1	7.6	0.04	0.22	0.49	30	0.04	0.020
118968	Soil	0.81	16.81	17.25	85.8	86	18.3	10.4	606	4.07	5.2	0.6	<0.2	3.5	5.6	0.08	0.34	0.42	43	0.03	0.034
118969	Soil	1.05	18.62	13.79	86.7	88	20.1	9.6	566	4.16	7.2	0.5	0.4	2.5	6.4	0.12	0.50	0.40	45	0.03	0.049
118970	Soil	0.40	20.97	17.10	89.2	93	26.2	15.9	627	3.88	4.9	0.5	<0.2	3.4	7.5	0.07	0.16	0.42	32	0.03	0.039
118971	Soil	0.53	18.75	17.09	77.3	106	24.3	13.6	514	3.82	6.0	0.5	3.4	3.2	4.9	0.07	0.29	0.39	29	0.03	0.029
118972	Soil	0.84	20.96	23.74	115.8	218	26.0	12.5	488	4.10	8.7	0.6	0.8	4.3	7.9	0.11	0.39	0.45	39	0.06	0.036
118973	Soil	0.83	19.48	17.36	97.8	32	25.2	11.5	335	3.78	7.1	0.6	0.3	4.1	5.5	0.08	0.45	0.39	38	0.04	0.028
118974	Soil	0.59	19.78	20.07	68.5	78	25.5	11.8	341	3.51	5.9	0.6	0.7	4.3	5.6	0.03	0.30	0.32	32	0.04	0.017
118975	Soil	0.68	15.60	19.76	76.1	88	20.7	11.6	435	3.59	6.2	0.4	0.5	3.4	6.6	0.12	0.27	0.34	31	0.04	0.029
118976	Soil	0.37	26.64	23.05	75.3	57	29.8	15.1	496	3.58	4.2	1.2	1.4	5.1	20.8	0.02	0.20	0.37	27	0.36	0.018
118977	Soil	0.56	29.85	21.47	80.5	84	28.2	14.1	609	3.02	5.4	0.9	3.8	3.4	41.7	0.16	0.30	0.40	23	1.30	0.034
118978	Soil	0.51	22.55	18.80	69.8	54	27.7	13.1	476	3.64	6.4	1.5	0.3	3.6	27.3	0.04	0.21	0.31	28	0.32	0.013
118979	Soil	0.57	18.39	14.96	54.8	20	18.6	11.3	302	3.31	6.6	0.4	0.4	3.0	5.2	0.04	0.27	0.29	33	0.04	0.018
118980	Soil	0.27	20.13	12.51	90.3	37	28.9	16.4	1135	4.79	5.9	0.3	0.6	3.4	4.5	0.03	0.11	0.44	33	0.02	0.023
119268	Soil	0.90	26.49	23.02	78.8	56	13.4	10.8	854	4.31	8.6	0.5	0.3	1.7	10.3	0.10	0.48	0.37	35	0.03	0.068
119269	Soil	0.91	34.16	24.34	80.7	115	28.2	10.6	290	2.93	18.5	0.8	0.5	1.4	64.3	0.08	0.32	0.34	17	1.07	0.077
119270	Soil	0.90	35.96	23.69	88.8	34	26.7	13.4	378	3.86	17.5	0.5	1.1	2.1	14.5	0.09	0.54	0.40	28	0.05	0.043
119271	Soil	0.80	28.80	27.55	89.4	146	22.0	14.3	1182	3.85	14.6	0.6	<0.2	0.4	14.3	0.15	0.63	0.33	24	0.07	0.123
119272	Soil	1.04	21.36	17.98	64.9	117	17.2	10.0	661	2.71	10.5	0.8	0.8	0.3	10.9	0.09	0.49	0.30	27	0.09	0.106
119273	Soil	1.20	26.50	17.35	81.1	379	22.6	9.6	399	2.28	36.5	5.2	17.4	1.2	72.9	0.35	4.07	0.21	24	1.15	0.086
119274	Soil	1.76	35.61	21.00	102.6	354	31.9	13.2	558	2.73	45.7	4.7	9.8	2.1	157.4	0.49	6.57	0.26	20	3.14	0.073
119275	Soil	1.37	33.24	21.51	105.7	84	39.7	13.9	415	2.66	127.1	1.7	17.7	6.6	95.1	0.31	8.89	0.20	11	2.75	0.086
119276	Soil	1.05	29.84	21.32	112.9	77	35.9	14.7	768	3.29	35.8	1.2	2.7	2.2	37.2	0.22	1.96	0.29	16	0.59	0.077
119277	Soil	0.63	45.00	18.76	124.7	44	54.9	18.4	897	4.09	25.0	0.6	2.0	3.3	27.6	0.20	1.14	0.33	15	0.23	0.034



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 4 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
118961	Soil	5.8	18.8	0.18	75.8	0.004	2	0.89	0.001	0.06	<0.1	2.1	0.11	0.02	40	0.5	0.07	3.5	3.47	<0.1	<0.02
118962	Soil	4.8	17.8	0.16	73.2	0.001	2	1.01	0.001	0.05	<0.1	3.2	0.15	<0.02	64	0.3	0.04	2.7	3.20	<0.1	<0.02
118963	Soil	7.8	15.7	0.23	97.0	0.002	2	1.01	0.001	0.06	<0.1	5.1	0.08	0.02	52	0.6	0.02	2.8	2.24	<0.1	0.05
118964	Soil	9.9	18.7	0.17	94.7	0.001	2	1.53	0.001	0.07	<0.1	5.7	0.14	0.02	139	0.7	0.04	2.2	2.41	<0.1	0.05
118965	Soil	3.2	13.7	0.05	33.6	<0.001	2	0.48	0.001	0.06	<0.1	5.8	0.11	<0.02	82	0.4	0.05	1.4	2.90	<0.1	<0.02
118966	Soil	6.9	16.0	0.20	80.4	0.003	3	0.87	0.002	0.06	<0.1	4.4	0.11	<0.02	103	0.7	0.08	2.3	3.07	<0.1	0.02
118967	Soil	5.7	37.5	0.84	94.2	0.003	1	2.63	<0.001	0.10	<0.1	3.5	0.11	<0.02	8	0.4	<0.02	8.2	2.98	<0.1	0.04
118968	Soil	6.0	32.0	0.28	165.1	0.006	2	2.07	0.002	0.19	<0.1	2.9	0.19	<0.02	25	0.3	0.04	8.0	2.21	<0.1	0.04
118969	Soil	7.6	33.3	0.38	134.3	0.010	2	1.83	0.003	0.13	0.1	2.6	0.14	<0.02	39	0.4	0.02	8.1	2.49	<0.1	<0.02
118970	Soil	4.4	36.3	0.45	151.7	0.006	1	2.09	0.005	0.20	<0.1	3.6	0.16	<0.02	24	0.4	0.04	8.4	2.80	<0.1	0.05
118971	Soil	4.2	30.0	0.39	101.9	0.004	1	1.76	0.002	0.13	0.1	2.9	0.10	<0.02	36	0.2	0.03	6.6	2.09	<0.1	0.05
118972	Soil	5.8	34.8	0.43	118.1	0.003	2	2.22	<0.001	0.14	0.1	3.1	0.12	<0.02	29	0.3	0.02	7.8	2.23	<0.1	0.04
118973	Soil	6.1	31.6	0.42	111.7	0.006	<1	1.98	0.001	0.12	0.2	3.1	0.13	<0.02	27	0.2	0.03	6.8	2.00	<0.1	0.04
118974	Soil	6.4	28.6	0.42	105.5	0.005	1	1.89	0.001	0.10	0.1	3.3	0.11	<0.02	21	0.2	0.03	6.3	1.79	<0.1	0.05
118975	Soil	5.3	28.6	0.34	97.6	0.002	<1	1.85	<0.001	0.13	<0.1	2.7	0.11	<0.02	16	0.2	<0.02	6.7	1.84	<0.1	0.04
118976	Soil	6.3	32.5	0.49	256.6	0.002	1	2.00	0.004	0.15	<0.1	5.1	0.10	<0.02	36	0.5	<0.02	6.6	1.58	<0.1	0.09
118977	Soil	5.8	27.7	0.69	227.0	0.005	2	1.53	0.004	0.12	<0.1	3.5	0.10	<0.02	70	0.3	0.03	5.4	1.58	<0.1	0.06
118978	Soil	5.3	30.0	0.56	161.1	0.005	<1	1.73	0.003	0.08	<0.1	3.7	0.07	<0.02	25	0.6	<0.02	5.7	1.13	<0.1	0.03
118979	Soil	6.0	25.4	0.34	108.7	0.004	<1	1.63	0.002	0.07	<0.1	2.6	0.08	<0.02	46	0.2	<0.02	5.9	1.49	<0.1	0.03
118980	Soil	3.2	38.5	0.60	62.6	0.004	<1	2.23	0.003	0.11	<0.1	4.3	0.09	<0.02	18	<0.1	<0.02	8.8	2.65	<0.1	0.03
119268	Soil	5.4	20.5	0.15	52.3	0.003	1	1.29	0.002	0.08	<0.1	2.2	0.10	0.03	30	0.4	0.04	6.1	5.07	<0.1	<0.02
119269	Soil	5.7	19.0	0.12	86.5	0.002	2	0.65	0.004	0.08	<0.1	4.0	0.12	0.09	95	0.6	0.06	2.5	8.31	<0.1	0.04
119270	Soil	6.1	19.3	0.14	51.4	0.002	<1	1.02	0.001	0.07	<0.1	3.7	0.14	<0.02	78	0.4	0.03	3.8	5.37	<0.1	<0.02
119271	Soil	3.9	16.6	0.15	73.2	0.002	<1	0.99	0.004	0.08	<0.1	1.1	0.11	0.07	57	0.4	0.04	3.5	6.26	<0.1	<0.02
119272	Soil	5.8	17.8	0.13	96.8	0.002	1	1.05	0.002	0.07	<0.1	0.9	0.13	0.06	50	0.3	0.04	3.8	3.15	<0.1	<0.02
119273	Soil	11.7	15.2	0.20	104.5	0.005	3	0.76	0.004	0.05	<0.1	3.1	0.12	0.06	452	0.9	0.02	2.1	1.06	<0.1	0.05
119274	Soil	15.3	14.3	0.22	62.3	0.004	3	0.46	0.003	0.07	<0.1	5.1	0.22	0.04	439	1.0	<0.02	1.2	0.64	<0.1	0.05
119275	Soil	11.6	16.9	1.12	97.2	0.002	2	0.23	0.005	0.08	<0.1	6.0	0.18	<0.02	512	1.0	0.05	0.6	1.05	<0.1	0.05
119276	Soil	11.4	21.7	0.20	67.0	0.003	3	0.38	0.005	0.07	<0.1	5.7	0.10	0.05	351	1.6	0.03	1.3	1.03	<0.1	0.07
119277	Soil	8.6	18.5	0.17	66.1	<0.001	2	0.44	0.002	0.10	<0.1	7.1	0.09	<0.02	239	0.6	<0.02	1.4	8.75	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 4 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
118961	Soil			0.12	14.5	1.4	<0.05	0.3	3.69	13.2	0.02	<1	0.7	10.8	<10	2
118962	Soil			0.12	10.7	0.6	<0.05	0.8	5.33	14.0	0.03	<1	0.4	19.0	<10	<2
118963	Soil			0.13	10.5	1.5	<0.05	1.8	11.21	29.5	0.04	<1	1.1	21.9	<10	<2
118964	Soil			0.14	10.8	0.4	<0.05	1.9	12.78	45.6	0.04	1	2.3	18.7	<10	<2
118965	Soil			0.02	8.1	2.0	<0.05	0.3	8.52	13.8	0.05	<1	1.7	3.6	10	<2
118966	Soil			0.10	8.8	0.6	<0.05	0.8	9.43	26.2	0.04	<1	0.9	17.1	<10	<2
118967	Soil			0.10	14.6	2.0	<0.05	2.4	4.02	15.0	0.02	<1	0.8	54.7	<10	<2
118968	Soil			0.62	30.6	1.1	<0.05	2.0	2.92	13.2	0.03	<1	0.6	24.1	<10	<2
118969	Soil			0.62	19.4	2.0	<0.05	0.5	2.96	16.7	0.03	<1	0.8	23.7	<10	<2
118970	Soil			0.47	25.1	1.3	<0.05	1.6	3.99	10.2	0.03	<1	1.5	28.2	<10	<2
118971	Soil			0.47	16.9	1.7	<0.05	1.0	2.81	10.0	0.05	<1	1.3	24.3	<10	<2
118972	Soil			0.62	19.0	1.0	<0.05	1.7	3.13	12.9	0.03	2	1.0	37.1	<10	<2
118973	Soil			0.64	21.1	1.0	<0.05	1.4	2.80	13.1	0.03	<1	0.8	28.5	<10	<2
118974	Soil			0.46	14.9	1.7	<0.05	1.8	3.96	14.9	0.03	<1	1.1	28.9	<10	<2
118975	Soil			0.43	17.1	0.9	<0.05	1.4	2.57	11.9	<0.02	<1	0.6	25.7	<10	<2
118976	Soil			0.37	14.5	1.4	<0.05	3.0	8.74	15.6	0.02	<1	1.4	27.6	<10	<2
118977	Soil			0.67	12.2	0.9	<0.05	2.4	7.12	15.3	0.03	2	1.2	23.5	<10	3
118978	Soil			0.42	13.2	1.7	<0.05	1.1	4.77	14.2	0.03	1	1.4	38.5	<10	<2
118979	Soil			0.39	13.6	0.9	<0.05	1.3	2.53	12.9	0.03	<1	0.7	24.6	<10	<2
118980	Soil			0.21	16.0	1.3	<0.05	1.1	2.93	8.6	0.04	<1	1.5	30.2	<10	<2
119268	Soil			0.47	14.2	0.9	<0.05	0.5	2.79	11.7	0.03	1	0.8	16.2	<10	<2
119269	Soil			0.22	9.7	1.3	<0.05	1.2	10.40	13.4	0.03	<1	1.1	10.6	<10	<2
119270	Soil			0.16	11.9	0.9	<0.05	0.5	3.76	14.0	0.03	<1	1.1	14.7	<10	<2
119271	Soil			0.17	12.1	0.7	<0.05	0.2	3.62	10.1	0.03	<1	1.0	12.9	<10	<2
119272	Soil			0.13	14.0	1.3	<0.05	<0.1	4.21	15.4	0.03	<1	0.7	9.9	<10	<2
119273	Soil			0.34	5.8	0.4	<0.05	1.6	12.90	24.0	0.03	<1	0.9	8.4	<10	<2
119274	Soil			0.15	4.5	0.9	<0.05	1.5	20.70	34.7	0.03	2	0.5	4.4	11	<2
119275	Soil			0.06	3.5	1.7	<0.05	2.6	11.47	31.4	0.03	<1	1.0	1.9	12	<2
119276	Soil			0.09	4.6	1.6	<0.05	1.6	11.76	26.5	0.05	<1	0.9	2.8	10	<2
119277	Soil			0.06	6.0	1.6	<0.05	1.3	8.95	20.0	0.05	<1	1.0	11.0	11	2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: July 15, 2011

Page: 5 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
119278	Soil			0.77	43.87	33.20	134.1	125	41.4	19.2	1464	3.91	21.5	1.0	5.4	2.9	36.7	0.36	1.98	0.34	21	0.54	0.082
119279	Soil			2.01	47.49	24.71	108.6	276	39.2	16.4	439	3.32	147.3	2.5	31.3	3.5	88.3	0.36	9.66	0.29	23	0.76	0.111
119280	Soil			0.92	37.11	20.08	105.2	304	36.5	14.6	352	3.28	19.4	1.8	8.0	6.0	44.2	0.18	0.97	0.29	25	0.89	0.073
119281	Soil			0.74	31.18	21.96	101.5	111	32.2	12.5	399	2.92	47.4	1.4	4.7	2.7	37.3	0.24	2.30	0.25	19	0.75	0.078
119282	Soil			0.88	37.81	21.51	110.5	210	31.5	13.6	421	2.86	95.1	1.7	10.8	3.3	82.8	0.23	4.81	0.23	18	1.48	0.054
119283	Soil			0.75	32.86	16.49	102.1	127	31.7	12.1	421	2.92	24.5	2.1	3.6	3.6	36.5	0.27	0.87	0.21	32	0.60	0.072
119284	Soil			0.57	23.82	21.00	107.4	60	25.1	9.8	259	2.68	25.0	1.6	3.4	2.3	16.5	0.11	1.50	0.20	22	0.19	0.051
119285	Soil			0.59	35.76	17.48	118.3	103	35.2	14.0	388	3.26	15.9	1.4	4.1	4.8	37.0	0.20	0.62	0.26	25	0.91	0.078
119286	Soil			0.63	29.96	13.69	99.5	60	29.5	11.3	438	2.60	14.1	0.9	3.6	6.7	76.1	0.27	0.42	0.18	23	3.09	0.067
119287	Soil			0.72	34.87	19.95	114.6	100	43.5	19.1	452	3.49	30.9	0.9	3.7	4.1	27.9	0.16	1.03	0.29	19	0.60	0.080
119288	Soil			0.80	36.71	18.71	110.8	76	35.3	14.3	498	3.00	58.5	0.8	2.6	6.3	122.2	0.18	0.93	0.31	15	2.96	0.056
119289	Soil			0.45	43.60	19.86	114.3	62	54.2	17.8	390	3.49	13.8	0.6	2.7	3.0	49.8	0.14	0.47	0.40	15	1.00	0.050
119290	Soil			2.49	52.77	37.16	150.0	405	37.2	16.4	402	2.75	984.8	2.7	23.5	2.8	195.0	0.68	6.25	0.29	24	2.49	0.084
119291	Soil			0.39	47.98	31.73	102.8	80	34.7	20.8	250	2.81	468.3	0.7	2.4	2.0	39.6	0.08	0.90	0.49	10	0.43	0.033
119292	Soil			0.69	40.23	40.96	110.9	153	46.4	23.9	703	4.71	26.6	0.7	1.6	3.8	21.2	0.11	0.46	0.37	21	0.21	0.051
119293	Soil			0.45	14.73	23.81	50.9	54	18.9	12.3	538	2.02	62.7	0.4	7.4	2.5	12.3	0.12	0.51	0.23	9	0.14	0.033
119294	Soil			0.72	36.99	26.24	87.2	110	32.0	15.2	266	3.25	45.6	0.7	13.4	3.6	32.2	0.07	1.24	0.36	14	0.26	0.040
119295	Soil			0.86	62.58	69.57	169.2	417	62.5	35.2	482	5.28	34.4	0.6	2.4	4.1	63.0	0.13	0.62	0.57	20	0.90	0.060
119296	Soil			0.75	60.24	62.73	141.4	275	38.2	28.0	2784	4.70	29.9	1.0	1.4	3.0	36.7	0.18	0.61	0.45	24	0.42	0.070
119297	Soil			0.49	22.40	29.41	61.2	122	13.2	5.3	201	2.92	5.2	0.5	<0.2	3.1	9.4	0.08	0.22	0.42	16	0.02	0.043
119298	Soil			0.52	17.12	43.43	232.0	239	25.2	6.7	990	2.48	18.5	1.0	1.4	1.8	116.0	0.44	1.83	0.16	12	8.78	0.083
119299	Soil			1.12	22.71	39.54	131.2	197	24.1	9.7	6114	11.28	45.1	2.6	2.0	3.1	9.8	0.50	2.22	0.29	44	0.84	0.109
119300	Soil			0.69	16.26	25.22	42.2	195	16.5	7.9	2567	4.20	97.6	1.4	3.4	1.4	85.5	0.27	3.95	0.16	17	11.46	0.111
119301	Soil			0.38	20.16	19.70	87.3	61	26.5	16.2	487	3.62	1.8	0.6	0.3	4.1	5.6	0.10	0.21	0.38	35	0.02	0.025
119302	Soil			0.60	36.02	41.60	109.6	860	31.2	29.0	1378	4.48	7.7	0.7	0.9	3.7	10.2	0.12	0.30	0.49	34	0.05	0.042
119303	Soil			0.60	17.44	24.05	79.8	88	23.4	11.6	336	4.06	7.1	0.4	<0.2	4.4	4.6	0.13	0.39	0.31	30	0.03	0.023
119304	Soil			0.61	23.87	26.50	120.6	178	26.5	17.3	903	4.47	7.6	0.5	<0.2	3.2	6.7	0.16	0.36	0.37	37	0.03	0.047
119305	Soil			0.52	17.91	15.31	114.3	170	20.2	13.2	529	3.84	3.3	0.4	<0.2	2.7	8.0	0.19	0.26	0.40	38	0.06	0.043
119306	Soil			0.48	35.67	13.70	88.9	161	30.4	15.3	352	4.58	2.4	0.5	<0.2	2.9	6.0	0.12	0.18	0.41	36	0.04	0.036
119307	Soil			0.98	20.92	19.00	120.5	124	20.6	16.3	887	4.99	8.4	0.5	<0.2	3.5	6.6	0.21	0.51	0.41	53	0.05	0.048



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 5 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
119278	Soil	7.2	27.1	0.72	101.9	0.006	4	1.42	0.004	0.12	<0.1	9.8	0.13	0.06	94	0.8	0.03	3.8	19.31	<0.1	0.07
119279	Soil	10.8	18.3	0.23	89.2	0.002	1	0.45	0.003	0.09	<0.1	7.2	0.30	0.03	331	1.2	0.06	1.6	1.05	<0.1	0.08
119280	Soil	23.1	36.4	0.84	208.3	0.003	3	1.01	0.002	0.12	<0.1	7.7	0.16	0.03	199	1.3	0.02	3.1	3.97	<0.1	0.07
119281	Soil	14.4	23.9	0.27	96.3	0.002	2	0.60	0.004	0.09	<0.1	6.9	0.15	0.05	412	1.5	<0.02	1.8	1.28	<0.1	0.08
119282	Soil	12.0	17.9	0.77	141.3	0.002	2	0.40	0.004	0.08	<0.1	6.0	0.17	0.02	345	1.2	0.04	1.4	0.90	<0.1	0.05
119283	Soil	24.1	39.1	0.39	218.4	0.003	1	0.77	0.002	0.10	<0.1	5.8	0.13	0.05	298	1.4	<0.02	2.7	2.09	<0.1	0.07
119284	Soil	11.3	23.9	0.10	81.4	0.003	1	0.46	<0.001	0.05	<0.1	4.4	0.07	<0.02	92	0.6	0.03	1.7	0.62	<0.1	0.03
119285	Soil	19.2	34.8	0.75	206.9	0.003	2	0.74	0.004	0.12	<0.1	7.0	0.13	0.04	98	1.2	0.05	2.6	3.78	<0.1	0.05
119286	Soil	26.4	36.9	2.38	243.9	0.004	3	1.13	0.006	0.12	<0.1	5.8	0.09	0.03	132	1.3	0.02	3.5	2.37	<0.1	0.06
119287	Soil	15.1	24.7	0.34	111.7	0.002	3	0.72	0.003	0.11	<0.1	8.0	0.23	0.04	61	1.6	0.04	2.1	9.64	<0.1	0.07
119288	Soil	11.3	20.5	1.60	75.8	<0.001	1	0.22	0.006	0.13	<0.1	6.6	0.19	0.05	182	1.3	<0.02	1.0	1.27	<0.1	0.06
119289	Soil	6.8	19.8	0.46	63.8	<0.001	1	0.43	0.002	0.10	<0.1	6.2	0.09	0.04	114	0.5	0.03	1.5	2.67	<0.1	0.03
119290	Soil	7.9	19.3	1.05	99.4	0.001	2	0.39	0.003	0.09	<0.1	6.3	1.36	0.04	938	1.8	0.05	1.4	0.87	<0.1	0.06
119291	Soil	3.6	8.9	0.09	67.9	<0.001	2	0.31	0.002	0.09	<0.1	6.5	1.79	0.03	630	0.3	0.09	0.9	1.64	<0.1	0.04
119292	Soil	7.4	20.8	0.32	119.9	0.002	2	1.28	0.002	0.11	<0.1	7.3	0.13	0.02	121	0.5	0.08	3.8	5.56	<0.1	0.04
119293	Soil	4.7	7.3	0.04	57.9	0.001	2	0.34	0.002	0.07	<0.1	2.8	0.06	<0.02	46	0.4	0.02	0.9	3.14	<0.1	<0.02
119294	Soil	5.8	11.7	0.15	75.8	0.001	3	0.50	0.002	0.07	<0.1	4.2	0.06	<0.02	101	0.6	0.07	1.6	2.03	<0.1	0.04
119295	Soil	5.7	21.1	0.52	146.6	0.002	4	1.46	0.002	0.10	<0.1	8.6	0.17	0.05	118	0.8	0.15	3.9	4.42	<0.1	0.11
119296	Soil	7.0	23.6	0.49	219.4	0.003	6	1.69	0.002	0.11	<0.1	8.7	0.17	0.05	224	0.7	0.08	4.7	11.31	<0.1	0.06
119297	Soil	4.0	16.4	0.18	52.0	0.002	2	1.06	0.004	0.10	<0.1	3.3	0.12	0.03	27	0.4	0.06	3.4	2.22	<0.1	0.03
119298	Soil	8.3	9.2	0.96	65.1	0.002	5	0.44	0.005	0.09	<0.1	2.1	0.17	0.04	188	0.7	0.06	1.3	0.18	<0.1	0.09
119299	Soil	28.5	25.8	0.53	200.9	0.007	1	1.91	0.002	0.06	0.2	5.9	0.22	0.06	316	1.2	0.15	4.3	0.61	0.1	0.06
119300	Soil	8.8	14.3	5.89	110.3	0.011	3	0.84	0.007	0.05	0.1	2.1	0.31	0.03	405	0.6	0.08	1.6	0.34	<0.1	0.04
119301	Soil	4.6	35.1	0.42	226.3	0.005	1	2.21	0.005	0.15	<0.1	3.7	0.12	<0.02	11	0.1	<0.02	8.1	2.27	<0.1	0.03
119302	Soil	6.6	39.2	0.58	82.9	0.004	<1	2.39	0.004	0.10	<0.1	4.2	0.09	<0.02	33	0.3	<0.02	8.1	3.28	<0.1	0.04
119303	Soil	9.4	25.3	0.47	70.3	0.004	<1	1.96	<0.001	0.06	<0.1	2.1	0.07	<0.02	23	0.4	0.03	5.8	1.35	<0.1	0.02
119304	Soil	6.0	39.2	0.45	106.2	0.004	<1	2.46	0.005	0.10	<0.1	3.4	0.10	<0.02	27	0.2	0.04	8.7	2.43	<0.1	0.05
119305	Soil	4.8	30.3	0.34	217.9	0.004	<1	1.95	0.004	0.13	<0.1	3.1	0.08	<0.02	25	0.2	0.04	8.5	1.62	<0.1	0.03
119306	Soil	4.2	35.5	0.63	91.2	0.006	<1	2.41	0.002	0.10	<0.1	3.3	0.07	<0.02	32	0.2	0.03	8.5	2.00	<0.1	0.03
119307	Soil	7.4	35.5	0.33	132.2	0.008	1	2.52	0.003	0.11	<0.1	3.4	0.11	<0.02	27	0.3	0.04	9.4	1.65	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 5 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
119278	Soil			0.29	13.5	1.5	<0.05	2.3	10.18	17.5	0.03	<1	1.9	43.2	15	<2
119279	Soil			0.09	4.6	0.7	<0.05	2.2	15.27	26.1	0.05	1	0.9	3.3	10	<2
119280	Soil			0.16	9.1	0.8	<0.05	2.2	14.61	51.9	0.03	2	1.0	26.5	<10	<2
119281	Soil			0.15	6.5	0.9	<0.05	2.5	16.00	34.4	0.04	1	1.0	7.2	<10	<2
119282	Soil			0.08	4.9	0.7	<0.05	1.5	11.68	28.7	0.03	1	1.0	4.7	<10	<2
119283	Soil			0.17	8.1	0.8	<0.05	2.3	15.54	47.8	0.03	<1	1.1	15.3	<10	<2
119284	Soil			0.09	6.0	0.6	<0.05	0.8	7.93	25.7	0.03	1	0.7	5.4	<10	<2
119285	Soil			0.09	10.3	0.7	<0.05	1.8	12.85	43.6	0.05	1	1.3	16.0	12	<2
119286	Soil			0.07	8.7	1.1	<0.05	2.4	12.59	56.5	0.03	<1	1.2	33.1	12	<2
119287	Soil			0.08	11.1	0.6	<0.05	2.5	15.27	35.6	0.03	<1	0.9	10.0	13	<2
119288	Soil			0.03	4.7	1.5	<0.05	3.7	9.54	26.8	0.03	<1	1.0	3.4	<10	<2
119289	Soil			0.04	6.4	0.9	<0.05	1.2	9.58	16.0	0.03	<1	1.2	6.4	<10	<2
119290	Soil			0.09	4.4	0.9	<0.05	2.0	13.35	20.3	0.04	<1	1.2	3.3	<10	<2
119291	Soil			0.02	5.1	0.7	<0.05	1.2	12.20	8.7	0.05	<1	1.0	3.4	<10	<2
119292	Soil			0.13	10.2	0.7	<0.05	1.4	15.57	20.2	0.04	<1	1.6	37.7	<10	<2
119293	Soil			0.06	6.7	0.7	<0.05	0.5	4.42	11.1	0.03	2	0.8	2.7	<10	4
119294	Soil			0.08	6.1	0.6	<0.05	1.6	7.39	13.5	0.03	<1	0.9	11.9	<10	2
119295	Soil			0.17	8.2	0.7	<0.05	3.6	17.81	18.2	0.05	<1	1.8	46.2	13	<2
119296	Soil			0.18	11.7	0.8	<0.05	2.1	19.50	18.9	0.05	<1	2.8	49.1	<10	<2
119297	Soil			0.10	10.4	0.8	<0.05	0.5	3.77	10.1	0.04	<1	0.8	18.3	<10	<2
119298	Soil			0.08	3.2	0.7	<0.05	3.4	11.41	21.2	<0.02	<1	0.7	1.9	21	3
119299	Soil			0.39	6.5	0.6	<0.05	2.7	36.74	52.9	0.04	1	0.7	9.2	<10	2
119300	Soil			0.19	3.6	1.0	<0.05	1.5	11.37	16.9	<0.02	<1	0.5	4.7	<10	<2
119301	Soil			0.40	22.1	1.0	<0.05	1.2	3.23	9.7	0.03	<1	1.0	32.8	<10	<2
119302	Soil			0.30	14.6	1.1	<0.05	1.5	4.68	16.6	0.04	<1	1.4	42.4	<10	<2
119303	Soil			0.40	11.8	0.6	<0.05	1.8	2.45	21.3	0.03	<1	0.7	40.7	<10	<2
119304	Soil			0.43	20.7	1.0	<0.05	1.9	3.04	12.7	0.03	<1	1.2	53.2	<10	<2
119305	Soil			0.51	18.5	1.0	<0.05	1.1	2.78	10.0	0.04	<1	0.9	35.3	<10	<2
119306	Soil			0.51	12.8	0.8	<0.05	1.4	3.46	9.9	0.04	<1	1.1	40.2	<10	<2
119307	Soil			0.67	19.6	1.1	<0.05	1.7	2.78	15.2	0.04	<1	1.0	41.6	<10	2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 6 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
119308	Soil	0.40	28.94	28.86	80.3	33	33.8	20.3	626	3.83	5.5	0.6	1.0	5.7	11.8	0.04	0.37	0.36	26	0.15	0.022
119309	Soil	0.28	15.32	24.84	145.9	66	13.7	7.5	644	1.88	46.5	1.0	6.9	1.3	51.1	0.34	1.93	0.18	7	10.09	0.081
119310	Soil	0.58	39.88	68.13	80.6	143	28.5	46.1	1859	3.95	3.9	0.7	0.9	2.8	14.0	0.08	0.31	0.48	27	0.22	0.051
119311	Soil	0.76	18.38	21.16	73.2	62	17.6	11.3	445	4.10	3.3	0.7	<0.2	4.2	4.5	0.19	0.42	0.38	43	0.04	0.040
119312	Soil	0.81	20.43	28.63	145.0	68	30.3	22.0	2839	3.59	3.2	0.6	0.6	2.8	6.8	0.63	0.55	0.36	40	0.09	0.034
119313	Soil	0.75	19.90	25.20	66.9	36	24.3	13.0	404	2.89	7.5	0.6	0.7	3.9	15.5	0.08	0.57	0.34	30	0.22	0.022
119314	Soil	0.53	15.43	21.05	47.2	88	15.8	10.6	456	2.99	4.8	0.3	<0.2	2.0	8.2	0.11	0.33	0.35	27	0.09	0.034
119315	Soil	0.44	15.38	21.35	111.6	81	18.2	7.0	350	1.66	55.3	1.0	7.0	1.4	205.3	0.31	1.55	0.21	12	10.29	0.076
119316	Soil	0.56	17.03	57.08	253.2	60	21.9	12.2	672	2.85	29.8	0.5	0.6	2.1	84.3	0.61	0.38	0.39	29	2.67	0.113
119317	Soil	0.65	16.03	29.00	196.0	42	20.3	11.8	1496	3.66	23.3	0.8	1.2	2.6	14.4	0.76	1.15	0.32	37	0.91	0.060
119318	Soil	0.75	12.53	29.78	275.9	98	16.3	9.0	4508	4.42	138.4	1.5	5.9	1.2	26.3	1.05	10.70	0.21	29	6.04	0.126
119319	Soil	0.50	16.22	46.01	161.1	180	17.2	5.6	751	2.76	67.8	1.4	19.2	1.1	42.1	0.22	4.63	0.21	16	5.79	0.156
119320	Soil	0.45	19.87	27.34	108.8	23	25.7	12.9	632	3.25	17.1	0.9	0.5	4.2	18.3	0.36	0.71	0.32	28	0.65	0.027
119321	Soil	0.60	16.30	72.70	286.0	87	19.4	10.2	2489	3.49	31.4	0.9	1.3	1.8	19.3	0.73	3.80	0.24	27	5.36	0.120
119322	Soil	0.59	22.80	30.55	91.9	84	26.6	13.2	533	3.59	12.1	0.7	1.0	5.0	35.7	0.12	0.52	0.35	20	0.75	0.034
119323	Soil	0.29	16.87	16.44	73.6	58	16.6	9.1	347	2.23	6.5	0.6	0.9	1.6	21.2	0.19	0.33	0.25	15	1.06	0.034
119324	Soil	0.46	24.10	28.00	429.1	31	24.3	14.8	918	3.41	8.7	0.6	0.4	3.7	25.6	2.79	0.56	0.33	24	0.93	0.037
119325	Soil	0.42	19.42	20.88	92.7	86	21.5	10.0	829	2.89	13.8	1.0	<0.2	1.6	43.3	0.28	0.86	0.27	20	1.69	0.044
119326	Soil	0.31	29.59	27.04	100.5	54	29.9	16.1	523	3.70	6.7	0.6	1.0	5.1	18.3	0.14	0.39	0.39	21	0.35	0.030
119327	Soil	0.64	26.49	27.23	85.8	99	15.3	4.9	114	3.25	6.1	0.3	0.3	2.8	16.4	0.05	0.32	0.33	13	0.01	0.033
119328	Soil	0.60	29.26	38.00	117.7	238	29.4	11.7	415	3.56	9.8	1.1	2.7	1.9	75.0	0.21	0.49	0.44	12	0.92	0.080
119329	Soil	0.67	24.92	29.21	84.1	182	24.6	8.4	301	3.41	7.9	0.9	1.0	2.0	61.7	0.14	0.44	0.42	21	0.67	0.093
119330	Soil	1.01	19.06	22.82	83.3	49	17.1	7.0	314	2.89	7.6	0.5	<0.2	0.5	56.5	0.15	0.62	0.41	33	0.60	0.068
119331	Soil	0.77	24.66	29.53	94.5	235	25.6	9.8	505	3.45	13.5	1.1	0.9	1.3	79.8	0.21	0.87	0.33	21	1.15	0.097
119332	Soil	0.47	22.93	28.59	88.5	171	21.5	8.9	298	2.87	12.7	1.1	1.0	1.4	74.1	0.18	0.97	0.34	13	1.07	0.090
119333	Soil	0.84	22.05	20.90	72.0	38	21.2	8.2	252	3.00	11.2	0.6	<0.2	1.5	58.9	0.11	0.49	0.37	25	0.42	0.080
119334	Soil	0.84	26.86	26.05	88.3	50	26.6	12.2	394	3.54	9.9	0.7	0.3	2.2	38.0	0.14	0.39	0.36	22	0.29	0.083
119335	Soil	0.80	21.66	22.05	75.2	58	20.3	9.1	355	3.09	10.2	0.6	0.5	1.4	59.1	0.10	0.49	0.37	28	0.55	0.098
119336	Soil	0.91	21.47	17.66	89.3	27	16.3	7.6	513	3.04	12.5	0.4	<0.2	0.6	22.7	0.15	0.49	0.42	35	0.17	0.091
119337	Soil	1.41	21.95	15.27	70.8	27	13.3	6.6	380	3.08	11.3	0.5	0.4	0.3	9.9	0.09	0.83	0.39	50	0.05	0.053



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: July 15, 2011

Page: 6 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
119308	Soil	11.7	31.9	0.62	118.6	0.006	2	2.12	0.005	0.08	<0.1	3.8	0.07	<0.02	32	0.2	<0.02	6.5	1.28	<0.1	0.05
119309	Soil	5.1	5.7	4.39	54.7	0.002	4	0.33	0.007	0.11	<0.1	1.9	0.08	0.02	282	0.5	0.04	1.1	1.13	<0.1	0.02
119310	Soil	5.4	33.2	0.41	230.9	0.006	2	2.04	0.004	0.14	<0.1	4.7	0.14	<0.02	26	0.2	0.03	7.3	4.18	<0.1	<0.02
119311	Soil	4.7	29.9	0.29	124.0	0.007	2	2.06	0.002	0.12	<0.1	2.9	0.12	<0.02	26	0.2	0.03	7.9	1.83	<0.1	0.03
119312	Soil	7.9	30.5	0.36	195.6	0.015	3	1.81	0.001	0.18	0.1	2.8	0.13	<0.02	23	0.2	0.07	6.3	2.35	<0.1	<0.02
119313	Soil	11.1	26.7	0.41	116.0	0.019	2	1.38	0.003	0.12	<0.1	3.0	0.10	<0.02	13	0.2	0.03	4.7	1.75	<0.1	<0.02
119314	Soil	6.9	20.7	0.21	162.1	0.009	3	1.24	0.001	0.22	<0.1	2.2	0.11	<0.02	20	0.2	0.05	5.2	1.06	<0.1	<0.02
119315	Soil	7.3	10.4	1.93	75.2	0.006	4	0.74	0.007	0.11	<0.1	1.8	0.10	0.03	208	0.4	0.05	1.7	1.09	<0.1	0.02
119316	Soil	21.2	19.5	0.27	564.2	0.004	7	1.82	0.002	0.15	<0.1	2.9	0.14	0.07	55	0.6	0.06	4.4	0.84	<0.1	0.07
119317	Soil	13.3	26.2	0.56	152.9	0.008	6	2.03	0.004	0.12	<0.1	3.7	0.13	0.03	54	0.3	0.04	5.7	1.30	<0.1	0.07
119318	Soil	14.4	20.0	3.22	165.2	0.009	6	1.73	0.007	0.08	0.2	2.4	0.13	0.07	1065	0.8	0.06	4.2	0.99	<0.1	0.05
119319	Soil	9.4	14.4	2.83	90.1	0.005	5	1.02	0.005	0.07	0.1	1.7	0.08	0.06	593	0.5	0.07	2.3	0.71	<0.1	0.06
119320	Soil	10.2	26.4	0.49	111.2	0.003	3	1.79	0.003	0.13	<0.1	4.3	0.13	<0.02	49	0.3	0.06	5.7	1.00	<0.1	0.07
119321	Soil	9.7	23.5	3.17	164.7	0.007	8	1.99	0.008	0.15	<0.1	3.1	0.14	0.06	140	0.5	0.06	4.8	0.97	<0.1	0.08
119322	Soil	11.8	20.0	0.38	129.2	0.003	4	1.37	0.003	0.12	<0.1	5.7	0.10	0.03	81	0.5	0.04	3.7	0.88	<0.1	0.05
119323	Soil	5.6	16.7	0.31	102.0	0.003	3	1.17	0.004	0.10	<0.1	2.3	0.07	0.03	84	0.4	<0.02	3.5	0.86	<0.1	0.04
119324	Soil	9.0	23.3	0.48	193.8	0.003	5	1.78	0.003	0.14	<0.1	4.0	0.10	0.03	332	0.5	0.04	5.4	0.92	<0.1	0.07
119325	Soil	8.1	21.8	0.43	128.5	0.004	3	1.40	0.005	0.09	<0.1	2.9	0.06	0.03	131	0.5	<0.02	4.0	1.04	<0.1	0.03
119326	Soil	10.0	29.2	0.60	95.3	0.003	2	1.94	0.007	0.12	<0.1	3.5	0.06	<0.02	84	0.3	0.04	5.8	1.16	<0.1	0.07
119327	Soil	3.1	11.5	0.07	27.9	0.002	2	0.71	0.002	0.07	<0.1	2.7	0.16	<0.02	14	0.4	0.04	2.4	8.72	<0.1	<0.02
119328	Soil	8.6	11.4	0.19	193.7	0.002	3	0.81	0.004	0.07	<0.1	4.1	0.13	0.08	114	0.6	0.03	2.0	1.78	<0.1	0.04
119329	Soil	7.8	16.2	0.27	158.5	0.003	2	1.14	0.003	0.06	<0.1	4.2	0.12	0.06	32	0.4	0.04	3.0	2.05	<0.1	0.05
119330	Soil	5.1	15.7	0.17	138.9	0.007	1	1.02	0.004	0.06	<0.1	1.4	0.15	0.04	15	0.3	0.06	4.5	3.16	<0.1	<0.02
119331	Soil	11.5	16.5	0.27	186.7	0.005	2	1.00	0.005	0.05	<0.1	3.6	0.10	0.07	126	0.7	0.03	2.5	1.36	<0.1	0.04
119332	Soil	5.7	11.7	0.16	162.7	0.002	3	0.89	0.003	0.06	<0.1	3.3	0.12	0.07	100	0.4	0.03	2.2	1.72	<0.1	0.03
119333	Soil	4.2	17.0	0.18	207.8	0.002	2	1.13	0.003	0.07	<0.1	2.7	0.15	0.04	13	0.2	0.04	3.9	8.89	<0.1	0.04
119334	Soil	5.4	18.9	0.25	119.0	0.003	<1	1.12	0.003	0.06	<0.1	3.4	0.08	0.03	35	0.2	0.05	3.3	2.36	<0.1	0.05
119335	Soil	5.4	17.5	0.21	199.0	0.003	1	1.14	0.004	0.06	<0.1	2.5	0.13	0.05	22	0.3	0.07	4.2	3.30	<0.1	0.05
119336	Soil	6.3	17.8	0.18	133.3	0.006	1	1.03	0.003	0.07	<0.1	1.6	0.09	0.04	21	<0.1	0.06	5.3	4.46	<0.1	<0.02
119337	Soil	8.1	20.1	0.14	53.3	0.011	2	1.33	0.002	0.08	0.1	1.0	0.14	0.03	31	0.3	0.07	6.7	8.01	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 6 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
119308	Soil	0.28	10.3	0.7	<0.05	2.1	5.20	25.7	0.03	<1	1.0	37.1	<10	<2
119309	Soil	0.11	5.0	0.2	<0.05	1.1	6.73	11.8	0.02	<1	0.4	3.2	12	2
119310	Soil	0.35	18.1	0.8	<0.05	1.0	7.76	17.5	0.04	<1	2.6	32.7	<10	<2
119311	Soil	0.71	20.4	1.0	<0.05	1.1	2.58	9.3	0.04	<1	1.0	35.6	<10	<2
119312	Soil	0.70	25.5	0.8	<0.05	0.4	2.81	21.7	0.04	<1	0.8	25.7	<10	<2
119313	Soil	0.50	14.9	0.8	<0.05	0.5	4.09	24.5	<0.02	<1	0.7	26.9	<10	<2
119314	Soil	0.42	23.7	0.8	<0.05	0.3	1.98	15.9	0.03	<1	0.6	17.6	<10	<2
119315	Soil	0.21	7.4	0.6	<0.05	1.0	7.26	15.7	<0.02	<1	0.5	7.9	<10	<2
119316	Soil	0.41	11.3	0.9	<0.05	1.7	12.38	38.8	0.03	<1	1.2	17.5	14	<2
119317	Soil	0.53	12.0	0.7	<0.05	1.9	8.01	29.9	0.04	<1	1.1	18.1	12	<2
119318	Soil	0.35	9.9	0.5	<0.05	1.6	14.02	28.2	0.03	<1	0.8	12.3	15	<2
119319	Soil	0.21	6.2	0.4	<0.05	1.6	12.14	14.9	0.02	<1	0.5	7.5	12	<2
119320	Soil	0.39	14.6	0.9	<0.05	2.3	7.83	23.6	0.02	<1	1.3	20.0	<10	<2
119321	Soil	0.40	14.1	0.8	<0.05	2.3	9.24	19.2	0.03	<1	0.8	16.2	19	<2
119322	Soil	0.27	9.3	0.6	<0.05	2.5	13.01	26.5	0.04	<1	1.0	24.2	<10	<2
119323	Soil	0.28	9.9	0.6	<0.05	1.2	4.35	12.7	0.02	<1	0.6	16.9	<10	<2
119324	Soil	0.37	11.9	0.8	<0.05	2.0	6.78	21.1	0.03	<1	1.2	24.3	22	<2
119325	Soil	0.39	11.4	0.6	<0.05	1.0	7.06	19.4	0.03	<1	0.8	24.6	<10	<2
119326	Soil	0.22	8.7	0.6	<0.05	2.7	5.71	20.3	0.03	<1	0.9	38.8	<10	<2
119327	Soil	0.10	9.6	0.6	<0.05	0.6	1.91	6.3	0.04	<1	0.5	11.4	<10	<2
119328	Soil	0.12	7.7	1.0	<0.05	2.0	16.11	19.6	0.06	<1	1.1	13.4	<10	<2
119329	Soil	0.23	10.5	0.8	<0.05	2.1	13.99	21.0	0.05	<1	1.1	18.8	<10	<2
119330	Soil	0.33	13.5	1.1	<0.05	0.3	3.11	11.0	0.04	2	0.4	12.3	<10	<2
119331	Soil	0.24	7.3	0.9	<0.05	1.4	17.71	26.1	0.05	<1	1.2	14.3	<10	<2
119332	Soil	0.18	9.4	0.6	<0.05	1.4	10.02	15.5	0.04	<1	0.7	13.4	<10	<2
119333	Soil	0.22	16.9	0.9	<0.05	1.4	3.56	10.0	0.03	<1	0.5	15.5	<10	<2
119334	Soil	0.16	10.8	1.1	<0.05	1.8	6.18	20.3	0.04	<1	0.6	21.6	<10	<2
119335	Soil	0.30	14.2	0.8	<0.05	1.5	5.14	12.5	0.04	<1	0.8	16.2	<10	2
119336	Soil	0.22	17.3	1.0	<0.05	0.3	2.64	12.5	0.03	1	0.4	9.6	<10	<2
119337	Soil	0.37	18.2	1.0	<0.05	<0.1	2.85	16.1	0.02	<1	0.4	10.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 7 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
119338	Soil			0.94	31.32	28.76	84.2	58	28.9	14.8	628	3.87	17.5	1.2	0.5	1.5	32.5	0.12	0.60	0.36	26	0.26	0.070
119339	Soil			0.79	22.17	19.02	69.8	62	20.1	10.4	498	3.31	14.8	1.1	0.7	2.0	31.2	0.07	0.42	0.34	30	0.27	0.081
119340	Soil			1.31	29.32	25.16	71.3	203	23.3	11.4	511	3.46	24.9	3.1	1.3	1.6	73.9	0.21	0.97	0.32	18	1.02	0.146
119341	Soil			0.96	26.31	22.06	68.6	111	24.5	11.1	331	3.90	33.3	2.1	1.3	2.2	34.9	0.21	0.82	0.34	23	0.31	0.092
119342	Soil			0.78	28.22	22.04	88.8	74	21.0	9.9	472	3.47	15.3	2.5	0.5	1.9	31.9	0.19	0.62	0.32	27	0.29	0.100
119343	Soil			0.79	21.15	17.87	88.1	118	17.5	7.6	397	2.73	12.7	3.2	0.6	1.5	54.4	0.31	0.49	0.29	25	0.67	0.122
119344	Soil			0.65	29.16	25.81	78.0	74	29.5	13.0	468	3.50	18.3	2.0	1.1	4.0	13.2	0.22	0.59	0.30	23	0.07	0.033
119345	Soil			0.71	26.64	25.52	71.0	280	23.2	11.9	735	3.39	19.2	5.2	1.7	3.5	61.7	0.38	0.61	0.27	20	0.72	0.083
119346	Soil			0.76	31.69	28.33	86.0	31	35.1	16.0	579	3.86	15.9	1.1	0.6	4.0	24.6	0.17	0.51	0.37	20	0.19	0.033
119347	Soil			0.63	47.67	33.76	93.5	160	33.1	21.0	1327	3.78	14.6	1.4	<0.2	3.4	44.8	0.16	0.55	0.43	19	0.63	0.070
119348	Soil			0.75	52.16	36.71	107.7	84	38.9	25.9	1361	4.48	31.3	0.9	0.7	3.1	38.8	0.10	2.70	0.46	15	0.32	0.036
119349	Soil			1.46	23.80	48.06	104.2	148	14.6	9.7	1319	4.53	11.7	0.5	2.0	0.1	11.3	0.34	1.12	0.44	50	0.03	0.184
119350	Soil			0.63	33.88	57.22	89.4	129	27.9	22.7	1611	3.90	9.8	0.6	<0.2	2.7	12.0	0.12	0.52	0.49	22	0.03	0.053
120072	Soil			0.86	38.26	43.96	86.2	57	24.4	35.8	1897	4.76	6.2	0.6	0.9	3.8	6.5	0.11	0.47	0.42	33	0.04	0.049
120073	Soil			0.75	30.02	21.86	101.8	47	25.2	17.3	569	4.42	4.4	0.7	0.3	4.4	6.6	0.16	0.38	0.49	41	0.04	0.040
120074	Soil			0.80	39.79	47.31	92.4	33	30.8	35.8	2225	4.07	5.0	0.8	0.7	4.5	12.5	0.09	0.33	0.46	30	0.09	0.042
120075	Soil			0.61	24.75	30.25	81.3	55	24.8	15.0	710	3.86	8.4	0.5	0.7	3.3	5.6	0.14	0.58	0.37	29	0.03	0.046
120076	Soil			0.73	30.43	30.94	128.5	97	24.5	17.2	1159	3.38	9.0	1.2	1.8	1.7	25.4	0.30	0.72	0.37	23	0.72	0.098
120077	Soil			0.66	29.70	25.40	114.2	90	22.6	12.2	620	3.04	7.9	1.1	1.4	1.8	14.8	0.24	0.65	0.35	22	1.10	0.095
121501	Soil			0.49	22.55	51.46	46.9	89	13.8	8.0	3298	4.14	33.9	1.1	1.0	1.1	28.5	0.26	2.16	0.20	11	4.94	0.138
121502	Soil			0.46	43.55	104.9	59.5	50	19.3	14.7	188	5.40	11.4	0.9	0.7	6.1	17.4	0.01	0.16	0.65	11	0.11	0.029
121503	Soil			0.67	10.56	16.11	97.8	48	16.3	7.9	1129	3.76	10.2	0.7	<0.2	4.7	5.2	0.16	0.44	0.19	24	0.16	0.046
121504	Soil			1.10	21.58	25.44	87.0	137	24.2	11.3	379	3.51	8.0	0.6	0.2	4.2	8.0	0.16	0.40	0.43	33	0.04	0.038
121505	Soil			0.94	23.30	31.71	87.2	108	27.4	12.6	333	3.59	8.9	0.6	1.3	3.8	8.7	0.08	0.60	0.40	33	0.04	0.029
121506	Soil			1.57	29.60	53.45	67.9	139	25.2	16.7	477	4.63	18.6	0.5	0.8	4.5	21.0	0.03	0.44	0.50	23	0.06	0.045
121507	Soil			1.09	19.97	31.73	66.3	64	21.9	10.4	255	3.17	7.6	0.5	1.4	4.1	9.5	0.12	0.61	0.40	35	0.07	0.030
121508	Soil			0.78	35.44	25.46	95.1	47	29.2	17.3	445	3.84	9.9	0.5	0.3	4.2	7.9	0.05	0.27	0.49	36	0.06	0.022
121509	Soil			1.07	29.30	29.41	69.7	81	30.7	17.7	1516	3.82	11.0	1.0	1.2	5.8	9.7	0.09	0.65	0.45	38	0.14	0.028
121510	Soil			0.92	30.30	28.89	103.6	125	28.8	17.6	547	4.49	8.0	0.9	0.5	4.7	10.9	0.07	0.53	0.43	38	0.07	0.026
121511	Soil			0.63	18.13	19.68	79.4	37	25.0	11.4	282	3.16	7.2	0.6	0.7	4.2	15.3	0.09	0.39	0.29	29	0.28	0.020



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 7 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
119338	Soil	7.9	21.8	0.36	89.2	0.006	3	1.30	0.004	0.06	<0.1	3.0	0.10	0.02	83	0.3	0.03	3.9	4.38	<0.1	<0.02
119339	Soil	9.7	19.0	0.29	131.7	0.004	1	1.41	0.003	0.05	<0.1	3.4	0.13	0.03	147	0.2	0.07	4.0	3.25	<0.1	0.02
119340	Soil	24.6	14.7	0.22	115.0	0.003	2	1.07	0.004	0.04	<0.1	4.9	0.11	0.07	762	0.6	0.07	2.3	1.39	<0.1	0.03
119341	Soil	19.7	20.1	0.24	109.3	0.003	1	1.51	0.002	0.05	<0.1	4.9	0.14	0.04	433	0.6	0.09	2.8	1.77	<0.1	<0.02
119342	Soil	14.5	22.7	0.46	116.1	0.002	2	1.74	0.002	0.05	<0.1	2.8	0.11	0.04	1374	0.3	0.07	4.3	1.65	<0.1	0.03
119343	Soil	18.4	20.5	0.42	133.7	0.006	3	1.24	0.004	0.06	<0.1	3.5	0.10	0.07	189	0.5	0.05	3.6	1.89	<0.1	0.04
119344	Soil	13.6	24.0	0.47	105.0	0.002	<1	1.68	0.002	0.05	<0.1	4.5	0.13	<0.02	2236	0.5	0.05	3.6	3.29	<0.1	0.05
119345	Soil	36.2	20.4	0.36	141.7	0.002	1	1.39	0.003	0.04	<0.1	7.8	0.11	0.04	645	0.7	0.07	2.4	1.22	<0.1	0.04
119346	Soil	9.1	20.6	0.49	75.8	0.003	1	1.57	0.003	0.07	<0.1	3.5	0.07	<0.02	73	0.2	0.05	3.7	2.04	<0.1	0.04
119347	Soil	8.7	23.8	0.62	104.2	0.004	5	1.72	0.004	0.10	<0.1	10.0	0.10	0.04	129	0.4	0.08	4.7	8.62	<0.1	0.07
119348	Soil	6.2	15.9	0.37	113.7	0.002	3	1.06	0.004	0.10	<0.1	9.6	0.09	<0.02	955	0.3	0.08	2.6	4.46	<0.1	0.03
119349	Soil	4.8	26.7	0.13	70.7	0.005	2	1.12	0.004	0.07	<0.1	0.4	0.08	0.06	44	0.4	0.07	6.5	3.52	<0.1	<0.02
119350	Soil	5.6	24.3	0.42	72.5	0.003	2	1.78	0.002	0.08	<0.1	3.2	0.09	<0.02	51	0.2	0.08	5.2	7.36	<0.1	0.03
120072	Soil	5.6	33.3	0.44	92.3	0.006	2	2.18	0.004	0.11	<0.1	4.8	0.13	0.02	29	0.4	0.03	7.6	3.66	<0.1	0.06
120073	Soil	5.5	35.0	0.46	208.9	0.008	1	2.34	0.004	0.21	<0.1	3.9	0.19	<0.02	28	0.3	0.02	9.0	2.62	<0.1	0.04
120074	Soil	7.1	33.6	0.54	251.2	0.007	1	2.12	0.007	0.15	<0.1	7.0	0.14	<0.02	31	0.4	0.04	7.7	4.09	<0.1	0.02
120075	Soil	6.5	26.5	0.42	107.5	0.005	<1	1.98	0.003	0.11	<0.1	2.9	0.11	0.02	46	0.3	0.04	6.0	2.08	<0.1	0.04
120076	Soil	10.1	22.4	0.48	165.9	0.008	3	1.37	0.004	0.14	<0.1	3.8	0.11	0.06	62	0.4	0.06	4.3	2.05	<0.1	0.04
120077	Soil	8.6	21.3	0.63	153.2	0.006	3	1.38	0.004	0.13	<0.1	3.7	0.11	0.07	57	0.4	0.04	4.2	1.93	<0.1	0.04
121501	Soil	11.9	10.6	2.57	131.4	0.003	5	0.71	0.005	0.06	<0.1	2.1	0.19	0.06	291	0.4	0.09	1.6	0.34	<0.1	0.04
121502	Soil	5.2	15.5	0.10	227.8	0.002	1	0.75	0.005	0.30	<0.1	6.5	0.20	0.17	45	0.2	0.03	3.0	4.54	<0.1	<0.02
121503	Soil	8.9	16.6	0.20	177.1	0.003	1	1.19	0.001	0.08	<0.1	3.9	0.09	<0.02	56	0.3	0.02	2.9	0.98	<0.1	0.02
121504	Soil	11.0	31.1	0.41	128.9	0.013	3	1.70	0.003	0.22	<0.1	3.3	0.15	<0.02	17	0.3	0.05	5.8	2.17	<0.1	<0.02
121505	Soil	9.2	29.5	0.42	84.3	0.009	3	1.59	0.003	0.10	<0.1	3.1	0.10	<0.02	35	0.2	0.03	5.0	1.95	<0.1	<0.02
121506	Soil	7.3	25.4	0.31	102.6	0.003	1	1.56	0.017	0.16	<0.1	4.3	0.10	0.12	13	0.4	0.03	5.0	1.69	<0.1	<0.02
121507	Soil	10.1	26.8	0.41	106.6	0.007	2	1.53	0.004	0.15	<0.1	2.8	0.11	<0.02	21	0.2	0.03	5.1	1.30	<0.1	<0.02
121508	Soil	6.9	35.2	0.42	100.5	0.003	1	1.92	0.006	0.11	<0.1	4.2	0.09	<0.02	10	<0.1	0.05	7.7	2.51	<0.1	0.02
121509	Soil	11.8	30.2	0.45	178.8	0.007	2	1.78	0.004	0.15	<0.1	6.5	0.14	<0.02	42	0.4	0.03	5.6	1.81	<0.1	<0.02
121510	Soil	8.8	33.7	0.48	200.2	0.005	2	1.90	0.004	0.15	<0.1	4.6	0.14	<0.02	26	0.3	<0.02	7.5	4.02	<0.1	0.03
121511	Soil	8.8	26.1	0.48	105.9	0.005	3	1.53	0.005	0.12	<0.1	3.0	0.09	<0.02	17	0.1	<0.02	5.3	0.94	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 7 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
119338	Soil	0.22	11.3	1.2	<0.05	0.4	8.11	22.5	0.04	1	0.9	26.7	<10	<2
119339	Soil	0.25	13.1	0.7	<0.05	1.1	8.16	26.1	0.03	<1	0.9	18.2	<10	<2
119340	Soil	0.19	10.9	0.3	<0.05	1.6	27.92	50.1	0.05	<1	0.8	12.4	<10	<2
119341	Soil	0.19	11.3	0.5	<0.05	1.2	21.76	49.2	0.05	<1	1.4	15.5	<10	<2
119342	Soil	0.18	10.7	0.5	<0.05	1.4	11.05	39.7	0.05	<1	1.2	31.3	<10	<2
119343	Soil	0.26	12.7	0.7	<0.05	1.3	15.24	33.9	0.04	<1	1.1	17.4	11	<2
119344	Soil	0.14	9.7	0.5	<0.05	1.8	10.12	41.6	0.04	<1	1.1	31.2	<10	<2
119345	Soil	0.14	9.3	0.4	<0.05	1.7	30.09	80.7	0.04	<1	1.3	16.8	<10	<2
119346	Soil	0.16	8.1	0.4	<0.05	1.8	6.57	38.4	0.05	<1	0.8	42.8	<10	<2
119347	Soil	0.16	10.0	0.8	<0.05	2.7	22.33	18.7	0.05	<1	1.7	48.1	11	2
119348	Soil	0.07	7.1	2.5	<0.05	1.8	15.48	12.4	0.05	<1	1.2	24.3	<10	<2
119349	Soil	0.15	14.0	11.6	<0.05	0.1	2.08	9.6	<0.02	1	0.5	7.0	<10	<2
119350	Soil	0.21	12.4	2.8	<0.05	1.7	3.80	12.6	0.04	<1	1.8	47.4	<10	<2
120072	Soil	0.32	19.1	2.9	<0.05	2.0	5.98	17.1	0.04	<1	1.7	32.8	<10	<2
120073	Soil	0.47	32.4	2.2	<0.05	1.4	5.18	13.2	0.03	<1	0.9	28.7	<10	<2
120074	Soil	0.21	20.0	1.9	<0.05	1.3	10.15	23.4	0.04	<1	1.8	33.4	<10	<2
120075	Soil	0.39	17.4	1.3	<0.05	1.4	3.46	16.1	0.04	<1	1.7	31.8	<10	<2
120076	Soil	0.36	13.5	1.7	<0.05	1.2	12.49	22.4	0.03	<1	1.4	17.3	<10	<2
120077	Soil	0.42	14.1	1.7	<0.05	1.4	10.86	17.6	0.03	1	1.3	17.6	<10	<2
121501	Soil	0.11	4.1	2.2	<0.05	1.3	11.34	20.9	<0.02	<1	1.0	4.0	<10	<2
121502	Soil	0.09	23.0	2.8	<0.05	0.5	6.42	13.6	0.05	<1	1.3	1.8	<10	<2
121503	Soil	0.19	9.7	2.9	<0.05	1.0	9.08	28.6	0.04	<1	0.5	8.2	<10	<2
121504	Soil	0.47	22.0	3.2	<0.05	0.3	3.66	24.4	0.03	<1	0.8	31.3	<10	<2
121505	Soil	0.40	13.0	7.0	<0.05	0.6	3.90	22.0	0.02	<1	0.8	29.6	<10	<2
121506	Soil	0.19	15.2	4.2	<0.05	1.0	4.99	18.1	0.05	<1	1.7	22.5	<10	<2
121507	Soil	0.48	16.1	5.2	<0.05	0.8	2.66	21.3	0.03	1	0.9	24.8	<10	<2
121508	Soil	0.14	17.6	2.8	<0.05	1.4	4.99	16.3	0.02	<1	1.0	34.6	<10	<2
121509	Soil	0.36	18.9	3.9	<0.05	1.2	11.14	30.1	0.04	<1	1.6	26.0	<10	<2
121510	Soil	0.24	24.8	3.2	<0.05	1.4	6.68	20.9	0.03	<1	1.8	39.5	<10	<2
121511	Soil	0.39	17.5	2.3	<0.05	1.6	3.94	19.5	0.03	<1	1.0	36.0	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 8 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
121512	Soil			0.51	23.99	24.60	118.8	72	28.5	12.2	1198	3.18	4.9	1.2	1.0	3.4	43.2	0.22	0.21	0.37	26	1.05	0.042
121601	Soil			0.81	30.91	28.17	81.4	116	27.5	13.2	321	3.70	21.2	0.4	<0.2	2.1	13.4	0.07	0.70	0.45	32	0.04	0.034
121602	Soil			0.75	26.60	33.19	114.4	89	17.6	20.2	2607	4.49	11.8	0.4	0.7	0.3	10.7	0.47	0.45	0.54	38	0.05	0.120
121603	Soil			0.93	24.94	30.56	136.3	155	19.9	19.3	1765	3.52	8.9	0.4	0.3	0.2	33.8	0.63	0.54	0.41	34	0.35	0.125
121604	Soil			0.86	21.39	11.00	53.7	41	15.2	6.4	201	1.98	26.1	0.4	0.7	0.9	9.7	0.08	1.11	0.31	30	0.03	0.029
121605	Soil			0.68	26.41	23.54	66.8	39	20.5	10.4	262	2.90	19.2	0.6	1.1	1.7	10.6	0.10	1.11	0.36	25	0.03	0.038
121606	Soil			0.96	23.89	24.74	116.1	90	19.1	11.5	613	3.95	14.4	0.4	<0.2	0.4	11.0	0.27	0.77	0.44	35	0.08	0.071
121607	Soil			0.72	33.87	56.12	92.0	128	26.8	19.2	992	4.06	10.7	0.7	<0.2	4.8	19.9	0.29	0.57	0.36	19	0.16	0.064
121608	Soil			0.70	29.58	28.24	111.5	135	22.6	11.6	344	3.42	8.2	0.3	<0.2	1.2	9.9	0.18	0.51	0.33	19	0.09	0.080
121609	Soil			0.79	28.15	29.61	83.7	217	25.6	10.3	386	3.38	26.4	1.0	1.1	3.0	34.3	0.17	0.72	0.35	20	0.25	0.066
121610	Soil			1.13	19.52	20.27	82.7	99	15.9	8.2	201	2.74	10.8	0.4	<0.2	1.2	20.1	0.24	0.71	0.35	39	0.11	0.031
121611	Soil			0.75	27.13	39.81	182.0	244	20.6	23.8	3861	3.80	9.5	0.4	<0.2	0.3	38.1	0.65	0.50	0.40	35	0.35	0.160
121612	Soil			0.87	24.04	34.50	121.3	153	16.1	19.3	2626	3.79	12.3	0.4	<0.2	0.2	16.8	0.36	0.52	0.36	33	0.13	0.158
121613	Soil			1.02	27.04	32.05	101.0	228	19.4	18.2	1741	4.34	12.7	0.7	0.7	0.5	11.1	0.40	0.89	0.43	32	0.08	0.119
121614	Soil			1.02	17.98	15.85	98.3	125	13.8	6.3	303	2.74	11.9	0.5	<0.2	0.3	10.1	1.32	0.71	0.35	41	0.04	0.048
121615	Soil			0.76	34.01	32.84	121.5	113	26.1	13.8	785	3.89	18.9	2.1	<0.2	2.7	59.9	0.40	0.53	0.42	21	0.83	0.154
121616	Soil			0.69	30.77	31.10	116.6	107	26.0	14.4	1498	3.43	29.5	3.2	0.3	1.9	70.0	0.45	0.70	0.40	23	0.95	0.136
121617	Soil			0.80	36.82	38.38	80.8	129	20.0	23.8	1629	2.97	15.5	1.9	0.3	1.5	110.0	0.44	0.47	0.49	20	1.59	0.243
121618	Soil			0.60	54.73	42.63	96.9	60	30.9	27.3	954	3.93	24.8	0.4	0.5	2.3	28.9	0.17	0.85	0.51	27	0.06	0.086
121619	Soil			0.86	35.25	41.72	99.2	67	27.3	22.2	1377	4.57	20.8	0.5	0.6	2.0	11.7	0.15	0.64	0.46	32	0.02	0.076
121620	Soil			0.90	58.40	95.35	114.0	106	34.0	39.0	2640	4.85	18.9	0.8	0.2	2.8	21.8	0.11	0.70	0.39	34	0.08	0.104
121621	Soil			0.69	40.57	54.07	94.3	96	27.1	30.8	2682	4.89	15.4	0.8	0.4	3.4	27.5	0.15	0.43	0.51	35	0.15	0.137
121622	Soil			0.32	17.41	36.82	65.3	150	18.4	12.0	547	2.61	7.3	1.1	0.6	3.8	31.0	0.17	0.26	0.25	13	0.29	0.069
121623	Soil			0.38	53.23	21.73	106.5	53	34.9	16.6	215	3.79	9.8	0.5	0.9	2.6	25.5	0.11	0.47	0.49	22	0.06	0.036
121624	Soil			0.72	32.77	35.43	96.0	189	30.9	15.0	623	4.25	248.1	1.0	182.4	2.8	62.0	0.17	1.02	0.37	16	0.69	0.087
121625	Soil			0.80	19.74	23.15	67.2	60	22.7	10.9	356	3.48	5.7	0.5	2.0	4.0	10.5	0.06	0.30	0.36	30	0.08	0.024
121626	Soil			0.63	16.85	19.30	62.4	55	20.9	9.4	242	3.26	6.1	0.5	0.5	4.1	7.5	0.06	0.28	0.31	31	0.05	0.019
121627	Soil			0.91	26.05	25.64	130.4	144	33.6	16.7	758	3.30	6.0	3.0	1.3	2.8	74.2	0.27	0.31	0.35	23	0.79	0.067
121628	Soil			0.69	10.69	16.51	49.0	18	13.6	6.3	159	2.58	5.4	0.4	<0.2	4.1	7.1	0.09	0.34	0.31	41	0.04	0.016
121629	Soil			0.70	13.76	19.44	85.3	27	14.4	7.3	283	3.56	6.9	0.4	0.5	3.3	6.2	0.11	0.34	0.30	35	0.05	0.023



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: July 15, 2011

Page: 8 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
121512	Soil	8.6	31.3	0.49	190.6	0.003	6	1.77	0.007	0.11	<0.1	4.7	0.12	0.04	47	0.6	<0.02	5.9	1.47	<0.1	0.06
121601	Soil	6.0	17.7	0.16	76.8	0.003	1	0.85	0.002	0.07	<0.1	3.2	0.11	<0.02	108	<0.1	0.06	3.3	2.06	<0.1	<0.02
121602	Soil	3.8	26.8	0.24	163.6	0.007	3	1.37	0.004	0.12	<0.1	1.2	0.09	0.07	47	0.3	0.10	6.9	4.45	<0.1	<0.02
121603	Soil	4.9	24.3	0.23	187.0	0.006	2	1.10	0.004	0.10	<0.1	0.7	0.08	0.07	29	0.2	0.09	5.6	3.16	<0.1	<0.02
121604	Soil	8.6	7.6	0.03	40.8	0.007	1	0.32	0.002	0.06	<0.1	1.2	0.06	<0.02	23	<0.1	0.03	3.5	1.98	<0.1	<0.02
121605	Soil	8.2	14.7	0.14	59.5	0.003	2	0.88	0.002	0.06	<0.1	2.2	0.11	<0.02	51	0.2	0.03	3.2	3.58	<0.1	<0.02
121606	Soil	5.9	19.3	0.17	96.8	0.005	2	0.99	0.003	0.09	<0.1	1.3	0.08	0.04	38	0.2	0.06	5.1	2.40	<0.1	<0.02
121607	Soil	6.2	13.4	0.18	187.4	0.003	1	0.84	0.002	0.10	<0.1	5.4	0.12	<0.02	91	0.3	0.04	2.8	4.92	<0.1	<0.02
121608	Soil	2.1	12.5	0.08	52.9	0.001	3	0.44	0.002	0.09	<0.1	3.5	0.09	0.03	45	0.1	0.07	2.1	1.78	<0.1	<0.02
121609	Soil	9.2	16.3	0.22	98.8	0.003	2	0.89	0.003	0.10	<0.1	4.5	0.10	0.04	48	0.2	0.03	2.5	5.89	<0.1	0.05
121610	Soil	7.5	19.8	0.17	110.1	0.009	3	0.91	0.004	0.08	<0.1	1.8	0.09	<0.02	26	<0.1	0.04	6.0	3.27	<0.1	<0.02
121611	Soil	4.1	20.2	0.23	271.7	0.008	2	1.08	0.003	0.16	<0.1	1.1	0.09	0.08	91	0.1	0.07	5.4	2.70	<0.1	<0.02
121612	Soil	3.7	20.0	0.19	191.2	0.007	2	1.11	0.003	0.10	<0.1	0.8	0.10	0.10	113	0.3	0.10	5.0	2.30	<0.1	<0.02
121613	Soil	5.5	24.5	0.25	152.3	0.007	2	1.35	0.004	0.10	<0.1	1.4	0.11	0.09	55	0.3	0.05	5.4	3.55	<0.1	<0.02
121614	Soil	8.6	17.9	0.15	86.6	0.014	1	0.79	0.003	0.09	<0.1	1.0	0.10	0.03	29	0.1	0.05	4.9	2.08	<0.1	<0.02
121615	Soil	13.0	19.5	0.26	110.0	0.003	3	1.37	0.005	0.08	<0.1	9.6	0.10	0.08	67	0.5	0.07	3.3	3.25	<0.1	0.02
121616	Soil	23.3	20.1	0.31	190.6	0.005	3	1.22	0.004	0.07	<0.1	6.0	0.09	0.07	76	0.4	0.09	3.3	2.94	<0.1	0.03
121617	Soil	11.2	18.7	0.32	187.1	0.006	4	1.39	0.005	0.08	<0.1	5.0	0.07	0.16	54	0.4	0.07	4.1	3.57	<0.1	0.04
121618	Soil	5.1	24.6	0.49	91.7	0.004	5	1.62	0.004	0.13	<0.1	3.8	0.13	0.03	60	0.2	0.10	5.5	10.63	<0.1	0.02
121619	Soil	5.3	29.2	0.46	61.9	0.008	3	1.77	0.004	0.10	<0.1	2.8	0.10	0.03	29	0.3	0.06	6.0	4.95	<0.1	0.02
121620	Soil	7.3	29.0	0.61	137.1	0.008	4	1.82	0.004	0.11	<0.1	4.9	0.15	0.03	45	0.4	0.14	5.8	7.85	<0.1	0.02
121621	Soil	5.3	30.0	0.49	169.8	0.006	3	1.97	0.004	0.13	<0.1	4.2	0.13	0.05	63	0.2	0.11	6.4	8.67	<0.1	0.04
121622	Soil	6.7	10.1	0.11	86.7	0.002	2	0.61	0.003	0.11	<0.1	2.8	0.07	0.04	43	0.2	0.05	1.8	9.05	<0.1	0.03
121623	Soil	6.2	14.7	0.06	49.3	<0.001	2	0.36	0.002	0.08	<0.1	3.4	0.07	<0.02	59	<0.1	0.06	1.7	2.01	<0.1	<0.02
121624	Soil	10.5	13.4	0.18	150.8	0.002	3	0.93	0.003	0.08	<0.1	7.1	0.19	0.06	141	0.6	0.05	2.5	2.31	<0.1	0.05
121625	Soil	8.2	28.6	0.44	112.5	0.005	2	1.47	0.004	0.11	<0.1	2.9	0.10	<0.02	16	<0.1	0.03	6.4	1.48	<0.1	0.02
121626	Soil	9.5	26.6	0.44	103.4	0.004	<1	1.72	0.004	0.09	<0.1	2.7	0.10	<0.02	18	<0.1	0.03	6.1	1.34	<0.1	0.02
121627	Soil	9.1	31.0	0.48	165.1	0.004	4	1.56	0.006	0.12	<0.1	4.6	0.10	0.05	63	0.7	0.02	4.8	1.39	<0.1	0.06
121628	Soil	13.2	19.1	0.26	76.2	0.008	<1	1.29	0.003	0.06	<0.1	1.8	0.10	<0.02	19	<0.1	0.04	6.4	1.08	<0.1	<0.02
121629	Soil	8.3	23.4	0.30	58.9	0.005	<1	1.37	0.004	0.08	<0.1	2.0	0.08	<0.02	14	<0.1	0.03	5.7	0.74	<0.1	0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 8 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
121512	Soil	0.45	23.6	3.3	<0.05	1.4	10.56	15.8	0.04	1	0.9	48.5	<10	<2
121601	Soil	0.27	12.3	2.6	<0.05	0.3	3.34	12.6	0.04	<1	0.7	12.4	<10	<2
121602	Soil	0.27	21.1	2.5	<0.05	0.2	2.48	8.3	0.03	<1	0.8	16.5	<10	<2
121603	Soil	0.30	19.7	3.1	<0.05	0.1	2.74	10.6	0.03	<1	0.7	17.4	<10	<2
121604	Soil	0.19	13.6	1.2	<0.05	<0.1	2.00	15.9	<0.02	<1	<0.1	0.7	<10	<2
121605	Soil	0.20	14.1	1.9	<0.05	0.4	2.99	16.8	<0.02	<1	0.7	10.4	<10	<2
121606	Soil	0.35	17.6	1.8	<0.05	<0.1	2.31	12.7	0.03	1	0.5	12.9	<10	<2
121607	Soil	0.14	12.3	1.6	<0.05	0.4	9.57	31.7	0.04	<1	0.8	18.9	<10	<2
121608	Soil	0.12	10.7	3.9	<0.05	0.2	2.76	4.9	0.04	<1	0.3	1.5	<10	<2
121609	Soil	0.25	17.3	4.4	<0.05	1.4	13.93	21.4	<0.02	<1	1.2	11.8	<10	<2
121610	Soil	0.47	22.2	3.9	<0.05	0.2	2.24	14.8	<0.02	<1	0.4	9.5	<10	<2
121611	Soil	0.34	21.8	3.6	<0.05	<0.1	2.00	8.9	0.02	<1	0.9	15.9	13	<2
121612	Soil	0.36	15.7	3.2	<0.05	<0.1	2.10	8.0	0.02	1	0.5	15.1	11	<2
121613	Soil	0.33	19.5	3.1	<0.05	0.1	4.41	17.1	0.03	<1	1.3	20.6	<10	<2
121614	Soil	0.50	21.7	2.0	<0.05	<0.1	2.33	16.2	<0.02	<1	0.5	7.9	<10	<2
121615	Soil	0.21	14.3	6.5	<0.05	0.7	28.95	34.0	0.05	1	1.3	22.3	11	<2
121616	Soil	0.25	14.0	1.7	<0.05	1.0	31.27	44.2	0.05	<1	1.4	17.3	<10	<2
121617	Soil	0.30	11.5	4.7	<0.05	0.9	21.69	28.9	0.06	<1	1.3	20.8	<10	<2
121618	Soil	0.19	16.6	1.8	<0.05	0.9	4.68	14.0	0.04	<1	1.3	51.7	<10	<2
121619	Soil	0.31	14.2	1.3	<0.05	0.8	3.26	12.4	0.03	<1	1.1	49.7	<10	<2
121620	Soil	0.18	16.5	3.0	<0.05	0.9	9.99	24.2	0.05	<1	1.9	50.9	<10	<2
121621	Soil	0.20	19.2	1.5	<0.05	1.3	7.11	17.3	0.05	<1	1.9	45.5	<10	<2
121622	Soil	0.10	12.4	1.0	<0.05	1.5	8.21	13.9	0.02	<1	0.3	8.2	<10	<2
121623	Soil	0.04	6.6	0.8	<0.05	0.2	2.98	13.2	0.05	<1	1.3	3.3	<10	<2
121624	Soil	0.16	12.0	1.4	<0.05	1.9	20.72	25.3	0.05	<1	1.1	13.1	<10	<2
121625	Soil	0.40	16.2	2.3	<0.05	1.3	3.63	17.3	0.02	<1	1.0	29.5	<10	<2
121626	Soil	0.34	17.0	3.0	<0.05	1.5	3.05	19.3	<0.02	<1	0.7	33.2	<10	<2
121627	Soil	0.39	18.3	3.5	<0.05	1.8	12.56	20.9	0.03	<1	1.1	35.6	<10	<2
121628	Soil	0.51	14.4	2.2	<0.05	1.0	2.69	25.4	<0.02	<1	0.4	21.1	<10	<2
121629	Soil	0.41	12.9	1.2	<0.05	1.1	2.41	16.4	0.03	<1	0.4	20.0	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 9 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
121630	Soil			0.62	21.01	25.96	90.8	99	27.9	11.1	663	3.14	7.2	2.7	2.6	3.1	110.2	0.21	0.41	0.35	23	0.98	0.037
121631	Soil			0.64	18.79	17.09	73.7	32	28.8	11.8	286	3.51	5.6	0.5	2.6	4.3	15.3	0.05	0.31	0.32	38	0.10	0.013
121632	Soil			0.72	16.90	20.30	84.6	33	27.4	12.2	421	3.56	6.4	0.5	1.3	4.0	19.1	0.08	0.31	0.34	37	0.23	0.022
121633	Soil			0.78	18.66	20.00	68.9	51	24.0	11.3	918	3.16	6.2	0.6	1.1	3.8	14.2	0.11	0.35	0.30	31	0.15	0.021
121634	Soil			0.75	40.14	26.11	76.8	141	33.7	12.2	476	3.50	4.8	0.9	2.7	4.6	45.7	0.07	0.19	0.37	31	0.43	0.038
121701	Soil			0.47	18.92	32.97	34.2	108	13.6	6.0	2220	3.91	48.1	1.5	1.3	1.0	20.3	0.12	1.86	0.14	8	8.18	0.096
121702	Soil			0.49	7.77	12.60	45.5	60	6.7	2.9	2153	2.09	17.0	1.3	<0.2	0.4	36.7	0.14	0.77	0.09	11	10.81	0.126
121703	Soil			0.48	8.70	19.93	42.7	159	11.5	5.2	984	1.81	9.1	0.7	2.1	1.3	25.8	0.16	0.61	0.16	18	5.11	0.085
121704	Soil			0.84	13.30	27.22	84.4	43	17.7	7.9	957	3.94	13.7	1.3	0.8	4.3	10.4	0.25	0.72	0.32	49	0.32	0.036
121705	Soil			0.39	15.70	31.61	224.0	176	14.6	6.2	1730	3.21	31.4	1.9	0.3	1.2	26.2	0.24	1.45	0.12	11	10.41	0.112
121706	Soil			0.68	15.24	36.81	104.0	190	14.4	4.4	6034	7.14	46.2	2.9	<0.2	1.0	26.7	0.36	1.97	0.10	11	10.83	0.185
121707	Soil			0.51	10.88	18.56	31.6	97	10.2	4.4	1489	2.09	16.3	1.4	<0.2	0.7	23.2	0.12	1.15	0.12	12	8.84	0.106
121708	Soil			0.76	13.43	23.07	106.8	22	15.7	9.9	769	3.20	7.9	0.7	0.8	3.5	11.8	0.41	0.49	0.29	44	0.47	0.022
121709	Soil			0.50	9.07	16.61	66.3	115	8.3	3.5	2601	3.15	24.1	1.6	0.8	0.4	31.3	0.31	1.21	0.07	13	10.14	0.113
121710	Soil			0.67	9.84	15.88	50.2	38	12.5	6.7	466	2.91	6.6	0.5	0.6	2.2	10.0	0.16	0.44	0.20	45	0.50	0.029
121711	Soil			0.70	16.09	21.30	55.8	33	22.2	11.3	711	3.55	11.5	1.2	1.0	4.5	15.5	0.13	0.56	0.25	39	0.31	0.023
121712	Soil			0.61	31.75	21.68	59.4	105	27.1	11.4	315	3.25	10.9	0.8	0.9	2.3	60.2	0.18	0.58	0.29	28	1.16	0.036
121713	Soil			0.92	14.63	30.24	130.2	87	16.5	8.3	3023	4.03	22.7	0.8	0.6	1.5	14.1	0.28	1.18	0.22	38	1.97	0.093
121714	Soil			0.67	2.61	19.74	38.2	14	35.9	15.9	352	3.93	3.3	0.6	<0.2	7.3	5.4	0.03	0.66	0.41	24	0.05	0.022
121715	Soil			0.57	16.41	14.00	88.8	104	12.1	8.4	261	2.97	5.2	0.3	<0.2	3.7	5.3	0.12	0.24	0.29	34	0.09	0.032
121716	Soil			0.69	13.46	20.62	82.6	103	12.0	7.0	283	2.88	5.5	0.3	<0.2	2.9	6.9	0.16	0.31	0.32	33	0.08	0.034
121717	Soil			0.53	12.22	20.65	64.7	61	11.9	5.8	200	2.93	4.6	0.3	0.5	3.4	5.0	0.10	0.20	0.29	30	0.03	0.032
121718	Soil			0.49	20.67	23.59	54.9	17	22.3	10.5	258	3.41	7.8	0.5	0.3	4.8	6.0	0.04	0.28	0.34	34	0.02	0.011
121719	Soil			0.21	31.31	8.87	65.0	149	20.2	10.2	459	2.93	1.2	0.2	0.6	2.7	9.0	0.04	0.10	0.28	19	0.07	0.033
121720	Soil			0.86	14.55	19.38	82.1	68	19.9	9.0	223	3.28	6.2	0.6	1.0	4.7	8.6	0.12	0.47	0.31	45	0.05	0.026
121721	Soil			0.61	12.18	18.84	49.3	67	9.3	4.4	144	2.39	6.8	0.3	<0.2	3.5	12.6	0.03	0.24	0.34	29	0.09	0.020
121722	Soil			0.75	15.76	17.17	74.5	21	15.2	7.5	169	3.07	6.7	0.3	<0.2	3.4	9.5	0.08	0.31	0.30	32	0.03	0.017
121723	Soil			0.55	21.67	25.92	102.5	74	25.3	11.2	296	5.17	7.1	0.4	<0.2	4.0	6.7	0.06	0.22	0.46	41	0.02	0.039
121724	Soil			0.78	16.16	22.36	66.3	122	24.7	10.9	286	3.54	5.8	0.7	0.3	5.4	10.8	0.13	0.36	0.37	30	0.03	0.014
121725	Soil			0.69	16.81	15.86	70.2	69	16.2	7.7	244	3.28	3.3	0.4	0.8	3.2	10.4	0.06	0.25	0.30	33	0.09	0.025



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 9 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
121630	Soil	8.6	25.2	0.47	136.1	0.005	5	1.30	0.007	0.11	<0.1	3.7	0.09	0.04	55	0.6	0.03	4.0	1.23	<0.1	0.03
121631	Soil	10.9	34.0	0.61	102.9	0.007	1	1.81	0.007	0.08	<0.1	3.1	0.08	<0.02	14	<0.1	<0.02	6.3	1.52	<0.1	0.02
121632	Soil	10.0	33.7	0.62	112.9	0.008	1	1.71	0.008	0.08	<0.1	3.2	0.07	<0.02	14	<0.1	<0.02	6.0	1.14	<0.1	<0.02
121633	Soil	9.2	28.1	0.49	122.1	0.008	2	1.41	0.007	0.08	<0.1	2.9	0.04	<0.02	17	<0.1	<0.02	4.5	1.31	<0.1	<0.02
121634	Soil	10.7	36.7	0.59	156.7	0.003	2	1.92	0.010	0.13	<0.1	6.6	0.09	0.02	52	0.3	0.02	6.1	2.65	<0.1	0.02
121701	Soil	6.3	7.3	4.21	45.2	0.002	2	0.28	0.006	0.04	<0.1	1.1	0.10	0.02	253	0.6	0.06	0.7	0.08	<0.1	0.04
121702	Soil	4.6	8.1	6.16	96.5	0.009	<1	0.55	0.008	0.03	<0.1	0.6	0.06	0.05	37	0.6	<0.02	1.1	0.28	<0.1	0.04
121703	Soil	7.5	12.3	3.12	87.5	0.007	3	0.74	0.008	0.05	<0.1	1.9	0.05	0.02	158	<0.1	0.03	1.6	0.48	<0.1	<0.02
121704	Soil	14.1	28.1	0.39	150.8	0.009	2	1.82	0.006	0.11	<0.1	3.7	0.16	<0.02	84	0.1	0.06	5.4	1.53	<0.1	0.03
121705	Soil	5.6	9.7	5.58	43.8	0.004	<1	0.48	0.009	0.04	<0.1	1.2	0.11	0.02	415	0.5	0.03	1.1	0.28	<0.1	0.04
121706	Soil	10.6	11.4	5.51	67.0	0.003	<1	0.61	0.007	0.02	<0.1	1.6	0.12	0.03	422	0.7	0.06	0.8	0.12	<0.1	0.04
121707	Soil	6.2	10.3	4.62	57.5	0.005	3	0.56	0.010	0.04	<0.1	1.2	0.10	0.04	293	0.5	<0.02	1.1	0.31	<0.1	0.03
121708	Soil	9.6	24.4	0.39	125.9	0.007	2	1.59	0.005	0.09	<0.1	2.7	0.11	<0.02	22	0.2	0.05	5.4	0.96	<0.1	0.02
121709	Soil	7.0	10.1	5.29	71.1	0.005	2	0.67	0.009	0.02	<0.1	0.9	0.12	0.04	245	0.7	0.02	1.1	0.29	<0.1	<0.02
121710	Soil	6.8	22.4	0.44	103.9	0.005	<1	1.65	0.005	0.05	<0.1	2.4	0.12	<0.02	47	0.1	0.03	5.2	0.82	<0.1	0.02
121711	Soil	10.1	26.4	0.41	186.8	0.004	2	1.55	0.005	0.09	<0.1	3.8	0.10	<0.02	61	0.2	<0.02	4.2	0.80	<0.1	0.03
121712	Soil	6.8	21.9	0.33	138.2	0.003	5	1.30	0.006	0.12	<0.1	5.1	0.09	0.03	130	0.2	<0.02	3.5	1.11	<0.1	0.03
121713	Soil	10.4	21.9	1.17	208.6	0.010	6	1.62	0.006	0.09	<0.1	2.8	0.19	0.07	73	0.2	<0.02	3.7	0.86	<0.1	0.05
121714	Soil	5.6	33.9	0.27	106.8	0.017	8	1.18	0.004	0.37	0.2	3.0	0.16	<0.02	16	<0.1	0.05	3.7	5.05	<0.1	<0.02
121715	Soil	7.8	19.5	0.17	119.0	0.003	1	1.34	0.003	0.19	<0.1	2.4	0.10	<0.02	19	0.2	<0.02	6.0	0.93	<0.1	<0.02
121716	Soil	8.3	19.7	0.18	129.9	0.004	1	1.15	0.004	0.15	<0.1	1.9	0.09	<0.02	21	0.2	0.02	5.4	0.77	<0.1	<0.02
121717	Soil	7.4	21.7	0.20	133.9	0.003	2	1.41	0.004	0.18	<0.1	2.4	0.11	<0.02	24	<0.1	<0.02	5.7	1.24	<0.1	<0.02
121718	Soil	9.5	27.1	0.35	75.1	0.004	2	1.76	0.004	0.10	<0.1	3.1	0.10	<0.02	35	<0.1	<0.02	5.8	1.02	<0.1	<0.02
121719	Soil	4.1	23.4	0.32	122.8	0.001	1	1.54	0.006	0.23	<0.1	2.6	0.09	<0.02	38	<0.1	<0.02	5.5	1.24	<0.1	<0.02
121720	Soil	12.4	29.2	0.42	106.1	0.011	1	1.71	0.005	0.14	0.1	2.6	0.14	<0.02	20	0.2	0.03	6.0	2.42	<0.1	<0.02
121721	Soil	6.6	18.3	0.15	107.4	0.002	<1	1.12	0.004	0.14	<0.1	1.8	0.10	<0.02	11	<0.1	<0.02	5.5	0.87	<0.1	<0.02
121722	Soil	8.2	23.0	0.28	62.1	0.006	2	1.16	0.004	0.12	<0.1	2.5	0.09	<0.02	24	0.1	0.02	5.1	1.78	<0.1	<0.02
121723	Soil	4.7	45.3	0.39	57.4	0.002	2	2.28	0.007	0.12	<0.1	3.2	0.10	<0.02	34	0.3	<0.02	8.6	2.61	<0.1	<0.02
121724	Soil	11.5	30.9	0.50	56.7	0.012	<1	1.45	0.006	0.08	<0.1	2.7	0.08	<0.02	29	0.1	<0.02	5.8	2.50	<0.1	0.02
121725	Soil	8.2	22.7	0.28	97.9	0.003	<1	1.63	0.004	0.11	<0.1	2.7	0.11	<0.02	16	0.1	<0.02	5.9	1.67	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 9 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
121630	Soil			0.46	11.5	3.1	<0.05	1.5	8.34	19.1	0.05	1	1.0	36.2	<10	<2
121631	Soil			0.35	12.0	1.3	<0.05	1.2	3.36	22.2	0.03	<1	0.7	37.0	<10	<2
121632	Soil			0.45	10.3	2.8	<0.05	0.9	4.09	20.1	0.02	<1	0.6	33.8	<10	<2
121633	Soil			0.38	12.4	1.5	<0.05	0.8	4.83	21.2	0.03	<1	0.9	27.3	<10	<2
121634	Soil			0.43	16.5	4.3	<0.05	1.2	16.86	21.2	0.03	<1	1.8	32.8	<10	<2
121701	Soil			0.06	1.5	0.5	<0.05	1.1	8.57	11.9	<0.02	<1	0.8	1.0	<10	<2
121702	Soil			0.18	3.4	1.9	<0.05	1.1	5.79	9.4	<0.02	<1	<0.1	1.6	<10	<2
121703	Soil			0.21	6.7	5.8	<0.05	0.8	8.01	13.3	<0.02	1	0.3	7.3	<10	<2
121704	Soil			0.51	15.1	1.9	<0.05	1.0	7.42	26.9	0.03	<1	0.7	14.6	<10	<2
121705	Soil			0.11	2.9	1.2	<0.05	1.8	8.06	10.4	<0.02	<1	1.1	2.6	14	<2
121706	Soil			0.06	2.3	2.1	<0.05	1.4	18.93	20.0	<0.02	<1	0.2	0.5	<10	<2
121707	Soil			0.19	2.9	2.2	<0.05	0.8	6.43	11.0	<0.02	<1	0.5	2.8	<10	<2
121708	Soil			0.47	11.1	4.1	<0.05	1.2	3.23	18.6	<0.02	<1	0.4	20.3	<10	<2
121709	Soil			0.15	3.0	1.3	<0.05	0.5	10.37	12.8	<0.02	<1	1.5	3.7	<10	<2
121710	Soil			0.42	6.1	2.6	<0.05	0.8	1.95	13.3	0.03	<1	0.4	18.3	<10	<2
121711	Soil			0.38	9.8	2.1	<0.05	2.3	5.00	22.2	0.04	<1	0.7	20.6	<10	<2
121712	Soil			0.41	10.2	2.5	<0.05	1.1	7.05	13.9	0.04	<1	1.0	21.2	<10	<2
121713	Soil			0.39	14.1	0.9	<0.05	1.4	8.45	21.3	0.04	<1	1.1	11.5	<10	<2
121714	Soil			0.43	28.2	3.5	<0.05	0.5	3.55	13.0	<0.02	<1	1.0	16.8	<10	<2
121715	Soil			0.19	21.3	1.7	<0.05	0.5	2.02	15.5	0.02	<1	0.5	12.5	<10	<2
121716	Soil			0.39	15.0	3.5	<0.05	0.5	1.73	16.4	<0.02	<1	0.4	14.7	<10	<2
121717	Soil			0.29	21.8	1.9	<0.05	0.6	1.53	14.8	0.02	<1	0.5	16.2	<10	<2
121718	Soil			0.21	13.5	2.0	<0.05	1.0	3.42	19.9	0.02	<1	0.8	27.4	<10	<2
121719	Soil			0.17	16.5	1.6	<0.05	0.8	2.16	9.1	0.02	<1	1.1	28.8	<10	<2
121720	Soil			0.69	23.1	2.5	<0.05	1.4	2.99	23.5	0.03	<1	0.6	33.2	<10	<2
121721	Soil			0.29	17.8	3.4	<0.05	0.8	1.96	12.4	<0.02	<1	0.4	8.0	<10	<2
121722	Soil			0.35	18.2	2.5	<0.05	1.2	2.32	15.5	<0.02	<1	0.4	23.8	<10	<2
121723	Soil			0.37	17.3	3.3	<0.05	1.2	2.63	10.1	0.04	<1	0.8	35.4	<10	<2
121724	Soil			0.46	15.4	2.6	<0.05	1.6	3.47	21.4	<0.02	<1	0.6	35.2	<10	<2
121725	Soil			0.35	17.7	1.5	<0.05	1.6	2.37	15.5	0.03	<1	0.7	21.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 10 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
121726	Soil			0.89	18.47	27.47	71.8	119	14.3	6.7	357	3.60	4.5	0.8	0.5	3.7	10.6	0.12	0.26	0.43	48	0.04	0.027
121727	Soil			0.53	16.21	19.09	71.9	32	21.1	8.5	217	3.51	3.3	0.6	<0.2	4.0	30.9	0.07	0.13	0.39	30	0.15	0.019
121728	Soil			0.61	9.89	14.48	66.1	75	12.5	8.0	420	3.08	3.2	0.3	<0.2	3.4	5.7	0.09	0.20	0.32	36	0.01	0.019
121729	Soil			0.56	16.72	15.22	61.8	84	9.7	4.4	153	3.09	4.0	0.2	2.0	1.3	8.3	0.21	0.17	0.34	35	0.05	0.040
121730	Soil			0.60	22.45	19.52	112.6	91	30.8	12.0	281	4.21	8.9	0.4	1.3	3.0	7.2	0.07	0.25	0.30	21	0.03	0.031
121731	Soil			0.73	24.01	27.63	76.3	232	19.1	9.7	358	3.93	4.2	0.9	1.4	3.4	26.5	0.15	0.30	0.47	29	0.13	0.036
121732	Soil			0.82	15.60	18.49	96.0	177	17.9	8.2	239	3.95	6.2	0.4	1.0	3.0	7.1	0.10	0.41	0.36	36	0.06	0.028
121733	Soil			0.41	19.58	18.27	61.8	57	19.6	9.4	282	3.54	4.4	0.4	0.9	2.8	7.1	0.06	0.26	0.38	26	0.06	0.024
121734	Soil			0.28	22.20	36.60	281.8	84	24.0	12.7	867	2.89	42.0	1.8	5.9	6.7	117.6	0.47	1.87	0.32	20	5.97	0.131
121735	Soil			0.40	33.35	15.76	100.2	103	24.7	9.8	368	2.80	3.1	4.1	1.1	2.3	91.5	0.16	0.22	0.36	17	1.38	0.042
121736	Soil			0.41	33.65	19.04	80.3	100	30.0	11.4	241	3.44	2.9	1.9	1.3	4.3	41.2	0.04	0.14	0.38	20	0.41	0.020
121737	Soil			0.54	14.52	13.44	176.8	33	20.6	10.8	311	3.67	3.7	0.3	<0.2	2.3	8.1	0.23	0.29	0.28	34	0.05	0.025
121738	Soil			0.54	22.25	23.09	89.0	89	23.8	13.9	708	3.23	4.0	1.4	0.3	2.4	52.7	0.10	0.25	0.35	19	0.83	0.039
121739	Soil			0.74	30.69	25.85	73.7	54	17.1	11.9	1114	2.84	4.0	0.5	<0.2	3.1	10.2	0.31	0.39	0.36	32	0.23	0.042
121740	Soil			0.38	19.13	26.20	112.4	79	20.5	9.3	284	2.29	53.0	0.7	2.5	1.9	50.1	0.22	1.56	0.31	13	1.69	0.049
121741	Soil			0.46	23.52	29.02	133.9	48	24.4	10.6	453	2.64	72.8	0.8	3.9	1.9	32.9	0.23	2.09	0.30	17	1.43	0.088
121742	Soil			0.36	30.99	22.74	108.5	108	23.2	11.0	495	2.70	8.7	1.1	0.5	1.4	63.3	0.19	0.49	0.33	17	1.74	0.062
121743	Soil			0.46	27.17	23.44	87.6	103	21.9	11.8	601	2.77	12.2	1.2	0.8	1.1	59.5	0.47	1.06	0.31	18	1.58	0.058
121744	Soil			0.51	13.55	30.49	223.6	36	14.2	8.0	1716	3.75	181.8	1.5	2.7	2.1	38.3	0.69	13.79	0.27	27	1.48	0.057
121745	Soil			0.36	16.78	20.08	440.5	57	18.4	9.0	366	2.18	48.0	1.8	3.2	1.3	200.5	0.89	2.38	0.26	10	2.87	0.050
121746	Soil			1.08	37.81	42.93	111.0	300	40.1	16.8	449	4.08	9.4	1.0	0.3	5.3	81.6	0.17	0.41	0.43	12	0.87	0.070
121747	Soil			0.75	26.83	36.17	87.0	171	22.6	8.4	196	2.99	5.6	0.8	<0.2	1.9	56.2	0.07	0.30	0.38	10	0.44	0.055
121748	Soil			0.56	32.21	32.40	109.3	262	32.5	12.1	229	3.72	7.2	0.6	1.2	3.4	56.7	0.13	0.35	0.47	13	0.67	0.061
121749	Soil			0.54	33.70	35.53	114.9	264	33.2	13.7	283	3.84	7.2	0.6	1.0	2.5	82.5	0.11	0.35	0.44	12	1.36	0.062
121750	Soil			1.17	27.65	38.33	98.0	85	28.4	12.3	545	3.75	7.3	0.5	1.4	1.5	23.8	0.13	0.53	0.39	19	0.13	0.062
121751	Soil			1.14	31.53	34.41	96.5	132	33.4	14.3	486	3.48	10.0	0.7	0.8	3.8	36.5	0.10	0.36	0.37	11	0.34	0.046
121752	Soil			0.91	34.44	24.99	93.0	263	28.1	12.9	448	3.97	10.0	1.4	0.6	3.7	40.8	0.12	0.44	0.33	21	0.49	0.081
121753	Soil			1.02	17.34	18.87	72.5	43	21.0	7.5	325	3.31	10.0	0.6	0.9	0.7	26.0	0.10	0.59	0.33	46	0.22	0.068
121754	Soil			0.76	24.18	24.25	77.4	84	20.1	9.3	399	3.16	8.2	0.6	0.9	1.4	63.6	0.16	0.41	0.38	25	0.62	0.093
121755	Soil			0.86	23.86	21.19	73.8	81	17.9	8.6	322	3.03	12.1	0.5	1.4	0.2	8.8	0.06	0.49	0.34	26	0.04	0.065



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 10 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
121726	Soil	9.3	25.6	0.21	90.6	0.004	<1	1.83	0.008	0.10	<0.1	2.2	0.12	<0.02	35	0.1	<0.02	7.1	2.01	<0.1	0.03
121727	Soil	6.2	29.0	0.41	74.2	0.003	<1	1.50	0.007	0.11	<0.1	2.9	0.05	<0.02	11	0.2	<0.02	6.4	1.86	<0.1	0.02
121728	Soil	7.3	21.9	0.20	112.2	0.003	<1	1.63	0.005	0.08	<0.1	2.4	0.10	<0.02	25	<0.1	<0.02	7.1	0.93	<0.1	0.02
121729	Soil	5.2	16.2	0.11	79.8	0.003	1	1.23	0.004	0.10	<0.1	1.6	0.04	<0.02	13	0.1	<0.02	6.5	0.67	<0.1	<0.02
121730	Soil	4.8	28.4	0.48	51.7	0.004	2	1.94	<0.001	0.06	<0.1	2.8	0.04	<0.02	58	0.1	0.02	5.6	1.97	<0.1	0.03
121731	Soil	5.1	23.8	0.33	114.3	0.001	<1	1.94	0.006	0.12	<0.1	3.0	0.10	<0.02	22	0.3	0.03	6.9	4.63	<0.1	0.04
121732	Soil	5.7	26.3	0.36	77.3	0.003	<1	2.05	<0.001	0.07	<0.1	2.2	0.09	<0.02	25	0.2	0.02	6.8	1.47	<0.1	0.03
121733	Soil	4.8	25.7	0.39	63.6	0.002	<1	1.64	0.003	0.07	<0.1	2.3	0.06	<0.02	<5	0.1	<0.02	6.7	1.15	<0.1	0.03
121734	Soil	25.1	19.0	1.88	176.9	0.006	6	1.79	0.040	0.42	<0.1	4.9	0.19	<0.02	<5	0.4	0.05	4.5	2.31	<0.1	0.10
121735	Soil	4.8	22.8	0.45	278.5	0.001	1	1.81	0.007	0.12	<0.1	3.6	0.06	0.05	56	0.8	<0.02	5.1	1.10	<0.1	0.09
121736	Soil	7.5	30.4	0.57	201.8	0.002	1	1.88	0.005	0.09	<0.1	5.1	0.05	0.02	36	0.5	<0.02	5.9	1.96	<0.1	0.07
121737	Soil	6.3	29.5	0.41	54.6	0.002	<1	2.13	0.003	0.08	<0.1	2.7	0.08	<0.02	11	0.2	0.03	7.4	2.04	<0.1	0.02
121738	Soil	5.4	25.1	0.52	136.9	0.003	<1	1.61	0.004	0.09	<0.1	2.9	0.05	0.04	32	0.4	<0.02	5.1	1.41	<0.1	0.03
121739	Soil	5.2	21.3	0.27	129.1	0.004	<1	1.25	0.003	0.11	<0.1	2.5	0.09	0.03	33	<0.1	0.06	5.5	1.76	<0.1	<0.02
121740	Soil	8.3	11.8	0.48	98.4	0.003	7	0.78	0.003	0.10	<0.1	2.7	0.10	0.04	210	0.2	0.05	2.5	0.79	<0.1	0.06
121741	Soil	10.4	13.3	0.48	92.9	0.004	4	0.91	0.003	0.13	0.1	3.3	0.11	0.04	284	0.5	0.06	2.6	0.98	<0.1	0.06
121742	Soil	7.7	20.5	0.46	161.2	0.003	4	1.31	0.004	0.10	<0.1	2.9	0.07	0.07	106	0.5	0.04	3.8	1.24	<0.1	0.05
121743	Soil	7.5	19.5	0.41	126.1	0.005	4	1.25	0.003	0.10	<0.1	2.4	0.08	0.07	117	0.4	0.03	3.8	1.14	<0.1	0.02
121744	Soil	15.8	17.1	0.39	171.4	0.003	<1	1.50	0.001	0.06	0.1	4.1	0.16	0.03	1028	0.5	0.05	3.9	1.04	<0.1	0.04
121745	Soil	6.6	13.5	0.64	97.8	0.002	6	0.86	0.004	0.08	<0.1	2.5	0.25	0.07	238	1.1	0.03	2.2	3.56	<0.1	0.04
121746	Soil	7.3	16.7	0.29	156.1	0.002	5	0.76	0.009	0.11	<0.1	6.3	0.20	0.10	68	0.6	0.05	2.0	3.12	<0.1	0.05
121747	Soil	3.6	11.7	0.12	121.2	0.001	3	0.58	0.007	0.10	<0.1	3.7	0.15	0.07	61	0.2	0.04	1.7	4.23	<0.1	0.03
121748	Soil	7.1	12.3	0.23	84.9	<0.001	1	0.77	0.003	0.07	<0.1	5.8	0.12	0.04	54	0.8	0.02	1.8	1.40	<0.1	0.05
121749	Soil	5.5	11.7	0.22	96.3	<0.001	2	0.73	0.003	0.09	<0.1	5.5	0.14	0.05	68	0.7	0.06	1.9	2.29	<0.1	0.03
121750	Soil	4.3	19.0	0.23	86.3	0.004	1	1.07	0.003	0.09	<0.1	3.3	0.15	0.04	20	0.4	0.05	3.2	4.74	<0.1	<0.02
121751	Soil	3.9	17.8	0.21	76.6	0.002	2	0.79	0.005	0.10	<0.1	4.6	0.11	0.03	51	0.2	0.06	2.3	2.78	<0.1	0.04
121752	Soil	7.3	17.9	0.22	112.1	0.002	1	0.89	0.002	0.07	<0.1	8.7	0.08	0.03	52	0.7	0.06	2.4	2.32	<0.1	0.04
121753	Soil	7.8	25.5	0.35	138.0	0.006	1	1.81	<0.001	0.05	<0.1	1.8	0.16	0.03	17	0.3	0.04	5.8	2.70	<0.1	<0.02
121754	Soil	5.9	17.5	0.23	146.3	0.003	<1	1.16	0.003	0.08	<0.1	2.7	0.12	0.05	37	0.4	0.07	3.8	2.90	<0.1	0.04
121755	Soil	4.8	14.1	0.08	48.3	0.003	<1	0.70	0.003	0.07	<0.1	0.9	0.11	0.03	34	0.3	0.05	3.3	2.76	<0.1	<0.02



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 10 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
121726	Soil	0.88	21.4	1.2	<0.05	1.7	2.13	17.3	0.02	<1	0.5	38.3	<10	<2
121727	Soil	0.23	15.2	1.4	<0.05	1.7	3.03	11.7	0.02	<1	0.6	32.1	<10	<2
121728	Soil	0.25	14.5	1.4	<0.05	1.5	2.12	13.6	<0.02	<1	0.4	17.0	<10	<2
121729	Soil	0.51	12.0	1.0	<0.05	0.3	1.12	10.0	0.03	<1	0.3	6.0	<10	<2
121730	Soil	0.44	8.8	0.9	<0.05	2.4	2.26	10.4	0.03	<1	0.6	50.3	<10	<2
121731	Soil	0.34	23.3	1.1	<0.05	1.5	3.36	10.8	0.06	<1	0.9	36.0	<10	<2
121732	Soil	0.57	16.6	1.2	<0.05	1.6	2.22	10.9	0.03	<1	0.4	43.2	<10	<2
121733	Soil	0.32	13.7	1.0	<0.05	1.5	2.65	9.9	0.03	<1	0.6	24.3	<10	<2
121734	Soil	0.08	18.8	0.6	<0.05	6.2	10.26	44.8	0.02	<1	1.1	14.7	22	<2
121735	Soil	0.32	10.4	0.7	<0.05	3.3	6.49	9.0	0.03	<1	1.3	34.8	10	<2
121736	Soil	0.27	14.2	0.8	<0.05	3.4	12.83	13.9	0.03	<1	1.4	49.1	<10	<2
121737	Soil	0.34	19.7	0.9	<0.05	1.0	1.90	12.3	0.04	<1	0.9	44.2	14	<2
121738	Soil	0.28	11.8	0.8	<0.05	1.6	3.90	12.4	0.03	<1	0.8	35.9	<10	<2
121739	Soil	0.58	13.8	0.7	<0.05	0.8	2.98	11.4	<0.02	<1	0.9	15.4	<10	<2
121740	Soil	0.31	9.1	0.6	<0.05	1.6	7.97	18.9	0.02	<1	0.9	10.9	<10	<2
121741	Soil	0.29	10.0	0.5	<0.05	1.9	10.92	22.6	0.03	<1	0.7	12.9	11	<2
121742	Soil	0.37	12.6	0.5	<0.05	1.4	8.90	15.1	0.03	<1	1.1	26.5	<10	<2
121743	Soil	0.38	11.0	0.5	<0.05	1.0	7.22	18.0	0.02	<1	0.6	25.9	<10	<2
121744	Soil	0.31	6.9	0.6	<0.05	1.1	11.60	35.5	0.03	<1	1.0	11.1	17	<2
121745	Soil	0.20	12.3	0.6	<0.05	1.2	8.09	14.6	<0.02	<1	0.6	14.7	36	<2
121746	Soil	0.07	9.8	1.8	<0.05	2.9	17.73	22.8	0.05	1	0.9	20.9	<10	<2
121747	Soil	0.08	10.2	1.1	<0.05	1.5	7.60	8.9	0.05	<1	1.0	10.1	<10	<2
121748	Soil	0.07	7.0	1.0	<0.05	2.3	17.11	16.3	0.06	<1	0.9	18.2	<10	<2
121749	Soil	0.07	7.7	1.2	<0.05	1.5	16.29	13.4	0.04	<1	0.9	18.7	<10	<2
121750	Soil	0.15	11.5	1.6	<0.05	0.4	5.59	10.1	0.05	<1	1.1	24.7	<10	<2
121751	Soil	0.05	7.8	2.6	<0.05	2.0	8.95	10.5	0.04	1	0.7	26.1	<10	<2
121752	Soil	0.17	8.9	1.4	<0.05	2.0	20.60	15.7	0.05	<1	1.0	15.1	<10	<2
121753	Soil	0.38	12.3	1.0	<0.05	0.3	3.89	17.2	0.03	<1	0.7	19.6	<10	<2
121754	Soil	0.33	14.8	0.9	<0.05	1.1	7.38	18.6	0.04	<1	0.9	19.5	<10	<2
121755	Soil	0.12	14.7	1.2	<0.05	<0.1	2.72	10.3	0.03	<1	0.3	5.0	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 11 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
121756	Soil	0.94	29.58	29.72	91.4	76	24.9	14.6	684	3.99	13.8	0.6	1.1	1.1	15.9	0.10	0.61	0.43	30	0.03	0.065
121757	Soil	1.13	20.56	22.75	74.9	45	22.9	10.8	425	3.22	11.7	0.8	0.9	0.8	10.6	0.13	0.72	0.34	38	0.05	0.061
121758	Soil	0.76	47.00	31.54	84.9	134	43.3	24.7	532	3.97	44.5	1.0	1.2	3.4	298.9	0.12	0.57	0.37	13	4.89	0.046
121759	Soil	0.86	29.34	20.50	128.9	139	22.6	10.7	472	2.90	45.4	2.1	2.1	1.6	78.4	0.55	0.84	0.31	17	1.09	0.104
121760	Soil	0.83	29.17	22.88	82.1	240	24.5	12.0	587	3.11	22.4	3.3	3.1	2.9	50.9	0.29	0.53	0.27	18	0.55	0.063
121761	Soil	0.65	27.38	15.50	98.5	203	22.9	8.6	256	2.47	17.5	3.1	3.9	2.5	51.2	0.38	0.54	0.20	20	0.65	0.070
121762	Soil	0.61	21.40	15.33	91.6	87	20.4	9.8	516	2.46	9.8	4.9	1.0	1.6	66.1	0.41	0.42	0.22	34	0.75	0.117
121763	Soil	0.94	17.30	13.85	74.6	107	15.6	6.7	483	2.42	8.9	2.0	0.9	0.2	51.2	0.28	0.53	0.31	31	0.49	0.117
121764	Soil	0.74	20.88	21.46	59.1	104	21.3	12.3	524	3.54	14.5	2.8	1.0	2.5	68.9	0.18	0.46	0.29	24	0.76	0.075
121765	Soil	0.50	44.79	24.14	92.3	51	35.0	20.0	916	3.53	14.5	0.6	0.6	3.2	58.4	0.09	0.39	0.40	16	1.09	0.038
121766	Soil	1.00	23.27	20.54	62.5	63	22.1	12.7	539	4.08	15.5	0.6	<0.2	3.1	7.0	0.07	0.50	0.37	29	0.03	0.035
120551	Soil	0.73	37.84	25.89	98.5	87	33.3	18.7	917	3.64	14.7	0.7	<0.2	2.1	69.9	0.12	0.73	0.35	18	0.30	0.064
120552	Soil	0.91	27.50	30.12	80.9	130	29.2	13.7	458	3.75	14.3	1.4	0.4	2.4	129.6	0.13	0.61	0.32	22	1.86	0.061
120553	Soil	0.46	28.71	17.26	61.6	123	25.2	11.3	379	2.60	9.5	1.3	<0.2	2.1	133.6	0.16	0.61	0.28	15	2.24	0.049
120554	Soil	0.61	27.67	18.37	60.7	192	23.3	11.8	432	2.66	5.2	1.2	<0.2	1.9	109.4	0.29	0.32	0.26	18	1.35	0.105
120555	Soil	0.69	25.09	21.29	90.1	210	25.0	13.3	584	3.47	9.3	1.1	<0.2	2.6	66.8	0.26	0.42	0.29	22	0.91	0.080
120556	Soil	0.71	23.57	24.65	81.7	63	21.5	11.7	417	3.51	10.4	0.6	<0.2	1.6	24.9	0.11	0.45	0.34	20	0.27	0.072
121901	Soil	0.59	27.47	21.59	87.2	128	30.6	14.1	373	3.37	9.0	0.6	<0.2	3.4	65.0	0.15	0.38	0.30	21	0.85	0.047
121902	Soil	0.88	20.17	18.46	63.5	121	18.9	11.1	461	3.36	8.7	0.6	<0.2	1.6	21.9	0.10	0.39	0.28	28	0.26	0.050
121903	Soil	1.38	27.17	29.64	71.3	258	25.3	16.4	730	4.22	9.0	0.7	<0.2	1.9	22.7	0.09	0.51	0.32	25	0.22	0.072
121904	Soil	0.79	27.66	24.94	71.4	131	27.3	13.8	443	3.95	9.2	1.1	<0.2	3.1	30.2	0.04	0.36	0.32	18	0.33	0.060
121905	Soil	0.92	22.76	28.12	88.9	155	23.6	10.8	373	4.47	10.4	1.0	0.5	0.6	16.7	0.17	0.47	0.29	24	0.14	0.101
121906	Soil	0.63	24.70	21.99	114.7	150	23.7	8.5	284	3.82	8.7	0.5	<0.2	1.5	19.7	0.12	0.35	0.36	14	0.13	0.055



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 11 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
121756	Soil	7.2	21.6	0.29	50.9	0.007	3	1.27	0.002	0.08	<0.1	2.2	0.10	0.03	54	0.1	0.05	4.5	8.08	<0.1	<0.02
121757	Soil	9.7	24.4	0.38	71.9	0.009	<1	1.65	0.001	0.07	0.1	1.8	0.13	0.03	39	0.6	0.04	4.8	5.00	<0.1	<0.02
121758	Soil	7.2	9.2	0.12	63.6	<0.001	<1	0.40	0.004	0.09	<0.1	9.2	0.09	0.02	1464	0.6	0.07	0.9	1.29	<0.1	0.03
121759	Soil	12.1	14.6	0.31	96.7	0.002	2	0.77	0.003	0.08	<0.1	4.3	0.11	0.07	1086	1.0	0.08	2.1	1.82	<0.1	0.05
121760	Soil	27.7	17.3	0.44	92.1	0.002	2	1.02	0.002	0.05	<0.1	5.7	0.07	0.02	653	0.7	0.03	2.5	0.88	<0.1	0.04
121761	Soil	18.3	21.4	0.51	71.6	0.003	<1	0.86	0.002	0.07	<0.1	5.0	0.09	0.05	312	1.0	0.04	2.5	0.89	<0.1	0.06
121762	Soil	21.7	38.8	1.16	123.2	0.007	1	1.68	0.002	0.07	<0.1	3.2	0.10	0.06	126	0.9	0.03	5.5	2.27	<0.1	0.05
121763	Soil	10.3	21.3	0.37	119.1	0.004	<1	1.31	0.003	0.08	<0.1	0.6	0.11	0.06	75	0.3	0.05	5.2	2.65	<0.1	<0.02
121764	Soil	15.1	19.7	0.34	119.6	0.002	<1	1.56	0.002	0.05	<0.1	4.1	0.10	0.03	413	0.5	0.07	3.6	1.50	<0.1	0.03
121765	Soil	4.9	23.3	0.70	73.9	0.003	3	1.61	0.003	0.12	<0.1	7.0	0.06	<0.02	73	0.3	0.05	4.6	2.33	<0.1	0.07
121766	Soil	5.4	25.4	0.35	51.7	0.003	2	1.43	<0.001	0.06	<0.1	2.7	0.08	<0.02	37	0.3	0.05	5.6	2.72	<0.1	0.05
120551	Soil	4.1	23.9	0.58	60.0	0.003	2	1.45	0.001	0.10	<0.1	4.6	0.06	0.04	116	0.3	0.05	4.3	4.12	<0.1	0.05
120552	Soil	8.0	22.3	0.31	161.4	0.002	4	1.49	0.002	0.06	<0.1	5.4	0.09	0.06	187	0.5	0.04	4.1	2.62	<0.1	0.06
120553	Soil	6.3	17.4	0.37	80.4	0.001	4	1.14	0.003	0.08	<0.1	3.9	0.06	0.07	127	0.6	<0.02	3.1	1.27	<0.1	0.11
120554	Soil	6.7	19.3	0.29	99.3	0.002	4	1.35	0.003	0.05	<0.1	4.3	0.09	0.08	74	0.6	0.04	3.8	1.45	<0.1	0.07
120555	Soil	7.6	21.1	0.33	113.8	0.002	2	1.33	0.002	0.05	<0.1	4.3	0.10	0.04	53	0.4	0.05	3.8	1.97	<0.1	0.04
120556	Soil	4.2	17.8	0.27	50.6	0.003	1	0.99	0.002	0.06	<0.1	2.3	0.07	0.03	30	0.3	0.03	3.2	1.99	<0.1	0.02
121901	Soil	5.4	25.1	0.47	110.1	0.004	2	1.44	0.001	0.08	<0.1	5.8	0.09	0.03	32	0.3	<0.02	4.4	2.30	<0.1	0.07
121902	Soil	5.9	20.7	0.39	81.9	0.007	2	1.08	0.001	0.09	<0.1	2.1	0.06	0.03	13	0.3	0.04	4.1	1.65	<0.1	<0.02
121903	Soil	4.8	24.2	0.33	84.3	0.004	<1	1.43	<0.001	0.09	<0.1	3.3	0.10	0.04	15	0.3	0.06	4.9	3.62	<0.1	0.04
121904	Soil	6.0	21.3	0.33	104.7	0.001	2	1.43	<0.001	0.06	<0.1	6.0	0.09	0.03	45	0.6	0.07	3.6	1.41	<0.1	0.08
121905	Soil	4.1	28.1	0.43	53.2	0.007	1	1.14	<0.001	0.07	<0.1	1.6	0.07	0.05	27	0.5	0.04	4.2	2.76	<0.1	<0.02
121906	Soil	2.6	15.5	0.19	62.7	0.001	2	0.86	0.001	0.08	<0.1	2.7	0.13	0.03	20	0.2	0.06	3.2	2.34	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 11 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11000332.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
121756	Soil	0.27	12.1	1.0	<0.05	0.2	3.50	15.4	0.03	<1	0.8	23.5	<10	<2
121757	Soil	0.40	13.0	1.1	<0.05	0.2	4.39	22.7	0.04	<1	0.4	23.3	<10	<2
121758	Soil	0.03	4.7	0.5	<0.05	1.6	20.61	17.1	0.06	<1	1.0	4.8	<10	<2
121759	Soil	0.20	11.4	0.5	<0.05	1.6	15.17	27.1	0.04	1	0.9	11.6	12	<2
121760	Soil	0.10	7.3	0.4	<0.05	1.3	20.71	47.4	0.04	<1	1.1	21.0	<10	<2
121761	Soil	0.14	6.6	0.4	<0.05	2.6	14.51	32.6	0.04	<1	1.0	18.9	<10	<2
121762	Soil	0.33	13.1	0.5	<0.05	1.6	13.45	54.4	0.04	<1	1.2	35.0	<10	<2
121763	Soil	0.26	19.8	0.7	<0.05	0.2	4.77	20.1	0.03	<1	0.5	23.4	<10	<2
121764	Soil	0.30	10.8	0.5	<0.05	1.3	14.28	48.8	0.04	<1	1.8	22.7	<10	<2
121765	Soil	0.09	6.7	1.4	<0.05	2.6	10.72	12.5	0.05	<1	0.9	51.6	<10	<2
121766	Soil	0.29	11.4	1.2	<0.05	3.0	2.56	13.7	0.03	<1	0.5	33.4	<10	<2
120551	Soil	0.15	7.8	1.5	<0.05	1.9	7.55	11.6	0.04	<1	1.2	46.4	<10	<2
120552	Soil	0.39	7.8	1.3	<0.05	2.4	18.13	24.2	0.04	<1	1.1	38.2	<10	<2
120553	Soil	0.24	6.4	0.4	<0.05	4.1	11.66	14.9	0.03	<1	0.5	29.2	<10	<2
120554	Soil	0.32	5.9	0.5	<0.05	2.5	16.14	18.0	0.03	<1	0.9	30.2	<10	<2
120555	Soil	0.32	9.4	0.5	<0.05	1.3	12.83	21.6	0.04	<1	1.1	35.7	<10	<2
120556	Soil	0.27	8.4	0.4	<0.05	0.7	4.61	13.0	0.03	<1	0.7	30.5	<10	<2
121901	Soil	0.32	8.7	0.6	<0.05	2.6	8.42	19.7	0.04	<1	1.0	45.0	<10	<2
121902	Soil	0.43	10.6	0.5	<0.05	0.7	2.93	14.0	0.02	<1	0.5	28.1	<10	<2
121903	Soil	0.31	11.8	1.3	<0.05	0.8	8.52	14.4	0.04	<1	1.0	36.2	<10	<2
121904	Soil	0.14	7.6	0.9	<0.05	2.2	14.13	18.6	0.04	<1	1.1	39.4	<10	<2
121905	Soil	0.36	7.3	0.8	<0.05	0.2	3.44	13.9	0.02	<1	0.5	25.0	<10	<2
121906	Soil	0.10	11.8	0.6	<0.05	0.8	3.88	6.1	0.04	<1	0.8	19.8	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: **Scarlet**
 Report Date: **July 15, 2011**

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000332.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
118816	Soil	1.07	36.13	50.77	97.9	98	28.6	27.3	1804	4.19	8.1	0.9	2.6	2.6	9.3	0.20	0.48	0.47	37	0.06	0.066
REP 118816	QC	0.99	36.80	52.69	101.8	99	27.8	27.4	1792	4.18	8.5	0.9	1.4	2.7	9.1	0.19	0.50	0.48	37	0.06	0.063
118826	Soil	1.26	24.46	19.76	76.1	49	19.8	9.0	545	3.27	7.7	0.6	2.9	0.6	8.3	0.13	0.78	0.27	45	0.06	0.058
REP 118826	QC	1.31	24.35	19.98	74.1	43	20.3	9.0	541	3.29	7.4	0.6	1.6	0.6	8.2	0.13	0.78	0.25	44	0.06	0.055
118951	Soil	0.94	29.82	20.73	78.4	286	30.9	12.3	507	3.25	18.2	2.9	3.4	3.5	36.5	0.21	0.55	0.34	25	0.29	0.031
REP 118951	QC	0.89	30.85	22.48	81.6	281	31.8	13.1	525	3.33	19.1	3.2	3.3	3.6	39.9	0.23	0.59	0.32	26	0.32	0.033
118965	Soil	0.87	34.39	41.58	108.5	86	28.7	18.5	644	4.57	7.5	0.9	0.4	3.6	9.5	0.13	0.47	0.43	17	0.01	0.066
REP 118965	QC	0.79	35.01	40.80	111.7	88	29.1	18.9	647	4.61	7.7	1.0	<0.2	3.6	9.2	0.14	0.46	0.44	18	0.02	0.068
118979	Soil	0.57	18.39	14.96	54.8	20	18.6	11.3	302	3.31	6.6	0.4	0.4	3.0	5.2	0.04	0.27	0.29	33	0.04	0.018
REP 118979	QC	0.59	19.31	15.40	58.7	18	19.3	11.6	303	3.31	6.8	0.4	1.2	3.0	5.5	0.04	0.26	0.28	33	0.05	0.019
119283	Soil	0.75	32.86	16.49	102.1	127	31.7	12.1	421	2.92	24.5	2.1	3.6	3.6	36.5	0.27	0.87	0.21	32	0.60	0.072
REP 119283	QC	0.74	32.16	16.04	97.4	120	30.5	12.0	401	2.88	23.9	2.1	4.5	3.5	35.2	0.25	0.86	0.22	31	0.61	0.074
119299	Soil	1.12	22.71	39.54	131.2	197	24.1	9.7	6114	11.28	45.1	2.6	2.0	3.1	9.8	0.50	2.22	0.29	44	0.84	0.109
REP 119299	QC	1.17	24.90	41.21	134.9	195	26.1	10.6	6341	11.85	48.5	2.6	2.4	3.2	10.5	0.46	2.23	0.30	46	0.90	0.120
119317	Soil	0.65	16.03	29.00	196.0	42	20.3	11.8	1496	3.66	23.3	0.8	1.2	2.6	14.4	0.76	1.15	0.32	37	0.91	0.060
REP 119317	QC	0.63	16.62	29.71	196.5	41	20.5	11.9	1560	3.74	24.0	0.8	1.0	2.7	14.8	0.79	1.20	0.33	37	0.90	0.064
119330	Soil	1.01	19.06	22.82	83.3	49	17.1	7.0	314	2.89	7.6	0.5	<0.2	0.5	56.5	0.15	0.62	0.41	33	0.60	0.068
REP 119330	QC	1.02	19.09	22.93	83.4	46	17.8	7.2	316	2.95	7.8	0.5	0.4	0.5	56.6	0.15	0.62	0.41	33	0.61	0.070
120074	Soil	0.80	39.79	47.31	92.4	33	30.8	35.8	2225	4.07	5.0	0.8	0.7	4.5	12.5	0.09	0.33	0.46	30	0.09	0.042
REP 120074	QC	0.79	39.10	47.31	92.7	35	30.9	34.9	2215	4.06	4.7	0.9	1.4	4.4	12.2	0.11	0.32	0.47	29	0.10	0.042
121512	Soil	0.51	23.99	24.60	118.8	72	28.5	12.2	1198	3.18	4.9	1.2	1.0	3.4	43.2	0.22	0.21	0.37	26	1.05	0.042
REP 121512	QC	0.53	23.23	24.53	118.7	68	27.1	12.2	1167	3.13	4.6	1.1	1.2	3.3	42.5	0.23	0.21	0.35	26	1.04	0.043
121624	Soil	0.72	32.77	35.43	96.0	189	30.9	15.0	623	4.25	248.1	1.0	182.4	2.8	62.0	0.17	1.02	0.37	16	0.69	0.087
REP 121624	QC	0.75	31.94	34.21	95.8	176	31.0	14.1	605	4.06	230.6	1.0	177.6	2.8	58.8	0.15	0.99	0.36	15	0.67	0.084
121721	Soil	0.61	12.18	18.84	49.3	67	9.3	4.4	144	2.39	6.8	0.3	<0.2	3.5	12.6	0.03	0.24	0.34	29	0.09	0.020
REP 121721	QC	0.63	12.32	19.55	51.2	61	9.5	4.5	147	2.68	6.9	0.3	<0.2	3.5	13.0	0.06	0.22	0.34	30	0.09	0.021
121729	Soil	0.56	16.72	15.22	61.8	84	9.7	4.4	153	3.09	4.0	0.2	2.0	1.3	8.3	0.21	0.17	0.34	35	0.05	0.040
REP 121729	QC	0.63	17.57	15.27	63.6	90	9.9	4.3	157	3.12	4.5	0.2	<0.2	1.4	8.9	0.18	0.17	0.35	35	0.06	0.044

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000332.1

Method	Analyte	Unit	MDL	1F15 La ppm	1F15 Cr ppm	1F15 Mg %	1F15 Ba ppm	1F15 Ti %	1F15 B ppm	1F15 Al %	1F15 Na %	1F15 K %	1F15 W ppm	1F15 Sc ppm	1F15 Ti ppm	1F15 S %	1F15 Hg ppb	1F15 Se ppm	1F15 Te ppm	1F15 Ga ppm	1F15 Cs ppm	1F15 Ge ppm	1F15 Hf ppm
Pulp Duplicates				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
118816	Soil			7.6	36.2	0.41	112.0	0.007	<1	1.88	0.004	0.09	<0.1	4.1	0.14	0.03	49	0.5	0.04	7.2	3.60	<0.1	0.02
REP 118816	QC			7.4	34.8	0.43	111.8	0.007	<1	1.86	0.003	0.09	<0.1	4.3	0.15	0.03	48	0.4	0.04	7.7	3.69	<0.1	<0.02
118826	Soil			8.7	30.7	0.42	65.5	0.014	<1	1.67	0.003	0.06	<0.1	1.8	0.10	0.03	39	0.4	0.05	6.1	2.04	<0.1	<0.02
REP 118826	QC			8.6	30.5	0.41	66.4	0.013	<1	1.68	0.003	0.06	<0.1	2.0	0.10	0.03	34	0.5	0.03	6.0	1.98	<0.1	<0.02
118951	Soil			20.4	24.2	0.47	117.3	0.003	3	1.32	0.002	0.06	<0.1	4.5	0.12	<0.02	646	0.5	0.07	3.7	1.80	<0.1	0.05
REP 118951	QC			21.9	26.1	0.49	125.0	0.004	2	1.36	0.002	0.06	<0.1	5.1	0.12	<0.02	545	0.7	0.06	3.6	2.02	<0.1	0.04
118965	Soil			3.2	13.7	0.05	33.6	<0.001	2	0.48	0.001	0.06	<0.1	5.8	0.11	<0.02	82	0.4	0.05	1.4	2.90	<0.1	<0.02
REP 118965	QC			3.2	13.3	0.05	32.1	0.001	3	0.47	0.001	0.06	<0.1	6.0	0.11	<0.02	84	0.7	0.04	1.5	2.78	<0.1	0.02
118979	Soil			6.0	25.4	0.34	108.7	0.004	<1	1.63	0.002	0.07	<0.1	2.6	0.08	<0.02	46	0.2	<0.02	5.9	1.49	<0.1	0.03
REP 118979	QC			6.1	26.3	0.36	110.7	0.003	<1	1.61	0.002	0.08	<0.1	2.8	0.08	<0.02	34	0.2	0.03	6.1	1.47	<0.1	0.03
119283	Soil			24.1	39.1	0.39	218.4	0.003	1	0.77	0.002	0.10	<0.1	5.8	0.13	0.05	298	1.4	<0.02	2.7	2.09	<0.1	0.07
REP 119283	QC			23.0	37.0	0.37	217.1	0.003	2	0.73	0.002	0.09	<0.1	5.8	0.13	0.05	132	1.5	<0.02	2.7	1.93	<0.1	0.07
119299	Soil			28.5	25.8	0.53	200.9	0.007	1	1.91	0.002	0.06	0.2	5.9	0.22	0.06	316	1.2	0.15	4.3	0.61	0.1	0.06
REP 119299	QC			30.1	28.7	0.55	211.4	0.008	2	1.96	0.002	0.06	0.1	5.8	0.24	0.06	313	1.1	0.19	4.4	0.64	<0.1	0.10
119317	Soil			13.3	26.2	0.56	152.9	0.008	6	2.03	0.004	0.12	<0.1	3.7	0.13	0.03	54	0.3	0.04	5.7	1.30	<0.1	0.07
REP 119317	QC			13.4	26.2	0.56	155.3	0.007	5	2.05	0.004	0.12	<0.1	3.8	0.12	0.03	49	0.3	0.04	5.6	1.22	<0.1	0.07
119330	Soil			5.1	15.7	0.17	138.9	0.007	1	1.02	0.004	0.06	<0.1	1.4	0.15	0.04	15	0.3	0.06	4.5	3.16	<0.1	<0.02
REP 119330	QC			5.2	15.8	0.17	142.2	0.007	2	1.01	0.004	0.06	0.1	1.4	0.15	0.04	10	0.2	0.07	4.5	3.23	<0.1	<0.02
120074	Soil			7.1	33.6	0.54	251.2	0.007	1	2.12	0.007	0.15	<0.1	7.0	0.14	<0.02	31	0.4	0.04	7.7	4.09	<0.1	0.02
REP 120074	QC			7.2	34.0	0.53	252.8	0.007	2	2.13	0.006	0.15	<0.1	7.0	0.13	<0.02	24	0.3	0.03	7.8	4.05	<0.1	<0.02
121512	Soil			8.6	31.3	0.49	190.6	0.003	6	1.77	0.007	0.11	<0.1	4.7	0.12	0.04	47	0.6	<0.02	5.9	1.47	<0.1	0.06
REP 121512	QC			8.1	30.6	0.47	181.1	0.003	5	1.72	0.007	0.11	<0.1	4.3	0.11	0.04	41	0.5	0.03	5.8	1.38	<0.1	0.06
121624	Soil			10.5	13.4	0.18	150.8	0.002	3	0.93	0.003	0.08	<0.1	7.1	0.19	0.06	141	0.6	0.05	2.5	2.31	<0.1	0.05
REP 121624	QC			9.9	12.8	0.18	148.5	0.002	2	0.90	0.003	0.08	<0.1	7.0	0.19	0.06	134	0.5	0.06	2.4	2.23	<0.1	0.06
121721	Soil			6.6	18.3	0.15	107.4	0.002	<1	1.12	0.004	0.14	<0.1	1.8	0.10	<0.02	11	<0.1	<0.02	5.5	0.87	<0.1	<0.02
REP 121721	QC			7.3	19.4	0.15	115.3	0.003	<1	1.25	0.004	0.16	<0.1	1.9	0.11	<0.02	12	<0.1	<0.02	5.4	1.00	<0.1	0.02
121729	Soil			5.2	16.2	0.11	79.8	0.003	1	1.23	0.004	0.10	<0.1	1.6	0.04	<0.02	13	0.1	<0.02	6.5	0.67	<0.1	<0.02
REP 121729	QC			5.1	16.3	0.12	80.7	0.004	2	1.23	0.005	0.11	<0.1	1.6	0.06	<0.02	20	<0.1	<0.02	6.8	0.70	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 1 of 3 Part 3

QUALITY CONTROL REPORT

WHI11000332.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
118816	Soil	0.38	19.4	2.6	<0.05	0.8	7.69	21.9	0.04	<1	1.7	31.2	<10	<2
REP 118816	QC	0.39	19.2	2.9	<0.05	0.6	7.55	21.4	0.03	<1	1.5	31.7	<10	<2
118826	Soil	0.43	15.4	2.2	<0.05	0.1	4.11	17.9	0.03	2	0.6	19.3	<10	<2
REP 118826	QC	0.42	14.8	3.4	<0.05	0.1	4.08	18.0	<0.02	<1	0.4	18.6	<10	<2
118951	Soil	0.16	8.7	0.7	<0.05	1.6	12.68	38.9	<0.02	<1	1.1	24.3	<10	<2
REP 118951	QC	0.17	9.7	0.7	<0.05	1.4	13.70	40.7	0.03	<1	1.3	25.6	12	<2
118965	Soil	0.02	8.1	2.0	<0.05	0.3	8.52	13.8	0.05	<1	1.7	3.6	10	<2
REP 118965	QC	0.04	8.1	1.0	<0.05	0.7	8.48	13.8	0.05	2	1.8	3.6	<10	<2
118979	Soil	0.39	13.6	0.9	<0.05	1.3	2.53	12.9	0.03	<1	0.7	24.6	<10	<2
REP 118979	QC	0.38	14.2	0.9	<0.05	1.3	2.59	13.3	0.02	<1	1.0	24.6	<10	<2
119283	Soil	0.17	8.1	0.8	<0.05	2.3	15.54	47.8	0.03	<1	1.1	15.3	<10	<2
REP 119283	QC	0.17	7.6	0.7	<0.05	2.6	15.30	46.6	0.03	1	1.0	14.7	<10	2
119299	Soil	0.39	6.5	0.6	<0.05	2.7	36.74	52.9	0.04	1	0.7	9.2	<10	2
REP 119299	QC	0.39	7.1	0.5	<0.05	2.6	39.43	53.6	0.04	<1	1.2	10.5	<10	4
119317	Soil	0.53	12.0	0.7	<0.05	1.9	8.01	29.9	0.04	<1	1.1	18.1	12	<2
REP 119317	QC	0.53	11.2	0.7	<0.05	1.9	8.03	28.5	0.04	<1	1.1	18.7	12	<2
119330	Soil	0.33	13.5	1.1	<0.05	0.3	3.11	11.0	0.04	2	0.4	12.3	<10	<2
REP 119330	QC	0.33	13.8	1.0	<0.05	0.3	3.22	11.0	0.03	<1	0.7	12.9	<10	<2
120074	Soil	0.21	20.0	1.9	<0.05	1.3	10.15	23.4	0.04	<1	1.8	33.4	<10	<2
REP 120074	QC	0.19	19.4	2.0	<0.05	1.2	9.90	23.3	0.03	<1	2.0	32.0	<10	<2
121512	Soil	0.45	23.6	3.3	<0.05	1.4	10.56	15.8	0.04	1	0.9	48.5	<10	<2
REP 121512	QC	0.44	22.9	2.9	<0.05	1.4	10.33	15.5	0.03	<1	1.0	44.7	<10	<2
121624	Soil	0.16	12.0	1.4	<0.05	1.9	20.72	25.3	0.05	<1	1.1	13.1	<10	<2
REP 121624	QC	0.15	11.1	1.4	<0.05	1.6	19.81	24.0	0.04	<1	1.4	12.2	11	<2
121721	Soil	0.29	17.8	3.4	<0.05	0.8	1.96	12.4	<0.02	<1	0.4	8.0	<10	<2
REP 121721	QC	0.31	18.8	3.5	<0.05	0.8	2.04	14.5	<0.02	<1	0.4	8.5	<10	<2
121729	Soil	0.51	12.0	1.0	<0.05	0.3	1.12	10.0	0.03	<1	0.3	6.0	<10	<2
REP 121729	QC	0.53	12.2	1.0	<0.05	0.3	1.15	10.1	<0.02	<1	0.2	6.2	<10	<2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000332.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
121735	Soil	0.40	33.35	15.76	100.2	103	24.7	9.8	368	2.80	3.1	4.1	1.1	2.3	91.5	0.16	0.22	0.36	17	1.38	0.042
REP 121735	QC	0.42	33.97	16.08	106.4	105	25.1	10.2	376	2.82	3.6	4.2	1.0	2.4	96.1	0.19	0.21	0.35	18	1.42	0.043
121759	Soil	0.86	29.34	20.50	128.9	139	22.6	10.7	472	2.90	45.4	2.1	2.1	1.6	78.4	0.55	0.84	0.31	17	1.09	0.104
REP 121759	QC	0.91	30.58	21.40	137.8	141	23.9	11.2	500	3.03	47.8	2.2	2.3	1.7	83.3	0.62	0.90	0.32	18	1.14	0.111
Reference Materials																					
STD DS8	Standard	12.07	104.9	126.9	303.3	1785	36.9	7.0	629	2.39	24.2	2.7	115.7	6.1	67.9	2.13	5.84	6.54	39	0.67	0.077
STD DS8	Standard	13.45	108.9	131.4	322.9	1750	38.6	7.2	640	2.48	24.8	2.7	110.6	6.7	72.9	2.27	5.93	6.93	39	0.71	0.081
STD DS8	Standard	12.46	114.7	117.4	315.7	1683	37.4	7.6	590	2.43	26.3	2.6	98.9	6.4	63.8	2.48	5.65	6.52	40	0.69	0.083
STD DS8	Standard	12.92	111.3	116.3	304.5	1700	37.2	7.2	604	2.43	25.2	2.7	106.0	6.4	64.9	2.79	5.52	6.43	40	0.70	0.082
STD DS8	Standard	12.62	109.7	120.0	306.7	1645	36.3	7.5	606	2.45	26.3	2.8	110.3	6.7	63.8	2.58	5.92	6.50	41	0.71	0.085
STD DS8	Standard	13.11	113.1	120.9	313.5	1698	37.7	7.6	610	2.48	26.0	2.8	95.3	6.4	68.3	2.55	5.80	6.76	42	0.73	0.085
STD DS8	Standard	12.31	104.7	112.0	297.6	1564	34.4	6.9	579	2.31	24.3	2.8	95.4	6.0	63.3	2.41	5.66	6.18	38	0.69	0.079
STD DS8	Standard	12.28	104.5	116.0	294.6	1622	35.1	6.9	576	2.30	24.1	2.7	100.2	6.6	64.0	2.46	5.70	6.30	38	0.68	0.081
STD DS8	Standard	12.49	111.1	121.4	322.9	1725	37.5	7.4	601	2.44	26.0	2.7	101.9	6.5	63.6	2.52	6.06	6.68	39	0.67	0.083
STD DS8	Standard	12.79	110.4	121.6	312.8	1743	37.1	7.3	597	2.41	25.4	2.9	106.0	6.9	67.3	2.59	5.96	6.96	39	0.69	0.080
STD DS8	Standard	12.90	110.8	123.6	308.3	1762	39.3	8.0	613	2.42	24.4	3.0	102.2	7.4	62.8	2.35	5.75	6.81	41	0.74	0.081
STD DS8	Standard	13.10	108.6	122.2	310.9	1660	37.7	7.9	596	2.35	24.9	3.0	101.4	7.6	62.5	2.37	5.56	6.55	40	0.73	0.081
STD DS8	Standard	12.98	102.2	114.1	296.9	1653	35.5	7.3	569	2.34	24.3	2.6	99.0	6.2	57.8	2.19	5.19	5.67	39	0.69	0.075
STD DS8	Standard	13.10	99.70	116.0	294.3	1621	35.7	7.6	577	2.34	24.2	2.6	92.6	6.4	58.0	2.22	5.25	5.67	39	0.69	0.076
STD DS8	Standard	12.71	105.0	119.5	307.4	1715	37.9	7.4	584	2.40	24.8	2.6	112.1	6.2	60.8	2.27	5.18	6.15	39	0.68	0.080
STD DS8	Standard	13.06	110.0	118.5	312.2	1800	38.8	7.8	621	2.48	25.5	2.7	109.0	6.5	61.1	2.32	5.20	6.36	40	0.70	0.085
STD DS8	Standard	12.90	110.7	128.9	309.4	1707	39.9	7.8	595	2.38	24.3	2.7	104.9	6.6	65.2	2.32	5.47	6.89	40	0.69	0.078
STD DS8	Standard	12.10	101.6	119.2	287.2	1602	35.2	7.1	570	2.22	23.0	2.7	100.9	6.4	65.2	2.13	5.53	6.36	38	0.65	0.073
STD DS8	Standard	13.23	113.3	127.9	327.0	1780	37.6	7.7	586	2.36	24.1	3.0	123.7	7.5	63.8	2.53	5.62	7.15	42	0.67	0.077
STD DS8	Standard	13.38	109.9	135.5	319.7	1849	37.4	7.6	602	2.42	25.0	3.2	132.4	7.9	70.4	2.50	5.98	7.41	43	0.70	0.079
STD DS8	Standard	13.69	113.9	120.0	296.3	1605	38.6	7.8	592	2.38	24.3	2.7	106.6	6.8	52.4	2.11	4.32	5.78	40	0.71	0.075
STD DS8	Standard	13.54	113.9	111.6	289.9	1557	39.0	7.6	596	2.42	22.1	2.4	106.4	6.2	54.9	2.00	4.36	5.38	41	0.74	0.075
STD DS8	Standard	13.29	110.8	122.9	308.6	1790	37.4	7.5	632	2.33	23.1	2.7	106.1	6.7	64.1	2.19	5.07	6.12	40	0.73	0.078
STD DS8	Standard	12.60	111.1	129.4	310.5	1778	36.2	7.6	601	2.38	22.1	3.5	104.1	6.8	56.4	2.13	4.68	5.94	42	0.74	0.072



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000332.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
121735	Soil	4.8	22.8	0.45	278.5	0.001	1	1.81	0.007	0.12	<0.1	3.6	0.06	0.05	56	0.8	<0.02	5.1	1.10	<0.1	0.09
REP 121735	QC	5.2	24.4	0.46	290.2	0.001	1	1.84	0.007	0.13	<0.1	3.8	0.06	0.06	39	0.7	0.03	5.3	1.14	<0.1	0.10
121759	Soil	12.1	14.6	0.31	96.7	0.002	2	0.77	0.003	0.08	<0.1	4.3	0.11	0.07	1086	1.0	0.08	2.1	1.82	<0.1	0.05
REP 121759	QC	13.0	15.8	0.33	105.1	0.003	1	0.80	0.003	0.08	<0.1	4.6	0.12	0.08	849	1.1	0.04	2.2	1.94	<0.1	0.05
Reference Materials																					
STD DS8	Standard	13.9	114.6	0.57	256.2	0.113	3	0.90	0.095	0.41	3.1	2.1	5.39	0.15	214	5.4	4.60	4.6	2.31	<0.1	0.07
STD DS8	Standard	15.3	123.0	0.61	288.4	0.122	3	0.95	0.105	0.43	3.2	2.4	5.46	0.16	218	5.4	4.90	4.9	2.38	0.1	0.08
STD DS8	Standard	14.2	108.8	0.59	254.3	0.105	2	0.90	0.088	0.41	2.7	2.2	4.95	0.15	210	4.9	4.69	4.4	2.37	<0.1	0.08
STD DS8	Standard	15.4	109.9	0.60	264.8	0.119	1	0.94	0.100	0.42	2.6	2.3	4.95	0.15	190	5.3	4.53	4.5	2.37	<0.1	0.08
STD DS8	Standard	15.5	113.4	0.60	274.5	0.122	4	0.92	0.091	0.41	2.7	2.3	5.16	0.16	181	5.0	4.65	4.6	2.41	0.1	0.06
STD DS8	Standard	15.0	114.7	0.61	270.8	0.123	2	0.96	0.103	0.43	2.8	2.3	5.21	0.16	186	5.1	4.46	4.8	2.43	<0.1	0.08
STD DS8	Standard	14.9	105.1	0.57	256.9	0.118	1	0.93	0.099	0.41	2.7	2.1	4.91	0.15	169	5.1	4.56	4.5	2.31	0.1	0.06
STD DS8	Standard	15.0	105.9	0.56	263.3	0.119	2	0.91	0.098	0.40	2.7	2.1	4.95	0.14	181	5.2	4.60	4.5	2.33	<0.1	0.07
STD DS8	Standard	13.7	110.4	0.61	270.3	0.114	3	0.93	0.095	0.43	2.9	2.1	5.23	0.15	185	5.2	4.98	4.5	2.49	0.1	0.06
STD DS8	Standard	15.7	113.6	0.61	283.3	0.124	3	0.97	0.097	0.43	3.0	2.3	5.15	0.15	183	5.3	5.20	4.6	2.54	<0.1	0.07
STD DS8	Standard	17.5	120.2	0.60	283.1	0.125	3	1.00	0.117	0.44	3.4	2.4	5.22	0.15	195	5.1	4.95	4.6	2.51	0.1	0.08
STD DS8	Standard	17.3	114.0	0.59	265.9	0.124	3	0.98	0.114	0.43	3.1	2.3	5.13	0.15	198	5.1	4.84	4.6	2.39	<0.1	0.08
STD DS8	Standard	14.9	116.8	0.58	260.8	0.111	1	0.92	0.091	0.41	2.7	2.2	4.94	0.14	211	5.1	4.55	4.5	2.40	<0.1	0.08
STD DS8	Standard	14.9	110.3	0.58	268.6	0.110	<1	0.92	0.097	0.41	2.6	2.3	4.93	0.14	189	4.7	4.57	4.4	2.38	0.1	0.08
STD DS8	Standard	13.9	114.7	0.58	252.3	0.106	3	0.88	0.087	0.41	2.7	2.2	5.30	0.16	177	4.9	4.77	4.5	2.44	<0.1	0.06
STD DS8	Standard	13.5	120.7	0.60	248.5	0.107	4	0.90	0.089	0.42	2.9	2.2	5.24	0.16	191	5.3	4.93	4.6	2.50	<0.1	0.05
STD DS8	Standard	14.5	116.3	0.57	258.3	0.109	2	0.93	0.106	0.43	2.5	2.3	5.10	0.16	204	5.2	4.86	4.4	2.34	<0.1	0.07
STD DS8	Standard	15.0	107.4	0.55	258.4	0.111	2	0.89	0.092	0.40	2.7	2.1	4.79	0.15	183	4.7	4.14	4.1	2.24	<0.1	0.07
STD DS8	Standard	15.8	117.2	0.58	260.8	0.121	3	0.89	0.089	0.41	3.0	2.2	5.72	0.15	218	5.3	5.10	4.5	2.58	<0.1	0.08
STD DS8	Standard	17.7	118.2	0.60	283.7	0.128	3	0.92	0.088	0.41	3.1	2.3	5.81	0.15	194	5.1	5.20	4.7	2.63	<0.1	0.07
STD DS8	Standard	14.7	122.9	0.60	235.7	0.103	2	0.95	0.105	0.43	2.6	2.1	4.93	0.15	181	4.8	4.33	4.1	2.15	0.1	0.08
STD DS8	Standard	15.7	125.6	0.61	246.7	0.115	2	1.00	0.114	0.44	2.5	2.6	4.78	0.15	183	4.4	4.52	4.4	2.13	0.1	0.09
STD DS8	Standard	15.6	115.7	0.60	258.5	0.122	3	0.91	0.091	0.41	3.2	2.1	5.75	0.16	205	6.1	5.49	5.2	2.52	0.1	0.08
STD DS8	Standard	15.7	113.3	0.61	247.2	0.119	3	0.92	0.090	0.42	3.7	2.1	6.45	0.16	208	5.3	5.12	5.5	2.80	0.2	0.07

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 2 of 3 Part 3

QUALITY CONTROL REPORT

WHI11000332.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
121735	Soil	0.32	10.4	0.7	<0.05	3.3	6.49	9.0	0.03	<1	1.3	34.8	10	<2
REP 121735	QC	0.32	10.9	0.7	<0.05	3.5	6.81	9.6	0.03	<1	1.4	38.2	<10	<2
121759	Soil	0.20	11.4	0.5	<0.05	1.6	15.17	27.1	0.04	1	0.9	11.6	12	<2
REP 121759	QC	0.20	12.1	0.6	<0.05	1.7	16.12	29.2	0.04	<1	0.8	12.5	<10	<2
Reference Materials														
STD DS8	Standard	1.15	36.7	6.7	<0.05	1.8	5.61	25.9	2.08	64	6.2	26.6	127	330
STD DS8	Standard	1.40	36.5	6.9	<0.05	2.2	6.30	28.4	2.10	49	5.2	26.5	120	347
STD DS8	Standard	1.13	40.3	7.0	<0.05	2.0	5.66	24.3	2.24	51	4.6	25.9	117	318
STD DS8	Standard	1.23	39.1	7.1	<0.05	2.0	6.12	26.9	2.19	53	4.7	26.1	113	326
STD DS8	Standard	1.23	39.9	7.2	<0.05	1.8	6.14	26.8	2.33	51	5.1	25.6	111	326
STD DS8	Standard	1.18	41.0	7.1	<0.05	1.9	6.08	26.2	2.29	52	5.1	25.3	117	339
STD DS8	Standard	1.26	37.2	6.8	<0.05	1.7	5.92	25.4	2.17	48	4.9	25.2	101	310
STD DS8	Standard	1.28	37.4	6.8	<0.05	2.0	6.08	25.7	2.17	42	4.9	24.4	99	313
STD DS8	Standard	1.12	40.1	7.4	<0.05	1.8	5.63	24.4	2.33	52	5.9	27.1	120	340
STD DS8	Standard	1.23	40.3	7.3	<0.05	1.9	6.18	27.7	2.36	59	5.8	26.3	117	324
STD DS8	Standard	1.67	38.7	7.0	<0.05	2.1	6.33	29.7	2.19	61	5.3	26.8	120	333
STD DS8	Standard	1.57	38.8	6.6	<0.05	2.2	6.46	29.8	2.19	52	5.4	25.9	116	331
STD DS8	Standard	1.26	35.6	6.1	<0.05	1.8	5.72	27.5	2.04	47	5.5	24.2	111	310
STD DS8	Standard	1.28	36.4	6.1	<0.05	1.8	5.96	27.5	1.98	53	3.6	24.8	105	322
STD DS8	Standard	1.14	37.1	6.5	<0.05	1.6	5.53	25.9	2.14	54	5.2	24.8	100	328
STD DS8	Standard	1.14	38.3	6.4	<0.05	1.8	5.38	25.7	2.18	54	5.2	26.2	116	328
STD DS8	Standard	1.11	37.7	6.5	<0.05	1.9	5.47	24.4	2.12	56	4.8	27.2	104	353
STD DS8	Standard	1.21	35.1	6.3	<0.05	1.7	5.78	26.0	2.03	49	5.0	25.3	112	314
STD DS8	Standard	1.15	37.8	7.2	<0.05	1.7	6.02	26.5	2.46	63	5.1	24.7	116	363
STD DS8	Standard	1.23	37.7	7.5	<0.05	1.9	6.35	29.2	2.46	68	6.0	25.3	112	347
STD DS8	Standard	1.34	34.0	6.3	<0.05	2.0	5.43	25.3	1.93	47	5.0	25.0	111	315
STD DS8	Standard	1.22	33.5	6.1	<0.05	2.0	5.80	28.0	1.97	49	4.3	25.9	118	292
STD DS8	Standard	1.47	40.4	6.6	<0.05	2.0	6.55	29.7	2.26	64	5.7	25.5	116	329
STD DS8	Standard	1.32	41.2	5.8	<0.05	2.1	6.41	28.9	2.57	70	6.5	24.0	116	352



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: July 15, 2011

Page: 3 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000332.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
STD DS8	Standard	13.39	110.1	133.1	316.3	1695	38.7	7.6	560	2.42	23.2	2.9	109.2	7.2	58.9	2.08	4.57	6.40	39	0.71	0.078
STD DS8	Standard	12.33	105.0	106.4	295.2	1563	35.7	7.1	582	2.39	23.9	2.3	97.5	5.9	57.9	2.16	4.45	5.79	36	0.66	0.082
STD DS8	Standard	12.23	106.0	102.6	297.5	1590	35.9	7.0	609	2.39	23.4	2.3	102.1	5.8	57.9	2.05	4.65	5.53	37	0.66	0.085
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 15, 2011

Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000332.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
STD DS8	Standard	15.0	119.3	0.61	256.4	0.111	<1	0.92	0.086	0.41	3.1	2.0	5.40	0.15	194	4.6	4.75	4.1	2.36	0.1	0.11
STD DS8	Standard	13.8	107.2	0.58	255.5	0.096	3	0.91	0.083	0.39	2.7	2.4	4.81	0.15	169	4.5	4.46	4.1	2.18	<0.1	0.11
STD DS8	Standard	13.7	105.8	0.59	251.0	0.095	3	0.90	0.082	0.39	2.9	2.2	4.81	0.15	175	4.7	4.90	4.4	2.24	<0.1	0.10
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: July 15, 2011

Page: 3 of 3 Part 3

QUALITY CONTROL REPORT

WHI11000332.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
STD DS8	Standard	1.20	35.9	6.1	<0.05	1.9	5.42	27.0	2.09	52	5.0	25.7	130	349
STD DS8	Standard	1.23	34.1	6.2	<0.05	2.1	5.10	25.5	2.01	53	5.1	26.1	103	305
STD DS8	Standard	1.27	34.8	6.1	<0.05	2.0	5.20	25.6	1.93	60	5.0	27.4	113	305
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: June 28, 2011
Report Date: July 30, 2011
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI11000352.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-08
P.O. Number
Number of Samples: 38

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: database backup
Simon Ridgway
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
S150	38	Sieve to 150 mesh			VAN
RJSV	38	Saving all or part of Soil Reject			VAN
3B01+3B04	38	lead collection fire assay - ICP-ES finish	50	Completed	VAN
1F03	38	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 30, 2011

Page: 2 of 3 Part 1

CERTIFICATE OF ANALYSIS

WHI11000352.1

Method	WGHT	3B-50	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
119212	Silt	3.17	3	0.52	34.52	22.29	88.5	83	30.7	13.1	488	3.18	10.1	1.5	2.1	4.7	92.0	0.14	0.33	0.30	20
119213	Silt	2.81	<2	0.55	36.61	22.75	89.3	59	31.8	13.8	565	3.42	11.0	1.6	1.3	5.4	120.5	0.16	0.29	0.33	21
119214	Silt	3.30	2	0.49	32.15	22.52	92.3	73	29.5	13.2	519	3.08	10.2	1.6	1.0	5.1	107.6	0.12	0.31	0.31	20
119215	Silt	3.72	<2	0.48	31.89	22.72	78.3	79	28.1	11.8	479	2.88	10.0	1.5	2.0	4.6	84.9	0.16	0.34	0.29	18
119216	Silt	2.95	3	0.49	40.28	23.87	88.5	84	30.1	13.7	914	3.01	7.2	1.5	1.9	3.8	78.5	0.17	0.33	0.33	25
119217	Silt	3.51	2	0.48	32.25	21.06	84.3	73	28.7	12.4	510	2.99	9.9	1.4	0.9	4.7	93.3	0.15	0.31	0.29	20
119218	Silt	3.35	2	0.47	30.37	22.27	79.9	61	26.9	11.8	462	2.91	9.5	1.4	0.9	4.8	100.6	0.12	0.29	0.29	19
119219	Silt	4.47	<2	0.47	32.12	21.34	82.2	71	28.4	12.5	520	3.01	9.7	1.5	0.2	5.0	97.6	0.16	0.29	0.30	20
119220	Silt	3.68	2	0.44	32.87	23.69	85.4	64	29.9	13.4	548	3.14	9.9	1.4	1.3	5.0	92.7	0.15	0.29	0.32	21
119221	Silt	3.26	<2	0.41	32.43	23.69	82.6	58	30.1	13.9	528	3.17	9.6	1.1	1.2	4.9	125.2	0.13	0.27	0.31	21
119222	Silt	3.01	<2	0.37	30.47	21.09	82.5	63	29.2	13.8	606	3.04	8.3	1.1	0.6	4.6	95.4	0.11	0.24	0.30	20
119259	Silt	2.59	<2	0.35	30.29	22.12	88.3	46	30.6	15.4	592	3.31	7.4	0.9	<0.2	4.7	94.7	0.10	0.21	0.33	24
119260	Silt	2.62	3	0.37	31.72	24.68	92.2	48	32.2	15.8	609	3.48	8.3	0.9	0.8	4.8	99.8	0.08	0.23	0.34	25
119261	Silt	3.43	<2	0.39	29.08	24.13	105.2	53	34.7	17.0	618	3.36	7.6	0.9	0.7	4.3	81.9	0.11	0.22	0.32	23
119262	Silt	3.38	<2	0.39	32.06	23.41	89.0	52	31.9	15.9	644	3.43	8.5	0.9	0.7	4.8	98.6	0.07	0.22	0.37	25
119263	Silt	2.91	<2	0.35	32.17	24.94	88.1	54	31.3	16.0	641	3.35	8.0	0.9	0.4	4.8	97.4	0.09	0.22	0.34	24
119264	Silt	2.70	<2	0.39	31.74	24.68	85.0	49	32.2	16.3	659	3.39	8.3	0.9	0.6	4.6	91.9	0.12	0.23	0.33	24
119265	Silt	2.87	<2	0.38	33.97	26.51	91.8	49	32.4	17.2	692	3.52	8.8	1.0	0.5	5.1	100.3	0.11	0.24	0.36	25
119266	Silt	3.47	2	0.39	32.53	27.86	85.5	53	31.3	16.3	647	3.35	8.7	1.0	0.8	4.7	103.6	0.07	0.24	0.32	24
119267	Silt	2.49	<2	0.43	32.40	24.96	88.1	63	31.2	15.6	660	3.32	9.1	1.1	0.8	4.7	106.2	0.10	0.25	0.33	24
120004	Silt	1.72	<2	0.33	22.47	27.15	83.6	107	26.1	10.6	476	2.57	7.8	0.8	0.5	4.4	169.7	0.14	0.36	0.30	11
120005	Silt	2.47	<2	0.30	20.28	24.82	78.5	96	24.0	9.7	421	2.44	7.3	0.8	0.6	3.7	151.1	0.12	0.35	0.27	11
120006	Silt	1.97	<2	0.30	21.01	24.81	81.0	92	25.6	10.5	453	2.54	7.4	0.9	0.3	4.2	176.2	0.11	0.37	0.28	12
120007	Silt	2.14	<2	0.31	20.68	25.19	77.1	92	22.5	9.3	416	2.44	7.2	0.8	0.6	3.9	169.4	0.10	0.37	0.27	12
120008	Silt	1.68	<2	0.31	22.10	25.06	82.3	101	24.5	10.2	473	2.49	7.4	0.9	0.4	4.1	182.4	0.16	0.37	0.29	12
120009	Silt	1.96	<2	0.31	22.19	24.39	89.6	102	24.5	10.3	407	2.54	7.9	0.9	1.1	3.9	97.8	0.14	0.38	0.28	13
120010	Silt	1.63	<2	0.34	22.71	21.57	72.1	80	20.8	9.4	680	2.37	7.5	1.0	1.4	2.2	85.9	0.17	0.44	0.22	16
120502	Silt	2.86	<2	0.30	27.75	27.49	94.2	63	28.1	14.8	470	3.42	8.6	0.5	1.8	3.8	74.4	0.12	0.46	0.38	26
120503	Silt	2.98	2	0.49	32.36	18.39	78.8	99	26.6	11.6	388	2.51	14.5	1.3	1.5	3.9	169.3	0.22	1.12	0.26	20
120504	Silt	4.64	3	0.36	36.38	21.37	86.1	64	31.5	15.7	605	3.29	15.7	0.9	1.1	4.3	68.3	0.11	0.81	0.30	17



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 2 of 3 Part 2

CERTIFICATE OF ANALYSIS

WHI11000352.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	
119212	Silt	1.95	0.061	9.9	22.9	1.09	86.3	0.003	12	1.16	0.004	0.09	<0.1	3.4	0.09	0.07	50	0.8	0.09	3.5
119213	Silt	2.51	0.056	9.5	24.4	1.18	105.6	0.003	10	1.28	0.005	0.11	<0.1	3.3	0.08	0.06	60	0.6	0.07	4.0
119214	Silt	2.71	0.056	9.6	21.9	1.31	88.3	0.003	12	1.15	0.004	0.09	<0.1	3.1	0.08	0.07	53	0.6	0.05	3.5
119215	Silt	2.63	0.064	9.7	20.1	1.43	78.4	0.003	11	1.07	0.004	0.10	<0.1	3.2	0.11	0.07	63	0.6	0.06	3.1
119216	Silt	1.89	0.061	8.5	25.0	1.14	190.6	0.004	14	1.28	0.007	0.11	<0.1	3.7	0.11	0.08	54	0.9	0.07	4.0
119217	Silt	2.59	0.059	9.8	22.2	1.38	96.7	0.003	6	1.16	0.004	0.10	<0.1	3.4	0.09	0.06	59	0.6	0.05	3.5
119218	Silt	2.99	0.056	9.0	21.1	1.46	99.0	0.003	11	1.10	0.004	0.10	<0.1	3.0	0.09	0.06	54	0.6	0.04	3.3
119219	Silt	2.67	0.056	9.4	21.8	1.35	89.1	0.003	6	1.15	0.004	0.10	<0.1	3.1	0.08	0.06	61	0.9	0.07	3.3
119220	Silt	2.58	0.055	9.9	23.5	1.38	90.3	0.003	5	1.23	0.005	0.10	<0.1	3.3	0.09	0.06	55	0.4	0.05	3.8
119221	Silt	3.10	0.043	8.0	23.1	1.32	111.9	0.003	12	1.30	0.005	0.10	<0.1	3.3	0.08	0.05	39	0.4	0.07	4.0
119222	Silt	2.64	0.050	8.1	23.3	1.33	95.7	0.003	11	1.22	0.004	0.09	<0.1	3.2	0.07	0.06	48	0.4	0.05	3.8
119259	Silt	2.42	0.034	6.9	25.5	1.17	107.8	0.004	4	1.36	0.005	0.10	<0.1	3.3	0.06	0.05	41	0.3	0.03	4.5
119260	Silt	2.44	0.037	7.7	26.1	1.20	120.3	0.004	14	1.44	0.006	0.11	<0.1	3.7	0.07	0.05	32	0.2	0.07	4.8
119261	Silt	1.92	0.038	7.0	23.6	0.99	156.2	0.004	8	1.32	0.005	0.10	<0.1	3.2	0.07	0.05	31	0.4	0.06	4.2
119262	Silt	2.43	0.036	7.9	27.2	1.21	100.9	0.004	9	1.41	0.005	0.10	<0.1	3.7	0.08	0.05	35	0.2	0.05	4.8
119263	Silt	2.43	0.036	7.7	27.0	1.22	115.1	0.004	6	1.39	0.006	0.11	<0.1	3.7	0.07	0.05	34	0.3	0.04	4.6
119264	Silt	2.33	0.037	8.0	26.5	1.20	113.9	0.004	5	1.40	0.006	0.10	<0.1	3.6	0.07	0.05	83	0.3	0.06	4.6
119265	Silt	2.44	0.036	8.0	27.9	1.25	111.0	0.003	9	1.44	0.006	0.10	<0.1	3.8	0.08	0.05	32	0.4	0.05	4.8
119266	Silt	2.54	0.039	8.2	25.8	1.23	114.7	0.003	9	1.40	0.006	0.11	<0.1	3.6	0.07	0.06	30	0.4	0.04	4.6
119267	Silt	2.55	0.044	9.3	26.3	1.22	102.5	0.003	12	1.38	0.006	0.11	<0.1	3.7	0.08	0.05	42	0.5	0.03	4.6
120004	Silt	5.81	0.037	4.7	8.9	1.59	117.9	0.001	9	0.57	0.004	0.12	<0.1	2.8	0.11	0.05	78	0.4	0.06	1.6
120005	Silt	5.35	0.039	4.5	8.5	1.36	92.2	0.001	9	0.53	0.004	0.11	<0.1	2.6	0.09	0.06	53	0.2	<0.02	1.4
120006	Silt	5.92	0.038	4.6	8.9	1.53	103.5	0.001	7	0.57	0.005	0.12	<0.1	2.8	0.10	0.05	76	0.4	0.04	1.5
120007	Silt	5.92	0.037	4.7	9.0	1.55	113.7	0.002	10	0.58	0.005	0.12	<0.1	2.6	0.10	0.05	104	0.4	0.08	1.6
120008	Silt	5.94	0.041	4.9	10.4	1.51	109.7	0.002	11	0.60	0.005	0.12	<0.1	2.8	0.09	0.05	131	0.5	0.04	1.7
120009	Silt	4.31	0.051	5.7	10.2	1.68	96.8	0.002	18	0.66	0.004	0.12	<0.1	2.8	0.10	0.04	168	0.4	0.02	1.8
120010	Silt	5.68	0.060	4.8	12.4	2.42	138.7	0.003	17	0.67	0.006	0.11	<0.1	2.4	0.09	0.06	100	1.3	0.04	2.0
120502	Silt	2.27	0.033	5.9	26.4	0.91	122.8	0.003	6	1.43	0.006	0.11	<0.1	3.5	0.06	0.11	68	0.4	0.05	4.6
120503	Silt	3.31	0.061	10.2	19.7	0.94	95.1	0.003	13	0.87	0.004	0.09	<0.1	3.4	0.07	0.04	566	1.3	0.07	2.7
120504	Silt	1.96	0.040	5.6	17.7	1.14	49.0	0.001	10	1.09	0.003	0.06	<0.1	3.0	0.06	0.09	378	0.6	0.10	3.0



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 30, 2011

Page: 3 of 3 Part 1

CERTIFICATE OF ANALYSIS

WHI11000352.1

Method	WGHT	3B-50	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
120506	Silt	3.04	<2	0.29	19.98	23.03	72.8	86	21.5	9.1	417	2.39	7.4	0.8	0.3	3.8	146.8	0.12	0.33	0.27	12
120508	Silt	2.22	<2	0.85	31.19	24.52	84.0	133	27.2	14.4	669	3.52	16.6	0.7	0.6	0.6	46.9	0.14	0.53	0.38	37
120511	Silt	3.23	<2	0.61	35.46	32.20	92.6	263	32.5	13.0	418	3.62	9.4	0.8	1.3	3.1	47.9	0.13	0.30	0.34	22
120512	Silt	2.54	2	0.47	32.97	27.30	91.3	157	30.8	13.0	412	3.58	10.5	0.7	0.7	3.3	42.1	0.16	0.33	0.34	21
120513	Silt	2.77	6	0.54	34.26	28.11	83.9	549	31.5	10.2	298	3.14	10.4	0.8	5.7	3.0	62.7	0.11	0.40	0.35	18
120514	Silt	3.42	<2	0.56	26.60	25.52	97.4	545	26.3	8.6	437	2.65	10.8	1.5	3.3	2.0	70.3	0.23	0.40	0.33	19
120515	Silt	2.87	<2	0.54	37.39	37.20	103.6	113	35.1	19.8	760	4.11	18.5	0.5	1.0	2.9	33.7	0.09	0.40	0.46	19
120516	Silt	3.36	<2	0.61	41.95	40.78	101.6	225	37.9	20.7	789	4.18	19.5	0.7	1.1	3.3	43.8	0.12	0.47	0.46	19



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: July 30, 2011

Page: 3 of 3 Part 2

CERTIFICATE OF ANALYSIS

WHI11000352.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	
120506	Silt	5.72	0.036	4.6	10.0	1.76	111.9	0.002	11	0.61	0.005	0.12	<0.1	2.7	0.09	0.04	70	0.4	0.07	1.7
120508	Silt	0.40	0.061	8.3	19.1	0.25	109.5	0.007	9	1.00	0.002	0.08	<0.1	1.8	0.13	0.03	132	0.4	0.06	4.0
120511	Silt	0.40	0.062	6.4	17.0	0.22	116.8	0.002	8	0.94	0.004	0.11	<0.1	4.4	0.14	0.05	110	0.6	0.07	2.4
120512	Silt	0.36	0.059	7.1	16.0	0.19	92.9	0.002	12	0.75	0.002	0.09	<0.1	3.8	0.08	0.03	101	0.6	0.05	2.0
120513	Silt	0.56	0.058	8.7	17.8	0.24	111.3	0.002	2	0.96	0.001	0.09	<0.1	5.2	0.14	0.04	292	0.6	0.07	2.7
120514	Silt	0.69	0.081	8.5	17.5	0.23	148.8	0.003	3	1.13	0.001	0.11	<0.1	3.8	0.13	0.06	277	0.7	0.02	2.8
120515	Silt	0.19	0.033	5.8	15.1	0.28	78.6	0.002	2	0.82	0.001	0.09	<0.1	4.1	0.09	<0.02	108	0.2	0.09	2.6
120516	Silt	0.30	0.045	7.1	15.5	0.34	98.2	0.002	3	0.90	0.002	0.09	<0.1	5.1	0.11	0.05	317	0.4	0.09	2.6



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 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 30, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

WHI11000352.1

Method	WGHT	3B-50	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
Pulp Duplicates																					
119222	Silt	3.01	<2	0.37	30.47	21.09	82.5	63	29.2	13.8	606	3.04	8.3	1.1	0.6	4.6	95.4	0.11	0.24	0.30	20
REP 119222	QC			0.42	30.70	21.88	81.9	56	28.6	14.0	588	3.00	8.3	1.1	1.2	4.6	95.0	0.11	0.24	0.29	21
119263	Silt	2.91	<2	0.35	32.17	24.94	88.1	54	31.3	16.0	641	3.35	8.0	0.9	0.4	4.8	97.4	0.09	0.22	0.34	24
REP 119263	QC		<2																		
120009	Silt	1.96	<2	0.31	22.19	24.39	89.6	102	24.5	10.3	407	2.54	7.9	0.9	1.1	3.9	97.8	0.14	0.38	0.28	13
REP 120009	QC			0.31	19.81	22.99	80.4	99	22.0	9.1	384	2.36	7.0	0.8	0.8	3.5	90.0	0.11	0.40	0.25	12
120513	Silt	2.77	6	0.54	34.26	28.11	83.9	549	31.5	10.2	298	3.14	10.4	0.8	5.7	3.0	62.7	0.11	0.40	0.35	18
REP 120513	QC			0.57	34.90	28.56	86.4	576	32.6	10.8	309	3.17	10.3	0.8	4.9	3.0	65.4	0.11	0.42	0.34	18
120516	Silt	3.36	<2	0.61	41.95	40.78	101.6	225	37.9	20.7	789	4.18	19.5	0.7	1.1	3.3	43.8	0.12	0.47	0.46	19
REP 120516	QC		<2																		
Reference Materials																					
STD DS8	Standard			12.47	108.5	117.0	290.7	1659	36.9	7.5	595	2.44	23.5	2.6	99.9	6.8	61.7	2.25	5.21	6.36	44
STD DS8	Standard			12.47	104.1	108.2	289.4	1498	36.2	7.2	586	2.28	23.4	2.6	98.0	6.5	62.4	2.31	4.99	6.18	41
STD DS8	Standard			12.46	105.7	133.6	302.0	1782	36.5	7.3	589	2.42	22.9	2.8	109.5	6.8	65.0	2.10	5.32	6.63	39
STD DS8	Standard			12.58	105.1	136.2	311.1	1784	37.0	7.4	599	2.42	23.1	2.7	113.5	6.9	67.8	2.09	5.39	6.66	39
STD OXC88	Standard		209																		
STD OXC88	Standard		205																		
STD OXC88	Standard		207																		
STD OXC88	Standard		194																		
STD DS8 Expected				13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1
STD OXC88 Expected			203																		
BLK	Blank			<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2
BLK	Blank			<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2
BLK	Blank		<2																		
BLK	Blank		<2																		
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BLK	Blank		<2																		



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Phone (604) 253-3158 Fax (604) 253-1716

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830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

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Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

WHI11000352.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	
Pulp Duplicates																				
119222	Silt	2.64	0.050	8.1	23.3	1.33	95.7	0.003	11	1.22	0.004	0.09	<0.1	3.2	0.07	0.06	48	0.4	0.05	3.8
REP 119222	QC	2.61	0.050	8.1	22.8	1.32	96.8	0.003	11	1.22	0.004	0.08	<0.1	3.3	0.07	0.06	33	0.3	0.07	3.9
119263	Silt	2.43	0.036	7.7	27.0	1.22	115.1	0.004	6	1.39	0.006	0.11	<0.1	3.7	0.07	0.05	34	0.3	0.04	4.6
REP 119263	QC																			
120009	Silt	4.31	0.051	5.7	10.2	1.68	96.8	0.002	18	0.66	0.004	0.12	<0.1	2.8	0.10	0.04	168	0.4	0.02	1.8
REP 120009	QC	3.95	0.047	5.4	10.0	1.54	93.3	0.002	9	0.62	0.004	0.11	<0.1	2.6	0.10	0.04	98	0.5	0.03	1.7
120513	Silt	0.56	0.058	8.7	17.8	0.24	111.3	0.002	2	0.96	0.001	0.09	<0.1	5.2	0.14	0.04	292	0.6	0.07	2.7
REP 120513	QC	0.57	0.060	8.9	18.1	0.24	112.0	0.002	3	0.98	0.001	0.10	<0.1	4.8	0.14	0.05	299	0.7	<0.02	2.6
120516	Silt	0.30	0.045	7.1	15.5	0.34	98.2	0.002	3	0.90	0.002	0.09	<0.1	5.1	0.11	0.05	317	0.4	0.09	2.6
REP 120516	QC																			
Reference Materials																				
STD DS8	Standard	0.70	0.076	14.5	113.1	0.60	273.3	0.108	9	0.92	0.096	0.41	2.9	1.9	5.19	0.16	178	5.1	5.08	4.5
STD DS8	Standard	0.67	0.074	14.9	111.2	0.56	264.4	0.107	10	0.91	0.103	0.40	2.8	2.0	4.75	0.15	175	4.8	4.86	4.4
STD DS8	Standard	0.68	0.075	13.6	112.6	0.60	254.2	0.103	2	0.88	0.081	0.40	2.8	1.9	5.35	0.16	181	5.3	5.36	4.3
STD DS8	Standard	0.68	0.075	14.4	116.3	0.60	268.7	0.108	3	0.90	0.083	0.40	3.1	2.0	5.52	0.15	201	5.3	4.77	4.7
STD OXC88	Standard																			
STD OXC88	Standard																			
STD OXC88	Standard																			
STD OXC88	Standard																			
STD DS8 Expected		0.7	0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7
STD OXC88 Expected																				
BLK	Blank	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank																			
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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: June 28, 2011
Report Date: August 16, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI11000353.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-09
P.O. Number
Number of Samples: 13

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: Scott Turton
Simon Ridgway
database backup

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	13	Dry at 60C			VAN
SS80	13	Dry at 60C sieve 100g to -80 mesh			VAN
RJSV	13	Saving all or part of Soil Reject			VAN
5L	13	BLEG leach CN, Au, Ag, Cu, Pb and Zn	1000	Completed	SAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: Radius Gold Inc.
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: August 16, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

WHI11000353.1

	Method	5L				
		Au_bleg	Ag_bleg	Cu_bleg	Pb_bleg	Zn_bleg
Analyte	Unit	ppb	ppb	ppm	ppm	ppm
MDL		0.1	0.1	0.01	0.01	0.01
120501	Silt	0.8	36.7	8.86	0.58	1.24
120505	Silt	0.3	57.4	2.54	0.60	0.21
120507	Silt	0.2	105.8	5.50	0.68	3.56
118674	Silt	<0.1	55.9	2.84	0.39	2.40
118672	Silt	0.7	24.2	3.22	0.46	2.81
120509	Silt	2.3	73.5	2.84	0.24	1.65
120011	Silt	7.3	32.2	6.62	0.32	7.85
120013	Silt	1.6	58.8	3.95	0.35	3.35
120014	Silt	2.7	47.3	8.06	<0.01	13.42
120015	Silt	2.4	108.4	12.76	0.39	5.09
120012	Silt	6.5	57.7	10.50	0.21	11.31
120016	Silt	<0.1	116.1	14.33	0.79	6.48
118675	Silt	2.0	41.6	2.01	0.44	1.93



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Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: August 16, 2011

Page: 1 of 1 **Part** 1

QUALITY CONTROL REPORT

WHI11000353.1

Method		5L	5L	5L	5L	5L
Analyte		Au_bleg	Ag_bleg	Cu_bleg	Pb_bleg	Zn_bleg
Unit		ppb	ppb	ppm	ppm	ppm
MDL		0.1	0.1	0.01	0.01	0.01
Pulp Duplicates						
120014	Silt	2.7	47.3	8.06	<0.01	13.42
REP 120014	QC	2.4	49.0	8.64	<0.01	14.16
STANDARD	Standard	54.0	167.4	0.20	0.36	<0.01
Reference Materials						
STANDARD Expected		50.3	153.9			
BLK	Blank	<0.1	<0.1	0.02	0.01	<0.01



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Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: July 01, 2011
Report Date: July 20, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI11000383.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-10
P.O. Number: NA-10330
Number of Samples: 30

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include R200-250, 3B01, and 1DX1.

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

ADDITIONAL COMMENTS

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830 - 355 Burrard St.
Vancouver BC V6C 2G8
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CC: Simon Ridgway
database backup
Scott Turton



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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 20, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

WHI11000383.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
120107	Rock	1.85	<2	<0.1	4.2	3.4	34	<0.1	14.8	4.0	370	3.23	1.4	<0.5	1.8	1955	<0.1	<0.1	<0.1	19	7.81
120108	Rock	2.16	<2	<0.1	10.7	16.6	70	<0.1	18.5	13.2	2603	3.03	1.1	1.9	3.1	241	<0.1	<0.1	0.1	23	6.82
120109	Rock	2.60	<2	<0.1	0.4	1.3	1	<0.1	0.6	0.1	265	0.23	4.8	1.2	<0.1	33	<0.1	0.1	<0.1	<2	15.45
120110	Rock	1.28	<2	0.2	3.6	2.5	19	<0.1	3.6	3.3	218	0.98	1.1	1.3	1.3	16	<0.1	<0.1	<0.1	2	0.22
120111	Rock	2.20	<2	1.0	18.0	62.1	30	<0.1	6.4	6.7	5092	1.51	6.8	0.7	1.6	25	<0.1	0.1	<0.1	5	0.15
120112	Rock	1.79	4	0.1	8.3	14.7	49	0.1	6.7	2.1	369	0.95	14.0	2.0	2.6	499	0.1	0.4	<0.1	3	16.86
120113	Rock	1.70	<2	0.2	2.9	1.8	17	<0.1	9.3	3.3	667	1.07	1.5	<0.5	0.3	357	<0.1	<0.1	<0.1	<2	3.51
120114	Rock	2.09	4	<0.1	1.5	11.1	142	<0.1	1.5	0.6	1061	1.00	190.6	3.0	0.1	96	0.6	9.5	<0.1	<2	19.20
120115	Rock	2.45	292	0.1	16.8	8.3	13	<0.1	10.3	6.0	300	3.51	280.5	197.3	1.4	164	<0.1	0.5	0.4	7	7.36
120116	Rock Pulp	0.14	1339	1277	>10000	8296	9055	82.7	253.2	28.9	745	5.75	433.7	826.0	2.0	180	59.1	34.1	8.3	71	1.83
121551	Rock	3.04	11	0.2	4.6	4.8	15	<0.1	10.0	3.6	766	1.85	6.0	1.7	5.8	6	<0.1	<0.1	<0.1	6	1.41
119159	Rock	2.13	<2	0.3	6.2	10.8	26	<0.1	9.6	3.2	215	1.10	13.7	2.2	3.6	9	0.2	<0.1	<0.1	2	0.03
119160	Rock	1.71	<2	0.5	5.7	6.1	15	<0.1	4.4	1.3	42	0.43	9.5	2.5	2.5	5	<0.1	<0.1	<0.1	2	0.01
119161	Rock	2.65	<2	<0.1	1.2	1.5	2	<0.1	0.9	0.7	97	0.32	4.0	1.3	0.4	2373	<0.1	<0.1	<0.1	<2	30.62
119162	Rock	2.44	5	0.4	10.5	7.4	29	<0.1	8.3	4.5	192	1.39	15.3	3.9	2.7	490	0.2	1.0	<0.1	7	10.48
119163	Rock	2.47	<2	0.2	11.0	5.7	9	<0.1	4.0	1.7	262	1.31	20.7	1.6	1.1	147	<0.1	1.0	<0.1	4	5.61
119164	Rock	1.54	<2	<0.1	2.8	2.1	8	<0.1	2.9	1.6	437	1.32	6.2	1.0	0.5	1610	<0.1	0.2	<0.1	<2	29.64
119165	Rock	1.69	<2	0.4	18.0	9.8	54	<0.1	12.7	4.2	238	1.41	30.2	0.5	4.0	325	0.2	0.3	<0.1	24	7.45
119166	Rock	1.84	<2	0.2	1.8	4.7	13	<0.1	3.6	1.6	142	0.84	4.7	1.9	1.5	233	<0.1	0.3	<0.1	3	4.05
119167	Rock	3.98	<2	0.7	12.3	12.4	45	<0.1	11.5	8.5	1559	2.16	25.6	0.7	2.0	1096	0.2	0.1	<0.1	14	22.90
119168	Rock	2.72	<2	<0.1	14.9	9.9	38	<0.1	12.6	5.5	712	1.92	4.1	<0.5	3.0	887	<0.1	<0.1	0.1	15	17.40
119169	Rock	0.52	<2	0.2	9.2	50.1	42	<0.1	8.0	2.9	791	2.52	1.5	<0.5	0.4	18	<0.1	<0.1	<0.1	10	0.28
119170	Rock	2.16	<2	<0.1	6.6	6.8	19	<0.1	5.7	3.0	578	1.70	4.9	0.7	1.2	1291	<0.1	<0.1	<0.1	4	27.47
119171	Rock	3.07	<2	0.1	4.8	7.7	11	<0.1	3.4	0.9	123	0.71	0.7	<0.5	0.1	25	<0.1	<0.1	<0.1	<2	0.19
119172	Rock	2.50	<2	0.1	0.7	0.7	7	<0.1	0.9	0.1	189	0.32	1.3	<0.5	<0.1	32	<0.1	<0.1	<0.1	<2	7.37
118754	Rock	3.49	<2	0.2	2.4	2.6	7	<0.1	2.8	0.8	160	0.67	0.6	<0.5	0.1	3	<0.1	<0.1	<0.1	<2	0.02
118755	Rock	3.38	<2	<0.1	4.5	14.9	73	<0.1	22.1	11.4	754	3.30	1.0	1.1	6.5	6	<0.1	<0.1	0.1	17	0.07
118756	Rock	2.84	<2	0.2	11.1	20.1	73	<0.1	36.5	17.6	365	4.62	1.0	<0.5	7.5	9	<0.1	<0.1	0.4	33	0.35
118757	Rock	2.27	<2	0.1	2.4	37.6	19	<0.1	6.0	3.6	3239	1.46	3.6	<0.5	2.2	175	<0.1	<0.1	<0.1	6	16.74
118758	Rock	2.80	<2	0.2	22.9	25.6	101	<0.1	25.1	13.8	331	3.70	5.4	<0.5	6.9	16	<0.1	<0.1	0.4	17	0.12



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 20, 2011

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

WHI11000383.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
120107	Rock	0.055	2	12	0.61	29	0.001	<20	1.72	0.003	0.10	<0.1	<0.01	1.4	<0.1	0.06	4	<0.5	<0.2
120108	Rock	0.014	<1	22	0.62	4726	0.008	<20	1.56	0.015	0.24	<0.1	<0.01	4.9	<0.1	0.14	4	<0.5	<0.2
120109	Rock	0.028	<1	<1	10.99	2	<0.001	<20	0.02	0.013	<0.01	<0.1	0.02	<0.1	<0.1	0.12	<1	0.5	<0.2
120110	Rock	0.114	2	13	0.02	38	0.001	<20	0.16	0.003	0.09	<0.1	<0.01	1.1	<0.1	<0.05	<1	<0.5	<0.2
120111	Rock	0.004	3	17	0.17	236	0.001	<20	0.40	0.012	0.02	<0.1	0.03	1.0	<0.1	<0.05	1	<0.5	<0.2
120112	Rock	0.036	4	3	1.99	37	<0.001	<20	0.25	0.006	0.14	<0.1	0.12	2.1	<0.1	0.13	<1	0.7	<0.2
120113	Rock	0.007	<1	10	0.04	18	<0.001	<20	0.11	0.004	0.02	<0.1	<0.01	0.8	<0.1	<0.05	<1	<0.5	<0.2
120114	Rock	0.036	1	2	9.32	55	<0.001	<20	0.05	0.010	<0.01	<0.1	2.07	0.4	0.1	0.14	<1	<0.5	<0.2
120115	Rock	0.013	2	6	0.87	55	<0.001	<20	0.29	0.003	0.20	<0.1	0.09	4.6	0.1	0.29	<1	<0.5	<0.2
120116	Rock Pulp	0.116	12	69	1.42	27	0.088	<20	1.55	0.091	0.35	12.1	2.48	5.1	2.0	3.53	6	8.0	1.5
121551	Rock	0.017	6	9	0.11	103	<0.001	<20	0.26	0.002	0.14	<0.1	0.03	2.7	<0.1	<0.05	<1	0.5	<0.2
119159	Rock	0.004	5	16	0.01	40	<0.001	<20	0.25	0.003	0.10	<0.1	0.06	1.2	<0.1	<0.05	<1	<0.5	<0.2
119160	Rock	0.003	4	8	<0.01	23	<0.001	<20	0.24	0.002	0.10	<0.1	0.02	0.3	<0.1	<0.05	<1	<0.5	<0.2
119161	Rock	0.013	4	<1	0.47	15	<0.001	<20	0.03	0.004	0.02	<0.1	<0.01	0.5	<0.1	0.20	<1	<0.5	<0.2
119162	Rock	0.043	4	5	5.05	61	<0.001	<20	0.25	0.008	0.15	<0.1	0.18	2.6	<0.1	0.15	<1	0.7	<0.2
119163	Rock	0.029	2	10	1.85	38	<0.001	<20	0.14	0.002	0.07	<0.1	1.22	1.4	<0.1	<0.05	<1	0.9	<0.2
119164	Rock	0.004	2	<1	0.41	40	<0.001	<20	0.05	0.003	0.03	<0.1	0.03	0.8	<0.1	0.19	<1	<0.5	<0.2
119165	Rock	0.039	9	30	4.41	119	0.001	<20	0.50	0.013	0.10	<0.1	0.18	3.3	<0.1	0.14	2	1.4	<0.2
119166	Rock	0.024	6	11	1.21	38	<0.001	<20	0.12	0.003	0.07	<0.1	0.12	1.4	<0.1	<0.05	<1	<0.5	<0.2
119167	Rock	0.176	6	8	1.30	31	0.002	<20	0.72	0.010	0.09	<0.1	0.10	2.5	<0.1	0.25	2	0.7	<0.2
119168	Rock	0.049	4	12	1.91	89	0.002	<20	0.94	0.013	0.17	<0.1	0.04	4.6	<0.1	0.13	2	<0.5	<0.2
119169	Rock	0.005	<1	9	0.43	24	0.001	<20	0.84	0.003	0.03	<0.1	0.03	1.1	<0.1	<0.05	3	<0.5	<0.2
119170	Rock	0.003	3	4	0.30	85	<0.001	<20	0.31	0.006	0.07	<0.1	0.01	1.3	<0.1	0.18	<1	<0.5	<0.2
119171	Rock	<0.001	<1	12	0.08	10	<0.001	<20	0.20	0.004	0.02	<0.1	0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
119172	Rock	0.059	<1	13	4.71	5	<0.001	<20	0.03	0.006	<0.01	<0.1	0.03	0.4	<0.1	0.06	<1	<0.5	<0.2
118754	Rock	<0.001	<1	19	0.03	10	<0.001	<20	0.11	0.005	0.01	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
118755	Rock	0.019	6	24	0.53	103	0.002	<20	1.64	0.016	0.13	<0.1	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
118756	Rock	0.016	2	39	0.61	195	0.020	<20	1.68	0.026	0.35	<0.1	<0.01	5.8	0.1	<0.05	5	<0.5	<0.2
118757	Rock	0.020	4	8	0.29	89	0.001	<20	0.56	0.010	0.09	<0.1	0.02	1.9	<0.1	0.12	1	<0.5	<0.2
118758	Rock	0.016	7	23	0.28	189	0.006	<20	1.76	0.011	0.40	<0.1	0.05	4.7	0.2	<0.05	5	<0.5	<0.2



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Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
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Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: July 20, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

WHI11000383.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
120112	Rock	1.79	4	0.1	8.3	14.7	49	0.1	6.7	2.1	369	0.95	14.0	2.0	2.6	499	0.1	0.4	<0.1	3	16.86
REP 120112	QC			0.2	7.9	14.0	48	0.1	6.1	2.1	368	0.94	13.9	1.8	2.5	501	0.1	0.4	<0.1	3	16.69
119168	Rock	2.72	<2	<0.1	14.9	9.9	38	<0.1	12.6	5.5	712	1.92	4.1	<0.5	3.0	887	<0.1	<0.1	0.1	15	17.40
REP 119168	QC		<2																		
Core Reject Duplicates																					
118758	Rock	2.80	<2	0.2	22.9	25.6	101	<0.1	25.1	13.8	331	3.70	5.4	<0.5	6.9	16	<0.1	<0.1	0.4	17	0.12
DUP 118758	QC	2.80	<2	0.1	23.7	26.4	98	<0.1	24.4	14.7	361	3.48	5.2	<0.5	6.6	17	<0.1	<0.1	0.4	17	0.15
Reference Materials																					
STD DS8	Standard			12.3	103.5	111.3	305	1.8	35.7	7.2	615	2.42	27.5	97.0	6.2	69	2.3	3.7	6.4	40	0.66
STD OREAS45CA	Standard			0.9	517.6	20.1	66	0.3	257.5	88.7	929	16.27	3.9	43.0	6.7	15	<0.1	<0.1	0.2	210	0.45
STD OXC88	Standard		194																		
STD OXH82	Standard		1258																		
STD OXC88 Expected			203																		
STD OXH82 Expected			1278																		
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7	
STD OREAS45CA Expected			1	494	20	60	0.275	240	92	943	15.69	3.8	43	7	15	0.1	0.13	0.19	215	0.4265	
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
Prep Wash																					
G1	Prep Blank		<2	0.2	2.1	4.4	50	<0.1	3.9	4.1	575	2.00	1.0	2.4	4.9	69	<0.1	<0.1	0.2	38	0.54
G1	Prep Blank		<2	0.2	1.8	3.0	48	<0.1	3.6	4.1	567	2.00	0.8	1.2	5.1	73	<0.1	<0.1	0.2	37	0.57



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: July 20, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

WHI11000383.1

Method		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																				
120112	Rock	0.036	4	3	1.99	37	<0.001	<20	0.25	0.006	0.14	<0.1	0.12	2.1	<0.1	0.13	<1	0.7	<0.2	
REP 120112	QC	0.036	4	3	1.99	35	<0.001	<20	0.24	0.005	0.14	<0.1	0.11	2.2	<0.1	0.13	<1	<0.5	<0.2	
119168	Rock	0.049	4	12	1.91	89	0.002	<20	0.94	0.013	0.17	<0.1	0.04	4.6	<0.1	0.13	2	<0.5	<0.2	
REP 119168	QC																			
Core Reject Duplicates																				
118758	Rock	0.016	7	23	0.28	189	0.006	<20	1.76	0.011	0.40	<0.1	0.05	4.7	0.2	<0.05	5	<0.5	<0.2	
DUP 118758	QC	0.017	7	23	0.27	192	0.006	<20	1.67	0.011	0.41	<0.1	0.04	4.7	0.2	<0.05	5	<0.5	<0.2	
Reference Materials																				
STD DS8	Standard	0.081	15	116	0.57	309	0.114	<20	0.90	0.090	0.42	2.5	0.19	2.1	5.0	0.17	4	4.8	4.8	
STD OREAS45CA	Standard	0.043	15	771	0.14	172	0.151	<20	3.78	0.009	0.08	<0.1	0.04	38.7	<0.1	<0.05	18	0.7	<0.2	
STD OXC88	Standard																			
STD OXH82	Standard																			
STD OXC88 Expected																				
STD OXH82 Expected																				
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5	
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	39.7	0.07	0.021	18.4	0.5		
BLK	Blank																			
BLK	Blank																			
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
Prep Wash																				
G1	Prep Blank	0.083	10	11	0.59	243	0.135	<20	1.06	0.099	0.51	<0.1	<0.01	2.0	0.3	<0.05	5	<0.5	<0.2	
G1	Prep Blank	0.081	10	11	0.61	243	0.131	<20	1.03	0.093	0.48	<0.1	<0.01	2.0	0.3	<0.05	5	<0.5	<0.2	



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830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: July 04, 2011
Report Date: August 13, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11000454.2

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-11
P.O. Number: NA-10337
Number of Samples: 319

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	318	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	318	Dry at 60C			WHI
1F05	318	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
7TD1	2	4-acid Digestion ICP-ES Finish	0.5	Completed	VAN
RJSV	318	Saving all or part of Soil Reject			WHI

ADDITIONAL COMMENTS

Version 2 : 7TD-Pb Zn included.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: database backup
Simon Ridgway
Scott Turton



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
118051	Soil			2.00	15.97	14.84	167.3	32	56.7	6.4	332	1.28	35.4	3.9	1.2	2.7	74.4	1.06	0.77	0.13	35	22.16	0.066
118052	Soil			1.58	8.90	10.66	73.6	28	26.3	3.5	172	0.61	9.3	2.3	1.6	1.2	85.5	0.59	0.40	0.06	16	20.73	0.051
118053	Soil			0.66	2.93	7.22	17.5	17	6.2	1.1	63	0.16	2.7	0.8	0.5	0.3	79.2	0.14	0.16	0.03	6	21.13	0.012
118054	Soil			2.80	5.48	6.05	37.5	247	12.3	1.5	78	0.36	6.2	3.3	<0.2	0.4	62.0	0.54	0.29	0.03	41	19.39	0.063
118055	Soil			2.14	8.16	10.20	39.7	24	19.8	3.9	84	0.75	10.2	3.8	<0.2	1.5	101.2	0.33	0.43	0.09	11	24.07	0.047
118056	Soil			1.47	9.61	6.26	106.8	23	38.7	4.6	238	0.65	20.3	2.7	1.1	1.4	79.9	0.74	0.47	0.06	20	22.39	0.046
118101	Soil			0.85	15.44	10.99	81.4	97	24.8	7.5	391	1.95	9.4	0.6	0.5	1.3	45.0	0.44	0.42	0.13	30	7.25	0.077
118102	Soil			1.06	14.04	15.31	97.0	138	21.7	6.4	516	1.88	12.0	0.6	<0.2	0.6	23.8	0.54	0.51	0.14	32	7.87	0.090
118103	Soil			0.49	7.32	13.25	72.9	125	17.0	3.7	453	0.77	5.8	0.3	<0.2	0.1	34.6	0.44	0.28	0.06	15	15.32	0.068
118104	Soil			0.98	11.85	10.00	94.5	59	28.2	6.2	260	1.93	7.4	0.7	0.8	1.0	94.6	0.56	0.38	0.10	23	10.15	0.088
118105	Soil			1.22	15.10	18.61	85.0	103	31.5	8.6	351	2.58	11.8	0.8	<0.2	1.6	81.3	0.24	0.42	0.12	27	8.59	0.116
118106	Soil			1.38	15.21	9.66	114.4	71	35.6	6.7	166	2.09	14.7	1.2	<0.2	1.6	101.9	0.50	0.48	0.10	28	12.02	0.143
118107	Soil			1.14	11.43	12.40	56.4	110	21.8	5.1	229	1.39	10.0	1.1	<0.2	0.2	54.7	0.26	0.46	0.10	24	14.20	0.133
118108	Soil			2.50	20.02	15.04	118.1	320	38.9	9.2	404	1.95	30.7	4.3	0.9	0.2	28.5	0.80	0.84	0.15	58	5.59	0.169
118109	Soil			1.10	14.68	14.58	65.4	96	29.2	6.7	249	1.87	8.7	0.7	<0.2	2.5	142.2	0.17	0.30	0.11	21	12.88	0.069
118110	Soil			1.02	11.79	11.55	88.7	80	21.1	6.1	416	1.92	6.6	0.6	<0.2	0.6	51.7	0.52	0.33	0.10	23	9.09	0.091
118111	Soil			1.01	8.19	5.72	55.9	52	16.3	4.2	239	1.40	6.7	0.6	<0.2	1.0	85.6	0.20	0.25	0.05	15	15.12	0.056
118112	Soil			1.37	14.42	8.74	168.4	75	41.7	4.1	353	0.80	5.6	12.8	1.6	0.7	48.2	3.37	0.40	0.07	42	15.43	0.297
118113	Soil			2.22	24.97	14.57	96.5	165	34.4	11.4	374	2.84	13.7	32.9	2.4	1.2	40.9	0.56	0.97	0.16	115	2.51	0.883
118114	Soil			2.31	14.69	9.81	88.0	161	24.7	5.3	309	1.25	11.6	8.3	2.7	0.3	51.9	0.44	0.73	0.09	44	11.00	0.329
118115	Soil			1.07	14.48	11.94	49.3	122	27.5	7.4	187	2.00	7.2	0.7	0.8	1.7	134.1	0.17	0.22	0.09	20	12.10	0.074
118116	Soil			1.24	10.18	8.32	43.9	78	18.1	5.9	275	1.99	6.7	1.3	0.7	1.6	75.7	0.20	0.25	0.08	19	10.71	0.096
118117	Soil			0.87	11.40	12.18	65.4	94	22.3	6.4	205	1.92	6.7	0.9	0.3	1.6	93.3	0.24	0.19	0.10	16	9.89	0.082
118118	Soil			1.16	8.92	7.17	65.8	61	20.0	5.1	144	1.79	4.9	0.7	<0.2	3.4	129.9	0.24	0.17	0.06	13	14.38	0.069
118119	Soil			1.08	12.41	9.86	58.8	101	23.5	7.6	297	2.26	3.9	0.6	<0.2	2.8	189.7	0.19	0.13	0.08	20	12.85	0.088
118120	Soil			2.03	18.22	16.14	110.7	106	29.4	10.5	281	2.90	4.9	0.9	0.6	1.9	53.9	0.42	0.44	0.15	33	1.38	0.065
118121	Soil			1.58	20.59	18.79	92.1	62	37.9	12.1	301	3.44	2.8	0.7	<0.2	1.8	102.2	0.11	0.17	0.16	26	2.94	0.083
118122	Soil			1.48	13.62	12.26	60.9	31	28.3	11.5	210	2.44	2.1	0.6	<0.2	3.0	552.3	0.04	0.10	0.10	19	12.49	0.052
118123	Soil			1.36	14.77	14.04	76.1	37	29.8	11.1	256	2.88	2.6	0.6	1.1	2.0	322.9	0.06	0.10	0.12	20	6.45	0.059
118201	Soil			0.80	15.22	22.20	85.3	97	34.9	13.5	975	3.86	3.1	0.7	<0.2	1.2	47.6	0.46	0.25	0.16	42	1.42	0.098



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
118051	Soil	9.9	8.6	3.68	103.3	0.007	2	0.61	0.005	0.07	<0.1	2.5	0.82	<0.02	44	0.5	<0.02	1.7	1.48	<0.1	0.15
118052	Soil	7.3	7.1	8.37	50.6	0.004	2	0.33	0.009	0.04	<0.1	1.5	0.34	<0.02	40	0.5	<0.02	0.7	0.84	<0.1	0.07
118053	Soil	4.3	3.3	9.48	16.7	0.001	2	0.08	0.009	0.02	<0.1	0.5	0.15	<0.02	16	0.3	<0.02	0.2	0.31	<0.1	0.03
118054	Soil	3.8	6.6	9.36	30.6	0.001	2	0.08	0.009	0.03	<0.1	0.5	0.23	<0.02	9	0.6	0.03	0.2	0.21	<0.1	<0.02
118055	Soil	5.0	7.1	5.15	71.9	0.002	3	0.20	0.008	0.06	<0.1	1.2	0.33	<0.02	22	0.2	0.06	0.6	0.75	<0.1	0.05
118056	Soil	7.5	5.0	7.01	60.1	0.004	2	0.33	0.007	0.04	<0.1	1.5	0.48	<0.02	34	0.7	<0.02	0.8	1.11	<0.1	0.10
118101	Soil	17.8	21.3	3.14	152.8	0.007	4	0.83	0.008	0.08	<0.1	2.8	0.25	0.02	17	0.6	<0.02	1.9	0.46	<0.1	0.04
118102	Soil	16.3	21.5	3.52	188.9	0.004	5	0.93	0.007	0.08	<0.1	1.5	0.34	0.09	28	0.5	<0.02	2.0	0.39	<0.1	0.05
118103	Soil	7.9	12.1	7.55	71.7	0.003	3	0.49	0.006	0.03	<0.1	0.3	0.13	0.03	22	0.8	<0.02	1.1	0.45	<0.1	<0.02
118104	Soil	20.1	11.7	3.69	232.0	0.002	6	0.59	0.008	0.13	<0.1	1.5	0.29	0.04	31	0.6	0.04	1.4	0.56	<0.1	0.05
118105	Soil	27.7	21.3	2.05	197.5	0.002	9	0.90	0.007	0.21	<0.1	2.5	0.22	0.03	24	0.4	<0.02	2.0	0.41	<0.1	0.09
118106	Soil	23.1	19.5	1.99	123.9	0.002	9	0.67	0.008	0.17	<0.1	2.2	0.43	0.04	29	0.8	<0.02	1.9	0.56	<0.1	0.05
118107	Soil	13.6	20.8	0.82	176.1	0.002	9	0.62	0.008	0.09	<0.1	0.8	0.22	0.13	38	0.9	<0.02	1.2	0.32	<0.1	0.04
118108	Soil	13.2	27.4	1.90	190.1	0.004	10	0.92	0.006	0.09	<0.1	0.7	0.33	0.14	47	0.8	0.07	2.1	0.50	<0.1	0.04
118109	Soil	23.6	17.2	2.96	92.9	0.002	6	0.49	0.007	0.16	<0.1	3.1	0.09	<0.02	15	0.7	<0.02	1.2	0.30	<0.1	0.06
118110	Soil	24.7	15.3	3.92	548.7	0.003	7	0.71	0.008	0.14	<0.1	1.5	0.22	0.06	35	0.5	<0.02	1.7	0.38	<0.1	0.04
118111	Soil	13.9	10.8	6.19	70.7	0.002	5	0.34	0.009	0.09	<0.1	1.7	0.17	<0.02	15	0.6	<0.02	0.9	0.38	<0.1	0.03
118112	Soil	7.4	18.0	7.41	62.0	0.005	4	0.60	0.012	0.07	<0.1	1.3	0.53	<0.02	52	0.6	<0.02	1.3	0.61	<0.1	0.05
118113	Soil	14.6	40.0	0.62	159.1	0.019	4	1.90	0.012	0.13	0.2	2.4	0.34	0.05	34	0.5	<0.02	4.4	1.40	<0.1	0.04
118114	Soil	12.2	26.7	4.80	104.8	0.005	8	0.79	0.010	0.10	<0.1	1.1	0.40	0.08	32	1.1	0.04	1.6	0.79	<0.1	0.03
118115	Soil	20.7	15.0	3.02	178.9	0.001	9	0.48	0.007	0.18	<0.1	2.7	0.38	0.04	28	0.4	<0.02	1.3	0.53	<0.1	0.04
118116	Soil	26.1	10.6	3.96	186.9	0.002	10	0.58	0.010	0.19	<0.1	1.9	0.36	0.04	9	0.5	<0.02	1.8	0.61	<0.1	0.07
118117	Soil	22.9	12.4	3.40	124.9	0.002	10	0.42	0.009	0.19	<0.1	2.5	0.43	0.07	20	0.5	<0.02	1.2	0.38	<0.1	0.05
118118	Soil	16.4	9.4	4.00	124.2	0.001	6	0.33	0.008	0.18	<0.1	2.6	0.51	0.07	11	0.2	0.04	1.0	0.50	<0.1	0.08
118119	Soil	22.7	10.3	2.07	145.2	0.002	11	0.61	0.007	0.24	<0.1	3.0	0.33	0.03	8	0.3	0.07	2.0	0.69	<0.1	0.04
118120	Soil	16.8	22.2	0.29	189.6	0.002	11	1.28	0.004	0.24	<0.1	4.0	0.23	0.07	26	0.6	0.02	3.1	1.73	<0.1	0.08
118121	Soil	14.5	21.8	0.47	167.6	0.002	9	1.33	0.005	0.23	<0.1	4.8	0.26	0.07	24	0.7	<0.02	2.7	2.07	<0.1	0.11
118122	Soil	8.4	16.7	0.94	107.2	0.001	7	0.89	0.007	0.15	<0.1	4.6	0.15	0.06	12	0.2	0.02	1.7	1.45	<0.1	0.11
118123	Soil	11.0	19.1	0.56	101.3	0.001	8	1.19	0.005	0.16	<0.1	4.3	0.15	0.05	24	0.4	<0.02	2.1	1.01	<0.1	0.12
118201	Soil	11.3	25.0	0.25	160.5	0.002	4	1.61	0.003	0.13	<0.1	3.5	0.24	0.09	32	0.4	<0.02	3.6	1.05	<0.1	0.09



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 2 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD	7TD	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Pb	Zn
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	%	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.02	
118051	Soil	0.09	4.4	4.6	<0.05	9.5	12.51	20.4	<0.02	<1	0.8	3.1	16	<2	N.A.	N.A.
118052	Soil	0.08	2.8	3.7	<0.05	5.2	10.66	9.9	<0.02	<1	0.3	2.6	<10	2	N.A.	N.A.
118053	Soil	0.04	1.0	4.2	<0.05	1.1	4.13	4.4	<0.02	<1	<0.1	1.1	<10	<2	N.A.	N.A.
118054	Soil	0.04	1.4	2.2	<0.05	0.9	4.81	5.4	<0.02	<1	<0.1	1.1	<10	<2	N.A.	N.A.
118055	Soil	0.05	3.5	4.2	<0.05	3.8	6.11	9.1	<0.02	<1	0.4	1.3	<10	<2	N.A.	N.A.
118056	Soil	0.15	3.2	0.4	<0.05	5.2	9.80	13.6	<0.02	<1	0.3	2.6	<10	<2	N.A.	N.A.
118101	Soil	0.26	5.2	1.4	<0.05	1.1	13.05	32.7	0.02	<1	0.6	6.6	<10	<2	N.A.	N.A.
118102	Soil	0.46	6.7	3.4	<0.05	1.4	12.03	27.4	<0.02	<1	0.8	6.9	<10	<2	N.A.	N.A.
118103	Soil	0.10	3.7	3.6	<0.05	0.3	8.52	9.4	<0.02	<1	0.5	3.2	<10	<2	N.A.	N.A.
118104	Soil	0.43	5.9	1.8	<0.05	1.6	10.16	38.3	0.03	<1	0.8	4.6	<10	<2	N.A.	N.A.
118105	Soil	0.42	7.4	7.4	<0.05	2.7	13.95	55.2	<0.02	<1	1.1	7.4	<10	<2	N.A.	N.A.
118106	Soil	0.57	6.8	1.2	<0.05	3.4	12.96	45.7	<0.02	<1	0.3	5.6	<10	<2	N.A.	N.A.
118107	Soil	0.28	4.7	3.7	<0.05	0.8	10.72	20.1	<0.02	<1	0.6	4.5	<10	<2	N.A.	N.A.
118108	Soil	0.37	6.9	2.9	<0.05	0.7	11.26	22.1	<0.02	<1	0.6	7.2	<10	<2	N.A.	N.A.
118109	Soil	0.21	5.8	3.7	<0.05	1.9	11.99	41.8	0.03	<1	0.5	5.5	<10	<2	N.A.	N.A.
118110	Soil	0.41	6.1	2.8	<0.05	1.4	12.30	46.0	0.04	<1	0.7	5.0	<10	2	N.A.	N.A.
118111	Soil	0.17	4.4	0.7	<0.05	1.1	7.76	27.3	0.02	<1	0.1	2.9	<10	<2	N.A.	N.A.
118112	Soil	0.17	5.6	1.6	<0.05	1.6	9.68	11.7	<0.02	<1	0.4	6.0	14	<2	N.A.	N.A.
118113	Soil	0.42	12.4	1.1	<0.05	0.9	12.89	30.8	0.03	<1	0.6	17.0	<10	<2	N.A.	N.A.
118114	Soil	0.26	6.6	1.7	<0.05	1.0	12.87	16.3	<0.02	<1	0.2	5.1	<10	<2	N.A.	N.A.
118115	Soil	0.40	7.4	2.2	<0.05	2.8	11.23	37.8	0.04	<1	0.6	4.2	<10	<2	N.A.	N.A.
118116	Soil	0.53	8.0	1.4	<0.05	1.7	10.48	51.7	0.02	<1	1.3	3.4	<10	<2	N.A.	N.A.
118117	Soil	0.57	6.8	2.1	<0.05	2.2	10.58	43.4	<0.02	<1	0.9	2.6	<10	<2	N.A.	N.A.
118118	Soil	0.12	5.6	1.2	<0.05	4.8	8.16	33.0	0.02	<1	0.7	2.4	<10	<2	N.A.	N.A.
118119	Soil	0.31	9.9	1.8	<0.05	2.4	9.96	46.9	0.03	<1	0.6	4.2	<10	<2	N.A.	N.A.
118120	Soil	0.41	16.2	1.3	<0.05	3.7	13.58	32.7	0.04	<1	1.1	14.7	<10	<2	N.A.	N.A.
118121	Soil	0.33	12.8	2.2	<0.05	4.5	14.61	28.0	0.05	<1	1.0	17.9	<10	<2	N.A.	N.A.
118122	Soil	0.17	7.9	1.5	<0.05	6.3	8.12	20.2	0.03	<1	0.9	16.1	<10	<2	N.A.	N.A.
118123	Soil	0.21	8.6	1.2	<0.05	5.7	9.74	24.1	0.03	<1	1.0	15.1	<10	<2	N.A.	N.A.
118201	Soil	0.27	10.4	0.9	<0.05	3.9	8.72	34.3	0.05	<1	1.7	18.4	<10	<2	N.A.	N.A.



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Project: Scarlet
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Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
118202	Soil			1.62	24.76	30.58	113.0	178	44.9	20.7	501	3.80	4.7	0.7	1.3	4.6	109.7	0.20	0.23	0.22	31	2.71	0.070
118203	Soil			1.41	23.32	25.75	99.6	130	41.8	18.8	466	3.42	4.5	0.7	<0.2	3.4	56.7	0.15	0.23	0.22	29	1.41	0.076
118204	Soil			1.05	32.95	25.85	72.4	64	29.6	18.0	2042	3.23	7.7	1.3	1.0	4.0	24.2	0.09	0.26	0.26	26	0.40	0.055
118205	Soil			1.06	32.20	28.26	67.2	76	26.2	14.6	1710	2.98	9.0	1.2	1.2	4.0	18.1	0.09	0.35	0.28	26	0.31	0.050
118206	Soil			1.02	46.24	36.59	59.2	33	25.9	16.5	3879	3.40	6.9	1.4	2.1	5.9	16.3	0.03	0.25	0.28	25	0.19	0.028
118207	Soil			3.45	23.07	29.63	98.2	150	35.8	14.1	582	2.98	10.3	1.9	3.2	2.8	130.0	0.54	0.57	0.15	35	7.07	0.146
118208	Soil			1.37	43.88	131.0	106.0	232	33.8	18.0	682	3.00	10.6	1.2	1.9	3.2	56.1	0.25	0.43	0.31	21	0.59	0.076
118209	Soil			1.93	41.80	99.12	88.8	220	32.0	18.7	1412	2.64	12.8	1.1	0.7	2.5	48.3	0.29	0.56	0.31	20	1.64	0.083
118210	Soil			1.97	14.76	10.67	156.7	75	46.8	8.2	250	1.83	5.7	1.8	<0.2	2.4	200.1	1.31	0.44	0.10	22	14.23	0.086
118211	Soil			1.38	20.97	45.29	58.4	31	21.2	12.7	1989	3.21	10.0	1.4	0.3	2.8	29.8	0.19	0.51	0.37	21	0.98	0.046
118579	Soil			1.11	4.34	>10000	>10000	200	3.9	2.3	3988	19.21	4.8	3.6	<0.2	0.7	28.9	102.3	0.14	0.04	<2	8.99	0.085
120517	Soil			0.38	15.29	18.74	83.5	91	23.8	10.5	281	3.08	2.5	0.3	<0.2	2.7	7.2	0.12	0.12	0.23	30	0.06	0.027
120518	Soil			0.28	9.24	13.46	177.9	69	20.0	11.2	406	3.18	1.7	0.4	<0.2	2.6	11.7	0.14	0.13	0.26	34	0.11	0.032
120519	Soil			0.57	17.71	19.00	61.1	64	24.6	9.3	213	3.44	4.8	0.4	<0.2	2.9	5.8	0.08	0.25	0.31	31	0.11	0.031
120520	Soil			0.37	13.57	12.49	75.2	45	24.4	10.1	244	3.02	3.5	0.4	<0.2	3.1	17.4	0.06	0.13	0.22	29	0.17	0.015
118901	Soil			1.48	11.84	6.03	99.6	35	30.9	5.4	194	1.17	8.8	1.4	0.2	1.6	77.5	1.50	0.46	0.06	19	19.79	0.056
118902	Soil			1.06	16.78	7.91	120.5	65	36.6	6.3	215	1.41	8.7	1.4	0.6	2.5	96.1	1.37	0.50	0.09	27	17.94	0.068
118903	Soil			1.71	2.75	3.20	17.1	15	5.7	1.4	84	0.38	4.4	0.6	0.4	0.4	70.0	0.14	0.20	<0.02	6	15.12	0.013
118904	Soil			1.70	2.81	2.90	16.9	18	6.7	1.5	82	0.37	4.2	0.6	0.2	0.4	71.4	0.12	0.21	0.04	6	15.69	0.014
118905	Soil			2.35	4.26	4.28	21.0	22	9.4	2.1	107	0.52	6.1	0.9	<0.2	0.6	82.0	0.20	0.27	0.05	9	18.11	0.018
118906	Soil			1.47	5.84	3.99	27.4	43	9.7	2.7	132	0.65	4.9	0.6	0.5	0.8	75.1	0.23	0.31	0.05	14	16.97	0.026
118907	Soil			1.95	3.73	3.76	19.1	21	7.9	1.9	106	0.47	5.6	0.9	0.5	0.5	79.2	0.16	0.25	0.04	8	19.03	0.018
118908	Soil			1.81	3.25	3.10	16.7	17	7.5	1.6	93	0.41	4.7	0.7	0.4	0.4	71.7	0.15	0.22	0.03	7	16.96	0.017
118909	Soil			1.98	3.86	3.49	19.2	24	8.4	1.9	110	0.47	5.5	0.8	0.4	0.5	79.6	0.16	0.27	0.03	9	18.19	0.019
118910	Soil			1.93	3.63	2.87	18.5	23	8.8	1.8	99	0.46	5.1	0.8	<0.2	0.5	80.7	0.17	0.26	0.03	8	18.68	0.018
118911	Soil			2.09	4.24	3.85	23.1	21	9.6	2.2	111	0.49	5.4	0.8	<0.2	0.5	79.0	0.19	0.29	0.04	9	17.96	0.021
118912	Soil			1.94	3.88	3.09	20.0	23	8.6	2.0	110	0.46	5.2	0.8	1.4	0.5	81.2	0.20	0.27	0.03	8	18.53	0.019
118913	Soil			2.50	4.11	695.1	4069	1281	1.9	0.6	1666	6.12	20.5	1.5	<0.2	0.1	57.9	7.31	4.48	<0.02	<2	12.51	0.053
118914	Soil			2.33	2.02	813.2	3501	988	1.3	0.5	1132	11.94	14.4	1.9	0.2	0.1	90.1	3.73	3.19	<0.02	<2	13.05	0.059
118915	Soil			1.96	1.80	177.6	852.9	324	2.8	0.8	820	4.25	9.6	0.8	<0.2	0.1	48.0	1.82	3.55	<0.02	<2	16.08	0.029



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Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

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Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
118202	Soil	10.7	24.1	0.49	99.4	0.002	7	1.46	0.003	0.23	<0.1	6.0	0.25	0.03	32	0.8	0.03	3.3	2.73	<0.1	0.10
118203	Soil	12.8	26.0	0.59	97.2	0.002	8	1.42	0.004	0.22	<0.1	5.2	0.24	0.05	26	0.5	0.03	3.2	2.20	<0.1	0.09
118204	Soil	8.9	27.4	0.44	461.5	0.006	5	1.39	0.005	0.18	<0.1	4.7	0.16	0.03	26	0.3	0.04	3.6	3.90	<0.1	0.11
118205	Soil	13.4	26.6	0.51	418.5	0.007	5	1.36	0.005	0.16	<0.1	4.3	0.13	0.03	18	0.3	<0.02	3.9	4.47	<0.1	0.06
118206	Soil	4.6	32.7	0.34	996.9	0.006	1	1.14	0.007	0.14	0.2	4.4	0.10	<0.02	8	0.2	0.05	3.5	3.37	<0.1	0.05
118207	Soil	13.9	27.0	3.04	153.3	0.004	11	0.95	0.007	0.21	<0.1	5.6	0.32	0.10	14	0.8	0.10	2.7	2.74	<0.1	0.05
118208	Soil	11.0	26.9	0.59	353.1	0.004	4	1.31	0.004	0.15	<0.1	4.9	0.15	0.06	31	0.8	0.04	3.5	4.05	<0.1	0.08
118209	Soil	11.4	24.5	0.76	407.7	0.004	7	1.22	0.006	0.15	<0.1	4.2	0.21	0.10	44	0.7	<0.02	3.5	3.77	<0.1	0.10
118210	Soil	11.5	10.7	3.68	210.7	0.002	6	0.46	0.006	0.14	<0.1	2.8	0.38	0.05	21	0.5	0.03	1.4	1.08	<0.1	0.03
118211	Soil	6.0	25.3	0.50	323.5	0.005	3	0.77	0.007	0.12	0.3	3.7	0.11	0.03	29	0.3	0.03	2.8	3.66	<0.1	0.02
118579	Soil	5.5	2.7	4.40	37.8	0.001	2	0.10	0.008	0.02	<0.1	1.0	16.04	0.51	954	1.0	<0.02	1.4	0.22	0.9	0.03
120517	Soil	3.7	28.6	0.44	603.3	0.005	<1	1.99	0.003	0.18	<0.1	3.0	0.14	<0.02	11	0.1	<0.02	7.4	2.00	<0.1	0.03
120518	Soil	4.1	28.3	0.34	499.3	0.003	<1	2.23	0.003	0.20	<0.1	2.9	0.15	<0.02	7	<0.1	<0.02	8.3	1.37	<0.1	0.03
120519	Soil	5.1	34.4	0.46	95.0	0.004	<1	1.87	0.002	0.13	<0.1	2.5	0.11	<0.02	19	0.3	0.02	6.8	1.18	<0.1	0.03
120520	Soil	6.6	28.7	0.56	125.6	0.004	<1	1.98	0.003	0.14	<0.1	3.2	0.10	<0.02	<5	0.2	<0.02	7.3	1.56	<0.1	0.02
118901	Soil	8.7	9.2	4.63	68.9	0.009	2	0.40	0.006	0.06	<0.1	1.7	0.35	<0.02	12	0.3	0.05	1.0	0.61	<0.1	0.02
118902	Soil	13.2	13.7	2.93	107.9	0.013	4	0.79	0.006	0.11	<0.1	2.5	0.40	<0.02	34	0.2	0.04	1.7	1.03	<0.1	0.04
118903	Soil	3.5	3.3	9.25	43.4	0.002	1	0.12	0.010	0.04	<0.1	0.7	0.18	<0.02	<5	0.2	0.04	0.3	0.29	<0.1	<0.02
118904	Soil	3.5	3.6	7.83	47.6	0.002	2	0.12	0.008	0.03	<0.1	0.5	0.17	<0.02	<5	0.3	0.05	0.3	0.26	<0.1	<0.02
118905	Soil	4.2	4.4	9.04	36.7	0.003	4	0.18	0.010	0.05	<0.1	0.8	0.19	<0.02	6	0.2	0.06	0.4	0.45	<0.1	<0.02
118906	Soil	5.7	6.8	8.30	70.1	0.016	2	0.34	0.010	0.03	<0.1	1.0	0.13	<0.02	10	0.2	0.05	0.8	0.39	<0.1	<0.02
118907	Soil	4.1	4.4	9.23	34.3	0.004	3	0.17	0.010	0.04	<0.1	0.8	0.18	<0.02	<5	0.2	0.06	0.4	0.44	<0.1	<0.02
118908	Soil	3.6	4.0	8.37	29.8	0.003	3	0.15	0.009	0.04	<0.1	0.6	0.16	<0.02	<5	0.2	0.07	0.3	0.40	<0.1	<0.02
118909	Soil	4.0	4.5	9.12	37.9	0.004	2	0.18	0.010	0.04	<0.1	0.7	0.17	<0.02	6	0.3	0.04	0.4	0.46	<0.1	<0.02
118910	Soil	4.0	4.8	9.22	35.0	0.004	2	0.17	0.010	0.04	<0.1	0.7	0.16	<0.02	<5	0.2	0.07	0.4	0.42	<0.1	<0.02
118911	Soil	4.5	5.2	8.90	41.5	0.005	3	0.19	0.009	0.04	<0.1	0.8	0.19	<0.02	<5	0.3	0.08	0.5	0.50	<0.1	<0.02
118912	Soil	4.3	5.1	9.10	40.6	0.005	2	0.17	0.009	0.04	<0.1	0.9	0.17	<0.02	<5	0.3	0.07	0.5	0.48	<0.1	<0.02
118913	Soil	1.1	2.7	6.80	29.9	0.002	<1	0.04	0.006	<0.01	<0.1	0.3	5.77	0.08	636	0.6	0.06	0.4	0.07	0.2	<0.02
118914	Soil	1.4	2.1	6.73	13.1	0.001	<1	0.04	0.006	<0.01	<0.1	0.4	8.40	0.13	936	0.3	0.04	0.3	0.06	0.5	<0.02
118915	Soil	1.2	2.0	8.59	19.7	0.002	<1	0.07	0.008	<0.01	<0.1	0.3	3.20	<0.02	250	0.3	0.04	0.2	0.07	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 3 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt	7TD Pb	7TD Zn
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	%	%
118202	Soil		0.02	0.14	14.4	1.0	<0.05	6.5	10.35	28.1	0.05	<1	1.3	26.3	<10	<2	N.A.	N.A.
118203	Soil		0.02	0.26	12.3	1.3	<0.05	5.8	11.99	30.8	0.04	<1	1.0	25.1	<10	<2	N.A.	N.A.
118204	Soil		0.02	0.34	15.1	1.2	<0.05	2.8	12.18	24.2	0.03	<1	2.2	22.9	<10	<2	N.A.	N.A.
118205	Soil		0.02	0.33	13.9	2.2	<0.05	1.5	15.43	30.3	<0.02	<1	1.9	22.9	<10	<2	N.A.	N.A.
118206	Soil		0.02	0.21	12.9	2.2	<0.05	1.2	8.58	12.4	0.02	<1	1.9	16.9	<10	<2	N.A.	N.A.
118207	Soil		0.02	0.25	14.5	3.6	<0.05	3.1	12.66	32.7	0.04	4	0.2	15.9	<10	<2	N.A.	N.A.
118208	Soil		0.02	0.24	13.4	1.4	<0.05	4.2	19.41	26.4	0.03	2	1.8	27.0	<10	<2	N.A.	N.A.
118209	Soil		0.02	0.28	12.0	4.3	<0.05	3.9	19.99	30.4	0.02	1	1.1	24.6	<10	<2	N.A.	N.A.
118210	Soil		0.02	0.14	6.9	0.7	<0.05	3.0	10.63	23.6	<0.02	2	0.5	7.6	<10	<2	N.A.	N.A.
118211	Soil		0.02	0.40	11.1	2.3	<0.05	0.7	12.54	13.3	0.03	<1	2.1	11.3	<10	<2	N.A.	N.A.
118579	Soil		0.02	0.04	0.9	0.3	<0.05	1.4	6.85	9.5	<0.02	2	0.3	0.4	*	<2	1.53	2.28
120517	Soil		0.02	0.54	24.8	1.6	<0.05	1.3	2.81	8.3	0.02	<1	0.7	29.8	<10	<2	N.A.	N.A.
120518	Soil		0.02	0.45	30.0	1.3	<0.05	0.8	1.39	9.2	0.03	<1	1.0	25.0	12	<2	N.A.	N.A.
120519	Soil		0.02	0.62	17.5	1.2	<0.05	1.3	2.42	11.6	0.02	<1	0.8	33.1	<10	<2	N.A.	N.A.
120520	Soil		0.02	0.42	19.4	1.0	<0.05	1.4	3.89	14.7	0.03	<1	1.0	35.6	<10	<2	N.A.	N.A.
118901	Soil		0.02	0.17	3.3	1.0	<0.05	2.0	9.29	16.7	<0.02	<1	0.4	3.4	<10	<2	N.A.	N.A.
118902	Soil		0.02	0.28	5.9	0.7	<0.05	2.6	10.07	25.2	<0.02	<1	0.5	5.7	<10	<2	N.A.	N.A.
118903	Soil		0.02	0.05	1.7	<0.1	<0.05	0.4	3.99	5.6	<0.02	<1	0.1	0.9	<10	<2	N.A.	N.A.
118904	Soil		0.02	0.04	1.7	0.5	<0.05	0.4	3.91	5.7	<0.02	<1	0.2	1.0	<10	<2	N.A.	N.A.
118905	Soil		0.02	0.05	2.6	0.7	<0.05	0.5	4.48	6.9	<0.02	1	<0.1	1.6	<10	<2	N.A.	N.A.
118906	Soil		0.02	0.19	2.2	0.6	<0.05	0.8	5.58	9.4	<0.02	2	0.1	3.5	<10	<2	N.A.	N.A.
118907	Soil		0.02	0.07	2.3	0.8	<0.05	0.5	4.53	6.6	<0.02	<1	0.3	1.4	<10	<2	N.A.	N.A.
118908	Soil		0.02	0.06	2.0	0.5	<0.05	0.5	4.11	5.6	<0.02	1	0.2	1.2	<10	<2	N.A.	N.A.
118909	Soil		0.02	0.08	2.3	0.7	<0.05	0.5	4.66	6.4	<0.02	1	0.2	1.5	<10	<2	N.A.	N.A.
118910	Soil		0.02	0.07	2.2	0.2	<0.05	0.5	4.55	6.1	<0.02	<1	0.2	1.3	<10	<2	N.A.	N.A.
118911	Soil		0.02	0.08	2.6	0.4	<0.05	0.5	4.95	7.0	<0.02	2	0.2	1.6	<10	<2	N.A.	N.A.
118912	Soil		0.02	0.08	2.4	0.3	<0.05	0.5	4.66	6.7	<0.02	<1	0.2	1.6	<10	<2	N.A.	N.A.
118913	Soil		0.02	0.03	0.5	1.8	<0.05	0.4	1.73	1.6	<0.02	<1	0.2	0.5	<10	<2	N.A.	N.A.
118914	Soil		0.02	0.04	0.4	0.9	<0.05	0.3	1.77	2.0	<0.02	<1	<0.1	0.3	<10	<2	N.A.	N.A.
118915	Soil		0.02	0.04	0.6	1.8	<0.05	0.3	1.60	1.6	<0.02	<1	0.2	0.6	<10	<2	N.A.	N.A.



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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
118916	Soil	5.59	5.30	261.4	472.4	1248	2.9	1.3	1321	14.01	32.7	3.2	0.7	0.3	54.6	0.48	3.33	0.02	<2	11.24	0.134
118917	Soil	13.36	5.74	497.4	1514	1114	3.0	1.3	1492	15.88	82.4	3.8	0.2	0.2	72.2	3.18	6.35	<0.02	<2	10.81	0.108
118918	Soil	14.32	7.35	883.1	1294	1911	3.0	1.1	1385	12.39	78.5	4.2	<0.2	0.3	104.6	4.31	8.48	<0.02	<2	11.90	0.145
118919	Soil	4.15	42.44	1775	4256	2122	71.2	29.4	4267	19.68	351.6	3.1	1.2	2.5	89.1	12.69	32.82	0.14	41	2.26	0.086
118920	Soil	0.85	33.26	17.69	114.4	87	29.9	11.9	429	2.92	23.6	1.4	6.1	2.8	54.2	0.38	0.81	0.20	38	0.68	0.059
118981	Soil	0.86	31.51	28.25	79.8	21	30.9	17.5	688	4.17	7.2	0.7	0.4	4.2	11.5	0.09	0.47	0.40	38	0.06	0.042
118982	Soil	0.65	38.06	36.89	107.5	85	29.1	26.6	2109	4.13	5.9	0.6	1.0	3.6	9.5	0.21	0.26	0.43	32	0.09	0.064
118983	Soil	0.76	26.74	29.15	96.0	95	26.6	13.9	513	3.71	6.6	0.5	0.6	3.9	8.2	0.09	0.41	0.39	34	0.05	0.035
118984	Soil	0.46	20.95	25.09	75.1	140	24.4	14.5	529	3.75	6.1	0.5	1.0	3.7	7.6	0.07	0.34	0.36	28	0.04	0.030
118985	Soil	0.69	21.03	34.32	94.2	106	21.7	17.2	1410	3.95	5.0	0.5	0.3	3.2	8.0	0.15	0.29	0.39	30	0.05	0.052
118986	Soil	0.41	34.56	24.09	96.6	140	29.5	12.0	830	3.34	7.4	1.0	3.4	2.0	40.2	0.24	0.48	0.41	22	0.87	0.052
118987	Soil	0.94	20.26	23.40	115.5	49	24.8	13.2	546	4.24	7.2	0.6	1.7	4.0	6.7	0.17	0.43	0.46	39	0.03	0.045
118988	Soil	0.55	21.12	10.36	91.1	23	29.6	12.5	396	3.96	3.4	0.5	0.6	4.2	6.0	0.10	0.26	0.43	35	0.02	0.027
118989	Soil	0.45	34.49	24.66	68.3	35	26.1	18.3	637	3.82	8.3	1.0	0.4	3.9	5.7	0.05	0.20	0.50	34	0.03	0.030
118990	Soil	0.49	21.05	19.17	94.4	115	24.8	14.2	422	4.06	6.0	0.6	0.2	3.8	6.6	0.06	0.23	0.44	32	0.02	0.028
118991	Soil	0.43	19.90	23.99	74.0	70	27.7	13.0	381	3.77	6.2	0.5	<0.2	4.3	6.8	0.04	0.24	0.42	30	0.03	0.016
118992	Soil	0.71	21.86	24.26	79.7	104	28.7	12.3	345	3.77	7.4	0.6	<0.2	4.3	6.8	0.06	0.36	0.35	31	0.04	0.021
118993	Soil	0.42	18.71	21.89	90.8	72	25.4	10.4	276	3.94	4.8	0.3	<0.2	3.2	6.3	0.14	0.13	0.37	32	0.05	0.025
118994	Soil	0.89	19.34	19.18	96.5	230	26.3	11.7	443	3.69	5.6	0.4	<0.2	3.3	10.8	0.12	0.33	0.36	36	0.08	0.029
118995	Soil	0.34	27.23	22.54	78.5	28	31.9	13.6	370	4.25	4.8	0.4	0.4	4.6	5.8	0.02	0.12	0.42	32	0.02	0.010
118996	Soil	0.40	37.20	24.84	83.7	51	31.3	15.0	565	4.05	6.5	0.7	3.9	4.7	18.6	0.07	0.31	0.38	27	0.12	0.017
118997	Soil	22.64	39.68	130.9	126.6	707	44.8	34.2	494	10.32	333.3	6.1	10.1	3.9	75.9	0.27	4.92	0.38	49	2.17	0.186
118998	Soil	0.95	23.20	45.75	92.6	24	32.5	21.7	1671	4.44	11.1	1.0	1.5	3.3	6.2	0.09	0.48	0.49	34	0.04	0.053
118999	Soil	2.87	43.59	18.77	653.2	150	166.8	13.4	522	3.24	22.0	4.0	1.4	3.4	30.3	3.66	1.19	0.25	77	2.89	0.167
119000	Soil	1.81	13.45	6.68	88.5	60	30.5	7.3	202	1.98	10.9	1.1	0.9	1.6	39.0	0.71	0.52	0.09	26	8.11	0.068
120557	Soil	0.13	0.95	1.27	32.9	21	1.5	0.6	731	0.67	1.0	0.5	<0.2	<0.1	25.9	0.11	0.11	<0.02	2	12.28	0.035
120558	Soil	0.62	8.64	24.95	157.1	100	15.1	6.6	3232	6.01	9.6	1.5	0.6	2.3	17.9	0.31	0.79	0.20	25	6.21	0.085
120559	Soil	0.59	7.51	12.73	35.3	73	9.1	4.0	2493	2.28	6.0	0.7	0.2	0.3	33.6	0.26	0.66	0.10	14	8.56	0.103
120560	Soil	0.48	12.62	30.42	114.6	121	16.1	8.0	1273	2.87	8.9	0.7	0.8	1.5	21.8	0.37	0.71	0.19	16	5.55	0.075
120561	Soil	0.91	13.28	19.12	65.2	38	22.2	8.8	612	3.41	8.6	0.6	0.6	3.9	10.9	0.14	0.43	0.23	38	1.25	0.024



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Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
118916	Soil	2.8	2.6	4.70	15.5	0.001	2	0.08	0.006	0.03	<0.1	0.3	74.49	1.92	2052	0.2	0.05	0.3	0.35	0.1	<0.02
118917	Soil	2.6	1.8	5.18	14.9	<0.001	1	0.04	0.006	<0.01	<0.1	0.4	46.02	1.13	1445	0.3	0.04	0.3	0.05	0.4	<0.02
118918	Soil	3.4	2.7	5.91	18.7	0.001	1	0.05	0.007	0.01	<0.1	0.2	48.84	0.45	1520	0.4	0.04	0.3	0.06	0.2	<0.02
118919	Soil	8.4	18.7	1.32	85.4	0.003	3	1.38	0.001	0.05	<0.1	8.8	1.89	0.05	>50000	3.2	<0.02	2.4	1.93	<0.1	0.05
118920	Soil	22.4	45.7	0.73	78.8	0.006	4	1.08	0.002	0.08	<0.1	7.1	0.27	0.04	115	1.9	<0.02	3.1	2.30	<0.1	0.07
118981	Soil	10.1	36.5	0.61	166.4	0.008	<1	2.04	0.003	0.09	0.1	4.1	0.09	<0.02	41	0.4	<0.02	6.9	2.23	<0.1	<0.02
118982	Soil	7.1	37.0	0.35	192.1	0.003	1	2.24	0.003	0.15	<0.1	4.1	0.14	0.02	57	0.4	0.04	7.5	2.41	<0.1	0.06
118983	Soil	7.3	32.9	0.50	92.1	0.005	2	2.13	0.001	0.12	<0.1	3.0	0.10	<0.02	42	0.2	<0.02	7.0	2.42	<0.1	0.05
118984	Soil	7.1	27.5	0.40	88.4	0.004	2	1.88	<0.001	0.13	<0.1	2.7	0.11	<0.02	42	0.2	0.03	6.2	1.51	<0.1	0.03
118985	Soil	6.4	29.0	0.36	96.7	0.004	1	1.88	<0.001	0.15	<0.1	2.7	0.11	<0.02	42	0.3	0.03	6.9	1.63	<0.1	0.04
118986	Soil	7.3	24.9	0.49	218.5	0.004	2	1.68	0.003	0.10	<0.1	3.5	0.10	0.02	127	0.4	<0.02	5.3	1.25	<0.1	0.05
118987	Soil	7.7	32.2	0.42	144.2	0.005	<1	2.06	0.002	0.13	<0.1	3.1	0.14	<0.02	34	0.3	0.05	7.8	1.92	<0.1	0.04
118988	Soil	5.9	36.3	0.60	108.4	0.007	1	2.23	0.003	0.15	<0.1	3.7	0.13	<0.02	19	0.3	<0.02	8.5	3.03	<0.1	0.04
118989	Soil	2.7	33.0	0.44	121.3	0.007	<1	1.50	0.004	0.13	0.2	3.7	0.13	<0.02	20	<0.1	0.05	5.7	3.56	<0.1	0.02
118990	Soil	4.1	32.1	0.43	217.7	0.005	1	1.82	0.002	0.10	0.1	3.1	0.10	<0.02	20	0.1	<0.02	6.8	1.88	<0.1	0.03
118991	Soil	5.6	28.6	0.47	93.3	0.005	2	1.96	0.002	0.09	<0.1	3.3	0.13	<0.02	25	<0.1	0.02	6.8	1.60	<0.1	0.04
118992	Soil	6.9	29.7	0.48	100.0	0.007	1	1.82	0.002	0.10	<0.1	3.2	0.11	<0.02	23	0.3	0.03	5.9	1.76	<0.1	0.04
118993	Soil	5.0	33.2	0.48	83.2	0.002	<1	2.13	0.002	0.08	<0.1	3.4	0.10	<0.02	17	0.3	<0.02	7.9	1.36	<0.1	0.02
118994	Soil	7.9	31.6	0.42	131.1	0.005	<1	1.93	0.002	0.13	<0.1	2.9	0.10	<0.02	18	0.2	<0.02	6.8	1.50	<0.1	0.03
118995	Soil	5.3	36.0	0.59	187.9	0.004	<1	2.40	<0.001	0.10	<0.1	3.9	0.13	<0.02	27	0.3	<0.02	8.0	1.87	<0.1	0.04
118996	Soil	7.5	29.3	0.52	183.7	0.004	2	1.71	0.005	0.10	<0.1	4.8	0.10	<0.02	82	0.3	<0.02	6.4	1.18	<0.1	0.05
118997	Soil	20.0	14.8	1.04	69.8	0.002	6	0.96	0.051	0.92	<0.1	6.3	3.41	1.77	596	1.7	0.15	3.1	0.82	<0.1	0.15
118998	Soil	7.6	32.0	0.53	101.4	0.007	3	1.77	0.004	0.10	0.2	3.5	0.11	<0.02	26	0.2	0.10	6.1	3.04	<0.1	0.07
118999	Soil	31.1	30.9	1.55	282.1	0.007	4	1.72	0.006	0.13	0.1	4.7	1.04	0.04	127	0.6	0.08	4.4	1.04	<0.1	0.15
119000	Soil	12.2	13.2	3.87	69.4	0.009	3	0.66	0.007	0.07	<0.1	2.0	0.37	<0.02	24	0.2	0.04	1.5	0.75	<0.1	0.03
120557	Soil	0.7	2.1	8.59	15.3	<0.001	1	0.05	0.006	<0.01	<0.1	0.2	<0.02	<0.02	13	0.1	<0.02	<0.1	0.06	<0.1	<0.02
120558	Soil	26.5	18.7	4.04	86.4	0.002	1	1.36	0.006	0.04	<0.1	3.3	0.09	0.03	65	0.2	0.10	3.2	0.37	<0.1	0.05
120559	Soil	5.1	9.9	6.01	73.5	0.004	3	0.81	0.009	0.03	<0.1	0.8	0.09	0.05	50	0.3	0.04	1.7	0.30	<0.1	<0.02
120560	Soil	8.0	12.9	3.47	61.5	0.003	2	0.80	0.007	0.05	<0.1	2.4	0.06	0.02	151	0.2	<0.02	2.1	0.37	<0.1	0.03
120561	Soil	10.3	29.6	1.19	85.0	0.005	2	1.88	0.005	0.05	<0.1	3.4	0.19	<0.02	55	<0.1	<0.02	5.6	1.02	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 4 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt	7TD Pb	7TD Zn
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.02	0.01
118916	Soil			0.04	1.3	1.0	<0.05	0.4	4.02	4.3	<0.02	<1	0.2	0.4	<10	<2	N.A.	N.A.
118917	Soil			0.03	0.3	0.7	<0.05	0.6	3.87	4.2	<0.02	3	0.2	0.4	<10	<2	N.A.	N.A.
118918	Soil			0.03	0.4	1.3	<0.05	0.5	4.93	5.7	<0.02	<1	0.3	0.4	<10	<2	N.A.	N.A.
118919	Soil			0.11	5.3	1.0	<0.05	1.5	32.97	11.3	<0.02	7	1.9	4.5	<10	<2	N.A.	N.A.
118920	Soil			0.20	9.4	0.8	<0.05	2.6	17.48	46.0	0.04	<1	0.9	17.2	<10	<2	N.A.	N.A.
118981	Soil			0.33	11.2	1.8	<0.05	0.8	5.66	26.3	0.03	<1	1.5	32.9	<10	<2	N.A.	N.A.
118982	Soil			0.39	20.4	1.6	<0.05	2.1	5.56	19.4	0.04	<1	1.5	34.9	<10	<2	N.A.	N.A.
118983	Soil			0.52	15.0	2.1	<0.05	2.0	3.96	17.3	0.03	<1	1.7	34.7	<10	<2	N.A.	N.A.
118984	Soil			0.34	15.4	1.0	<0.05	1.3	3.70	17.0	0.03	<1	1.1	31.5	<10	<2	N.A.	N.A.
118985	Soil			0.40	18.1	2.4	<0.05	1.1	3.28	15.5	0.03	<1	1.0	37.7	<10	<2	N.A.	N.A.
118986	Soil			0.41	11.5	0.9	<0.05	1.6	9.41	16.2	0.04	<1	1.5	29.0	<10	<2	N.A.	N.A.
118987	Soil			0.69	22.2	1.8	<0.05	1.6	4.06	17.7	0.03	<1	1.3	33.6	<10	<2	N.A.	N.A.
118988	Soil			0.56	20.3	1.3	<0.05	2.0	3.96	13.3	0.04	<1	0.9	30.2	<10	<2	N.A.	N.A.
118989	Soil			0.63	16.0	2.6	<0.05	0.7	3.23	6.2	0.03	<1	1.0	19.1	<10	<2	N.A.	N.A.
118990	Soil			0.59	16.0	1.3	<0.05	1.4	2.89	9.6	0.04	<1	1.1	30.3	<10	<2	N.A.	N.A.
118991	Soil			0.50	16.4	2.5	<0.05	1.8	3.67	13.5	0.03	<1	1.0	33.5	<10	<2	N.A.	N.A.
118992	Soil			0.54	14.6	1.1	<0.05	1.6	3.49	17.0	0.03	<1	1.1	34.2	<10	<2	N.A.	N.A.
118993	Soil			0.34	17.7	1.6	<0.05	1.1	3.61	11.6	0.03	<1	0.9	41.2	<10	<2	N.A.	N.A.
118994	Soil			0.54	20.6	1.2	<0.05	1.1	2.89	16.3	0.03	<1	1.0	37.5	<10	<2	N.A.	N.A.
118995	Soil			0.23	18.1	1.8	<0.05	1.8	3.70	13.5	0.04	<1	1.5	41.2	<10	<2	N.A.	N.A.
118996	Soil			0.33	11.3	0.7	<0.05	2.2	8.35	20.4	0.07	1	1.3	30.2	<10	<2	N.A.	N.A.
118997	Soil			0.34	14.3	1.2	<0.05	7.4	14.80	50.0	0.07	<1	0.8	9.2	<10	<2	N.A.	N.A.
118998	Soil			0.39	12.8	1.0	<0.05	2.0	5.44	24.0	0.05	<1	1.7	34.7	<10	<2	N.A.	N.A.
118999	Soil			0.61	10.2	1.6	<0.05	6.4	35.04	54.4	0.05	<1	1.6	11.6	30	<2	N.A.	N.A.
119000	Soil			0.30	4.1	0.4	<0.05	1.1	9.20	25.4	<0.02	<1	0.6	4.7	<10	<2	N.A.	N.A.
120557	Soil			<0.02	0.6	0.3	<0.05	0.4	1.41	1.8	<0.02	<1	0.1	0.4	<10	<2	N.A.	N.A.
120558	Soil			0.26	4.3	0.9	<0.05	2.1	27.66	39.5	0.03	<1	0.9	6.0	<10	<2	N.A.	N.A.
120559	Soil			0.11	3.5	0.6	<0.05	0.6	6.42	11.7	<0.02	<1	0.6	4.0	<10	<2	N.A.	N.A.
120560	Soil			0.20	4.2	0.5	<0.05	1.1	9.02	17.8	<0.02	<1	0.7	7.7	<10	<2	N.A.	N.A.
120561	Soil			0.55	8.8	1.1	<0.05	2.6	5.62	23.6	0.03	<1	1.0	25.0	<10	<2	N.A.	N.A.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
120562	Soil			1.04	17.46	22.28	136.4	93	29.6	10.8	1221	4.58	10.8	1.2	1.7	6.2	14.2	0.37	0.60	0.27	42	1.20	0.045
120563	Soil			0.66	17.96	28.38	135.5	84	22.3	11.8	897	3.48	11.4	1.1	0.7	2.0	16.8	0.37	0.83	0.28	35	1.03	0.059
120564	Soil			1.27	13.15	16.91	82.5	144	20.0	10.3	568	2.76	7.9	0.9	0.5	2.8	23.3	0.21	0.37	0.32	36	0.74	0.049
120565	Soil			0.49	36.65	23.47	83.3	90	33.0	13.2	639	3.63	5.7	1.4	1.5	3.7	18.0	0.13	0.36	0.34	24	0.70	0.046
120566	Soil			0.59	15.54	18.24	72.1	54	22.3	10.2	296	3.39	5.2	0.9	0.8	3.3	16.5	0.10	0.22	0.30	37	0.25	0.025
120567	Soil			1.68	27.81	35.20	125.1	94	39.8	12.4	558	6.72	9.3	0.9	0.4	5.9	6.6	0.09	0.16	0.27	9	0.07	0.043
120568	Soil			0.79	19.34	51.83	68.5	197	42.8	21.8	855	3.36	21.4	0.7	2.6	6.5	31.8	0.06	1.06	0.38	6	2.16	0.035
120569	Soil			1.07	33.45	59.26	173.7	129	30.3	12.4	1474	3.38	22.0	1.5	1.7	1.1	110.3	0.58	2.63	0.35	34	2.67	0.188
120570	Soil			0.60	15.12	26.25	64.4	163	16.6	7.5	2258	3.57	18.7	1.2	0.7	0.7	30.6	0.26	1.85	0.17	23	6.83	0.238
120571	Soil			0.76	9.34	33.25	157.3	129	8.0	3.8	2407	2.95	14.1	0.7	1.1	0.4	50.5	0.51	1.44	0.08	10	9.45	0.118
120572	Soil			0.38	18.99	10.07	82.6	25	14.1	12.6	340	2.08	2.4	0.3	<0.2	2.2	3.2	0.06	0.37	0.50	16	0.09	0.016
120573	Soil			1.54	22.79	33.65	315.9	177	23.6	11.6	2119	3.91	8.3	2.1	0.6	2.1	35.3	1.10	0.53	0.33	58	1.76	0.067
120589	Soil			1.10	22.93	13.46	97.7	179	30.2	10.4	452	2.68	50.1	0.9	2.4	2.4	68.8	0.43	0.65	0.22	51	4.64	0.080
120590	Soil			1.23	23.94	16.08	127.6	206	36.2	10.9	539	2.95	37.2	2.0	2.6	1.1	45.7	0.45	0.73	0.25	58	1.50	0.125
120591	Soil			1.42	25.72	16.33	147.6	188	34.3	10.6	526	2.50	26.0	1.8	1.4	0.6	157.6	0.78	0.81	0.24	60	1.87	0.132
120592	Soil			1.48	22.37	14.58	154.9	152	29.9	9.3	396	2.18	30.1	1.7	1.5	0.7	139.9	1.29	0.68	0.21	49	2.58	0.136
120593	Soil			1.76	11.86	7.33	55.5	69	18.8	4.5	114	1.26	190.3	1.4	1.2	0.7	154.4	0.29	0.41	0.10	29	8.66	0.056
120594	Soil			1.40	8.37	5.29	31.8	20	15.7	3.9	101	0.78	66.8	2.7	0.4	0.9	130.1	0.19	0.30	0.06	13	20.58	0.023
120595	Soil			0.77	6.14	7.71	26.5	59	12.5	3.6	133	0.98	62.3	0.8	<0.2	0.9	93.1	0.21	0.47	0.10	13	18.70	0.017
120596	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
120597	Soil			0.71	6.34	5.96	33.0	38	10.2	3.4	163	0.82	21.0	0.7	0.5	0.4	84.3	0.22	0.30	0.07	13	16.22	0.029
120598	Soil			0.65	17.63	11.62	16.8	71	26.9	9.2	343	2.64	18.7	0.8	0.4	2.2	61.1	0.05	0.28	0.05	28	8.81	0.104
120601	Soil			2.39	9.56	8.45	48.7	104	18.6	5.9	334	1.69	9.6	1.2	0.5	0.8	44.7	0.43	0.62	0.13	32	8.38	0.062
120602	Soil			2.34	10.49	11.79	89.4	100	20.1	6.6	456	1.86	9.3	1.2	0.6	0.3	35.7	0.57	0.58	0.16	43	7.28	0.096
120603	Soil			1.38	26.90	22.71	144.5	111	27.6	9.5	462	3.06	29.2	2.8	1.4	1.9	37.5	0.51	0.57	0.30	40	1.19	0.100
120604	Soil			2.70	19.52	15.49	77.9	84	23.0	7.3	247	2.14	24.7	1.0	0.8	2.9	94.8	0.20	0.69	0.17	33	8.03	0.041
120605	Soil			1.22	22.23	19.45	80.3	82	20.1	8.5	329	2.16	14.2	0.8	2.9	2.6	98.5	0.32	0.68	0.16	21	9.05	0.044
120606	Soil			0.88	18.08	14.54	75.3	104	18.8	7.1	281	1.90	13.8	0.6	2.5	1.5	44.5	0.36	0.73	0.14	26	6.03	0.055
120607	Soil			1.25	23.42	30.48	99.9	86	22.3	8.5	242	2.09	23.7	1.4	1.3	1.6	73.1	0.35	0.90	0.15	18	5.33	0.056
120608	Soil			1.88	21.76	13.73	259.6	182	67.9	9.2	466	2.15	40.9	1.7	3.4	1.0	35.8	1.31	1.10	0.19	43	8.23	0.103



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 13, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
120562	Soil	16.1	31.7	1.03	141.5	0.012	3	2.04	0.007	0.09	<0.1	5.2	0.12	<0.02	101	0.2	0.06	5.1	1.40	<0.1	0.04
120563	Soil	8.9	24.4	0.52	150.3	0.005	3	1.51	0.005	0.07	<0.1	3.2	0.09	0.03	68	0.3	0.03	4.8	0.59	<0.1	0.04
120564	Soil	11.1	28.4	0.57	136.1	0.015	2	1.34	0.006	0.07	0.1	2.9	0.09	0.03	53	0.2	0.03	5.5	0.97	<0.1	0.04
120565	Soil	10.3	28.3	0.69	98.1	0.007	3	1.55	0.007	0.11	<0.1	6.5	0.10	0.03	48	0.3	0.04	5.2	1.56	<0.1	0.06
120566	Soil	10.0	29.4	0.51	111.7	0.006	1	1.66	0.006	0.07	<0.1	3.1	0.10	<0.02	19	0.2	0.07	6.9	1.45	<0.1	0.02
120567	Soil	21.3	11.4	0.13	293.1	<0.001	1	1.13	0.002	0.08	<0.1	7.8	0.15	<0.02	88	1.1	0.03	2.2	1.13	<0.1	0.04
120568	Soil	7.3	10.6	0.23	100.8	<0.001	4	0.49	0.002	0.14	<0.1	5.5	0.38	<0.02	623	0.5	0.04	1.4	1.39	<0.1	0.03
120569	Soil	34.1	23.3	0.30	120.1	0.004	3	1.86	0.013	0.07	<0.1	2.2	0.11	0.11	125	0.7	0.15	4.2	0.46	<0.1	0.06
120570	Soil	14.1	14.7	3.94	101.3	0.004	3	1.14	0.007	0.06	<0.1	1.5	0.08	0.09	130	0.5	0.10	2.1	0.31	<0.1	0.03
120571	Soil	4.9	7.2	6.22	67.0	0.002	5	0.42	0.009	0.04	<0.1	0.7	0.24	0.09	201	0.5	<0.02	1.1	0.16	<0.1	0.04
120572	Soil	6.4	8.7	0.09	52.1	0.002	3	0.74	0.002	0.22	<0.1	2.4	0.07	<0.02	23	<0.1	0.09	3.1	0.42	<0.1	<0.02
120573	Soil	19.6	29.0	0.35	305.5	0.009	3	1.77	0.007	0.15	<0.1	3.7	0.12	0.05	55	0.4	0.10	5.5	0.63	<0.1	0.03
120589	Soil	16.9	27.5	2.59	112.2	0.020	5	1.48	0.011	0.09	0.2	3.5	0.17	0.02	47	0.3	0.03	4.0	3.78	<0.1	0.05
120590	Soil	16.7	29.9	0.69	138.9	0.011	3	1.73	0.008	0.08	0.1	2.5	0.27	0.09	58	0.6	0.04	5.0	3.94	<0.1	0.06
120591	Soil	16.1	25.2	0.42	151.9	0.009	6	1.40	0.008	0.08	<0.1	1.7	0.35	0.12	68	0.7	0.04	4.1	6.38	<0.1	0.03
120592	Soil	14.7	22.7	0.48	134.1	0.009	7	1.22	0.010	0.09	0.1	1.7	0.30	0.16	65	0.5	0.03	3.4	5.44	<0.1	0.05
120593	Soil	7.4	12.0	4.70	69.0	0.004	6	0.60	0.010	0.10	<0.1	1.3	0.66	0.04	22	0.2	0.05	1.4	6.26	<0.1	0.02
120594	Soil	4.6	7.1	6.68	32.6	0.003	6	0.27	0.012	0.07	<0.1	1.1	0.43	<0.02	14	0.3	0.04	0.7	2.99	<0.1	0.03
120595	Soil	4.6	7.3	7.30	55.1	0.003	3	0.26	0.009	0.06	<0.1	1.5	0.21	<0.02	14	0.6	<0.02	0.6	1.96	<0.1	0.02
120596	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
120597	Soil	5.8	6.9	7.43	43.1	0.006	3	0.34	0.010	0.04	<0.1	0.9	0.16	<0.02	9	0.4	<0.02	0.9	0.88	<0.1	0.03
120598	Soil	11.0	24.5	5.27	46.1	<0.001	4	0.28	0.006	0.14	<0.1	6.6	0.50	0.25	21	0.1	0.04	0.7	5.22	<0.1	<0.02
120601	Soil	11.7	25.3	5.19	80.5	0.009	2	0.84	0.010	0.04	<0.1	2.9	0.19	0.03	32	0.2	0.03	1.7	0.51	<0.1	0.02
120602	Soil	13.4	24.3	4.30	96.8	0.008	4	1.26	0.009	0.05	0.1	1.4	0.25	0.07	24	0.3	0.02	2.4	0.77	<0.1	<0.02
120603	Soil	16.1	25.6	0.52	144.2	0.007	5	1.68	0.006	0.16	<0.1	3.7	0.28	0.07	36	0.4	0.03	4.9	3.21	<0.1	0.07
120604	Soil	7.7	17.1	4.59	58.7	0.005	3	0.74	0.008	0.12	<0.1	2.4	0.30	<0.02	37	0.1	0.05	1.9	5.56	<0.1	0.04
120605	Soil	6.3	13.7	4.16	69.4	0.005	3	0.78	0.005	0.08	<0.1	2.6	0.25	0.03	48	<0.1	0.04	2.0	2.06	<0.1	0.05
120606	Soil	7.4	15.0	3.55	84.4	0.010	2	0.83	0.006	0.06	<0.1	2.1	0.09	<0.02	39	0.3	0.03	2.2	0.75	<0.1	0.04
120607	Soil	6.5	13.7	2.81	87.7	0.003	5	0.70	0.004	0.08	<0.1	2.9	0.34	0.05	57	0.7	0.03	2.0	2.88	<0.1	0.04
120608	Soil	15.2	21.1	0.88	122.7	0.010	5	1.27	0.005	0.09	0.1	2.2	0.41	0.05	91	0.7	0.03	2.9	1.58	<0.1	0.10



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 5 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD	7TD	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Pb	Zn
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	%	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.02	
120562	Soil	0.78	12.2	0.8	<0.05	2.5	12.06	45.4	0.04	<1	1.2	29.2	<10	<2	N.A.	N.A.
120563	Soil	0.60	8.2	0.8	<0.05	1.6	7.56	25.2	0.04	<1	0.9	16.0	<10	<2	N.A.	N.A.
120564	Soil	0.82	10.6	0.7	<0.05	1.5	3.96	24.5	0.03	<1	0.5	25.5	<10	<2	N.A.	N.A.
120565	Soil	0.46	10.8	0.9	<0.05	1.9	14.77	20.4	0.04	<1	1.4	28.1	<10	<2	N.A.	N.A.
120566	Soil	0.62	14.0	0.8	<0.05	1.2	4.24	22.2	0.03	<1	0.7	33.1	<10	<2	N.A.	N.A.
120567	Soil	0.05	8.8	0.6	<0.05	1.6	31.55	90.9	0.07	<1	1.5	15.5	<10	<2	N.A.	N.A.
120568	Soil	0.04	6.8	0.9	<0.05	3.6	13.47	33.8	0.04	<1	1.1	2.2	<10	<2	N.A.	N.A.
120569	Soil	0.34	6.1	0.7	<0.05	1.5	36.23	65.0	0.04	<1	1.4	6.8	12	<2	N.A.	N.A.
120570	Soil	0.12	4.9	0.4	<0.05	1.3	25.24	33.1	0.02	<1	0.5	4.0	<10	<2	N.A.	N.A.
120571	Soil	0.06	2.2	0.6	<0.05	0.9	6.33	10.3	<0.02	<1	0.6	2.5	<10	<2	N.A.	N.A.
120572	Soil	0.20	12.1	0.6	<0.05	0.3	2.27	14.9	0.03	<1	0.4	3.2	<10	<2	N.A.	N.A.
120573	Soil	0.67	13.8	0.9	<0.05	1.4	10.26	47.8	0.04	<1	1.2	9.1	20	<2	N.A.	N.A.
120589	Soil	0.53	11.3	0.6	<0.05	1.6	12.12	35.8	<0.02	<1	0.7	11.3	<10	<2	N.A.	N.A.
120590	Soil	0.62	11.3	0.5	<0.05	1.8	13.58	32.6	0.03	<1	1.0	11.5	<10	<2	N.A.	N.A.
120591	Soil	0.60	12.3	0.6	<0.05	1.4	12.72	32.5	0.04	<1	1.2	11.1	<10	<2	N.A.	N.A.
120592	Soil	0.70	11.1	0.6	<0.05	1.9	12.56	29.8	0.03	<1	0.7	8.9	<10	<2	N.A.	N.A.
120593	Soil	0.18	8.2	0.5	<0.05	1.0	5.73	16.2	<0.02	<1	0.5	3.7	<10	<2	N.A.	N.A.
120594	Soil	0.07	4.8	0.5	<0.05	0.9	3.59	10.0	<0.02	<1	0.3	2.3	<10	<2	N.A.	N.A.
120595	Soil	0.07	3.3	0.7	<0.05	0.9	4.59	10.5	<0.02	<1	0.2	2.0	<10	<2	N.A.	N.A.
120596	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
120597	Soil	0.09	3.2	0.5	<0.05	0.8	5.25	10.6	<0.02	<1	0.1	3.3	<10	<2	N.A.	N.A.
120598	Soil	0.06	5.7	0.3	<0.05	1.2	9.09	26.6	<0.02	<1	0.4	0.8	<10	<2	N.A.	N.A.
120601	Soil	0.28	4.5	0.4	<0.05	0.6	10.87	18.9	<0.02	<1	0.4	4.9	<10	<2	N.A.	N.A.
120602	Soil	0.35	6.7	0.6	<0.05	0.4	11.87	22.7	0.02	<1	0.5	7.0	<10	<2	N.A.	N.A.
120603	Soil	0.53	18.2	0.6	<0.05	1.8	12.04	33.8	0.04	<1	1.2	15.2	<10	<2	N.A.	N.A.
120604	Soil	0.14	7.7	0.9	<0.05	1.8	6.11	16.7	<0.02	<1	0.7	7.6	<10	<2	N.A.	N.A.
120605	Soil	0.13	4.9	0.6	<0.05	2.5	6.17	13.2	0.04	1	0.5	11.9	<10	<2	N.A.	N.A.
120606	Soil	0.24	4.6	0.9	<0.05	1.2	6.81	14.7	0.02	<1	0.6	10.7	<10	<2	N.A.	N.A.
120607	Soil	0.13	7.8	0.8	<0.05	1.7	6.78	14.0	0.03	<1	0.6	11.1	<10	<2	N.A.	N.A.
120608	Soil	0.42	6.4	0.9	<0.05	3.4	19.89	30.8	0.03	<1	1.1	8.9	16	<2	N.A.	N.A.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
120609	Soil	3.01	30.95	18.09	265.9	109	66.6	8.9	508	3.02	51.6	2.3	1.8	5.6	31.7	0.74	1.45	0.26	56	5.95	0.089
120610	Soil	4.01	26.04	17.66	367.2	96	76.3	10.8	598	2.51	86.4	1.6	2.1	0.6	33.2	1.15	1.46	0.28	43	6.78	0.113
120611	Soil	2.42	12.42	10.23	39.9	25	18.3	4.8	141	1.08	18.6	2.0	0.3	1.4	75.9	0.17	0.44	0.12	14	13.65	0.030
120612	Soil	0.97	8.66	7.48	60.1	29	12.6	3.0	172	0.69	10.7	1.2	0.7	0.5	41.5	0.33	0.31	0.05	14	12.61	0.034
120613	Soil	0.76	7.76	7.61	41.4	36	12.0	3.3	174	0.75	7.0	1.1	0.8	0.6	42.7	0.27	0.35	0.06	13	12.24	0.039
120614	Soil	2.33	14.83	12.39	86.4	100	22.3	5.8	341	1.37	11.7	1.4	1.3	0.5	32.7	0.50	0.66	0.11	25	9.50	0.081
120615	Soil	0.99	6.73	5.28	37.8	55	10.7	3.0	228	0.74	5.5	0.8	0.6	0.3	30.3	0.32	0.34	0.04	16	11.47	0.041
120616	Soil	1.28	9.56	6.27	60.8	157	16.0	3.7	183	0.90	10.7	2.1	0.5	0.6	50.5	0.41	0.43	0.07	29	11.50	0.113
120617	Soil	2.73	13.26	12.87	85.6	94	21.0	8.2	529	1.96	17.0	1.9	2.7	0.6	40.6	0.64	0.79	0.16	37	7.43	0.102
120618	Soil	1.87	35.47	12.97	85.8	185	28.1	12.7	655	3.37	13.3	1.9	1.1	1.0	18.1	0.24	0.67	0.17	73	1.27	0.098
120619	Soil	1.19	21.93	14.07	64.1	118	22.9	11.7	623	3.00	8.0	1.1	0.6	0.9	33.1	0.42	0.48	0.14	53	1.58	0.092
120620	Soil	1.73	12.52	17.17	128.7	60	25.3	9.4	455	2.84	17.3	1.5	1.1	1.1	12.8	1.40	0.83	0.25	52	0.81	0.073
120621	Soil	1.26	9.20	6.96	38.1	86	13.9	5.8	331	1.35	9.3	1.3	0.9	0.8	62.9	0.32	0.52	0.06	30	12.42	0.065
120622	Soil	0.78	16.57	15.68	79.5	98	18.7	11.7	585	2.57	6.9	0.8	0.6	1.8	55.7	0.32	0.35	0.14	30	5.80	0.096
120623	Soil	1.63	14.04	15.38	54.6	72	12.7	4.2	117	2.05	7.5	0.6	3.5	0.4	8.8	0.12	0.85	0.18	37	0.08	0.047
120624	Soil	1.07	17.98	28.19	54.6	123	10.1	3.7	70	1.99	6.2	0.7	0.6	1.6	18.9	0.05	0.43	0.21	15	0.07	0.033
120625	Soil	0.99	17.53	17.95	60.4	71	12.5	6.1	116	1.87	6.3	0.8	0.6	0.9	13.7	0.08	0.50	0.22	21	0.03	0.032
120626	Soil	1.12	22.26	28.10	74.7	97	12.8	5.3	139	2.64	7.9	0.8	1.5	0.9	15.8	0.10	0.55	0.36	27	0.03	0.044
120627	Soil	1.01	14.71	18.82	39.0	79	7.3	2.6	65	1.44	4.9	0.7	0.4	0.9	17.6	0.04	0.32	0.20	13	0.01	0.035
120628	Soil	1.48	16.50	15.62	85.6	130	31.5	11.8	381	2.79	3.5	0.9	0.5	1.9	318.6	0.33	0.36	0.15	26	8.83	0.063
120629	Soil	1.00	11.79	11.29	48.9	79	10.6	3.4	88	1.39	5.0	0.6	2.2	0.4	9.7	0.16	0.41	0.13	18	0.09	0.039
120630	Soil	5.68	41.43	35.42	524.9	219	276.7	180.0	2837	3.64	5.8	2.4	0.8	5.4	227.1	1.11	0.63	0.19	15	0.29	0.075
120631	Soil	0.72	11.44	10.65	54.2	125	16.2	5.6	222	1.75	2.7	0.5	0.2	1.0	9.6	0.11	0.27	0.14	18	0.23	0.081
120632	Soil	0.81	12.62	14.15	63.2	71	18.7	8.4	398	2.25	4.6	0.6	2.9	1.1	8.8	0.17	0.37	0.17	22	0.14	0.056
121513	Soil	1.42	10.28	9.55	54.0	126	23.2	4.8	247	1.43	9.0	0.7	1.3	0.9	50.9	0.37	0.72	0.08	44	9.39	0.074
121514	Soil	4.38	7.01	9.08	51.4	84	17.8	2.7	111	2.41	21.2	1.1	0.5	0.3	94.8	0.73	1.47	<0.02	24	15.52	0.036
121515	Soil	0.63	3.75	5.00	19.9	38	5.8	0.6	119	0.14	1.5	3.2	1.2	0.1	49.0	0.17	0.28	<0.02	24	16.54	0.074
121516	Soil	0.75	32.91	9.07	40.2	314	22.4	17.3	553	4.50	13.5	0.8	0.6	3.6	12.7	0.09	0.50	0.26	38	0.49	0.160
121517	Soil	0.82	12.30	14.44	40.2	32	23.2	12.1	350	2.48	2.0	0.9	<0.2	5.3	300.6	0.04	0.09	0.12	9	9.84	0.041
121518	Soil	0.79	8.85	9.66	35.5	20	18.4	7.4	203	1.65	2.0	0.4	<0.2	2.6	827.9	0.04	0.07	0.05	6	18.05	0.033



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
120609	Soil	15.1	18.0	0.30	145.1	0.028	3	1.62	0.003	0.08	<0.1	4.4	0.94	<0.02	75	0.4	0.05	5.2	1.54	<0.1	0.24
120610	Soil	15.4	19.0	0.92	126.4	0.003	8	1.05	0.004	0.15	0.1	1.5	0.41	0.11	44	0.6	0.07	2.3	2.22	<0.1	0.03
120611	Soil	6.3	6.6	5.44	49.3	0.001	3	0.30	0.007	0.09	<0.1	1.6	0.24	<0.02	9	0.1	0.08	0.6	0.95	<0.1	0.03
120612	Soil	4.5	5.6	6.78	47.8	0.002	2	0.30	0.005	0.05	<0.1	0.8	0.18	<0.02	16	<0.1	0.03	0.7	0.73	<0.1	0.03
120613	Soil	4.6	6.8	6.68	42.2	0.003	3	0.34	0.008	0.04	<0.1	1.1	0.16	<0.02	30	<0.1	0.04	0.8	0.60	<0.1	0.03
120614	Soil	10.0	13.5	5.20	74.1	0.004	3	0.76	0.007	0.05	<0.1	1.0	0.36	0.05	31	0.3	0.06	1.6	0.78	<0.1	0.05
120615	Soil	5.8	7.5	6.43	39.6	0.005	1	0.38	0.005	0.02	<0.1	0.6	0.12	<0.02	14	0.2	<0.02	0.8	0.39	<0.1	<0.02
120616	Soil	7.0	10.8	6.08	53.8	0.007	1	0.45	0.007	0.04	<0.1	1.0	0.27	<0.02	24	0.3	0.04	1.1	0.92	<0.1	0.03
120617	Soil	14.6	17.4	3.97	104.1	0.009	2	1.07	0.006	0.05	0.1	1.3	0.22	0.06	32	0.4	0.06	2.3	0.71	<0.1	<0.02
120618	Soil	25.5	25.1	1.01	133.8	0.025	3	1.90	0.007	0.06	0.1	4.2	0.17	0.06	42	0.4	0.06	5.2	0.89	<0.1	0.03
120619	Soil	25.3	21.8	0.85	145.1	0.014	4	1.63	0.012	0.09	<0.1	3.7	0.13	0.08	47	0.4	0.04	4.8	0.81	<0.1	0.04
120620	Soil	14.7	28.0	0.52	132.5	0.012	1	2.07	0.004	0.05	0.2	2.4	0.21	0.05	44	0.4	0.06	4.7	1.38	<0.1	<0.02
120621	Soil	11.7	12.1	6.08	56.7	0.012	2	0.67	0.011	0.04	0.1	1.9	0.11	<0.02	20	0.2	0.04	1.6	0.50	<0.1	<0.02
120622	Soil	17.9	17.7	2.34	109.7	0.004	4	1.09	0.004	0.09	<0.1	5.4	0.11	0.02	23	0.2	0.07	2.9	0.75	<0.1	0.04
120623	Soil	7.9	20.4	0.16	53.3	0.013	1	0.80	0.002	0.05	0.1	0.9	0.10	0.05	41	0.5	0.05	3.8	1.35	<0.1	<0.02
120624	Soil	3.1	14.3	0.15	58.9	0.004	2	0.64	0.004	0.11	<0.1	1.5	0.07	0.10	16	0.8	0.05	1.9	2.17	<0.1	0.03
120625	Soil	4.7	16.0	0.17	60.5	0.005	1	0.90	0.002	0.08	<0.1	1.2	0.08	0.05	17	0.5	0.04	2.5	2.34	<0.1	<0.02
120626	Soil	4.8	18.6	0.19	81.5	0.005	2	1.22	0.003	0.16	<0.1	1.4	0.14	0.08	14	0.6	0.12	4.0	3.63	<0.1	<0.02
120627	Soil	3.5	12.2	0.09	63.6	0.002	2	0.66	0.005	0.12	<0.1	1.1	0.09	0.09	13	0.4	0.07	1.9	2.53	<0.1	0.05
120628	Soil	12.7	15.7	0.51	126.0	0.002	5	0.99	0.005	0.15	<0.1	3.6	0.25	0.02	17	0.5	0.06	2.1	1.82	<0.1	0.04
120629	Soil	5.2	13.0	0.14	55.9	0.005	1	0.73	0.002	0.07	<0.1	0.8	0.07	0.04	27	0.5	0.03	2.1	1.27	<0.1	<0.02
120630	Soil	16.7	20.2	0.22	234.0	0.002	4	2.01	0.002	0.16	<0.1	6.3	0.20	<0.02	53	0.5	<0.02	2.0	2.79	<0.1	0.13
120631	Soil	13.1	15.7	0.29	109.1	0.003	2	1.04	0.002	0.10	<0.1	1.6	0.09	0.04	21	0.2	<0.02	2.9	1.54	<0.1	0.04
120632	Soil	11.8	17.9	0.32	106.7	0.005	2	1.17	0.001	0.09	<0.1	1.7	0.09	<0.02	6	0.3	0.03	3.1	1.52	<0.1	<0.02
121513	Soil	11.0	27.8	5.02	76.8	0.011	1	0.69	0.009	0.04	0.1	2.7	0.13	<0.02	13	0.3	0.07	1.5	0.50	<0.1	0.03
121514	Soil	6.5	52.9	7.26	52.7	0.002	3	0.20	0.016	0.03	<0.1	5.1	0.35	<0.02	18	0.2	0.06	0.5	0.68	<0.1	0.03
121515	Soil	1.4	3.9	9.08	15.3	0.002	1	0.09	0.010	<0.01	<0.1	0.3	0.04	<0.02	5	<0.1	<0.02	0.1	0.09	<0.1	<0.02
121516	Soil	30.3	14.8	0.46	186.2	0.003	5	1.35	<0.001	0.18	<0.1	13.2	0.23	0.04	59	0.6	0.07	3.9	3.56	<0.1	0.08
121517	Soil	8.5	11.0	1.53	288.8	0.003	8	0.57	0.009	0.24	<0.1	4.9	0.10	0.03	12	<0.1	0.04	1.3	2.22	<0.1	0.18
121518	Soil	9.8	8.5	0.48	88.7	0.001	6	0.39	0.004	0.16	<0.1	3.1	0.07	<0.02	24	<0.1	0.06	1.1	0.80	<0.1	0.08



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 6 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt	7TD Pb	7TD Zn
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%
120609	Soil			0.92	6.9	1.2	<0.05	14.5	14.91	47.5	0.05	2	1.5	10.3	<10	3	N.A.	N.A.
120610	Soil			0.27	8.8	0.9	<0.05	1.0	15.20	33.0	0.03	1	1.3	5.3	18	<2	N.A.	N.A.
120611	Soil			0.06	4.4	0.9	<0.05	1.2	6.82	15.0	<0.02	<1	0.4	1.6	<10	<2	N.A.	N.A.
120612	Soil			0.09	3.3	0.7	<0.05	1.0	5.79	7.9	<0.02	<1	0.2	2.4	<10	<2	N.A.	N.A.
120613	Soil			0.10	2.9	0.4	<0.05	1.2	6.12	8.5	<0.02	<1	0.2	3.0	<10	<2	N.A.	N.A.
120614	Soil			0.24	4.5	0.8	<0.05	1.9	13.34	16.0	0.02	1	0.4	5.3	<10	<2	N.A.	N.A.
120615	Soil			0.11	2.3	0.4	<0.05	0.5	6.79	9.6	<0.02	<1	0.2	2.6	<10	<2	N.A.	N.A.
120616	Soil			0.16	3.4	0.5	<0.05	1.3	7.41	12.5	<0.02	2	0.3	3.2	<10	<2	N.A.	N.A.
120617	Soil			0.33	6.0	0.5	<0.05	0.7	11.35	29.5	<0.02	2	0.6	6.6	<10	<2	N.A.	N.A.
120618	Soil			1.27	7.2	0.6	<0.05	1.4	19.40	39.5	0.03	1	0.8	16.3	<10	<2	N.A.	N.A.
120619	Soil			0.89	8.6	0.6	<0.05	1.5	15.33	40.2	0.03	1	1.0	17.2	<10	<2	N.A.	N.A.
120620	Soil			0.77	9.2	0.7	<0.05	0.6	9.23	46.3	0.03	1	0.8	11.8	<10	<2	N.A.	N.A.
120621	Soil			0.30	3.3	0.6	<0.05	0.8	9.75	20.1	<0.02	<1	0.3	5.0	<10	<2	N.A.	N.A.
120622	Soil			0.25	7.0	0.9	<0.05	1.7	14.07	34.4	0.03	1	0.9	13.6	<10	<2	N.A.	N.A.
120623	Soil			0.42	7.1	1.6	<0.05	0.3	2.44	17.3	<0.02	1	0.2	4.7	<10	<2	N.A.	N.A.
120624	Soil			0.12	7.3	0.9	<0.05	0.7	2.77	7.8	0.04	<1	0.5	7.4	<10	<2	N.A.	N.A.
120625	Soil			0.20	8.9	0.9	<0.05	0.6	2.60	10.7	0.02	<1	0.6	11.9	<10	<2	N.A.	N.A.
120626	Soil			0.24	15.9	0.8	<0.05	0.7	3.40	12.5	0.05	1	0.7	12.2	<10	<2	N.A.	N.A.
120627	Soil			0.08	10.4	0.8	<0.05	1.2	2.25	9.4	<0.02	1	0.5	5.9	<10	<2	N.A.	N.A.
120628	Soil			0.17	9.8	0.7	<0.05	3.2	11.27	31.4	0.04	<1	1.1	11.5	<10	<2	N.A.	N.A.
120629	Soil			0.16	7.4	0.6	<0.05	0.3	2.47	11.9	<0.02	<1	0.4	8.1	<10	<2	N.A.	N.A.
120630	Soil			0.10	10.6	0.7	<0.05	6.3	67.38	52.3	<0.02	<1	2.2	50.3	26	<2	N.A.	N.A.
120631	Soil			0.14	11.5	0.7	<0.05	1.3	9.23	33.1	0.02	<1	0.8	12.3	<10	<2	N.A.	N.A.
120632	Soil			0.25	10.2	0.6	<0.05	0.9	9.52	40.2	0.03	1	1.0	14.5	<10	<2	N.A.	N.A.
121513	Soil			0.24	3.3	0.7	<0.05	1.0	11.07	17.0	<0.02	<1	0.4	5.0	<10	<2	N.A.	N.A.
121514	Soil			0.05	1.4	0.3	<0.05	0.7	7.42	5.8	<0.02	1	0.2	1.0	<10	2	N.A.	N.A.
121515	Soil			0.03	0.9	0.5	<0.05	0.7	1.90	2.1	<0.02	<1	0.1	0.6	<10	<2	N.A.	N.A.
121516	Soil			0.27	16.9	1.1	<0.05	2.8	33.48	82.4	0.06	2	1.1	15.7	<10	2	N.A.	N.A.
121517	Soil			0.03	12.4	0.7	<0.05	11.3	9.05	21.7	0.02	2	0.9	4.6	<10	<2	N.A.	N.A.
121518	Soil			0.10	6.9	0.5	<0.05	4.9	6.68	20.6	<0.02	<1	0.6	3.5	<10	<2	N.A.	N.A.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
121519	Soil	0.33	6.98	6.87	32.9	14	12.4	6.6	198	1.57	1.1	0.4	<0.2	2.9	857.2	0.02	0.06	0.06	6	18.15	0.032
121520	Soil	0.52	9.40	7.83	32.4	24	14.8	8.6	282	1.55	1.7	0.5	6.6	2.7	729.5	0.08	0.14	0.16	6	17.21	0.051
121521	Soil	1.96	17.83	16.99	66.7	79	45.5	15.7	465	3.21	5.0	0.8	5.1	2.3	63.2	0.24	0.32	0.22	37	2.01	0.064
121522	Soil	0.95	18.27	11.47	78.2	70	18.7	6.5	92	1.95	7.6	0.9	<0.2	1.4	6.5	0.08	0.53	0.29	21	0.03	0.063
121523	Soil	0.51	40.47	28.50	79.3	14	31.4	20.8	494	3.75	8.0	0.8	1.4	7.1	10.7	0.04	0.44	0.45	17	0.67	0.017
121524	Soil	0.79	37.96	53.55	88.4	53	28.7	27.2	2832	4.10	6.7	1.0	2.6	3.1	9.5	0.07	0.34	0.45	25	0.34	0.053
121525	Soil	0.29	29.50	38.81	34.4	67	10.1	7.1	87	1.64	14.9	0.2	0.9	3.0	22.0	0.03	0.59	0.55	6	0.92	0.011
121526	Soil	0.57	8.49	707.0	1853	256	6.4	3.0	857	1.18	8.0	0.9	1.0	1.1	65.8	6.08	0.79	0.07	9	14.02	0.077
121527	Soil	3.45	7.30	3541	>10000	279	6.6	2.4	1539	10.07	28.0	2.5	1.0	0.8	45.3	14.98	2.94	0.05	4	11.91	0.066
121528	Soil	0.97	58.15	96.41	148.1	899	40.6	30.4	521	4.22	47.7	1.7	1.7	6.0	53.3	0.30	4.60	0.76	15	0.59	0.075
121529	Soil	0.94	7.48	7.31	32.1	23	11.2	3.7	114	0.74	10.4	0.8	2.3	0.9	113.7	0.18	0.27	0.11	6	19.26	0.018
121530	Soil	0.60	7.17	5.91	35.3	39	9.7	3.7	203	0.72	7.5	0.3	<0.2	0.4	26.3	0.21	0.24	0.12	8	5.35	0.036
121531	Soil	1.10	7.45	6.32	48.8	62	9.2	3.9	267	1.06	5.6	0.4	1.3	0.5	23.9	0.25	0.33	0.13	17	7.48	0.036
121532	Soil	0.86	4.17	4.16	23.9	33	5.3	2.1	142	0.52	3.2	0.3	0.6	0.3	32.0	0.14	0.21	0.05	10	8.59	0.023
121533	Soil	1.85	7.19	9.19	24.5	51	12.5	3.9	79	1.06	5.0	0.3	0.7	1.1	77.5	0.29	0.20	0.09	4	13.75	0.008
121534	Soil	0.50	5.57	4.13	26.5	25	7.9	2.9	98	0.62	7.5	0.3	1.0	0.4	34.7	0.12	0.16	0.06	6	5.48	0.016
121535	Soil	0.96	13.20	9.93	58.8	29	26.0	10.9	323	2.31	3.5	0.5	0.8	2.6	512.9	0.08	0.16	0.12	12	14.26	0.052
121536	Soil	1.44	12.17	11.12	68.5	112	18.1	7.5	406	1.76	10.5	0.7	1.8	0.8	31.1	0.50	0.63	0.16	29	7.10	0.065
121537	Soil	0.82	8.20	6.12	23.1	30	10.8	4.7	180	1.09	11.2	0.4	0.9	0.8	80.5	0.14	0.24	0.07	12	14.71	0.032
121538	Soil	1.30	19.02	10.20	47.8	51	22.0	10.4	327	2.07	10.5	0.6	1.1	1.6	185.5	0.15	0.38	0.09	26	12.02	0.054
121539	Soil	0.97	14.82	11.52	36.1	55	15.7	9.0	353	1.66	9.9	0.6	2.3	1.1	81.7	0.17	0.34	0.10	18	12.92	0.042
121540	Soil	3.74	82.54	40.91	216.3	1239	62.5	26.2	537	4.12	9.9	2.1	1.7	4.2	153.9	1.25	1.54	0.32	43	4.03	0.223
121541	Soil	1.35	41.51	23.67	99.0	284	33.7	18.4	466	3.33	8.8	0.8	1.0	2.2	106.0	0.25	0.72	0.22	38	4.30	0.091
121542	Soil	0.68	15.65	15.14	52.5	75	14.9	8.4	732	1.68	6.2	0.4	0.7	0.9	64.6	0.21	0.36	0.18	12	6.96	0.076
121543	Soil	0.82	44.40	42.17	82.8	40	29.7	23.4	795	3.77	26.3	0.8	1.5	6.0	11.1	0.07	0.76	0.53	25	0.28	0.034
121544	Soil	0.91	34.43	29.85	68.4	94	24.9	14.3	1596	2.57	14.3	0.6	2.1	2.7	58.0	0.18	0.58	0.26	21	6.46	0.040
121545	Soil	1.10	32.79	22.96	98.6	101	26.8	16.1	751	3.13	13.2	0.6	0.9	2.3	30.2	0.30	0.95	0.25	28	2.03	0.074
121546	Soil	1.34	24.07	17.79	64.6	106	22.0	12.2	494	2.16	9.8	0.6	1.0	1.7	73.3	0.42	0.51	0.17	20	7.51	0.066
121547	Soil	0.94	13.67	11.07	43.1	63	14.7	7.3	279	1.62	6.7	0.5	0.4	1.5	85.1	0.21	0.31	0.11	16	10.80	0.047
121548	Soil	1.02	13.44	10.98	46.7	96	15.7	7.2	211	1.93	9.2	0.6	0.4	1.6	66.1	0.25	0.37	0.10	23	10.27	0.051



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 13, 2011

Page: 7 of 12 Part 2

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WHI11000454.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
121519	Soil	9.6	7.8	0.74	87.0	0.001	5	0.37	0.005	0.14	<0.1	3.4	0.04	0.04	<5	<0.1	0.10	0.9	0.93	<0.1	0.10
121520	Soil	12.9	7.9	0.38	144.3	0.001	7	0.41	0.004	0.12	<0.1	3.0	0.06	0.06	23	0.3	0.07	1.0	1.59	<0.1	0.06
121521	Soil	29.4	22.4	0.26	153.0	0.002	7	0.99	0.001	0.16	<0.1	4.7	0.27	0.05	50	0.6	0.02	2.7	1.28	<0.1	0.13
121522	Soil	7.3	14.3	0.11	38.2	0.005	2	0.76	<0.001	0.06	<0.1	1.0	0.03	0.05	244	0.4	0.03	2.8	1.85	<0.1	0.04
121523	Soil	3.4	31.9	0.63	311.8	0.005	3	1.20	0.003	0.14	0.2	3.0	0.09	<0.02	22	0.1	0.03	3.9	2.01	<0.1	0.05
121524	Soil	4.6	28.8	0.59	132.7	0.004	2	1.79	0.002	0.12	<0.1	4.2	0.13	<0.02	30	0.3	0.03	6.9	4.09	<0.1	0.06
121525	Soil	2.4	5.3	0.52	61.5	<0.001	2	0.32	<0.001	0.09	<0.1	3.8	0.27	<0.02	605	<0.1	0.11	1.3	8.22	<0.1	0.03
121526	Soil	4.4	6.5	7.67	30.4	0.008	1	0.31	0.009	0.02	<0.1	1.1	0.30	<0.02	2646	0.4	0.02	1.0	0.43	<0.1	0.02
121527	Soil	3.9	3.6	6.52	8.5	0.001	2	0.09	0.006	0.02	<0.1	0.8	5.07	<0.02	648	1.4	0.03	1.0	0.39	0.4	0.02
121528	Soil	7.8	17.9	0.58	89.9	0.002	3	1.22	0.003	0.24	<0.1	5.4	0.21	0.26	118	0.8	0.09	3.3	5.63	<0.1	0.08
121529	Soil	4.2	6.7	7.59	40.4	0.003	4	0.26	0.012	0.07	<0.1	1.2	0.10	<0.02	17	0.3	<0.02	0.6	1.71	<0.1	0.02
121530	Soil	5.5	7.1	2.70	47.4	0.003	3	0.36	0.003	0.05	<0.1	0.7	0.08	0.02	17	0.3	0.04	0.7	0.87	<0.1	0.02
121531	Soil	6.4	11.1	4.61	57.9	0.009	2	0.62	0.005	0.03	<0.1	1.1	0.06	0.02	15	0.2	<0.02	1.2	0.55	<0.1	<0.02
121532	Soil	4.5	5.9	5.09	92.4	0.006	2	0.27	0.005	0.01	<0.1	0.7	0.03	<0.02	10	0.2	<0.02	0.6	0.25	<0.1	<0.02
121533	Soil	3.5	5.9	6.23	69.9	0.001	2	0.15	0.008	0.05	<0.1	1.3	0.12	<0.02	25	0.3	<0.02	0.4	0.95	<0.1	<0.02
121534	Soil	3.2	4.9	2.53	31.0	0.002	1	0.25	0.003	0.03	<0.1	0.6	0.09	<0.02	8	0.2	<0.02	0.6	0.61	<0.1	<0.02
121535	Soil	14.0	10.7	1.36	77.6	0.002	4	0.64	0.004	0.12	<0.1	4.4	0.18	<0.02	19	0.4	0.03	1.7	1.04	<0.1	0.03
121536	Soil	10.5	19.1	3.85	108.4	0.012	2	0.93	0.006	0.04	0.1	1.5	0.09	0.03	36	0.5	0.03	2.4	0.59	<0.1	<0.02
121537	Soil	7.0	7.1	6.61	32.2	0.005	4	0.28	0.011	0.05	<0.1	1.6	0.14	<0.02	12	0.4	0.03	0.8	1.28	<0.1	0.02
121538	Soil	10.6	13.9	4.52	50.8	0.023	6	0.74	0.008	0.09	<0.1	3.3	0.17	<0.02	20	0.4	0.03	2.3	1.41	<0.1	0.04
121539	Soil	7.5	11.0	6.31	54.4	0.010	4	0.48	0.009	0.06	<0.1	2.7	0.14	0.02	15	0.5	0.05	1.4	1.93	<0.1	0.02
121540	Soil	12.5	26.4	0.99	93.2	0.003	6	1.11	0.004	0.19	<0.1	5.9	0.17	0.16	45	4.8	0.21	3.2	2.81	<0.1	0.07
121541	Soil	12.8	20.4	2.05	108.6	0.019	6	1.35	0.007	0.16	<0.1	4.9	0.14	0.06	43	1.1	0.06	3.9	2.68	<0.1	0.07
121542	Soil	9.9	10.7	0.75	118.0	0.003	4	0.75	0.004	0.10	<0.1	1.6	0.08	0.05	27	0.4	0.03	1.9	0.93	<0.1	0.08
121543	Soil	4.1	24.6	0.41	113.7	0.010	2	0.93	0.002	0.07	0.2	3.5	0.07	<0.02	10	0.3	0.06	2.9	4.41	<0.1	0.06
121544	Soil	5.8	18.4	3.01	140.5	0.011	3	1.14	0.006	0.09	<0.1	3.7	0.11	<0.02	31	0.4	0.03	3.0	4.77	<0.1	0.05
121545	Soil	8.6	23.8	0.96	155.5	0.007	4	1.25	0.002	0.16	<0.1	4.6	0.10	0.05	53	0.6	0.03	3.7	1.13	<0.1	0.06
121546	Soil	8.1	15.6	3.73	76.2	0.007	6	0.73	0.006	0.08	<0.1	3.2	0.12	0.06	26	0.7	0.06	2.0	1.89	<0.1	0.05
121547	Soil	6.4	10.8	5.29	52.0	0.007	3	0.50	0.007	0.06	<0.1	2.3	0.09	<0.02	17	0.5	0.02	1.4	1.10	<0.1	<0.02
121548	Soil	8.5	12.0	5.24	46.1	0.008	3	0.63	0.007	0.07	<0.1	3.0	0.13	<0.02	22	0.5	0.04	1.8	1.05	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 7 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt	7TD Pb	7TD Zn
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%
121519	Soil			0.07	6.4	0.3	<0.05	7.9	7.27	21.4	<0.02	<1	0.6	3.9	<10	<2	N.A.	N.A.
121520	Soil			0.16	7.4	0.6	<0.05	6.2	8.88	27.8	0.05	<1	0.7	5.1	<10	<2	N.A.	N.A.
121521	Soil			0.37	11.9	0.9	<0.05	7.2	19.02	48.5	0.05	<1	1.5	11.9	<10	<2	N.A.	N.A.
121522	Soil			0.24	9.6	0.8	<0.05	2.1	4.20	17.4	<0.02	<1	0.6	8.3	<10	<2	N.A.	N.A.
121523	Soil			0.14	11.8	1.4	<0.05	1.7	7.67	7.9	<0.02	<1	1.0	24.2	<10	<2	N.A.	N.A.
121524	Soil			0.22	17.2	1.1	<0.05	2.0	7.74	14.2	0.03	<1	1.3	31.2	<10	<2	N.A.	N.A.
121525	Soil			<0.02	12.4	0.9	<0.05	2.3	3.39	5.1	0.02	<1	0.2	1.3	<10	<2	N.A.	N.A.
121526	Soil			0.11	2.1	0.4	<0.05	1.1	4.67	7.8	<0.02	<1	0.3	3.2	<10	<2	N.A.	N.A.
121527	Soil			0.03	0.9	0.4	<0.05	1.1	5.17	6.9	<0.02	<1	0.2	0.6	<10	<2	0.43	1.31
121528	Soil			0.04	13.4	1.2	<0.05	3.5	14.48	19.0	0.04	<1	1.2	23.7	14	<2	N.A.	N.A.
121529	Soil			0.08	4.8	0.6	<0.05	1.0	3.79	9.7	<0.02	<1	0.3	2.1	<10	<2	N.A.	N.A.
121530	Soil			0.06	3.9	0.4	<0.05	0.7	5.71	8.7	<0.02	<1	0.3	2.1	<10	<2	N.A.	N.A.
121531	Soil			0.18	3.8	0.3	<0.05	0.5	7.00	11.0	<0.02	2	0.2	4.8	<10	<2	N.A.	N.A.
121532	Soil			0.09	1.8	0.5	<0.05	0.4	4.32	7.0	<0.02	<1	0.2	2.4	<10	<2	N.A.	N.A.
121533	Soil			0.03	2.9	0.6	<0.05	0.7	3.34	7.7	<0.02	<1	0.3	1.2	<10	<2	N.A.	N.A.
121534	Soil			0.04	2.7	0.2	<0.05	0.6	2.99	6.5	<0.02	<1	0.2	1.7	<10	<2	N.A.	N.A.
121535	Soil			0.06	6.8	0.6	<0.05	2.9	9.51	31.6	0.03	<1	0.8	10.9	<10	<2	N.A.	N.A.
121536	Soil			0.35	5.6	1.4	<0.05	0.7	9.14	18.8	<0.02	<1	0.4	7.3	<10	<2	N.A.	N.A.
121537	Soil			0.12	3.3	0.3	<0.05	0.8	5.71	12.9	<0.02	<1	0.2	2.5	<10	<2	N.A.	N.A.
121538	Soil			0.40	6.3	0.5	<0.05	2.0	7.92	20.1	<0.02	<1	0.5	7.9	<10	<2	N.A.	N.A.
121539	Soil			0.21	5.1	0.6	<0.05	1.1	7.08	15.2	<0.02	<1	0.4	7.0	<10	<2	N.A.	N.A.
121540	Soil			0.12	10.8	1.6	<0.05	6.6	13.70	27.0	0.05	4	1.2	19.6	16	3	N.A.	N.A.
121541	Soil			1.04	10.4	0.9	<0.05	4.1	10.91	25.0	0.04	<1	0.9	22.0	<10	<2	N.A.	N.A.
121542	Soil			0.17	6.3	0.5	<0.05	2.1	7.05	22.5	<0.02	<1	0.6	12.3	<10	<2	N.A.	N.A.
121543	Soil			0.16	6.9	0.8	<0.05	3.4	9.12	11.1	<0.02	<1	1.0	24.4	<10	<2	N.A.	N.A.
121544	Soil			0.24	8.8	0.9	<0.05	2.6	6.66	12.5	<0.02	<1	0.8	22.9	<10	<2	N.A.	N.A.
121545	Soil			0.55	10.4	0.5	<0.05	2.5	8.67	18.6	0.03	<1	0.9	19.8	<10	<2	N.A.	N.A.
121546	Soil			0.40	6.3	1.4	<0.05	2.5	7.91	17.3	<0.02	2	0.7	14.0	<10	<2	N.A.	N.A.
121547	Soil			0.23	3.8	1.8	<0.05	1.5	5.59	13.5	<0.02	<1	0.4	10.3	<10	<2	N.A.	N.A.
121548	Soil			0.31	5.1	0.6	<0.05	1.9	7.21	15.9	<0.02	<1	0.5	9.0	<10	<2	N.A.	N.A.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
121549	Soil			1.29	27.37	21.89	65.1	70	20.0	10.1	556	2.03	10.3	0.8	1.2	1.2	50.0	0.25	0.42	0.19	18	7.09	0.057
121550	Soil			1.51	23.38	19.14	47.6	72	19.2	8.0	522	1.95	11.3	0.9	1.9	1.1	41.0	0.22	0.45	0.18	15	6.20	0.058
121635	Soil			0.84	31.84	22.86	91.1	48	34.5	17.1	692	3.15	7.1	0.9	2.8	4.1	14.6	0.30	0.47	0.27	28	0.17	0.069
121636	Soil			0.74	18.01	13.71	96.0	62	20.0	7.7	342	2.55	8.2	1.0	2.3	1.4	14.0	0.27	0.70	0.26	27	0.41	0.100
121637	Soil			0.64	26.95	19.79	77.1	73	25.3	12.9	479	2.55	18.8	1.6	2.7	1.8	16.6	0.22	1.33	0.31	14	1.18	0.070
121638	Soil			0.66	30.46	21.30	66.7	141	26.0	12.7	797	2.81	13.3	1.4	2.4	3.9	35.1	0.13	1.31	0.25	16	4.95	0.080
121639	Soil			0.72	16.92	16.93	51.8	135	18.5	6.9	496	2.08	7.9	1.6	3.9	1.0	78.8	0.16	0.93	0.26	18	6.79	0.125
121640	Soil			0.80	34.36	37.85	139.4	211	46.5	22.3	616	3.97	18.7	1.3	2.5	5.8	45.7	0.15	3.06	0.42	12	1.40	0.054
121641	Soil			0.89	59.59	64.83	184.4	445	54.3	25.1	1741	6.03	11.5	7.8	1.9	6.4	32.0	0.29	1.07	0.49	16	0.34	0.058
121642	Soil			0.51	25.39	24.09	79.3	181	26.2	10.6	323	2.86	7.2	2.1	0.7	2.8	61.3	0.08	0.55	0.31	17	1.56	0.070
121643	Soil			0.52	28.40	23.37	81.7	110	24.9	11.8	588	2.73	11.1	1.3	2.2	2.9	49.5	0.13	0.99	0.30	16	2.75	0.064
121644	Soil			0.71	28.88	43.93	96.9	52	24.8	23.6	1494	3.98	6.1	0.6	1.5	2.9	11.2	0.13	0.28	0.40	32	0.14	0.080
121645	Soil			0.64	31.91	64.26	129.3	58	24.4	34.9	2495	3.96	5.1	0.5	0.8	2.4	9.8	0.21	0.28	0.51	30	0.07	0.064
121646	Soil			1.19	20.07	20.37	75.0	84	16.8	6.7	322	4.77	7.6	0.6	1.8	2.5	6.0	0.13	0.66	0.44	51	0.06	0.057
121647	Soil			0.74	21.48	30.64	128.1	182	20.8	18.7	1949	3.61	3.5	0.5	0.4	2.2	6.6	0.24	0.31	0.41	37	0.05	0.073
121648	Soil			0.58	16.95	29.33	126.0	195	21.1	19.7	2344	3.37	4.0	0.5	0.4	3.2	10.0	0.19	0.25	0.40	36	0.07	0.044
121649	Soil			1.09	16.23	22.00	110.3	66	19.6	9.3	470	4.21	7.1	0.5	0.4	3.4	5.7	0.13	0.59	0.39	47	0.03	0.043
121801	Soil			29.17	16.43	28.16	96.7	245	32.9	9.7	350	2.98	26.4	12.2	1.6	1.3	30.2	0.09	2.82	0.24	87	2.72	0.238
121802	Soil			10.97	10.63	9.79	69.6	173	33.6	4.6	370	1.09	49.9	17.1	1.3	0.6	90.6	0.48	3.82	0.09	88	9.49	0.241
121803	Soil			41.31	13.62	14.04	81.4	294	33.8	4.4	193	1.05	48.7	8.0	0.6	0.8	80.1	0.49	1.62	0.06	61	10.58	0.121
121804	Soil			8.47	9.19	13.23	46.6	287	17.7	3.7	182	1.03	30.8	5.0	1.3	1.1	151.0	0.29	0.54	0.07	58	10.33	0.075
121805	Soil			22.30	10.76	11.41	55.5	126	23.6	9.5	294	1.98	34.1	9.5	0.8	0.9	126.7	0.19	0.75	0.05	48	10.29	0.138
121806	Soil			0.82	4.23	49.86	106.2	85	7.3	2.4	589	0.86	6.4	1.5	0.8	0.3	68.3	0.42	0.52	0.06	15	15.11	0.086
121807	Soil			12.62	2.42	2320	7889	89	1.0	0.5	1927	18.03	46.3	5.6	<0.2	0.1	58.3	3.64	7.75	<0.02	<2	8.41	0.150
121808	Soil			2.75	8.41	188.2	770.7	586	2.7	1.5	1484	5.54	11.1	5.1	0.8	0.4	122.4	1.42	2.74	0.03	4	15.27	0.152
121809	Soil			2.04	21.95	28.48	166.2	81	19.7	8.4	432	1.99	19.4	2.2	0.8	0.9	73.3	0.29	0.55	0.30	27	3.93	0.067
121810	Soil			1.31	12.78	29.88	40.3	81	13.1	6.6	321	2.00	12.4	0.9	0.4	1.2	62.2	0.09	0.41	0.31	15	4.53	0.040
121811	Soil			1.13	0.99	139.6	1264	519	2.3	1.0	1782	3.94	7.9	1.8	<0.2	<0.1	33.6	1.10	2.50	<0.02	<2	10.96	0.046
121812	Soil			0.74	3.06	14.16	108.9	48	7.7	1.8	399	0.69	9.3	1.6	<0.2	0.2	86.6	0.18	0.94	0.03	21	17.16	0.028
121813	Soil			1.16	8.39	45.55	195.4	124	14.7	5.0	765	2.21	15.7	1.5	<0.2	0.4	63.6	0.44	1.42	0.10	27	12.20	0.063



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
121549	Soil	8.3	18.8	3.56	69.5	0.004	3	0.72	0.005	0.07	<0.1	3.3	0.08	0.04	17	0.6	0.04	2.0	2.91	<0.1	0.05
121550	Soil	8.8	15.8	3.13	62.1	0.003	3	0.65	0.003	0.06	<0.1	2.7	0.09	0.05	31	0.5	0.03	1.6	2.52	<0.1	0.04
121635	Soil	9.6	31.0	0.56	110.4	0.016	<1	1.57	0.003	0.08	<0.1	3.8	0.09	<0.02	22	0.3	0.04	5.4	1.92	<0.1	0.03
121636	Soil	10.4	25.0	0.41	115.2	0.006	1	1.38	0.004	0.07	<0.1	2.8	0.10	0.04	29	0.3	0.03	4.3	1.10	<0.1	0.03
121637	Soil	8.9	13.9	0.58	69.7	0.003	3	0.64	0.003	0.08	<0.1	3.8	0.08	0.04	70	0.4	0.04	2.2	0.68	<0.1	0.05
121638	Soil	12.8	20.0	3.18	88.6	0.004	2	1.16	0.004	0.06	<0.1	4.6	0.07	<0.02	92	0.6	0.05	3.1	1.04	<0.1	0.08
121639	Soil	8.5	18.5	3.09	77.6	0.007	3	0.96	0.005	0.06	<0.1	2.1	0.07	0.03	75	0.7	0.02	2.4	0.80	<0.1	0.05
121640	Soil	8.5	16.3	0.79	80.5	0.003	2	0.96	0.002	0.12	<0.1	5.9	0.29	0.03	116	0.4	<0.02	3.1	2.16	<0.1	0.03
121641	Soil	6.8	17.8	0.43	139.2	0.002	3	1.47	0.002	0.11	<0.1	6.1	0.27	0.05	91	1.0	<0.02	2.5	3.01	<0.1	0.11
121642	Soil	7.5	22.6	0.97	94.7	0.003	4	1.25	0.003	0.09	<0.1	4.4	0.08	0.05	45	0.7	<0.02	3.6	1.59	<0.1	0.10
121643	Soil	8.0	17.2	1.64	87.1	0.003	3	0.99	0.003	0.08	<0.1	3.9	0.09	0.03	94	0.5	0.03	3.2	1.23	<0.1	0.05
121644	Soil	6.1	34.3	0.36	127.8	0.003	<1	1.89	0.004	0.13	<0.1	4.3	0.11	0.05	79	0.3	0.03	7.1	2.88	<0.1	<0.02
121645	Soil	4.8	29.4	0.27	149.1	0.002	<1	1.77	0.002	0.14	<0.1	3.3	0.12	0.02	44	0.3	0.03	7.3	2.05	<0.1	<0.02
121646	Soil	6.6	32.0	0.27	57.4	0.007	<1	1.74	<0.001	0.12	0.1	2.1	0.09	0.02	14	0.4	0.06	8.4	0.85	<0.1	<0.02
121647	Soil	6.1	27.2	0.19	245.9	0.003	<1	1.92	0.001	0.14	<0.1	2.4	0.12	0.03	23	0.3	<0.02	7.9	1.15	<0.1	0.04
121648	Soil	7.5	25.5	0.32	444.9	0.003	2	2.00	0.002	0.17	<0.1	2.9	0.14	<0.02	11	0.2	<0.02	7.6	1.02	<0.1	0.03
121649	Soil	7.2	30.4	0.33	169.3	0.004	1	2.28	<0.001	0.10	<0.1	2.6	0.12	<0.02	22	0.4	0.02	7.9	1.86	<0.1	0.03
121801	Soil	12.4	29.5	1.12	145.2	0.006	3	1.42	0.001	0.07	0.1	3.4	0.48	0.06	85	1.0	0.02	4.4	0.92	<0.1	0.04
121802	Soil	9.8	19.8	6.82	173.4	0.007	3	0.46	0.011	0.09	<0.1	1.1	1.07	0.05	92	0.4	0.08	1.3	0.49	<0.1	0.04
121803	Soil	5.2	13.5	7.13	25.7	0.002	3	0.24	0.010	0.10	<0.1	1.5	1.08	0.03	39	0.6	0.07	0.7	1.34	<0.1	0.04
121804	Soil	5.6	13.3	7.02	63.8	0.001	3	0.23	0.007	0.08	<0.1	1.9	0.85	0.03	129	0.4	<0.02	0.7	0.60	<0.1	0.03
121805	Soil	10.0	10.6	7.08	45.6	0.002	3	0.37	0.009	0.09	<0.1	2.0	0.68	0.06	44	0.2	0.04	0.9	0.49	<0.1	0.04
121806	Soil	6.0	5.8	8.07	37.1	0.006	2	0.27	0.007	0.03	<0.1	0.7	0.37	<0.02	57	0.4	<0.02	0.7	0.43	<0.1	<0.02
121807	Soil	3.6	3.2	4.35	26.2	0.001	<1	0.05	0.006	<0.01	<0.1	0.5	39.32	0.34	2757	0.6	<0.02	0.7	0.11	4.2	<0.02
121808	Soil	4.8	4.4	8.27	52.6	0.003	2	0.15	0.008	0.03	<0.1	0.6	5.36	0.05	545	0.3	<0.02	0.6	0.22	0.1	<0.02
121809	Soil	6.4	12.5	1.48	72.1	0.001	8	0.62	0.005	0.12	<0.1	2.0	0.61	0.11	78	0.5	0.04	2.1	2.43	<0.1	0.05
121810	Soil	4.4	6.6	2.25	83.4	<0.001	6	0.26	0.007	0.20	<0.1	1.9	0.34	0.27	27	0.2	0.03	0.9	1.78	<0.1	<0.02
121811	Soil	1.2	2.1	5.98	14.1	<0.001	<1	0.01	0.004	<0.01	<0.1	0.2	8.99	<0.02	3392	0.3	<0.02	0.6	<0.02	0.2	<0.02
121812	Soil	3.2	9.1	9.39	23.4	0.003	1	0.15	0.008	0.03	<0.1	0.8	0.41	<0.02	32	0.5	0.03	0.6	0.27	<0.1	0.03
121813	Soil	8.8	15.4	5.76	77.6	0.004	5	0.71	0.006	0.07	<0.1	1.0	0.96	0.04	68	0.5	0.04	1.6	0.66	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt	7TD Pb	7TD Zn
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	%	%
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.02	0.01
121549	Soil			0.28	6.3	2.1	<0.05	1.8	9.41	17.2	<0.02	<1	1.1	14.2	<10	<2	N.A.	N.A.
121550	Soil			0.25	5.2	1.9	<0.05	1.7	9.79	18.3	<0.02	<1	1.0	10.3	<10	<2	N.A.	N.A.
121635	Soil			0.30	11.4	1.3	<0.05	1.1	6.89	24.3	0.03	<1	0.9	27.5	<10	<2	N.A.	N.A.
121636	Soil			0.30	12.9	1.0	<0.05	1.0	8.38	19.8	0.02	<1	0.8	15.0	<10	<2	N.A.	N.A.
121637	Soil			0.16	6.5	1.2	<0.05	1.7	8.90	18.4	0.02	<1	0.7	6.4	<10	<2	N.A.	N.A.
121638	Soil			0.12	5.2	0.9	<0.05	2.9	15.22	23.7	<0.02	<1	1.0	28.5	<10	<2	N.A.	N.A.
121639	Soil			0.31	5.0	1.7	<0.05	1.8	10.38	19.1	0.03	<1	0.3	16.5	<10	<2	N.A.	N.A.
121640	Soil			0.15	8.6	1.5	<0.05	2.3	12.52	25.5	0.04	1	1.0	19.5	13	<2	N.A.	N.A.
121641	Soil			0.14	6.7	1.0	<0.05	4.4	14.52	17.9	0.05	1	2.4	21.2	15	<2	N.A.	N.A.
121642	Soil			0.23	5.8	0.9	<0.05	3.0	9.33	17.2	0.03	<1	0.9	36.9	11	<2	N.A.	N.A.
121643	Soil			0.18	6.8	0.5	<0.05	2.2	9.26	18.5	0.03	<1	0.9	24.5	<10	<2	N.A.	N.A.
121644	Soil			0.33	15.1	1.6	<0.05	0.9	6.09	19.0	0.02	<1	1.4	26.4	<10	<2	N.A.	N.A.
121645	Soil			0.22	15.2	1.1	<0.05	0.7	5.01	16.5	0.05	<1	1.4	29.7	11	<2	N.A.	N.A.
121646	Soil			0.87	10.9	1.4	<0.05	0.5	2.65	14.0	0.02	1	0.6	20.7	<10	<2	N.A.	N.A.
121647	Soil			0.59	19.7	1.5	<0.05	1.3	2.48	12.9	<0.02	<1	1.0	25.7	11	<2	N.A.	N.A.
121648	Soil			0.39	23.8	1.4	<0.05	1.2	3.19	16.9	0.03	1	1.7	28.0	<10	<2	N.A.	N.A.
121649	Soil			0.73	16.6	1.0	<0.05	1.6	2.24	14.3	0.03	1	1.1	40.4	<10	<2	N.A.	N.A.
121801	Soil			0.55	5.8	0.9	<0.05	1.2	10.46	26.7	0.02	3	0.8	7.8	<10	<2	N.A.	N.A.
121802	Soil			0.20	4.1	1.1	<0.05	1.1	9.80	17.7	<0.02	2	0.4	3.3	<10	<2	N.A.	N.A.
121803	Soil			0.05	3.8	1.1	<0.05	1.3	7.57	11.3	<0.02	2	0.4	1.8	<10	<2	N.A.	N.A.
121804	Soil			0.07	3.2	0.8	<0.05	1.3	6.62	12.1	<0.02	<1	0.3	1.4	<10	<2	N.A.	N.A.
121805	Soil			0.10	3.3	0.8	<0.05	1.3	10.89	20.7	<0.02	1	0.4	2.2	<10	<2	N.A.	N.A.
121806	Soil			0.09	2.6	0.5	<0.05	0.4	5.69	9.7	<0.02	<1	0.4	2.1	<10	<2	N.A.	N.A.
121807	Soil			0.04	0.6	0.6	<0.05	<0.1	4.77	5.4	<0.02	<1	0.2	0.4	23	<2	N.A.	N.A.
121808	Soil			0.06	1.7	0.4	<0.05	0.4	5.46	7.6	<0.02	2	0.3	1.1	<10	<2	N.A.	N.A.
121809	Soil			0.16	7.8	0.6	<0.05	1.5	8.63	10.6	0.03	<1	0.8	2.7	<10	<2	N.A.	N.A.
121810	Soil			0.05	9.0	0.7	<0.05	1.0	6.34	8.6	0.03	<1	0.2	1.9	<10	<2	N.A.	N.A.
121811	Soil			<0.02	<0.1	0.9	<0.05	0.2	1.40	1.8	<0.02	<1	0.2	0.2	<10	<2	N.A.	N.A.
121812	Soil			0.10	1.7	0.9	<0.05	0.9	7.12	5.4	<0.02	2	0.2	1.4	<10	<2	N.A.	N.A.
121813	Soil			0.21	5.6	0.7	<0.05	1.0	10.40	14.8	<0.02	<1	0.5	4.8	15	<2	N.A.	N.A.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
121814	Soil	2.09	10.07	12.92	86.0	70	12.7	4.7	513	1.23	10.6	3.0	0.5	0.1	56.9	0.51	0.66	0.13	30	9.96	0.109
121815	Soil	0.88	17.02	16.20	23.2	42	15.2	12.0	261	0.84	22.4	2.8	0.6	0.2	62.3	0.13	1.55	0.12	33	17.91	0.064
121816	Soil	1.22	17.68	36.33	131.9	134	19.9	7.2	731	1.93	16.5	2.1	1.2	0.4	50.6	0.73	1.10	0.15	45	10.26	0.102
121817	Soil	3.81	15.33	14.17	99.5	24	35.1	5.7	154	1.84	34.3	5.5	0.3	2.8	155.2	0.37	1.29	0.22	67	16.71	0.093
121818	Soil	1.83	10.15	9.51	44.1	32	15.7	3.5	192	1.10	22.2	3.8	<0.2	0.8	116.2	0.24	0.79	0.17	40	14.86	0.056
121819	Soil	1.72	16.04	18.88	117.8	140	24.6	8.2	1353	1.94	12.6	1.1	1.3	0.4	28.0	0.65	1.10	0.20	46	7.01	0.096
121820	Soil	1.64	16.26	17.33	84.9	133	23.3	8.1	511	1.87	11.5	1.1	1.1	0.9	27.7	0.51	0.98	0.18	42	6.30	0.066
121821	Soil	3.19	12.96	23.74	103.9	88	21.3	8.7	445	2.60	12.5	1.0	1.1	2.2	23.4	0.43	0.94	0.24	43	3.27	0.046
121822	Soil	1.08	3.96	7.71	27.6	36	6.2	1.4	101	0.50	11.3	0.8	1.9	0.4	61.7	0.11	0.41	0.04	10	17.09	0.025
121823	Soil	2.85	9.61	47.26	150.5	102	16.8	6.3	462	1.76	12.5	1.5	1.6	1.2	51.6	0.44	0.64	0.11	34	7.85	0.073
121824	Soil	3.77	11.25	23.68	104.3	109	17.2	6.1	486	1.77	14.8	1.5	0.5	0.6	55.6	0.44	0.68	0.14	41	9.16	0.087
121825	Soil	5.93	11.26	15.24	60.5	129	19.4	5.3	314	1.62	20.8	3.7	1.2	0.6	58.5	0.41	0.66	0.15	32	7.52	0.078
121826	Soil	0.18	1.41	1.21	4.4	13	1.3	0.2	67	0.11	1.7	0.6	1.5	0.3	18.8	0.06	0.12	0.03	6	10.59	0.024
121827	Soil	7.04	27.70	24.52	245.2	25	77.7	11.6	160	4.65	188.0	1.5	0.5	5.1	41.0	0.44	2.95	0.46	169	5.67	0.063
121828	Soil	13.46	30.89	24.99	361.7	35	119.5	12.6	191	6.20	113.5	4.6	1.0	9.6	56.7	0.39	2.82	0.49	184	2.28	0.117
121829	Soil	11.30	21.35	29.34	316.6	56	106.3	7.3	128	3.38	25.3	9.0	1.0	2.9	112.0	0.48	4.14	0.45	153	3.98	0.208
121830	Soil	4.88	26.79	21.90	198.9	118	72.8	16.4	652	3.15	19.4	2.0	2.7	2.0	70.5	0.90	2.10	0.39	83	4.46	0.112
121831	Soil	3.72	13.18	15.91	109.0	59	37.6	5.9	212	2.31	57.7	1.8	0.4	2.1	157.2	0.55	1.65	0.28	70	11.22	0.086
121832	Soil	1.95	11.51	9.79	66.8	41	25.6	5.8	208	1.41	9.5	3.0	0.9	0.9	83.2	0.34	0.57	0.15	17	15.11	0.065
121833	Soil	2.16	11.92	8.64	51.5	73	19.1	5.8	258	1.43	8.9	2.5	1.1	1.6	73.4	0.41	0.65	0.13	23	13.72	0.062
121834	Soil	2.93	22.16	21.92	147.8	117	41.6	12.1	577	3.14	17.6	3.1	2.0	1.7	15.6	0.44	0.93	0.34	49	0.87	0.117
121835	Soil	1.58	11.19	7.60	119.1	34	37.2	5.7	207	1.00	50.4	1.5	0.8	1.1	65.7	0.43	0.70	0.12	25	23.98	0.033
121836	Soil	4.83	52.25	47.39	421.0	40	175.4	18.5	1789	4.35	132.2	4.1	0.8	17.7	23.1	0.65	2.30	0.57	79	2.61	0.079
121837	Soil	5.85	33.74	23.93	318.1	75	124.9	18.3	388	2.74	221.3	7.1	2.0	4.0	35.6	0.55	2.40	0.40	65	7.14	0.129
121838	Soil	4.53	35.24	23.07	305.6	46	118.1	13.1	410	2.94	378.3	9.8	1.5	2.5	46.8	0.57	1.86	0.38	86	13.38	0.149
121839	Soil	3.68	21.76	13.36	171.2	43	66.3	7.8	375	1.45	60.6	13.2	0.5	1.0	104.8	0.65	1.19	0.18	42	17.10	0.151
121840	Soil	2.13	9.65	6.35	40.3	34	11.9	3.6	241	0.71	10.0	4.4	0.8	0.6	123.1	0.28	0.45	0.08	18	18.92	0.062
121841	Soil	4.20	10.31	6.62	23.2	24	13.8	3.9	125	0.81	11.0	4.4	0.5	1.1	119.0	0.16	0.55	0.09	15	19.61	0.047
121842	Soil	0.62	5.76	5.73	42.2	30	10.4	2.7	192	0.54	4.0	0.6	0.4	0.3	47.9	0.45	0.26	0.05	10	18.52	0.032
121843	Soil	3.63	9.54	8.49	37.7	50	15.0	4.2	147	0.99	9.0	4.3	<0.2	0.9	114.7	0.22	0.57	0.14	16	17.26	0.056



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 13, 2011

Page: 9 of 12 Part 2

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WHI11000454.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
121814	Soil	9.6	11.5	4.50	85.4	0.003	4	0.65	0.007	0.05	<0.1	0.5	0.21	0.10	50	0.5	0.05	1.2	1.03	<0.1	<0.02
121815	Soil	5.2	8.2	9.21	20.2	0.002	2	0.15	0.008	0.03	<0.1	0.5	0.26	<0.02	19	0.4	0.15	0.3	0.17	<0.1	<0.02
121816	Soil	9.5	16.8	5.49	95.2	0.006	5	0.86	0.005	0.06	<0.1	1.1	0.54	0.04	55	0.4	0.06	1.8	0.73	<0.1	<0.02
121817	Soil	10.5	10.4	4.16	77.6	0.004	9	0.53	0.006	0.11	<0.1	1.7	0.45	<0.02	16	0.4	0.09	1.8	7.55	<0.1	0.05
121818	Soil	7.6	8.1	5.77	41.5	0.004	7	0.40	0.008	0.10	<0.1	1.1	0.22	<0.02	14	0.2	0.09	1.0	6.08	<0.1	0.03
121819	Soil	11.1	18.7	3.55	129.8	0.006	6	1.22	0.005	0.07	<0.1	1.0	0.35	0.09	39	0.6	0.03	2.5	0.78	<0.1	<0.02
121820	Soil	11.7	20.6	3.64	91.7	0.006	3	1.12	0.004	0.06	<0.1	1.7	0.17	0.05	54	0.5	0.02	2.3	0.72	<0.1	<0.02
121821	Soil	14.2	25.5	1.98	170.9	0.005	4	1.53	0.004	0.09	<0.1	3.1	0.26	0.04	29	0.4	<0.02	4.2	1.14	<0.1	0.04
121822	Soil	6.4	5.2	9.01	24.5	0.003	3	0.19	0.007	0.03	<0.1	0.7	0.42	<0.02	15	0.4	<0.02	0.5	0.47	<0.1	0.02
121823	Soil	9.5	15.6	4.15	73.9	0.012	4	0.84	0.008	0.06	0.1	1.9	0.31	<0.02	414	0.3	0.06	2.0	0.92	<0.1	0.02
121824	Soil	11.9	18.5	4.66	78.7	0.007	4	1.01	0.006	0.07	<0.1	1.5	0.41	0.04	247	0.6	0.03	2.3	1.05	<0.1	0.03
121825	Soil	7.8	16.4	3.35	55.7	0.005	4	0.74	0.006	0.04	<0.1	1.4	0.39	0.03	42	0.4	0.03	1.6	0.65	<0.1	0.03
121826	Soil	2.7	2.1	5.44	8.3	<0.001	2	0.06	0.003	0.01	<0.1	0.3	0.05	<0.02	<5	0.3	0.04	0.1	0.44	<0.1	<0.02
121827	Soil	12.0	21.7	0.22	138.9	0.004	11	0.98	<0.001	0.19	<0.1	2.3	0.97	<0.02	19	0.6	0.14	3.7	11.59	<0.1	0.10
121828	Soil	14.9	29.7	0.44	138.6	0.005	14	0.88	0.002	0.14	<0.1	2.4	1.08	<0.02	141	0.6	0.11	3.8	7.96	<0.1	0.15
121829	Soil	29.7	19.1	0.10	193.4	0.009	12	1.04	0.002	0.09	0.1	3.1	0.56	0.06	35	1.4	0.15	4.2	2.84	<0.1	0.23
121830	Soil	22.1	21.8	0.27	156.7	0.007	6	1.15	0.003	0.11	<0.1	2.7	0.53	0.05	44	0.7	0.06	3.3	4.91	<0.1	0.16
121831	Soil	13.6	15.4	2.53	101.6	0.005	6	0.71	0.005	0.09	<0.1	1.8	0.50	0.02	48	0.4	0.02	2.1	5.88	<0.1	0.08
121832	Soil	8.2	9.4	5.57	113.9	0.003	4	0.36	0.009	0.08	<0.1	1.4	0.72	<0.02	13	0.2	0.07	1.0	0.52	<0.1	0.04
121833	Soil	8.2	12.8	6.03	60.2	0.011	2	0.47	0.008	0.05	0.1	1.7	0.23	<0.02	10	0.4	0.04	1.3	0.39	<0.1	0.03
121834	Soil	19.0	27.5	0.53	304.9	0.006	2	1.74	0.004	0.08	<0.1	2.9	0.91	0.08	20	0.6	0.09	4.5	1.05	<0.1	0.10
121835	Soil	5.0	6.9	4.26	47.1	0.003	2	0.28	0.005	0.06	<0.1	1.2	0.36	<0.02	16	0.3	0.04	0.9	1.30	<0.1	0.04
121836	Soil	31.3	12.7	0.15	319.7	0.031	1	1.71	<0.001	0.09	0.1	9.2	3.33	<0.02	196	0.3	0.15	9.0	2.21	<0.1	0.02
121837	Soil	13.2	20.3	0.41	101.6	0.008	4	1.02	0.005	0.15	0.2	2.8	0.68	<0.02	41	0.2	0.21	2.8	5.03	<0.1	0.11
121838	Soil	13.2	16.8	0.52	134.4	0.004	3	0.90	0.003	0.14	0.2	2.5	0.68	<0.02	24	0.3	0.11	2.1	4.48	<0.1	0.07
121839	Soil	8.9	9.7	5.19	83.8	0.004	4	0.44	0.009	0.08	<0.1	1.3	0.93	<0.02	16	0.3	0.09	1.3	1.07	<0.1	0.06
121840	Soil	6.8	6.7	8.36	44.3	0.003	4	0.35	0.010	0.05	<0.1	0.7	0.24	<0.02	8	0.3	0.08	0.7	0.51	<0.1	0.04
121841	Soil	4.8	6.2	8.38	39.7	0.003	4	0.18	0.012	0.06	<0.1	1.0	0.43	<0.02	<5	0.2	0.06	0.5	1.39	<0.1	<0.02
121842	Soil	6.5	4.9	9.06	30.8	0.002	2	0.27	0.008	0.03	<0.1	0.5	0.11	<0.02	8	0.2	0.07	0.6	0.30	<0.1	<0.02
121843	Soil	6.6	9.1	7.48	65.0	0.003	6	0.39	0.011	0.07	<0.1	1.0	0.23	<0.02	5	0.2	0.05	0.9	0.50	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 9 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD	7TD	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Pb	Zn	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.02	0.01	
121814	Soil	0.19	5.4	1.0	<0.05	0.4	7.96	15.8	<0.02	<1	0.4	2.8	<10	<2	N.A.	N.A.
121815	Soil	0.06	1.5	1.8	<0.05	0.5	8.60	6.4	<0.02	2	0.2	0.7	<10	<2	N.A.	N.A.
121816	Soil	0.19	4.8	0.5	<0.05	0.6	12.51	16.5	<0.02	<1	0.4	4.8	13	<2	N.A.	N.A.
121817	Soil	0.18	9.3	1.1	<0.05	2.8	9.09	23.5	<0.02	<1	0.6	7.4	<10	<2	N.A.	N.A.
121818	Soil	0.11	7.3	0.5	<0.05	1.0	6.60	16.4	<0.02	<1	0.6	3.7	<10	<2	N.A.	N.A.
121819	Soil	0.23	6.9	0.7	<0.05	0.8	14.02	20.9	<0.02	2	0.9	10.4	12	<2	N.A.	N.A.
121820	Soil	0.30	5.8	0.5	<0.05	0.9	11.27	21.4	0.03	<1	0.5	11.1	<10	<2	N.A.	N.A.
121821	Soil	0.49	10.1	0.7	<0.05	1.4	10.99	28.5	0.02	2	0.7	15.8	<10	<2	N.A.	N.A.
121822	Soil	0.09	2.0	0.3	<0.05	0.9	5.49	7.3	<0.02	1	0.2	1.6	<10	<2	N.A.	N.A.
121823	Soil	0.26	5.4	0.7	<0.05	0.8	7.39	18.6	<0.02	<1	0.5	7.5	<10	<2	N.A.	N.A.
121824	Soil	0.22	6.4	0.8	<0.05	1.0	10.68	19.9	<0.02	2	1.1	8.4	<10	<2	N.A.	N.A.
121825	Soil	0.29	3.5	0.7	<0.05	1.0	8.63	17.6	0.02	1	0.1	5.9	<10	<2	N.A.	N.A.
121826	Soil	0.02	0.7	0.4	<0.05	0.7	2.68	5.6	0.02	<1	<0.1	0.2	<10	<2	N.A.	N.A.
121827	Soil	0.30	17.0	1.2	<0.05	4.3	11.14	31.1	0.04	2	1.9	8.1	14	<2	N.A.	N.A.
121828	Soil	0.20	13.2	1.1	<0.05	8.2	12.57	35.5	0.04	<1	2.0	11.5	<10	<2	N.A.	N.A.
121829	Soil	0.74	9.2	1.9	<0.05	6.6	30.17	66.5	0.05	2	1.8	15.2	<10	<2	N.A.	N.A.
121830	Soil	0.39	12.4	1.1	<0.05	4.3	22.70	45.0	0.04	2	1.1	11.7	<10	2	N.A.	N.A.
121831	Soil	0.31	7.7	0.7	<0.05	2.6	9.25	31.6	0.02	2	0.7	5.1	<10	<2	N.A.	N.A.
121832	Soil	0.09	4.3	0.5	<0.05	1.3	9.91	16.7	<0.02	2	0.3	3.1	10	<2	N.A.	N.A.
121833	Soil	0.20	3.5	0.4	<0.05	1.2	8.13	16.3	<0.02	<1	0.5	5.0	<10	<2	N.A.	N.A.
121834	Soil	0.46	8.6	0.7	<0.05	2.8	22.28	35.6	0.04	1	0.8	11.4	<10	<2	N.A.	N.A.
121835	Soil	0.14	2.8	0.7	<0.05	1.5	6.12	11.7	<0.02	<1	0.5	2.5	<10	<2	N.A.	N.A.
121836	Soil	0.37	6.8	2.3	<0.05	5.1	28.23	98.5	0.06	<1	2.5	16.9	28	4	N.A.	N.A.
121837	Soil	0.29	8.7	1.0	<0.05	3.6	11.61	34.3	0.03	2	0.9	8.4	13	<2	N.A.	N.A.
121838	Soil	0.20	8.5	0.9	<0.05	2.5	13.16	37.0	0.02	2	1.1	7.3	19	2	N.A.	N.A.
121839	Soil	0.16	3.9	0.5	<0.05	2.1	8.71	21.7	<0.02	2	0.4	4.3	<10	<2	N.A.	N.A.
121840	Soil	0.07	2.9	0.2	<0.05	1.3	5.78	12.4	<0.02	5	0.3	2.2	<10	<2	N.A.	N.A.
121841	Soil	0.05	3.2	0.3	<0.05	1.1	4.79	9.5	<0.02	2	0.2	2.3	<10	<2	N.A.	N.A.
121842	Soil	0.06	2.0	0.3	<0.05	0.9	5.89	8.8	<0.02	<1	0.3	2.4	<10	<2	N.A.	N.A.
121843	Soil	0.10	3.8	0.5	<0.05	1.6	6.37	13.3	<0.02	<1	0.2	3.0	<10	<2	N.A.	N.A.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	MDL	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
121844	Soil	1.57	12.23	10.27	61.0	59	21.5	6.0	222	1.62	8.6	1.8	0.7	1.3	97.1	0.27	0.46	0.18	20	14.40	0.090
121845	Soil	1.70	5.98	5.35	30.7	14	12.8	3.0	117	0.77	5.8	2.8	0.4	0.8	98.5	0.22	0.38	0.07	10	23.15	0.037
121846	Soil	1.77	13.07	12.99	127.7	28	51.5	7.0	350	1.24	40.1	4.3	0.5	3.1	84.3	1.06	0.71	0.14	28	25.55	0.062
121847	Soil	1.72	12.40	11.38	129.8	23	52.2	6.7	350	1.21	39.4	4.1	<0.2	2.9	82.0	0.99	0.70	0.13	29	25.72	0.063
121848	Soil	3.08	20.42	14.74	261.7	29	98.3	8.2	476	1.65	98.4	8.8	0.5	4.4	71.9	1.32	1.16	0.19	46	23.23	0.131
121849	Soil	2.20	14.00	10.06	172.9	15	71.2	5.7	307	1.15	73.8	4.7	<0.2	2.8	63.9	0.76	0.84	0.12	33	24.08	0.066
121850	Soil	2.00	16.09	11.70	180.2	28	69.1	7.5	366	1.31	52.5	4.1	<0.2	3.3	81.8	0.93	0.84	0.14	34	27.90	0.060
121857	Soil	1.14	12.42	29.26	128.2	160	19.3	8.5	1573	2.68	13.8	2.3	0.8	1.1	32.2	0.43	0.62	0.28	38	3.25	0.153
121858	Soil	1.87	40.13	63.65	170.3	403	40.9	15.7	1192	6.74	8.6	2.1	1.3	5.6	36.9	0.46	0.46	0.48	23	0.41	0.086
121859	Soil	0.90	23.23	17.67	125.1	227	24.6	8.5	360	2.58	10.5	9.0	1.5	1.4	59.4	0.62	0.59	0.24	44	1.33	0.083
121860	Soil	0.95	30.90	30.17	132.6	253	30.6	11.8	349	2.95	11.0	1.9	3.9	3.5	74.7	0.43	0.61	0.25	37	1.04	0.059
121861	Soil	0.78	25.02	32.61	133.1	200	21.0	8.4	617	2.28	9.5	2.1	1.8	1.1	40.2	0.49	0.62	0.24	23	2.64	0.099
121862	Soil	1.04	20.91	55.52	322.6	206	19.6	8.4	1189	2.39	11.8	1.8	0.8	1.4	47.7	1.14	0.77	0.21	23	7.79	0.106
121863	Soil	0.90	18.75	32.49	123.5	134	21.2	9.1	596	2.95	12.7	3.3	1.1	1.7	36.0	0.36	0.77	0.28	31	1.16	0.095
121864	Soil	0.97	18.52	22.09	83.8	71	21.6	8.2	367	2.68	12.5	1.8	1.7	1.7	31.3	0.23	0.58	0.27	30	0.82	0.069
121865	Soil	1.15	22.96	24.99	92.2	120	19.6	9.9	435	2.21	13.8	1.1	0.6	3.2	99.1	0.33	0.67	0.20	18	7.98	0.062
121866	Soil	1.90	24.01	20.88	126.7	146	30.7	11.6	542	2.98	25.8	2.0	2.2	1.5	104.5	0.54	0.91	0.32	60	1.42	0.112
121867	Soil	1.26	24.05	20.79	105.8	134	25.2	10.3	397	2.72	20.1	2.0	1.7	1.4	34.5	0.38	0.68	0.29	37	1.37	0.069
121868	Soil	3.31	22.90	18.39	118.2	134	34.0	9.8	377	3.02	29.5	2.2	1.5	2.0	130.6	0.38	0.99	0.29	76	1.01	0.115
121869	Soil	3.70	24.70	21.98	148.4	161	41.8	10.0	437	3.03	41.9	4.2	2.2	1.9	200.0	0.46	1.24	0.31	93	1.56	0.206
121870	Soil	2.63	22.52	19.09	92.5	138	29.1	10.0	387	2.33	17.6	1.2	2.0	2.3	154.0	0.45	0.93	0.28	43	4.16	0.078
121871	Soil	1.57	21.90	18.79	105.1	122	26.9	10.8	485	2.33	16.3	2.3	2.6	1.5	153.2	0.50	0.82	0.27	46	1.40	0.087
121872	Soil	1.45	20.66	21.03	92.2	143	27.2	10.8	553	2.81	18.3	3.0	1.7	1.3	67.5	0.48	0.84	0.29	50	1.10	0.089
121873	Soil	1.70	16.01	16.09	72.0	120	24.0	8.5	342	2.33	16.6	1.1	2.3	1.6	82.3	0.38	0.71	0.26	44	4.80	0.067
121874	Soil	2.17	23.11	18.08	96.6	149	33.3	10.5	406	2.77	56.6	1.1	1.9	1.9	142.3	0.37	0.83	0.28	51	3.11	0.083
121875	Soil	1.84	18.16	13.79	90.8	124	25.4	8.0	349	2.05	70.0	1.1	1.2	1.1	228.2	0.50	0.71	0.19	43	5.41	0.080
121876	Soil	1.78	20.48	15.28	105.1	134	28.1	8.5	351	2.21	62.4	1.2	2.3	1.5	238.6	0.60	0.81	0.22	52	4.12	0.089
121877	Soil	1.52	21.64	17.74	106.1	159	29.0	9.9	345	2.49	42.2	1.1	1.4	2.0	267.8	0.45	0.78	0.26	56	2.37	0.093
121878	Soil	1.64	18.82	16.53	118.9	133	31.3	8.0	347	1.99	50.1	1.5	1.8	1.5	523.4	0.61	0.94	0.24	62	3.49	0.133
121879	Soil	1.39	20.98	17.32	127.2	172	27.7	10.3	510	2.46	38.2	1.6	1.4	1.0	240.5	0.82	0.82	0.27	57	2.31	0.108



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 13, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
121844	Soil	12.8	15.8	5.03	105.9	0.005	9	0.80	0.013	0.12	<0.1	1.8	0.23	<0.02	<5	0.5	0.05	1.6	0.47	<0.1	0.04
121845	Soil	4.5	4.8	7.83	42.8	0.002	2	0.18	0.009	0.05	<0.1	0.9	0.25	<0.02	13	<0.1	0.08	0.4	0.29	<0.1	0.03
121846	Soil	8.3	6.5	3.28	82.5	0.004	<1	0.43	0.005	0.06	<0.1	1.8	0.75	<0.02	49	0.2	0.06	1.5	1.23	<0.1	0.13
121847	Soil	8.8	5.6	3.62	81.7	0.005	2	0.42	0.005	0.06	<0.1	1.8	0.75	<0.02	27	0.3	0.12	1.4	1.24	<0.1	0.09
121848	Soil	12.5	8.5	2.46	102.4	0.005	2	0.76	0.004	0.10	<0.1	2.3	1.30	<0.02	42	0.3	0.12	1.8	2.88	<0.1	0.09
121849	Soil	8.5	5.7	5.09	53.4	0.004	2	0.40	0.005	0.07	<0.1	1.6	0.79	<0.02	22	0.4	0.12	1.1	2.00	<0.1	0.09
121850	Soil	9.5	7.1	2.12	79.6	0.005	1	0.43	0.004	0.08	<0.1	2.2	0.84	<0.02	29	<0.1	0.06	1.5	1.99	<0.1	0.15
121857	Soil	12.4	23.6	1.90	135.8	0.009	2	1.52	0.004	0.06	0.1	1.8	0.22	0.07	58	0.4	0.08	4.0	1.17	<0.1	0.04
121858	Soil	7.7	18.4	0.18	134.8	0.003	3	0.83	0.006	0.15	<0.1	5.3	0.64	0.22	91	0.9	0.09	2.4	2.35	<0.1	0.06
121859	Soil	23.4	35.6	1.60	104.9	0.013	4	1.84	0.003	0.10	<0.1	2.7	0.18	0.07	95	1.0	0.03	5.5	2.21	<0.1	0.04
121860	Soil	19.4	39.0	1.04	122.0	0.011	5	1.38	0.003	0.12	<0.1	6.0	0.26	0.03	120	1.3	0.04	4.2	9.28	<0.1	0.06
121861	Soil	10.6	19.9	1.23	235.6	0.005	5	1.18	0.005	0.10	<0.1	2.3	0.19	0.09	79	0.7	<0.02	3.0	1.69	<0.1	0.04
121862	Soil	10.6	18.3	4.14	123.4	0.005	3	1.11	0.006	0.09	<0.1	2.5	0.18	0.03	364	0.4	0.05	2.7	1.04	<0.1	0.03
121863	Soil	12.8	24.0	0.54	227.7	0.005	2	1.49	0.003	0.07	<0.1	3.7	0.14	0.08	77	0.5	0.08	4.1	1.07	<0.1	0.05
121864	Soil	11.3	25.1	0.56	226.0	0.006	1	1.35	0.002	0.07	<0.1	3.1	0.16	0.05	19	0.1	<0.02	4.0	1.26	<0.1	0.05
121865	Soil	8.5	14.4	3.36	65.2	0.003	3	0.49	0.007	0.09	<0.1	3.4	0.17	<0.02	39	0.4	0.05	1.6	1.71	<0.1	0.04
121866	Soil	15.2	26.9	0.58	137.2	0.008	7	1.44	0.007	0.08	0.1	2.7	0.30	0.05	55	0.7	0.04	3.8	3.86	<0.1	0.06
121867	Soil	11.1	21.4	0.48	104.8	0.005	2	1.23	0.006	0.07	<0.1	2.8	0.19	0.08	56	0.6	0.02	3.5	1.26	<0.1	0.03
121868	Soil	16.3	26.7	0.42	131.6	0.007	4	1.38	0.007	0.09	0.1	2.7	0.32	0.06	64	0.7	0.05	4.0	4.27	<0.1	0.07
121869	Soil	19.0	24.7	0.41	150.8	0.008	8	1.34	0.007	0.09	<0.1	2.9	0.32	0.08	75	0.6	0.07	4.2	4.82	<0.1	0.09
121870	Soil	15.1	22.5	2.13	106.0	0.008	8	1.16	0.009	0.13	<0.1	2.8	0.44	0.04	47	0.5	0.05	3.2	3.91	<0.1	0.04
121871	Soil	16.7	24.4	0.45	113.1	0.007	9	1.28	0.008	0.11	<0.1	2.3	0.37	0.09	47	0.4	<0.02	3.5	4.03	<0.1	0.04
121872	Soil	13.8	26.3	0.43	148.4	0.009	3	1.49	0.007	0.08	<0.1	2.5	0.21	0.08	49	0.7	0.05	4.4	2.33	<0.1	0.05
121873	Soil	12.9	20.5	2.35	109.1	0.011	5	1.17	0.009	0.06	0.1	2.7	0.15	0.02	46	0.4	0.08	2.9	1.57	<0.1	0.02
121874	Soil	14.9	23.2	1.62	152.7	0.008	8	1.25	0.009	0.11	<0.1	2.8	0.21	0.06	67	0.5	0.03	3.8	3.13	<0.1	0.06
121875	Soil	11.9	18.8	2.81	97.7	0.008	9	0.97	0.010	0.11	0.1	2.0	0.36	0.05	45	0.6	0.04	2.6	3.39	<0.1	0.04
121876	Soil	14.2	20.3	2.10	130.7	0.011	8	1.08	0.010	0.09	0.1	2.5	0.34	0.05	50	0.6	0.04	3.1	6.15	<0.1	0.06
121877	Soil	17.0	25.1	1.18	164.9	0.010	8	1.37	0.009	0.10	<0.1	3.1	0.35	0.05	62	0.3	0.03	3.7	6.08	<0.1	0.06
121878	Soil	17.0	19.9	1.63	146.5	0.009	11	1.17	0.008	0.10	<0.1	2.1	0.61	0.07	63	0.4	0.09	3.1	7.89	<0.1	0.07
121879	Soil	14.9	23.2	0.85	156.0	0.009	7	1.36	0.009	0.10	0.1	2.3	0.35	0.09	70	0.8	0.06	3.7	5.65	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 10 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt	7TD Pb	7TD Zn
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.02	0.01
121844	Soil			0.14	6.7	0.5	<0.05	1.4	10.77	26.1	<0.02	2	0.6	5.8	<10	<2	N.A.	N.A.
121845	Soil			0.05	2.1	0.3	<0.05	0.7	5.89	8.7	<0.02	1	0.2	1.4	<10	<2	N.A.	N.A.
121846	Soil			0.05	3.5	1.8	<0.05	7.6	11.87	20.7	<0.02	2	0.7	3.5	11	<2	N.A.	N.A.
121847	Soil			0.07	3.3	1.0	<0.05	7.3	11.74	21.0	<0.02	<1	0.4	3.1	<10	<2	N.A.	N.A.
121848	Soil			0.06	5.7	0.9	<0.05	7.9	15.46	30.2	<0.02	1	0.9	4.8	<10	<2	N.A.	N.A.
121849	Soil			0.05	3.5	1.1	<0.05	7.7	9.29	19.5	<0.02	2	0.4	3.0	<10	2	N.A.	N.A.
121850	Soil			0.06	3.9	0.7	<0.05	9.2	11.58	22.5	<0.02	3	0.5	3.9	13	<2	N.A.	N.A.
121857	Soil			0.32	7.6	0.9	<0.05	1.0	10.95	23.2	0.02	<1	0.7	12.8	<10	<2	N.A.	N.A.
121858	Soil			0.12	9.3	0.6	<0.05	2.2	16.28	24.9	0.04	<1	1.1	7.8	<10	<2	N.A.	N.A.
121859	Soil			0.57	13.4	0.7	<0.05	1.8	11.97	46.3	0.03	2	0.9	44.3	<10	<2	N.A.	N.A.
121860	Soil			0.45	16.0	0.8	<0.05	2.9	15.21	34.5	0.03	2	0.7	24.0	<10	<2	N.A.	N.A.
121861	Soil			0.41	9.2	0.5	<0.05	1.7	11.36	19.6	0.03	<1	1.0	13.4	10	<2	N.A.	N.A.
121862	Soil			0.24	6.4	0.7	<0.05	1.2	10.63	22.0	0.03	<1	0.6	12.7	23	<2	N.A.	N.A.
121863	Soil			0.48	8.7	0.7	<0.05	1.7	12.15	26.9	0.05	<1	0.9	17.0	<10	<2	N.A.	N.A.
121864	Soil			0.37	9.5	0.6	<0.05	1.5	9.24	25.5	<0.02	<1	0.8	17.0	<10	<2	N.A.	N.A.
121865	Soil			0.11	6.0	0.7	<0.05	1.7	9.71	19.0	<0.02	1	0.5	9.0	<10	<2	N.A.	N.A.
121866	Soil			0.53	11.4	0.6	<0.05	1.9	12.69	31.7	0.04	<1	0.5	14.3	<10	<2	N.A.	N.A.
121867	Soil			0.46	7.1	0.5	<0.05	1.7	10.67	22.9	0.04	<1	0.9	14.3	<10	<2	N.A.	N.A.
121868	Soil			0.52	11.4	0.6	<0.05	2.1	12.16	33.2	0.03	<1	1.3	11.5	<10	<2	N.A.	N.A.
121869	Soil			0.65	9.9	0.6	<0.05	2.9	14.98	34.8	0.04	<1	1.1	13.1	17	2	N.A.	N.A.
121870	Soil			0.41	9.8	0.6	<0.05	1.5	10.85	33.2	0.02	<1	0.8	10.2	<10	<2	N.A.	N.A.
121871	Soil			0.54	10.7	0.5	<0.05	1.4	11.73	34.9	0.02	<1	0.9	10.7	<10	<2	N.A.	N.A.
121872	Soil			0.60	8.5	0.5	<0.05	1.4	10.34	30.8	0.03	<1	0.5	13.0	<10	<2	N.A.	N.A.
121873	Soil			0.31	6.4	0.5	<0.05	0.9	10.51	27.1	0.02	<1	0.7	10.3	<10	<2	N.A.	N.A.
121874	Soil			0.49	8.6	0.6	<0.05	2.2	11.62	31.1	0.03	<1	1.1	12.1	12	2	N.A.	N.A.
121875	Soil			0.34	8.0	0.7	<0.05	1.2	9.72	25.3	<0.02	<1	1.0	8.2	<10	<2	N.A.	N.A.
121876	Soil			0.48	9.2	0.6	<0.05	1.8	10.71	30.3	0.03	<1	0.9	11.7	<10	2	N.A.	N.A.
121877	Soil			0.52	10.5	0.9	<0.05	1.9	12.26	34.2	<0.02	1	0.6	13.2	<10	<2	N.A.	N.A.
121878	Soil			0.45	10.5	0.7	<0.05	2.5	12.03	34.8	0.02	<1	0.9	10.4	<10	<2	N.A.	N.A.
121879	Soil			0.56	10.9	0.5	<0.05	1.5	11.50	30.0	0.03	<1	0.8	12.4	<10	<2	N.A.	N.A.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
121880	Soil	1.77	20.64	18.50	129.8	138	29.9	10.1	489	2.42	50.1	1.4	1.3	1.3	149.7	0.70	0.78	0.24	46	3.32	0.089
121881	Soil	2.60	27.42	22.51	134.1	125	37.7	12.0	387	2.91	75.3	3.4	1.3	1.7	83.0	0.70	0.84	0.30	39	1.66	0.080
121882	Soil	1.37	23.12	19.88	110.6	140	27.3	9.8	399	2.55	44.7	1.6	1.5	1.6	58.0	0.44	0.68	0.25	34	3.27	0.072
121883	Soil	1.66	14.71	40.90	134.0	30	26.3	15.8	1163	4.88	16.8	2.1	1.3	7.1	15.5	0.43	0.47	0.38	42	0.12	0.075
121884	Soil	1.39	13.22	11.28	119.9	78	19.5	5.3	320	1.47	28.9	1.9	0.5	0.7	163.1	0.50	0.60	0.16	43	6.73	0.098
121907	Soil	1.16	16.05	22.09	95.1	45	10.1	12.9	1287	3.04	5.9	0.4	<0.2	3.4	7.7	0.22	0.55	0.43	48	0.06	0.033
121908	Soil	0.65	38.70	42.98	105.7	51	27.5	26.3	1468	4.68	6.2	0.8	1.5	4.6	12.3	0.10	0.27	0.55	32	0.06	0.051
121909	Soil	0.78	19.23	13.56	146.9	126	22.7	13.9	574	4.20	6.5	0.6	0.7	4.3	11.2	0.17	0.38	0.54	42	0.07	0.050
121910	Soil	0.60	25.97	15.57	121.3	90	27.6	19.6	1594	4.10	2.9	0.6	0.9	4.0	13.4	0.25	0.23	0.42	29	0.06	0.061
121911	Soil	0.70	19.47	23.54	84.0	151	16.9	7.0	323	4.11	5.8	0.5	0.6	3.0	7.0	0.11	0.34	0.39	41	0.04	0.050
121912	Soil	0.75	12.82	15.79	70.3	268	16.6	9.0	337	3.18	4.8	0.5	1.2	4.2	7.6	0.10	0.33	0.33	41	0.04	0.028
121913	Soil	0.98	12.88	19.89	78.9	64	22.3	10.1	324	3.52	7.7	0.6	0.6	4.7	7.2	0.07	0.42	0.37	49	0.05	0.019
121914	Soil	0.61	20.52	27.52	71.5	64	29.0	14.2	355	4.04	6.4	0.6	0.8	5.2	7.1	0.06	0.23	0.47	37	0.02	0.012
121915	Soil	0.79	23.11	20.95	92.1	111	20.1	17.9	1304	4.91	8.7	0.5	0.5	3.9	5.9	0.11	0.31	0.51	44	0.02	0.056
121916	Soil	0.65	10.89	19.89	123.3	83	20.9	10.7	311	2.89	3.1	0.3	<0.2	4.2	12.3	0.12	0.15	0.39	26	0.09	0.028
121917	Soil	0.62	17.80	19.94	77.9	228	9.3	5.3	397	2.48	3.5	0.5	0.4	3.1	7.0	0.26	0.28	0.33	39	0.04	0.042
121918	Soil	0.51	22.31	28.39	112.5	142	25.4	26.1	1811	3.69	4.4	0.8	0.9	4.0	19.1	0.09	0.23	0.46	33	0.12	0.065
121919	Soil	0.42	13.93	14.37	93.8	115	17.8	9.2	330	3.09	4.0	0.5	0.3	3.4	5.9	0.08	0.21	0.36	34	0.02	0.030
121920	Soil	7.26	14.58	17.48	82.0	180	20.9	7.8	602	2.66	17.0	5.1	3.4	0.9	23.6	0.61	0.89	0.29	84	1.20	0.258
121921	Soil	2.52	13.35	6.31	33.7	255	9.0	3.1	337	1.25	13.1	6.7	1.9	0.5	43.1	0.27	0.40	0.08	47	8.45	0.253
121922	Soil	9.38	9.89	7.27	53.5	282	19.3	3.5	165	1.29	39.6	2.6	0.7	0.9	72.2	0.52	1.03	0.06	27	12.10	0.068
121923	Soil	3.55	13.03	13.52	59.0	50	16.7	7.3	334	2.53	12.7	1.5	3.3	0.7	18.4	0.24	0.80	0.28	60	0.94	0.108
121924	Soil	3.76	11.81	12.50	53.4	21	13.1	5.2	266	2.20	9.7	0.9	1.1	0.3	11.2	0.13	0.87	0.28	71	0.26	0.056
121925	Soil	2.23	10.00	14.40	61.7	29	15.2	5.8	279	2.71	11.3	2.7	1.1	0.2	12.8	0.14	0.72	0.27	67	0.37	0.084
121926	Soil	30.39	9.19	10.71	56.1	317	16.0	5.1	409	2.37	13.2	12.7	1.7	0.8	61.2	0.51	1.06	0.15	70	8.00	0.392
121927	Soil	3.15	13.30	13.97	63.6	90	23.8	8.9	401	2.88	14.6	2.4	0.4	1.4	15.7	0.19	0.78	0.26	60	0.53	0.112
121928	Soil	1.94	14.77	13.04	77.4	61	28.4	10.9	535	2.71	13.8	1.0	1.0	2.2	17.3	0.16	0.80	0.23	43	1.44	0.061
121929	Soil	1.29	20.11	17.83	76.5	181	27.8	9.7	528	2.92	12.0	1.6	1.7	4.1	11.3	0.24	0.73	0.23	32	0.36	0.056
121930	Soil	1.40	11.62	13.04	61.7	139	17.1	7.6	464	2.09	9.4	4.2	1.4	1.0	34.1	0.25	0.60	0.18	38	6.64	0.208
121931	Soil	1.64	8.59	15.35	50.1	21	14.1	5.9	317	2.61	9.4	0.5	1.2	2.1	11.5	0.09	0.43	0.25	47	0.24	0.032



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 13, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
121880	Soil	12.4	22.0	1.61	161.9	0.007	4	1.21	0.008	0.09	<0.1	2.4	0.86	0.07	59	0.6	0.04	3.3	4.98	<0.1	0.05
121881	Soil	12.2	25.2	0.75	260.4	0.005	5	1.54	0.006	0.15	<0.1	3.2	1.83	0.07	57	0.6	0.03	4.4	8.40	<0.1	0.06
121882	Soil	11.5	21.7	1.62	202.0	0.009	7	1.30	0.008	0.12	<0.1	2.9	0.87	0.06	53	0.5	<0.02	3.6	3.16	<0.1	0.06
121883	Soil	11.5	43.6	0.45	86.4	0.004	4	2.57	0.004	0.09	<0.1	4.1	0.21	0.03	56	0.5	0.06	6.5	2.14	<0.1	0.06
121884	Soil	8.7	14.3	3.69	100.4	0.006	6	0.82	0.009	0.07	<0.1	1.4	0.39	0.10	52	0.2	<0.02	1.9	2.91	<0.1	0.04
121907	Soil	9.1	17.6	0.09	138.2	0.006	1	1.18	0.004	0.10	<0.1	1.7	0.11	<0.02	33	0.3	0.03	7.1	1.31	<0.1	<0.02
121908	Soil	6.4	37.0	0.48	197.8	0.004	2	2.21	0.007	0.15	<0.1	4.7	0.16	0.02	35	0.4	<0.02	8.1	4.02	<0.1	0.05
121909	Soil	6.8	31.3	0.38	420.7	0.006	2	2.00	0.006	0.16	<0.1	3.0	0.15	<0.02	44	0.3	<0.02	7.1	3.18	<0.1	0.05
121910	Soil	5.5	32.1	0.41	168.8	0.002	2	2.08	0.005	0.12	<0.1	3.4	0.11	0.02	29	0.2	<0.02	7.1	2.88	<0.1	0.06
121911	Soil	5.7	25.7	0.28	112.7	0.004	2	1.71	0.005	0.13	<0.1	2.7	0.12	0.02	29	0.4	0.05	8.1	1.66	<0.1	0.02
121912	Soil	9.2	28.2	0.36	83.9	0.007	<1	1.87	0.004	0.11	<0.1	2.5	0.12	<0.02	38	0.2	0.04	6.4	1.44	<0.1	0.04
121913	Soil	9.1	28.7	0.40	81.8	0.011	1	2.03	0.005	0.10	0.1	3.1	0.12	<0.02	23	0.4	0.04	7.0	1.50	<0.1	0.03
121914	Soil	5.7	33.3	0.48	123.0	0.005	2	2.28	0.006	0.12	<0.1	3.7	0.15	<0.02	19	0.2	0.05	8.2	2.11	<0.1	0.05
121915	Soil	4.8	38.5	0.36	69.2	0.006	2	1.81	0.006	0.12	<0.1	3.4	0.10	0.02	37	0.3	0.02	9.6	2.14	<0.1	0.04
121916	Soil	6.1	30.8	0.41	231.4	0.002	1	2.01	0.004	0.23	<0.1	2.6	0.14	<0.02	29	0.1	<0.02	7.3	1.32	<0.1	0.04
121917	Soil	9.8	18.7	0.12	142.8	0.006	<1	1.48	0.004	0.09	<0.1	2.1	0.11	<0.02	30	0.3	<0.02	6.3	1.00	<0.1	0.02
121918	Soil	5.5	29.5	0.40	264.3	0.003	3	1.91	0.005	0.19	<0.1	4.0	0.16	0.03	33	0.4	0.02	6.8	1.84	<0.1	0.08
121919	Soil	5.3	26.5	0.32	141.5	0.002	1	1.98	0.004	0.17	<0.1	2.7	0.15	<0.02	15	0.1	<0.02	7.5	1.20	<0.1	0.04
121920	Soil	10.6	28.3	0.59	221.8	0.016	1	1.88	0.007	0.05	0.2	2.1	0.26	0.05	54	0.5	0.04	6.5	1.37	<0.1	<0.02
121921	Soil	4.9	12.2	5.41	75.6	0.008	3	0.49	0.008	0.04	<0.1	1.3	0.26	<0.02	29	0.6	0.02	1.3	0.40	<0.1	<0.02
121922	Soil	4.5	7.6	7.84	64.9	<0.001	3	0.13	0.009	0.05	<0.1	1.9	0.37	<0.02	28	0.7	<0.02	0.3	0.40	<0.1	0.03
121923	Soil	9.1	26.7	0.50	300.4	0.014	2	1.60	0.003	0.04	0.2	1.8	0.20	0.06	35	0.3	0.06	6.0	1.27	<0.1	0.02
121924	Soil	10.1	21.9	0.26	166.9	0.014	<1	1.81	0.001	0.02	0.2	1.2	0.24	0.02	17	0.2	0.08	7.2	1.06	<0.1	<0.02
121925	Soil	11.5	25.1	0.41	137.7	0.014	2	1.82	0.002	0.04	0.2	1.0	0.21	0.02	21	0.2	0.08	6.4	1.61	<0.1	<0.02
121926	Soil	11.2	29.4	3.79	137.6	0.016	2	1.46	0.008	0.06	0.2	2.2	0.26	0.05	41	0.8	0.06	3.4	1.02	<0.1	0.02
121927	Soil	16.8	33.2	0.55	207.2	0.019	2	2.40	0.003	0.05	0.2	3.3	0.18	0.03	37	0.4	0.08	5.7	1.71	<0.1	<0.02
121928	Soil	16.8	31.3	1.18	169.3	0.025	<1	1.86	0.007	0.06	0.2	3.5	0.16	<0.02	29	0.2	0.04	4.5	1.64	<0.1	<0.02
121929	Soil	18.8	31.8	0.53	180.6	0.012	2	1.79	0.005	0.08	0.2	5.4	0.12	0.03	35	0.3	0.10	3.8	1.30	<0.1	0.04
121930	Soil	11.9	24.5	3.64	148.6	0.010	3	1.44	0.008	0.08	0.2	2.3	0.12	0.05	33	0.3	0.08	3.1	0.96	<0.1	<0.02
121931	Soil	10.2	21.6	0.33	175.6	0.010	2	1.45	0.002	0.07	0.2	2.1	0.19	<0.02	9	0.2	0.04	5.6	2.03	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 11 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD	7TD	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Pb	Zn
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppb	%	%
121880	Soil	0.48	9.3	0.5	<0.05	1.7	11.30	26.7	0.03	<1	0.9	11.1	<10	<2	N.A.	N.A.
121881	Soil	0.48	15.3	0.7	<0.05	2.4	10.00	25.4	0.03	<1	1.1	15.4	<10	<2	N.A.	N.A.
121882	Soil	0.47	11.4	0.4	<0.05	1.4	8.86	23.2	0.03	<1	0.6	14.4	<10	<2	N.A.	N.A.
121883	Soil	0.67	15.3	0.8	<0.05	3.6	7.35	47.0	0.07	<1	1.7	34.3	<10	<2	N.A.	N.A.
121884	Soil	0.40	6.5	0.6	<0.05	1.8	7.46	19.5	<0.02	<1	0.3	5.5	<10	<2	N.A.	N.A.
121907	Soil	0.47	19.6	1.1	<0.05	0.5	2.75	18.6	0.02	<1	0.6	7.0	<10	<2	N.A.	N.A.
121908	Soil	0.33	24.0	1.1	<0.05	2.0	6.24	20.7	0.06	<1	2.1	39.3	<10	<2	N.A.	N.A.
121909	Soil	0.72	25.1	1.2	<0.05	2.0	3.01	16.0	0.03	<1	1.2	35.6	<10	<2	N.A.	N.A.
121910	Soil	0.34	22.6	1.2	<0.05	2.4	4.58	13.8	0.03	<1	1.7	32.6	<10	3	N.A.	N.A.
121911	Soil	0.63	19.8	1.3	<0.05	1.0	3.11	12.9	<0.02	<1	1.1	21.1	<10	<2	N.A.	N.A.
121912	Soil	0.55	17.8	1.1	<0.05	1.6	2.42	18.7	0.04	<1	0.3	25.5	<10	<2	N.A.	N.A.
121913	Soil	0.64	14.3	1.0	<0.05	2.6	2.84	18.5	0.03	<1	0.5	32.4	<10	<2	N.A.	N.A.
121914	Soil	0.31	21.3	1.3	<0.05	2.7	3.73	12.5	0.03	<1	0.5	38.4	<10	<2	N.A.	N.A.
121915	Soil	0.58	20.5	1.1	<0.05	1.6	2.98	10.8	0.03	<1	0.8	21.5	<10	<2	N.A.	N.A.
121916	Soil	0.26	25.9	1.4	<0.05	1.3	1.93	13.8	<0.02	<1	1.5	29.4	<10	<2	N.A.	N.A.
121917	Soil	0.99	15.8	1.0	<0.05	1.1	2.32	20.1	0.04	<1	0.4	10.4	<10	<2	N.A.	N.A.
121918	Soil	0.36	22.6	1.5	<0.05	1.6	5.57	15.7	0.03	<1	1.8	28.3	13	<2	N.A.	N.A.
121919	Soil	0.32	22.2	1.2	<0.05	1.3	3.32	12.1	<0.02	<1	1.1	27.0	<10	<2	N.A.	N.A.
121920	Soil	0.72	8.5	0.8	<0.05	0.7	5.84	24.1	0.03	<1	0.7	15.0	<10	<2	N.A.	N.A.
121921	Soil	0.19	4.1	0.3	<0.05	0.6	4.86	9.9	<0.02	<1	0.3	4.4	<10	<2	N.A.	N.A.
121922	Soil	0.04	2.0	0.4	<0.05	1.9	4.87	8.8	<0.02	1	0.3	1.3	<10	<2	N.A.	N.A.
121923	Soil	0.90	6.6	0.8	<0.05	0.6	3.26	19.5	0.04	<1	0.5	14.0	<10	<2	N.A.	N.A.
121924	Soil	0.51	4.6	0.9	<0.05	<0.1	2.52	20.1	0.02	<1	0.3	8.3	<10	<2	N.A.	N.A.
121925	Soil	0.41	7.7	0.8	<0.05	<0.1	3.79	24.9	0.03	<1	0.7	15.5	<10	<2	N.A.	N.A.
121926	Soil	0.51	8.1	0.7	<0.05	0.6	10.45	20.8	<0.02	<1	0.4	9.7	<10	<2	N.A.	N.A.
121927	Soil	0.63	9.8	0.6	<0.05	0.4	10.83	36.2	0.03	<1	0.9	16.0	<10	<2	N.A.	N.A.
121928	Soil	0.61	10.7	0.7	<0.05	0.3	9.87	39.8	0.02	<1	0.8	16.8	<10	<2	N.A.	N.A.
121929	Soil	0.53	11.6	0.5	<0.05	1.6	14.54	38.6	0.02	<1	1.0	16.1	<10	<2	N.A.	N.A.
121930	Soil	0.44	9.1	0.6	<0.05	0.9	10.57	20.0	0.03	<1	0.7	11.3	<10	<2	N.A.	N.A.
121931	Soil	0.55	14.1	0.9	<0.05	0.4	2.56	20.7	0.02	<1	0.4	14.1	<10	<2	N.A.	N.A.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
121932	Soil	1.58	8.81	14.58	44.5	131	9.1	4.1	194	2.73	10.9	0.5	0.7	1.3	6.4	0.07	0.73	0.24	55	0.05	0.036
121933	Soil	0.77	19.44	27.22	68.0	20	21.2	13.8	847	3.45	9.3	0.7	0.4	3.8	5.5	0.08	0.38	0.35	30	0.04	0.026
121934	Soil	1.05	11.04	22.22	54.5	13	15.1	10.9	600	2.96	8.9	0.6	0.8	4.1	6.8	0.05	0.45	0.32	43	0.06	0.017
121935	Soil	1.47	10.58	16.64	56.0	33	14.0	7.4	536	2.74	10.3	0.6	0.8	2.3	9.5	0.10	0.56	0.32	51	0.12	0.036
121936	Soil	1.65	7.23	13.39	33.9	14	7.1	7.0	890	2.17	7.8	0.6	0.7	3.6	5.4	0.08	0.69	0.32	53	0.02	0.027
121937	Soil	1.79	10.33	28.28	60.7	25	15.8	12.8	985	3.73	17.5	0.6	<0.2	3.2	5.5	0.11	0.78	0.38	52	0.05	0.051
121938	Soil	1.98	8.91	18.67	39.2	23	10.0	8.3	1228	2.53	15.9	0.6	0.6	1.9	6.9	0.08	0.91	0.34	65	0.05	0.046
121939	Soil	2.14	33.01	11.37	346.2	50	117.8	10.9	328	1.65	15.8	4.8	0.9	3.4	100.8	4.35	1.02	0.18	41	22.63	0.095
121940	Soil	2.66	44.47	13.06	524.8	53	179.1	13.1	456	1.78	17.4	6.7	<0.2	3.2	106.8	4.95	1.31	0.15	57	21.37	0.152
121941	Soil	2.25	30.65	9.62	328.7	41	124.8	10.7	356	1.49	14.4	5.2	<0.2	2.3	106.7	3.96	1.02	0.13	42	22.57	0.107
121942	Soil	2.00	8.85	6.45	55.4	10	22.9	3.9	134	0.77	9.5	2.8	<0.2	1.4	105.5	0.57	0.45	0.07	11	21.01	0.034
121943	Soil	3.01	4.29	5.34	36.9	13	14.9	3.4	119	1.28	15.3	1.2	<0.2	1.3	61.2	0.21	0.88	0.05	9	15.27	0.050
121944	Soil	5.67	8.74	9.30	50.7	15	19.7	5.9	122	3.08	38.0	1.1	0.3	3.6	53.0	0.19	1.38	0.20	10	8.60	0.153
121945	Soil	1.07	4.21	2.86	61.7	9	20.4	1.5	135	0.38	5.1	0.8	<0.2	0.4	54.8	0.62	0.29	0.02	9	20.94	0.025
121946	Soil	0.90	7.03	10.27	46.5	32	17.9	5.4	97	2.75	17.2	0.4	<0.2	1.9	12.7	0.21	0.64	0.13	11	1.70	0.096
121947	Soil	0.81	2.50	2.20	29.5	10	10.0	1.2	103	0.31	3.4	1.0	<0.2	0.3	54.1	0.26	0.22	<0.02	6	21.26	0.031
121948	Soil	1.06	10.68	9.99	47.8	35	21.7	7.4	161	2.68	13.1	0.4	0.5	1.8	52.3	0.24	0.50	0.13	6	5.57	0.101
121949	Soil	1.12	7.57	8.51	59.9	38	14.7	4.3	163	2.12	8.4	0.4	<0.2	2.6	40.2	0.16	0.31	0.12	8	4.39	0.107
121950	Soil	1.13	5.93	6.40	44.6	26	12.3	3.3	158	1.59	7.7	0.5	<0.2	0.9	43.2	0.30	0.32	0.08	10	9.04	0.085



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
121932	Soil	10.9	18.9	0.18	46.4	0.031	1	1.12	<0.001	0.04	0.2	1.3	0.13	0.02	33	0.4	0.06	6.2	1.55	<0.1	<0.02
121933	Soil	7.2	26.9	0.42	103.4	0.006	3	1.93	<0.001	0.11	0.1	3.2	0.13	<0.02	13	0.2	0.05	6.1	2.27	<0.1	0.03
121934	Soil	9.5	24.5	0.31	100.1	0.012	<1	1.86	<0.001	0.11	0.2	2.9	0.17	<0.02	13	0.3	0.04	6.3	1.77	<0.1	0.03
121935	Soil	9.9	26.1	0.33	134.2	0.014	1	1.76	<0.001	0.08	0.2	2.7	0.18	<0.02	22	0.2	0.06	7.0	2.12	<0.1	<0.02
121936	Soil	14.4	15.0	0.07	78.7	0.022	<1	0.90	<0.001	0.06	0.2	1.4	0.15	<0.02	18	0.1	0.04	6.8	2.35	<0.1	<0.02
121937	Soil	7.8	25.8	0.27	81.5	0.017	<1	1.48	0.001	0.09	0.2	2.3	0.12	<0.02	39	0.2	0.12	7.3	3.85	<0.1	<0.02
121938	Soil	12.5	17.3	0.10	96.2	0.034	<1	0.98	<0.001	0.07	0.2	1.6	0.15	0.02	34	0.3	0.09	7.5	2.22	<0.1	<0.02
121939	Soil	12.5	11.1	1.66	131.9	0.005	4	0.97	0.004	0.17	<0.1	3.2	0.99	0.02	61	0.3	0.05	1.8	1.64	<0.1	0.05
121940	Soil	16.6	13.1	2.13	164.7	0.006	4	1.19	0.005	0.18	<0.1	3.8	1.35	<0.02	71	0.5	0.12	2.0	1.53	<0.1	0.07
121941	Soil	11.7	10.4	2.62	113.3	0.004	3	0.94	0.006	0.17	<0.1	3.1	0.93	0.04	41	0.2	0.07	1.5	1.16	<0.1	0.05
121942	Soil	6.9	5.6	7.17	60.5	0.002	5	0.29	0.007	0.07	<0.1	1.5	0.48	0.05	11	0.2	0.03	0.7	0.69	<0.1	<0.02
121943	Soil	8.9	10.1	8.55	62.1	0.002	6	0.20	0.008	0.05	<0.1	1.2	0.48	0.15	16	0.4	0.06	0.6	1.54	<0.1	<0.02
121944	Soil	16.3	9.3	2.47	252.3	0.002	11	0.75	0.007	0.29	<0.1	1.9	1.55	0.08	8	0.3	0.10	2.1	2.33	<0.1	0.04
121945	Soil	4.6	5.0	10.59	31.2	0.004	4	0.18	0.006	0.02	<0.1	0.9	0.23	0.10	6	0.2	0.04	0.5	0.42	<0.1	<0.02
121946	Soil	40.1	7.9	0.45	153.1	0.002	8	0.81	0.003	0.21	<0.1	1.7	0.48	0.08	8	0.3	0.04	2.9	3.74	<0.1	0.07
121947	Soil	5.0	3.9	10.48	30.0	0.003	3	0.15	0.006	0.03	<0.1	0.8	0.15	0.09	<5	0.3	<0.02	0.4	0.45	<0.1	<0.02
121948	Soil	26.5	5.7	1.23	152.5	0.002	10	0.69	0.004	0.24	<0.1	2.5	0.29	0.04	15	0.2	0.02	1.8	1.58	<0.1	0.04
121949	Soil	30.7	6.5	1.81	162.1	0.003	14	0.78	0.006	0.26	<0.1	2.7	0.34	0.05	11	0.3	0.05	2.1	1.35	<0.1	0.06
121950	Soil	21.4	8.6	4.35	125.7	0.004	10	0.50	0.006	0.13	<0.1	1.6	0.21	0.11	10	0.5	0.04	1.7	0.82	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 12 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000454.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD	7TD	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Pb	Zn
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.02	0.01
121932	Soil	1.16	7.8	0.7	<0.05	0.3	2.07	22.0	0.02	<1	0.1	7.3	<10	<2	N.A.	N.A.
121933	Soil	0.38	18.6	0.9	<0.05	1.1	4.07	16.5	0.03	<1	0.7	30.6	<10	<2	N.A.	N.A.
121934	Soil	0.58	15.3	1.1	<0.05	1.3	3.35	19.9	0.02	<1	0.7	16.9	<10	<2	N.A.	N.A.
121935	Soil	0.77	18.8	1.0	<0.05	0.3	3.07	20.5	0.03	<1	0.3	18.2	<10	<2	N.A.	N.A.
121936	Soil	0.81	11.5	1.3	<0.05	0.3	2.33	28.0	<0.02	<1	0.2	5.8	<10	<2	N.A.	N.A.
121937	Soil	0.85	14.8	1.1	<0.05	0.3	2.87	16.6	0.03	<1	0.6	19.9	<10	<2	N.A.	N.A.
121938	Soil	1.02	13.9	1.2	<0.05	0.3	2.20	24.8	<0.02	<1	0.4	4.6	<10	<2	N.A.	N.A.
121939	Soil	0.12	9.0	0.7	<0.05	4.8	17.02	25.4	<0.02	<1	0.9	6.0	23	<2	N.A.	N.A.
121940	Soil	0.11	9.5	1.3	<0.05	6.4	24.69	28.5	0.02	<1	1.0	7.0	28	<2	N.A.	N.A.
121941	Soil	0.11	8.5	0.6	<0.05	3.8	17.03	21.1	<0.02	<1	0.8	5.5	15	<2	N.A.	N.A.
121942	Soil	0.08	4.6	0.6	<0.05	1.7	6.41	11.9	<0.02	3	0.1	2.8	<10	<2	N.A.	N.A.
121943	Soil	0.17	3.5	0.4	<0.05	1.1	8.38	17.8	<0.02	2	0.2	1.7	<10	<2	N.A.	N.A.
121944	Soil	0.41	11.7	0.8	<0.05	1.8	10.18	37.3	0.02	1	0.9	4.3	<10	<2	N.A.	N.A.
121945	Soil	0.10	1.8	0.3	<0.05	0.9	6.54	6.5	<0.02	<1	0.3	1.9	<10	<2	N.A.	N.A.
121946	Soil	0.80	12.6	0.8	<0.05	2.1	14.24	86.4	0.05	<1	1.4	5.2	<10	<2	N.A.	N.A.
121947	Soil	0.09	2.0	0.1	<0.05	0.5	6.03	7.1	<0.02	<1	0.1	1.3	<10	<2	N.A.	N.A.
121948	Soil	0.43	9.9	0.8	<0.05	1.4	11.38	55.9	0.03	<1	1.5	4.6	<10	<2	N.A.	N.A.
121949	Soil	0.82	11.3	1.0	<0.05	2.0	13.97	65.4	0.03	<1	1.3	6.0	<10	<2	N.A.	N.A.
121950	Soil	0.54	7.4	0.6	<0.05	1.0	11.37	42.8	0.02	2	0.6	3.8	<10	<2	N.A.	N.A.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 1 of 4 Part 1

QUALITY CONTROL REPORT

WHI11000454.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
118109	Soil	1.10	14.68	14.58	65.4	96	29.2	6.7	249	1.87	8.7	0.7	<0.2	2.5	142.2	0.17	0.30	0.11	21	12.88	0.069
REP 118109	QC	1.14	14.51	14.40	61.5	93	29.6	7.0	241	1.87	8.2	0.7	<0.2	2.5	144.7	0.18	0.27	0.11	21	13.20	0.071
118202	Soil	1.62	24.76	30.58	113.0	178	44.9	20.7	501	3.80	4.7	0.7	1.3	4.6	109.7	0.20	0.23	0.22	31	2.71	0.070
REP 118202	QC	1.65	25.35	29.03	115.2	173	45.3	22.3	500	3.87	4.9	0.7	0.5	4.6	108.8	0.20	0.22	0.22	32	2.76	0.076
118207	Soil	3.45	23.07	29.63	98.2	150	35.8	14.1	582	2.98	10.3	1.9	3.2	2.8	130.0	0.54	0.57	0.15	35	7.07	0.146
REP 118207	QC	3.45	22.97	28.71	100.2	165	36.6	13.8	574	2.97	10.9	1.9	1.4	2.9	134.2	0.52	0.63	0.11	34	6.98	0.149
120519	Soil	0.57	17.71	19.00	61.1	64	24.6	9.3	213	3.44	4.8	0.4	<0.2	2.9	5.8	0.08	0.25	0.31	31	0.11	0.031
REP 120519	QC	0.55	16.08	17.84	64.3	68	21.2	8.9	208	3.40	4.8	0.4	0.4	2.9	5.9	0.07	0.25	0.29	32	0.10	0.030
118917	Soil	13.36	5.74	497.4	1514	1114	3.0	1.3	1492	15.88	82.4	3.8	0.2	0.2	72.2	3.18	6.35	<0.02	<2	10.81	0.108
REP 118917	QC	12.82	5.45	503.4	1488	1074	2.6	1.3	1461	15.66	80.7	3.9	<0.2	0.2	68.8	3.04	6.23	<0.02	<2	10.60	0.100
118991	Soil	0.43	19.90	23.99	74.0	70	27.7	13.0	381	3.77	6.2	0.5	<0.2	4.3	6.8	0.04	0.24	0.42	30	0.03	0.016
REP 118991	QC	0.43	20.17	24.41	75.4	75	27.2	12.6	398	3.89	6.2	0.6	0.4	4.3	6.6	0.04	0.23	0.39	32	0.03	0.017
120568	Soil	0.79	19.34	51.83	68.5	197	42.8	21.8	855	3.36	21.4	0.7	2.6	6.5	31.8	0.06	1.06	0.38	6	2.16	0.035
REP 120568	QC	0.80	18.63	52.74	67.3	180	40.9	21.7	825	3.27	20.8	0.6	1.0	6.4	30.6	0.07	0.97	0.36	7	2.09	0.035
120570	Soil	0.60	15.12	26.25	64.4	163	16.6	7.5	2258	3.57	18.7	1.2	0.7	0.7	30.6	0.26	1.85	0.17	23	6.83	0.238
REP 120570	QC	0.61	15.09	26.85	64.5	172	16.7	7.4	2201	3.50	19.0	1.2	0.8	0.7	29.1	0.26	1.87	0.18	22	6.28	0.230
120612	Soil	0.97	8.66	7.48	60.1	29	12.6	3.0	172	0.69	10.7	1.2	0.7	0.5	41.5	0.33	0.31	0.05	14	12.61	0.034
REP 120612	QC	0.94	8.14	7.36	60.8	29	12.4	2.9	171	0.67	10.4	1.1	0.5	0.5	39.7	0.36	0.31	0.05	13	12.13	0.033
120628	Soil	1.48	16.50	15.62	85.6	130	31.5	11.8	381	2.79	3.5	0.9	0.5	1.9	318.6	0.33	0.36	0.15	26	8.83	0.063
REP 120628	QC	1.42	16.34	15.08	84.1	132	29.9	11.7	366	2.70	3.5	0.8	0.3	1.9	315.8	0.33	0.33	0.14	25	8.55	0.060
121527	Soil	3.45	7.30	3541	>10000	279	6.6	2.4	1539	10.07	28.0	2.5	1.0	0.8	45.3	14.98	2.94	0.05	4	11.91	0.066
REP 121527	QC																				
121529	Soil	0.94	7.48	7.31	32.1	23	11.2	3.7	114	0.74	10.4	0.8	2.3	0.9	113.7	0.18	0.27	0.11	6	19.26	0.018
REP 121529	QC	0.81	7.04	6.51	29.9	24	11.6	3.5	107	0.67	9.7	0.7	1.9	0.9	100.3	0.15	0.22	0.06	6	17.22	0.016
121550	Soil	1.51	23.38	19.14	47.6	72	19.2	8.0	522	1.95	11.3	0.9	1.9	1.1	41.0	0.22	0.45	0.18	15	6.20	0.058
REP 121550	QC	1.57	25.08	20.57	54.7	80	20.8	9.0	535	2.06	11.9	1.0	1.8	1.3	44.3	0.24	0.50	0.20	17	6.93	0.065
121648	Soil	0.58	16.95	29.33	126.0	195	21.1	19.7	2344	3.37	4.0	0.5	0.4	3.2	10.0	0.19	0.25	0.40	36	0.07	0.044
REP 121648	QC	0.62	16.72	29.35	124.2	191	21.2	19.0	2412	3.33	4.2	0.5	0.7	3.2	9.9	0.17	0.29	0.39	35	0.06	0.047

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 1 of 4 Part 2

QUALITY CONTROL REPORT

WHI11000454.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15		
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf		
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm		
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02		
Pulp Duplicates																						
118109	Soil	23.6	17.2	2.96	92.9	0.002	6	0.49	0.007	0.16	<0.1	3.1	0.09	<0.02	15	0.7	<0.02	1.2	0.30	<0.1	0.06	
REP 118109	QC	23.3	17.1	3.03	96.0	0.002	7	0.50	0.007	0.16	<0.1	3.3	0.09	<0.02	12	0.6	<0.02	1.2	0.30	<0.1	<0.02	
118202	Soil	10.7	24.1	0.49	99.4	0.002	7	1.46	0.003	0.23	<0.1	6.0	0.25	0.03	32	0.8	0.03	3.3	2.73	<0.1	0.10	
REP 118202	QC	10.6	24.4	0.50	97.5	0.002	7	1.50	0.003	0.23	<0.1	6.1	0.24	0.03	25	0.7	0.12	3.2	2.66	<0.1	0.10	
118207	Soil	13.9	27.0	3.04	153.3	0.004	11	0.95	0.007	0.21	<0.1	5.6	0.32	0.10	14	0.8	0.10	2.7	2.74	<0.1	0.05	
REP 118207	QC	14.3	26.3	3.00	153.7	0.005	7	0.96	0.007	0.22	<0.1	5.7	0.32	0.12	23	1.2	0.07	2.8	2.91	<0.1	0.06	
120519	Soil	5.1	34.4	0.46	95.0	0.004	<1	1.87	0.002	0.13	<0.1	2.5	0.11	<0.02	19	0.3	0.02	6.8	1.18	<0.1	0.03	
REP 120519	QC	5.4	26.4	0.44	92.2	0.004	<1	1.88	0.002	0.14	<0.1	2.6	0.11	<0.02	27	0.2	<0.02	6.8	1.22	<0.1	0.03	
118917	Soil	2.6	1.8	5.18	14.9	<0.001	1	0.04	0.006	<0.01	<0.1	0.4	46.02	1.13	1445	0.3	0.04	0.3	0.05	0.4	<0.02	
REP 118917	QC	2.5	1.9	5.13	13.7	<0.001	1	0.03	0.006	<0.01	<0.1	0.4	43.63	1.08	1355	0.2	<0.02	0.3	0.04	0.3	<0.02	
118991	Soil	5.6	28.6	0.47	93.3	0.005	2	1.96	0.002	0.09	<0.1	3.3	0.13	<0.02	25	<0.1	0.02	6.8	1.60	<0.1	0.04	
REP 118991	QC	5.6	29.3	0.47	94.1	0.005	1	2.04	0.002	0.10	<0.1	3.7	0.12	<0.02	24	0.2	<0.02	7.1	1.60	<0.1	0.05	
120568	Soil	7.3	10.6	0.23	100.8	<0.001	4	0.49	0.002	0.14	<0.1	5.5	0.38	<0.02	623	0.5	0.04	1.4	1.39	<0.1	0.03	
REP 120568	QC	6.8	10.4	0.22	93.9	<0.001	3	0.47	0.002	0.14	<0.1	5.6	0.38	<0.02	602	0.5	<0.02	1.3	1.36	0.1	0.03	
120570	Soil	14.1	14.7	3.94	101.3	0.004	3	1.14	0.007	0.06	<0.1	1.5	0.08	0.09	130	0.5	0.10	2.1	0.31	<0.1	0.03	
REP 120570	QC	14.0	14.5	3.54	99.2	0.004	4	1.12	0.007	0.06	<0.1	1.6	0.09	0.09	130	0.4	0.07	2.1	0.29	<0.1	0.05	
120612	Soil	4.5	5.6	6.78	47.8	0.002	2	0.30	0.005	0.05	<0.1	0.8	0.18	<0.02	16	<0.1	0.03	0.7	0.73	<0.1	0.03	
REP 120612	QC	4.3	5.5	6.67	47.0	0.003	2	0.29	0.005	0.05	<0.1	0.8	0.19	<0.02	9	0.2	<0.02	0.7	0.73	<0.1	0.03	
120628	Soil	12.7	15.7	0.51	126.0	0.002	5	0.99	0.005	0.15	<0.1	3.6	0.25	0.02	17	0.5	0.06	2.1	1.82	<0.1	0.04	
REP 120628	QC	12.5	15.4	0.49	125.5	0.002	5	0.96	0.004	0.15	<0.1	3.4	0.25	0.02	18	0.5	0.05	2.1	1.85	<0.1	0.04	
121527	Soil	3.9	3.6	6.52	8.5	0.001	2	0.09	0.006	0.02	<0.1	0.8	5.07	<0.02	648	1.4	0.03	1.0	0.39	0.4	0.02	
REP 121527	QC																					
121529	Soil	4.2	6.7	7.59	40.4	0.003	4	0.26	0.012	0.07	<0.1	1.2	0.10	<0.02	17	0.3	<0.02	0.6	1.71	<0.1	0.02	
REP 121529	QC	3.7	5.9	6.72	35.0	0.002	3	0.22	0.010	0.06	<0.1	1.1	0.08	<0.02	14	0.3	<0.02	0.6	1.55	<0.1	0.02	
121550	Soil	8.8	15.8	3.13	62.1	0.003	3	0.65	0.003	0.06	<0.1	2.7	0.09	0.05	31	0.5	0.03	1.6	2.52	<0.1	0.04	
REP 121550	QC	9.4	17.6	3.44	64.1	0.005	6	0.69	0.004	0.08	<0.1	3.5	0.10	0.06	28	0.6	0.07	1.9	3.34	<0.1	0.06	
121648	Soil	7.5	25.5	0.32	444.9	0.003	2	2.00	0.002	0.17	<0.1	2.9	0.14	<0.02	11	0.2	<0.02	7.6	1.02	<0.1	0.03	
REP 121648	QC	7.0	24.0	0.31	445.7	0.003	<1	2.06	0.002	0.17	<0.1	2.7	0.13	<0.02	13	0.5	0.03	7.1	0.90	<0.1	0.03	

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Acme Analytical Laboratories (Vancouver) Ltd.

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Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: August 13, 2011

Page: 1 of 4 Part 3

QUALITY CONTROL REPORT

WHI11000454.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD	7TD	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Pb	Zn	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.02	0.01	
Pulp Duplicates																
118109	Soil	0.21	5.8	3.7	<0.05	1.9	11.99	41.8	0.03	<1	0.5	5.5	<10	<2	N.A.	N.A.
REP 118109	QC	0.14	5.9	4.0	<0.05	1.9	11.99	42.9	0.02	<1	0.6	6.0	<10	<2		
118202	Soil	0.14	14.4	1.0	<0.05	6.5	10.35	28.1	0.05	<1	1.3	26.3	<10	<2	N.A.	N.A.
REP 118202	QC	0.15	14.2	1.0	<0.05	7.1	10.00	28.3	0.05	<1	1.5	26.3	<10	<2		
118207	Soil	0.25	14.5	3.6	<0.05	3.1	12.66	32.7	0.04	4	0.2	15.9	<10	<2	N.A.	N.A.
REP 118207	QC	0.24	15.1	4.3	<0.05	3.3	12.31	33.7	0.03	2	1.0	14.0	<10	2		
120519	Soil	0.62	17.5	1.2	<0.05	1.3	2.42	11.6	0.02	<1	0.8	33.1	<10	<2	N.A.	N.A.
REP 120519	QC	0.64	18.6	1.1	<0.05	1.2	2.40	12.1	0.02	<1	0.9	32.6	<10	<2		
118917	Soil	0.03	0.3	0.7	<0.05	0.6	3.87	4.2	<0.02	3	0.2	0.4	<10	<2	N.A.	N.A.
REP 118917	QC	0.03	0.2	0.6	<0.05	0.6	3.64	3.9	<0.02	<1	0.3	0.2	86	<2		
118991	Soil	0.50	16.4	2.5	<0.05	1.8	3.67	13.5	0.03	<1	1.0	33.5	<10	<2	N.A.	N.A.
REP 118991	QC	0.54	17.3	2.3	<0.05	2.0	3.64	13.7	0.04	<1	0.9	34.0	<10	<2		
120568	Soil	0.04	6.8	0.9	<0.05	3.6	13.47	33.8	0.04	<1	1.1	2.2	<10	<2	N.A.	N.A.
REP 120568	QC	0.04	6.7	0.9	<0.05	3.5	13.21	32.1	0.03	<1	1.4	2.3	<10	<2		
120570	Soil	0.12	4.9	0.4	<0.05	1.3	25.24	33.1	0.02	<1	0.5	4.0	<10	<2	N.A.	N.A.
REP 120570	QC	0.13	4.7	0.4	<0.05	1.2	25.38	32.8	0.02	<1	0.6	3.9	<10	<2		
120612	Soil	0.09	3.3	0.7	<0.05	1.0	5.79	7.9	<0.02	<1	0.2	2.4	<10	<2	N.A.	N.A.
REP 120612	QC	0.09	3.1	0.8	<0.05	1.0	5.56	7.8	<0.02	1	0.3	2.3	<10	<2		
120628	Soil	0.17	9.8	0.7	<0.05	3.2	11.27	31.4	0.04	<1	1.1	11.5	<10	<2	N.A.	N.A.
REP 120628	QC	0.18	10.2	0.7	<0.05	2.7	11.13	31.0	0.04	<1	1.4	11.5	<10	<2		
121527	Soil	0.03	0.9	0.4	<0.05	1.1	5.17	6.9	<0.02	<1	0.2	0.6	<10	<2	0.43	1.31
REP 121527	QC														0.44	1.31
121529	Soil	0.08	4.8	0.6	<0.05	1.0	3.79	9.7	<0.02	<1	0.3	2.1	<10	<2	N.A.	N.A.
REP 121529	QC	0.07	4.2	0.4	<0.05	0.7	3.26	8.9	<0.02	<1	0.2	1.8	<10	<2		
121550	Soil	0.25	5.2	1.9	<0.05	1.7	9.79	18.3	<0.02	<1	1.0	10.3	<10	<2	N.A.	N.A.
REP 121550	QC	0.25	7.2	2.0	<0.05	1.8	10.96	19.6	<0.02	<1	1.2	12.0	<10	<2		
121648	Soil	0.39	23.8	1.4	<0.05	1.2	3.19	16.9	0.03	1	1.7	28.0	<10	<2	N.A.	N.A.
REP 121648	QC	0.39	22.7	1.4	<0.05	1.1	3.10	15.9	0.03	<1	1.3	26.3	<10	<2		

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 2 of 4 Part 1

QUALITY CONTROL REPORT

WHI11000454.2

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
121803	Soil	41.31	13.62	14.04	81.4	294	33.8	4.4	193	1.05	48.7	8.0	0.6	0.8	80.1	0.49	1.62	0.06	61	10.58	0.121
REP 121803	QC	43.11	13.45	13.96	79.0	297	34.1	4.3	193	1.07	48.7	7.9	0.7	0.8	81.9	0.48	1.60	0.06	62	10.74	0.120
121822	Soil	1.08	3.96	7.71	27.6	36	6.2	1.4	101	0.50	11.3	0.8	1.9	0.4	61.7	0.11	0.41	0.04	10	17.09	0.025
REP 121822	QC	1.16	3.83	7.54	27.7	38	6.0	1.4	108	0.51	11.2	0.8	0.4	0.4	63.0	0.11	0.39	0.04	11	17.44	0.027
121826	Soil	0.18	1.41	1.21	4.4	13	1.3	0.2	67	0.11	1.7	0.6	1.5	0.3	18.8	0.06	0.12	0.03	6	10.59	0.024
REP 121826	QC	0.18	1.18	1.27	4.4	8	1.4	0.2	67	0.11	1.1	0.6	0.2	0.2	19.1	0.06	0.09	<0.02	6	10.81	0.022
121839	Soil	3.68	21.76	13.36	171.2	43	66.3	7.8	375	1.45	60.6	13.2	0.5	1.0	104.8	0.65	1.19	0.18	42	17.10	0.151
REP 121839	QC	3.60	23.08	13.70	178.9	42	68.3	7.8	388	1.49	58.7	12.9	0.8	1.0	108.7	0.71	1.22	0.17	43	17.42	0.146
121849	Soil	2.20	14.00	10.06	172.9	15	71.2	5.7	307	1.15	73.8	4.7	<0.2	2.8	63.9	0.76	0.84	0.12	33	24.08	0.066
REP 121849	QC	2.15	13.68	10.10	175.3	19	65.9	5.3	296	1.11	73.3	4.3	0.7	2.6	61.6	0.66	0.83	0.12	33	23.61	0.060
121873	Soil	1.70	16.01	16.09	72.0	120	24.0	8.5	342	2.33	16.6	1.1	2.3	1.6	82.3	0.38	0.71	0.26	44	4.80	0.067
REP 121873	QC	1.74	16.13	15.84	77.1	125	23.2	8.5	351	2.39	18.3	1.1	1.9	1.6	82.0	0.37	0.69	0.23	44	4.89	0.062
121920	Soil	7.26	14.58	17.48	82.0	180	20.9	7.8	602	2.66	17.0	5.1	3.4	0.9	23.6	0.61	0.89	0.29	84	1.20	0.258
REP 121920	QC	7.62	14.87	16.95	78.8	183	21.6	8.2	627	2.74	16.9	5.3	1.2	1.2	22.4	0.55	0.95	0.31	85	1.22	0.277
121921	Soil	2.52	13.35	6.31	33.7	255	9.0	3.1	337	1.25	13.1	6.7	1.9	0.5	43.1	0.27	0.40	0.08	47	8.45	0.253
REP 121921	QC	2.63	13.02	6.11	32.3	247	13.2	3.1	327	1.18	12.8	6.2	1.5	0.4	41.4	0.25	0.40	0.07	45	7.89	0.247
121928	Soil	1.94	14.77	13.04	77.4	61	28.4	10.9	535	2.71	13.8	1.0	1.0	2.2	17.3	0.16	0.80	0.23	43	1.44	0.061
REP 121928	QC	1.99	15.48	13.36	80.2	61	29.5	10.4	548	2.76	13.7	1.0	2.1	2.3	18.3	0.19	0.81	0.24	44	1.49	0.063
Reference Materials																					
STD DS8	Standard	12.48	106.6	134.2	310.0	1735	38.5	7.2	589	2.40	23.1	2.9	105.3	7.3	69.3	2.16	5.58	6.85	40	0.70	0.073
STD DS8	Standard	13.64	108.8	138.4	318.2	1865	37.5	7.0	602	2.52	26.6	3.1	115.5	7.7	77.7	2.46	5.89	7.51	42	0.74	0.085
STD DS8	Standard	12.07	101.7	120.5	304.5	1768	36.3	7.0	586	2.34	22.5	2.5	114.5	6.2	59.5	2.25	5.02	6.18	37	0.68	0.073
STD DS8	Standard	12.10	103.9	124.0	314.5	1751	37.8	7.2	600	2.40	23.3	2.6	101.5	6.2	60.7	2.31	5.04	6.38	37	0.67	0.078
STD DS8	Standard	13.40	109.2	132.5	336.8	1954	39.4	7.5	629	2.54	23.3	2.7	114.0	6.8	65.9	2.37	5.06	6.64	42	0.72	0.077
STD DS8	Standard	13.36	106.1	127.7	318.1	1769	38.2	7.2	609	2.47	22.9	2.6	108.7	6.7	66.9	2.12	4.95	6.31	40	0.69	0.074
STD DS8	Standard	11.82	100.3	109.9	298.1	1586	33.9	6.7	587	2.34	24.8	2.5	96.3	6.0	60.4	2.21	5.01	5.56	36	0.64	0.081
STD DS8	Standard	12.69	105.7	110.9	299.1	1535	36.3	7.5	617	2.50	25.4	2.4	97.0	6.1	63.8	2.22	5.20	5.71	39	0.69	0.087
STD DS8	Standard	12.09	107.8	111.5	305.7	1593	35.8	7.0	586	2.39	23.3	2.5	101.2	6.2	70.0	2.30	5.19	5.98	41	0.68	0.076
STD DS8	Standard	12.33	105.2	108.7	295.9	1620	34.7	6.7	598	2.35	24.5	2.4	98.0	6.2	68.2	2.29	5.02	5.93	40	0.70	0.079

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 2 of 4 Part 2

QUALITY CONTROL REPORT

WHI11000454.2

		1F15 La ppm	1F15 Cr ppm	1F15 Mg %	1F15 Ba ppm	1F15 Ti %	1F15 B ppm	1F15 Al %	1F15 Na %	1F15 K %	1F15 W ppm	1F15 Sc ppm	1F15 Ti ppm	1F15 S %	1F15 Hg ppb	1F15 Se ppm	1F15 Te ppm	1F15 Ga ppm	1F15 Cs ppm	1F15 Ge ppm	1F15 Hf ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
121803	Soil	5.2	13.5	7.13	25.7	0.002	3	0.24	0.010	0.10	<0.1	1.5	1.08	0.03	39	0.6	0.07	0.7	1.34	<0.1	0.04
REP 121803	QC	5.1	13.6	7.24	24.8	0.002	4	0.24	0.010	0.10	<0.1	1.5	1.09	0.04	42	0.7	0.03	0.8	1.38	<0.1	0.03
121822	Soil	6.4	5.2	9.01	24.5	0.003	3	0.19	0.007	0.03	<0.1	0.7	0.42	<0.02	15	0.4	<0.02	0.5	0.47	<0.1	0.02
REP 121822	QC	6.1	5.1	8.99	23.6	0.004	4	0.18	0.007	0.03	<0.1	0.6	0.42	<0.02	14	0.3	0.03	0.5	0.51	<0.1	0.03
121826	Soil	2.7	2.1	5.44	8.3	<0.001	2	0.06	0.003	0.01	<0.1	0.3	0.05	<0.02	<5	0.3	0.04	0.1	0.44	<0.1	<0.02
REP 121826	QC	2.8	2.2	5.62	7.7	<0.001	1	0.06	0.003	0.01	<0.1	0.2	0.05	<0.02	5	0.2	0.05	<0.1	0.43	<0.1	<0.02
121839	Soil	8.9	9.7	5.19	83.8	0.004	4	0.44	0.009	0.08	<0.1	1.3	0.93	<0.02	16	0.3	0.09	1.3	1.07	<0.1	0.06
REP 121839	QC	9.0	9.2	5.10	83.7	0.004	2	0.49	0.010	0.09	<0.1	1.3	0.90	<0.02	16	0.4	0.08	1.4	1.21	<0.1	0.06
121849	Soil	8.5	5.7	5.09	53.4	0.004	2	0.40	0.005	0.07	<0.1	1.6	0.79	<0.02	22	0.4	0.12	1.1	2.00	<0.1	0.09
REP 121849	QC	8.2	5.6	4.83	54.2	0.003	2	0.33	0.005	0.07	<0.1	1.4	0.78	<0.02	24	0.2	0.07	1.1	2.00	<0.1	0.10
121873	Soil	12.9	20.5	2.35	109.1	0.011	5	1.17	0.009	0.06	0.1	2.7	0.15	0.02	46	0.4	0.08	2.9	1.57	<0.1	0.02
REP 121873	QC	12.9	21.7	2.39	112.9	0.011	2	1.18	0.009	0.06	0.1	2.9	0.16	0.03	47	0.5	0.03	3.0	1.48	<0.1	0.02
121920	Soil	10.6	28.3	0.59	221.8	0.016	1	1.88	0.007	0.05	0.2	2.1	0.26	0.05	54	0.5	0.04	6.5	1.37	<0.1	<0.02
REP 121920	QC	10.4	30.8	0.60	226.5	0.015	3	1.85	0.006	0.05	0.2	2.1	0.24	0.06	44	0.4	0.05	6.5	1.32	<0.1	0.04
121921	Soil	4.9	12.2	5.41	75.6	0.008	3	0.49	0.008	0.04	<0.1	1.3	0.26	<0.02	29	0.6	0.02	1.3	0.40	<0.1	<0.02
REP 121921	QC	4.9	24.6	4.99	75.6	0.008	2	0.49	0.008	0.05	<0.1	1.2	0.27	0.02	31	0.5	0.03	1.3	0.43	<0.1	<0.02
121928	Soil	16.8	31.3	1.18	169.3	0.025	<1	1.86	0.007	0.06	0.2	3.5	0.16	<0.02	29	0.2	0.04	4.5	1.64	<0.1	<0.02
REP 121928	QC	17.3	32.6	1.24	172.9	0.025	1	1.94	0.006	0.07	0.2	3.6	0.16	<0.02	32	0.3	0.07	4.8	1.70	<0.1	<0.02
Reference Materials																					
STD DS8	Standard	14.3	110.4	0.60	254.1	0.105	3	0.93	0.098	0.42	2.7	2.3	5.15	0.16	208	4.9	4.37	4.7	2.27	<0.1	0.10
STD DS8	Standard	16.0	114.2	0.62	307.4	0.116	3	0.99	0.107	0.44	3.1	2.7	5.68	0.16	200	5.4	5.54	5.0	2.47	0.2	0.06
STD DS8	Standard	12.7	112.5	0.58	267.4	0.105	2	0.92	0.104	0.42	2.7	2.1	5.20	0.14	193	5.3	4.60	4.4	2.25	<0.1	0.08
STD DS8	Standard	12.7	113.7	0.59	268.1	0.104	2	0.95	0.103	0.43	2.8	2.1	5.23	0.15	211	5.3	4.83	4.5	2.30	<0.1	0.08
STD DS8	Standard	15.3	121.7	0.62	273.6	0.112	2	0.94	0.093	0.42	3.1	2.4	5.72	0.16	219	5.6	5.78	4.9	2.52	<0.1	0.09
STD DS8	Standard	15.4	116.5	0.59	263.3	0.111	2	0.91	0.092	0.41	3.0	2.3	5.29	0.15	203	5.3	5.54	4.7	2.35	0.1	0.08
STD DS8	Standard	13.8	102.8	0.57	253.5	0.102	3	0.93	0.100	0.42	2.5	2.3	4.79	0.15	180	4.5	4.60	4.3	2.29	<0.1	0.07
STD DS8	Standard	15.4	108.5	0.60	267.1	0.115	2	0.99	0.105	0.43	2.8	2.4	4.88	0.16	182	5.1	4.75	4.6	2.37	<0.1	0.09
STD DS8	Standard	14.4	110.7	0.59	260.2	0.111	2	0.95	0.095	0.42	2.8	2.2	4.94	0.15	192	4.9	4.95	4.7	2.29	0.1	0.09
STD DS8	Standard	13.9	109.2	0.57	252.6	0.113	2	0.94	0.093	0.41	2.7	2.3	4.69	0.15	180	5.1	4.51	4.7	2.25	<0.1	0.08

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 2 of 4 Part 3

QUALITY CONTROL REPORT

WHI11000454.2

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2	7TD Pb % 0.02	7TD Zn % 0.01
121803	Soil	0.05	3.8	1.1	<0.05	1.3	7.57	11.3	<0.02	2	0.4	1.8	<10	<2	N.A.	N.A.
REP 121803	QC	0.06	4.1	1.1	<0.05	1.5	7.87	11.4	<0.02	4	0.3	1.7	<10	<2		
121822	Soil	0.09	2.0	0.3	<0.05	0.9	5.49	7.3	<0.02	1	0.2	1.6	<10	<2	N.A.	N.A.
REP 121822	QC	0.08	2.2	0.2	<0.05	0.9	5.42	7.4	<0.02	<1	0.2	1.6	<10	<2		
121826	Soil	0.02	0.7	0.4	<0.05	0.7	2.68	5.6	0.02	<1	<0.1	0.2	<10	<2	N.A.	N.A.
REP 121826	QC	<0.02	0.7	0.3	<0.05	0.6	2.56	5.6	<0.02	<1	0.1	0.2	<10	<2		
121839	Soil	0.16	3.9	0.5	<0.05	2.1	8.71	21.7	<0.02	2	0.4	4.3	<10	<2	N.A.	N.A.
REP 121839	QC	0.15	4.4	0.4	<0.05	1.9	8.63	19.8	<0.02	2	0.6	4.3	<10	<2		
121849	Soil	0.05	3.5	1.1	<0.05	7.7	9.29	19.5	<0.02	2	0.4	3.0	<10	2	N.A.	N.A.
REP 121849	QC	0.07	3.3	1.1	<0.05	6.7	8.72	19.0	<0.02	<1	0.6	2.9	11	2		
121873	Soil	0.31	6.4	0.5	<0.05	0.9	10.51	27.1	0.02	<1	0.7	10.3	<10	<2	N.A.	N.A.
REP 121873	QC	0.29	6.2	0.5	<0.05	0.8	10.25	25.5	0.02	<1	0.6	9.7	<10	<2		
121920	Soil	0.72	8.5	0.8	<0.05	0.7	5.84	24.1	0.03	<1	0.7	15.0	<10	<2	N.A.	N.A.
REP 121920	QC	0.71	7.8	0.7	<0.05	0.9	5.65	24.3	0.03	<1	0.7	15.7	<10	<2		
121921	Soil	0.19	4.1	0.3	<0.05	0.6	4.86	9.9	<0.02	<1	0.3	4.4	<10	<2	N.A.	N.A.
REP 121921	QC	0.16	4.4	0.3	<0.05	0.6	4.61	9.7	<0.02	<1	0.2	4.3	<10	<2		
121928	Soil	0.61	10.7	0.7	<0.05	0.3	9.87	39.8	0.02	<1	0.8	16.8	<10	<2	N.A.	N.A.
REP 121928	QC	0.67	11.2	0.7	<0.05	0.4	10.44	40.4	0.03	<1	0.7	17.6	<10	<2		
Reference Materials																
STD DS8	Standard	1.20	34.0	6.3	<0.05	2.2	5.78	25.6	2.02	52	5.5	25.4	115	344		
STD DS8	Standard	1.44	39.9	7.1	<0.05	2.3	6.54	29.6	2.12	55	5.7	27.3	129	374		
STD DS8	Standard	1.07	35.5	6.1	<0.05	2.0	5.20	23.9	2.04	56	5.6	24.1	127	321		
STD DS8	Standard	1.14	36.2	6.3	<0.05	1.9	5.23	24.2	1.98	63	5.5	24.1	120	347		
STD DS8	Standard	1.18	39.0	6.4	<0.05	2.2	5.99	30.0	2.31	54	5.3	25.7	135	365		
STD DS8	Standard	1.22	36.9	6.4	<0.05	2.1	5.96	29.4	2.18	58	5.4	23.6	135	337		
STD DS8	Standard	1.20	34.8	6.0	<0.05	1.9	5.56	25.6	1.98	53	5.0	25.9	103	300		
STD DS8	Standard	1.38	36.8	6.3	<0.05	2.1	6.25	27.6	2.06	55	4.9	29.1	114	301		
STD DS8	Standard	1.19	37.0	6.4	<0.05	2.0	5.81	26.3	2.08	51	4.6	27.1	114	318		
STD DS8	Standard	1.27	35.8	6.3	<0.05	1.8	5.83	27.0	1.98	49	5.6	26.4	103	308		



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 3 of 4 Part 1

QUALITY CONTROL REPORT

WHI11000454.2

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
STD DS8	Standard	11.81	97.10	130.2	296.9	1682	34.5	7.0	594	2.31	23.6	2.7	107.9	6.6	63.8	2.07	5.72	6.85	38	0.68	0.077
STD DS8	Standard	12.07	103.8	137.2	316.9	1751	37.3	7.2	606	2.40	23.7	2.9	111.7	7.1	71.3	2.19	5.53	6.83	40	0.68	0.081
STD DS8	Standard	12.54	108.6	120.7	307.4	1716	38.6	7.1	614	2.39	23.9	2.6	101.7	6.6	55.0	2.33	4.64	5.69	42	0.71	0.074
STD DS8	Standard	12.74	109.2	120.9	312.3	1689	38.5	7.4	616	2.39	23.6	2.7	101.7	6.6	57.1	2.17	4.58	5.72	43	0.72	0.077
STD DS8	Standard	11.00	106.0	120.7	299.5	1735	37.8	7.3	591	2.24	25.3	2.7	105.1	6.0	55.7	2.47	5.57	6.65	35	0.65	0.080
STD DS8	Standard	12.74	103.2	113.7	301.3	1747	34.7	6.9	621	2.42	23.9	2.6	111.3	6.7	70.6	2.50	5.76	6.52	40	0.69	0.080
STD DS8	Standard	12.57	104.4	120.1	309.1	1727	36.0	7.0	600	2.45	23.6	2.5	131.8	6.4	69.7	2.44	5.60	6.52	40	0.67	0.076
STD DS8	Standard	12.65	106.5	126.6	315.3	1742	37.0	7.4	614	2.41	24.2	2.7	103.9	6.8	63.4	2.17	4.85	6.45	40	0.69	0.076
STD DS8	Standard	12.88	107.7	128.7	306.3	1773	38.6	7.2	604	2.43	23.9	2.6	105.4	6.5	64.6	2.20	4.78	6.30	40	0.70	0.073
STD DS8	Standard	13.69	109.2	126.7	313.8	1850	38.9	7.6	619	2.48	26.3	2.9	122.6	7.0	69.3	2.44	5.53	6.61	41	0.72	0.090
STD DS8	Standard	13.20	107.8	122.2	295.4	1732	35.0	7.2	594	2.47	25.4	2.7	110.7	6.8	67.1	2.35	5.36	6.19	41	0.70	0.084
STD DS8	Standard	12.44	105.7	121.7	312.1	1720	37.4	7.5	604	2.45	25.6	2.7	105.7	6.2	62.5	2.40	4.95	6.32	41	0.71	0.079
STD DS8	Standard	12.69	108.7	118.3	302.9	1694	36.8	7.4	586	2.45	26.1	2.4	105.7	6.1	63.5	2.43	4.89	6.22	40	0.69	0.078
STD DS8	Standard	11.60	104.1	135.8	297.6	1723	36.5	7.4	581	2.28	22.8	2.7	101.0	6.3	63.2	2.17	5.45	6.89	37	0.64	0.080
STD DS8	Standard	11.99	109.8	134.5	315.2	1706	37.0	7.3	593	2.41	23.5	2.7	106.6	6.7	66.4	2.11	5.44	6.87	39	0.66	0.082
STD DS8	Standard	12.43	110.9	125.4	326.5	1790	39.2	7.8	614	2.50	27.2	2.7	110.0	6.3	58.5	2.60	5.37	6.66	41	0.69	0.087
STD DS8	Standard	12.08	111.0	115.3	306.2	1739	36.7	7.6	575	2.43	24.6	2.4	110.8	5.8	58.1	2.32	4.99	6.25	40	0.67	0.083
STD DS8	Standard	11.71	99.08	106.9	290.6	1586	33.6	6.8	551	2.19	23.0	2.4	95.0	5.9	58.4	2.09	4.86	5.77	34	0.64	0.076
STD DS8	Standard	10.75	106.0	122.6	318.4	1895	38.0	7.3	611	2.53	26.2	2.5	115.2	5.8	68.6	2.33	5.94	7.49	41	0.64	0.082
STD DS8	Standard	10.58	110.5	124.6	335.3	1843	38.7	7.3	612	2.52	26.1	2.4	118.2	5.7	72.0	2.27	6.14	7.32	41	0.66	0.088
STD R4T	Standard																				
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
STD R4T Expected																					
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: August 13, 2011

Page: 3 of 4 Part 2

QUALITY CONTROL REPORT

WHI11000454.2

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
STD DS8	Standard	13.2	107.5	0.59	266.7	0.101	2	0.87	0.083	0.40	2.8	2.1	5.28	0.16	170	4.7	4.39	4.7	2.32	<0.1	0.07
STD DS8	Standard	14.5	118.7	0.60	282.6	0.109	3	0.92	0.090	0.41	2.9	2.1	5.45	0.16	186	5.1	4.60	4.5	2.40	<0.1	0.07
STD DS8	Standard	14.5	113.8	0.60	267.1	0.094	2	0.96	0.102	0.43	2.9	2.2	5.46	0.15	191	5.1	4.54	4.4	2.34	<0.1	0.09
STD DS8	Standard	15.6	123.1	0.60	273.6	0.098	2	0.97	0.105	0.42	2.7	2.3	5.22	0.15	154	5.2	4.43	4.3	2.25	0.2	0.10
STD DS8	Standard	11.7	108.5	0.56	241.5	0.104	3	0.83	0.081	0.39	2.7	2.0	4.97	0.14	195	5.1	4.68	4.4	2.40	<0.1	0.06
STD DS8	Standard	15.9	111.9	0.59	264.8	0.117	3	0.90	0.087	0.40	3.2	2.2	5.32	0.15	212	5.5	4.96	4.6	2.41	0.1	0.09
STD DS8	Standard	15.4	103.6	0.59	259.5	0.116	3	0.91	0.088	0.41	3.0	2.2	5.23	0.16	206	5.2	5.06	4.5	2.35	<0.1	0.10
STD DS8	Standard	14.3	115.3	0.58	264.7	0.116	2	0.92	0.096	0.40	2.8	2.2	5.31	0.16	194	5.3	5.42	4.6	2.40	0.2	0.08
STD DS8	Standard	14.2	120.5	0.59	262.8	0.115	2	0.94	0.101	0.41	3.0	2.2	5.38	0.16	196	5.3	4.97	4.5	2.37	0.1	0.09
STD DS8	Standard	16.3	118.4	0.60	286.5	0.121	3	0.93	0.090	0.42	3.2	2.5	5.48	0.16	203	5.5	4.85	4.7	2.58	<0.1	0.09
STD DS8	Standard	16.3	110.8	0.59	274.7	0.118	3	0.92	0.091	0.42	3.1	2.3	5.32	0.16	204	5.2	4.90	4.5	2.48	0.2	0.10
STD DS8	Standard	14.3	111.7	0.60	276.7	0.110	3	0.91	0.087	0.41	3.0	2.4	5.19	0.16	220	5.3	4.94	4.5	2.45	<0.1	0.07
STD DS8	Standard	13.8	112.4	0.59	265.8	0.108	3	0.91	0.086	0.41	2.8	2.4	5.08	0.16	185	5.4	5.00	4.5	2.38	0.1	0.08
STD DS8	Standard	11.4	112.8	0.57	252.2	0.098	3	0.85	0.079	0.38	2.8	1.9	5.19	0.15	184	4.7	4.95	4.1	2.29	<0.1	0.08
STD DS8	Standard	12.6	113.1	0.58	259.3	0.101	3	0.90	0.089	0.41	2.8	2.0	5.20	0.16	197	4.9	4.48	4.3	2.32	0.2	0.08
STD DS8	Standard	12.3	117.3	0.61	272.5	0.106	2	0.86	0.079	0.41	3.0	2.3	5.44	0.17	219	5.6	4.87	4.6	2.46	<0.1	0.06
STD DS8	Standard	12.2	108.1	0.59	260.2	0.101	2	0.86	0.080	0.41	2.6	2.1	5.23	0.16	217	4.6	4.61	4.1	2.28	<0.1	0.05
STD DS8	Standard	13.2	104.8	0.55	244.0	0.100	3	0.83	0.076	0.37	2.7	2.0	4.71	0.15	201	4.6	4.51	4.1	2.18	0.1	0.09
STD DS8	Standard	11.0	120.1	0.60	248.8	0.095	3	0.86	0.074	0.41	3.1	1.9	5.64	0.17	211	5.3	4.99	4.3	2.43	<0.1	0.08
STD DS8	Standard	11.6	118.9	0.61	250.9	0.098	4	0.87	0.076	0.41	3.1	1.7	5.53	0.17	203	4.9	5.30	4.5	2.42	<0.1	0.09
STD R4T	Standard																				
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
STD R4T Expected																					
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 13, 2011

Page: 3 of 4 Part 3

QUALITY CONTROL REPORT

WHI11000454.2

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2	7TD Pb %	7TD Zn %
STD DS8	Standard	1.06	33.0	6.1	<0.05	2.1	5.38	24.0	1.87	53	5.0	25.6	117	308		
STD DS8	Standard	1.00	34.6	6.2	<0.05	2.0	5.54	27.2	2.05	48	5.7	28.9	127	359		
STD DS8	Standard	1.18	35.6	6.6	<0.05	1.9	5.31	26.0	1.98	42	4.8	26.6	114	332		
STD DS8	Standard	1.27	36.0	6.7	<0.05	2.1	5.41	26.8	2.04	42	4.9	26.9	123	328		
STD DS8	Standard	1.07	38.3	6.7	<0.05	1.6	5.03	20.7	2.27	54	5.1	26.9	121	319		
STD DS8	Standard	1.40	37.4	6.8	<0.05	2.1	6.12	28.8	2.31	59	5.1	27.3	116	342		
STD DS8	Standard	1.36	36.0	7.0	<0.05	2.0	6.14	28.3	2.15	44	4.5	25.4	112	339		
STD DS8	Standard	1.27	37.0	6.4	<0.05	2.0	5.69	26.7	2.04	52	5.5	23.2	129	341		
STD DS8	Standard	1.25	36.7	6.4	<0.05	2.1	5.85	26.6	1.98	57	4.8	22.9	123	338		
STD DS8	Standard	1.50	40.0	6.5	<0.05	2.2	6.73	30.6	2.15	60	5.2	26.2	117	352		
STD DS8	Standard	1.48	37.2	6.1	<0.05	2.0	6.56	30.7	2.14	55	5.2	26.5	123	341		
STD DS8	Standard	1.15	38.8	5.9	<0.05	2.0	5.63	27.7	2.12	58	4.9	26.3	118	328		
STD DS8	Standard	1.23	38.3	5.8	<0.05	2.0	5.89	26.3	2.15	59	5.1	26.2	115	323		
STD DS8	Standard	1.00	34.3	6.3	<0.05	1.8	4.87	20.7	1.85	48	4.2	27.6	116	352		
STD DS8	Standard	0.95	34.9	6.5	<0.05	1.9	5.21	23.5	2.01	57	5.9	29.7	118	348		
STD DS8	Standard	1.01	36.9	6.6	<0.05	1.9	4.97	23.1	1.96	41	5.1	28.9	113	352		
STD DS8	Standard	1.03	34.4	6.3	<0.05	1.6	4.88	23.4	2.00	48	4.8	25.7	114	324		
STD DS8	Standard	1.18	34.3	6.4	<0.05	2.0	5.09	25.0	1.92	42	4.4	25.0	107	324		
STD DS8	Standard	0.92	36.2	6.8	<0.05	1.7	4.85	20.4	2.18	51	5.4	27.6	130	344		
STD DS8	Standard	1.01	37.1	6.5	<0.05	1.8	4.97	20.7	2.06	55	6.0	27.7	126	349		
STD R4T	Standard														1.58	3.45
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339		
STD R4T Expected															1.518	3.376
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2		



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: August 13, 2011

Page: 4 of 4 Part 1

QUALITY CONTROL REPORT

WHI11000454.2

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

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Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: August 13, 2011

Page: 4 of 4 Part 2

QUALITY CONTROL REPORT

WHI11000454.2

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

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Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: August 13, 2011

Page: 4 of 4 Part 3

QUALITY CONTROL REPORT

WHI11000454.2

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2	7TD Pb %	7TD Zn %
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	<0.02	<0.01



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Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: July 04, 2011
Report Date: July 24, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI11000455.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-14
P.O. Number: NA-10330
Number of Samples: 19

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	18	Crush, split and pulverize 250 g rock to 200 mesh			WHI
3B01	19	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX1	19	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
7TD	2	4-acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: Simon Ridgway
database backup
Scott Turton



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 24, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

WHI11000455.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
118762	Rock	2.04	<2	1.0	1.0	740.2	2498	<0.1	0.5	0.1	193	11.87	6.7	<0.5	<0.1	3	0.7	0.6	<0.1	<2	0.71
118763	Rock	2.54	<2	1.1	1.2	202.5	291	0.3	1.0	0.4	591	1.70	9.0	<0.5	<0.1	27	1.2	1.2	<0.1	<2	8.42
118764	Rock	2.44	<2	0.4	0.5	11.3	78	<0.1	1.1	0.2	771	0.43	3.3	<0.5	<0.1	54	0.2	0.1	<0.1	<2	13.27
118765	Rock	2.53	<2	0.4	0.7	65.5	84	<0.1	0.5	0.2	551	0.61	3.5	<0.5	<0.1	37	0.6	0.2	<0.1	<2	10.20
118451	Rock	2.17	3	2.5	7.1	4.6	40	<0.1	7.5	5.8	1045	1.97	9.9	<0.5	1.3	355	0.3	0.2	<0.1	36	28.10
118759	Rock	0.86	5	0.3	65.3	2.1	95	<0.1	37.7	34.7	954	7.59	<0.5	<0.5	2.0	41	0.1	<0.1	<0.1	251	2.84
118760	Rock	4.02	<2	0.9	67.6	2.2	144	<0.1	27.7	28.4	939	5.24	0.7	<0.5	2.1	118	0.3	<0.1	<0.1	159	4.49
118761	Rock	0.97	<2	21.0	1.0	1.1	14	<0.1	2.7	0.5	102	0.26	36.7	<0.5	0.3	158	0.2	0.3	<0.1	15	25.46
118607	Rock	0.89	<2	0.5	1.4	39.3	>10000	0.2	0.7	0.3	1386	0.89	3.8	<0.5	0.2	66	45.5	<0.1	<0.1	<2	18.48
118606	Rock	1.64	<2	1.4	2.0	>10000	>10000	0.2	1.9	0.5	511	>40	5.2	<0.5	0.4	2	49.4	<0.1	<0.1	3	0.48
119173	Rock	2.04	4	0.6	2.9	17.1	59	<0.1	5.6	2.9	113	0.76	5.6	3.5	4.5	2	0.1	0.3	<0.1	<2	0.07
119174	Rock	1.63	<2	0.3	1.3	25.6	22	<0.1	2.7	1.1	72	1.10	6.9	4.5	0.9	119	<0.1	0.2	<0.1	2	19.62
119175	Rock	1.30	<2	0.5	0.8	193.2	834	<0.1	0.5	0.2	30	2.28	1.6	5.3	<0.1	1	0.1	<0.1	<0.1	<2	0.19
119177	Rock	3.06	<2	0.8	6.5	8.9	12	<0.1	5.9	0.9	29	3.82	15.9	4.3	0.4	37	0.2	0.9	<0.1	37	33.18
119178	Rock	1.08	<2	0.2	1.1	2.2	106	<0.1	17.3	0.3	55	0.07	18.2	3.8	<0.1	65	1.5	0.1	<0.1	5	36.56
119179	Rock	1.39	<2	0.3	1.8	1.4	76	<0.1	19.3	0.6	75	0.09	24.3	3.6	0.2	54	0.8	0.2	<0.1	6	35.11
119180	Rock	1.38	<2	0.4	1.5	1.9	98	<0.1	16.6	0.4	53	0.04	13.4	3.3	0.1	52	1.6	0.1	<0.1	3	35.76
119181	Rock Pulp	0.10	2639	16.1	36.7	31.1	179	1.0	47.6	6.2	261	1.91	532.2	59.0	2.7	49	2.2	24.0	0.3	98	7.52
119176	Rock	2.98	<2	2.9	1.3	184.6	3454	0.2	2.0	0.7	788	11.77	15.4	9.0	0.1	46	1.8	1.4	<0.1	<2	11.80



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 24, 2011

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

WHI11000455.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	7TD	7TD	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	Zn	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.02	0.01	
118762	Rock	0.014	<1	<1	0.38	2	<0.001	<20	<0.01	<0.001	<0.01	<0.1	0.68	0.1	3.3	<0.05	<1	<0.5	<0.2		
118763	Rock	0.011	<1	<1	4.10	2	<0.001	<20	<0.01	0.003	<0.01	<0.1	0.31	<0.1	1.7	1.07	<1	<0.5	<0.2		
118764	Rock	0.012	<1	1	7.25	3	<0.001	<20	0.01	0.005	<0.01	<0.1	0.06	<0.1	1.5	0.31	<1	<0.5	<0.2		
118765	Rock	0.010	<1	1	5.74	2	<0.001	<20	<0.01	0.004	<0.01	<0.1	0.10	<0.1	1.1	0.22	<1	<0.5	<0.2		
118451	Rock	0.073	15	8	0.56	264	0.002	<20	0.63	0.004	0.13	<0.1	<0.01	3.5	0.1	0.41	3	<0.5	<0.2		
118759	Rock	0.156	18	48	4.45	85	0.585	<20	4.18	0.056	0.06	0.2	<0.01	12.2	<0.1	<0.05	17	0.6	<0.2		
118760	Rock	0.163	20	3	2.32	65	0.504	<20	2.97	0.132	0.16	0.2	<0.01	5.8	<0.1	<0.05	10	<0.5	<0.2		
118761	Rock	0.073	2	4	7.70	37	0.003	<20	0.10	0.017	0.05	<0.1	<0.01	0.4	0.3	0.09	<1	0.7	<0.2		
118607	Rock	0.042	1	<1	9.40	22	0.001	<20	0.06	0.011	0.02	<0.1	1.59	0.3	0.4	0.41	2	0.8	<0.2	<0.02	1.80
118606	Rock	0.055	1	1	0.29	20	<0.001	<20	0.06	0.002	0.01	<0.1	0.89	0.3	10.5	0.42	1	1.6	<0.2	3.43	2.83
119173	Rock	0.020	2	3	0.03	8	<0.001	<20	0.12	<0.001	0.06	<0.1	0.05	0.6	<0.1	<0.05	<1	<0.5	<0.2		
119174	Rock	0.026	7	2	0.68	93	<0.001	<20	0.11	0.027	0.05	<0.1	<0.01	1.3	<0.1	0.88	<1	0.6	<0.2		
119175	Rock	0.008	<1	1	0.02	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	0.15	0.2	0.6	<0.05	<1	<0.5	<0.2		
119177	Rock	0.029	3	8	0.48	52	<0.001	<20	0.11	<0.001	0.04	<0.1	0.03	0.6	1.8	<0.05	<1	1.9	<0.2		
119178	Rock	0.011	2	<1	0.19	12	<0.001	<20	0.03	0.001	<0.01	<0.1	<0.01	0.3	0.8	<0.05	<1	<0.5	<0.2		
119179	Rock	0.013	2	1	0.21	16	<0.001	<20	0.04	0.002	0.01	<0.1	<0.01	0.3	0.5	<0.05	<1	<0.5	<0.2		
119180	Rock	0.011	2	<1	0.20	10	<0.001	<20	0.03	0.002	<0.01	<0.1	<0.01	0.5	0.4	<0.05	<1	<0.5	<0.2		
119181	Rock Pulp	0.087	10	28	2.03	128	0.005	<20	0.50	0.004	0.20	3.3	4.05	2.5	1.5	1.31	2	3.2	0.2		
119176	Rock	0.046	1	<1	3.86	6	<0.001	<20	0.02	0.004	<0.01	<0.1	1.73	<0.1	47.2	9.11	<1	<0.5	<0.2		



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: July 24, 2011

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000455.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
118762	Rock	2.04	<2	1.0	1.0	740.2	2498	<0.1	0.5	0.1	193	11.87	6.7	<0.5	<0.1	3	0.7	0.6	<0.1	<2	0.71
REP 118762	QC	<2																			
118760	Rock	4.02	<2	0.9	67.6	2.2	144	<0.1	27.7	28.4	939	5.24	0.7	<0.5	2.1	118	0.3	<0.1	<0.1	159	4.49
REP 118760	QC	<2																			
118607	Rock	0.89	<2	0.5	1.4	39.3	>10000	0.2	0.7	0.3	1386	0.89	3.8	<0.5	0.2	66	45.5	<0.1	<0.1	<2	18.48
REP 118607	QC	0.6 1.3 37.3 >10000 0.2 0.8 0.3 1387 0.89 3.9 <0.5 0.2 63 46.3 <0.1 <0.1 <2 18.72																			
118606	Rock	1.64	<2	1.4	2.0	>10000	>10000	0.2	1.9	0.5	511	>40	5.2	<0.5	0.4	2	49.4	<0.1	<0.1	3	0.48
REP 118606	QC																				
Reference Materials																					
STD DS8	Standard	13.4 101.5 122.5 317 1.7 37.4 7.0 612 2.44 27.9 98.7 6.8 75 2.5 3.6 6.4 40 0.73																			
STD OREAS131B	Standard																				
STD OREAS45CA	Standard	0.8 548.0 22.0 67 0.3 281.2 94.5 1026 16.41 4.1 36.6 7.5 18 0.2 <0.1 0.2 226 0.46																			
STD OXC88	Standard	183																			
STD OXC88	Standard	205																			
STD OXH82	Standard	1239																			
STD OXH82	Standard	1339																			
STD R4T	Standard																				
STD SU-1B	Standard																				
STD OXC88 Expected		203																			
STD OXH82 Expected		1278																			
STD DS8 Expected		13.44 110 123 312 1.69 38.1 7.5 615 2.46 26 107 6.89 67.7 2.38 4.8 6.67 41.1 0.7																			
STD OREAS45CA Expected		1 494 20 60 0.275 240 92 943 15.69 3.8 43 7 15 0.1 0.13 0.19 215 0.4265																			
STD R4T Expected																					
STD OREAS131B Expected																					
STD SU-1B Expected																					
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank	<2																			



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Project: Scarlet
Report Date: July 24, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000455.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	7TD	7TD	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	Zn	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.02	0.01	
Pulp Duplicates																					
118762	Rock	0.014	<1	<1	0.38	2	<0.001	<20	<0.01	<0.001	<0.01	<0.1	0.68	0.1	3.3	<0.05	<1	<0.5	<0.2		
REP 118762	QC																				
118760	Rock	0.163	20	3	2.32	65	0.504	<20	2.97	0.132	0.16	0.2	<0.01	5.8	<0.1	<0.05	10	<0.5	<0.2		
REP 118760	QC																				
118607	Rock	0.042	1	<1	9.40	22	0.001	<20	0.06	0.011	0.02	<0.1	1.59	0.3	0.4	0.41	2	0.8	<0.2	<0.02	1.80
REP 118607	QC	0.043	1	1	9.45	21	0.001	<20	0.06	0.011	0.02	<0.1	1.61	0.3	0.4	0.42	2	0.9	<0.2		
118606	Rock	0.055	1	1	0.29	20	<0.001	<20	0.06	0.002	0.01	<0.1	0.89	0.3	10.5	0.42	1	1.6	<0.2	3.43	2.83
REP 118606	QC																			3.41	2.85
Reference Materials																					
STD DS8	Standard	0.080	15	110	0.61	305	0.110	<20	0.94	0.094	0.40	2.6	0.18	2.1	5.2	0.15	5	5.2	5.3		
STD OREAS131B	Standard																			1.79	3.19
STD OREAS45CA	Standard	0.043	18	797	0.14	191	0.152	<20	4.27	0.008	0.08	<0.1	0.03	37.8	<0.1	<0.05	21	0.8	<0.2		
STD OXC88	Standard																				
STD OXC88	Standard																				
STD OXH82	Standard																				
STD OXH82	Standard																				
STD R4T	Standard																			1.53	3.49
STD SU-1B	Standard																			<0.02	0.03
STD OXC88 Expected																					
STD OXH82 Expected																					
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5		
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	39.7	0.07	0.021	18.4	0.5			
STD R4T Expected																				1.518	3.376
STD OREAS131B Expected																				1.86	3.14
STD SU-1B Expected																				0.0058	0.0235
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



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Project: Scarlet

Report Date: July 24, 2011

Page: 2 of 2 **Part** 1

QUALITY CONTROL REPORT

WHI11000455.1

		WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank																				
Prep Wash																					
G1	Prep Blank		<2	0.1	3.7	19.1	51	<0.1	3.5	4.3	615	2.02	<0.5	2.6	6.0	81	<0.1	<0.1	<0.1	37	0.58
G1	Prep Blank		<2	0.2	2.2	4.3	51	<0.1	3.7	4.3	593	2.02	<0.5	0.6	6.9	79	<0.1	<0.1	<0.1	38	0.56



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Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000455.1

		1DX P %	1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Sc ppm	1DX Tl ppm	1DX S %	1DX Ga ppm	1DX Se ppm	1DX Te ppm	7TD Pb %	7TD Zn %
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank																			<0.02	<0.01
Prep Wash																					
G1	Prep Blank	0.082	12	6	0.60	232	0.134	<20	1.16	0.123	0.50	<0.1	<0.01	2.2	0.3	<0.05	6	<0.5	<0.2		
G1	Prep Blank	0.079	14	7	0.59	231	0.136	<20	1.11	0.115	0.52	<0.1	<0.01	2.1	0.3	<0.05	6	<0.5	<0.2		



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Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: July 04, 2011
Report Date: August 18, 2011
Page: 1 of 6

CERTIFICATE OF ANALYSIS

WHI11000456.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-12
P.O. Number
Number of Samples: 128

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
S150	112	Sieve to 150 mesh			VAN
3B01+3B04	112	lead collection fire assay - ICP-ES finish	50	Completed	VAN
1F03	112	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
RJSV	112	Saving all or part of Soil Reject			VAN

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: David Clark
database backup
Simon Ridgway
Scott Turton



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 18, 2011

Page: 2 of 6 Part 1

CERTIFICATE OF ANALYSIS

WHI11000456.1

Method	WGHT	3B-50	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
121651	Silt	2.77	<2	0.98	17.49	179.0	963.6	164	16.4	7.7	849	2.84	14.7	1.8	6.0	2.4	56.2	1.97	1.39	0.17	8
121652	Silt	3.02	<2	0.89	5.89	3.81	18.7	32	9.5	3.5	121	0.67	5.6	0.6	2.8	0.8	88.1	0.16	0.24	0.07	8
121653	Silt	4.43	<2	0.90	4.05	3.30	15.1	24	7.8	2.7	95	0.57	4.9	0.7	<0.2	0.8	100.6	0.12	0.20	0.04	7
121655	Silt	3.41	<2	0.64	35.50	20.37	89.5	42	31.4	18.8	1651	3.47	6.1	0.9	1.4	4.3	27.9	0.15	0.23	0.38	22
121656	Silt	3.87	<2	0.42	24.94	24.50	118.6	74	27.3	12.7	578	3.39	8.2	0.5	0.6	2.1	89.9	0.13	0.32	0.27	14
120596	Silt	2.41	<2	1.07	7.00	4.93	26.7	29	12.7	4.0	151	0.77	52.1	1.3	0.4	0.7	113.2	0.21	0.25	0.06	12
120599	Silt	2.66	<2	1.01	15.22	8.58	39.4	46	17.1	11.4	517	2.44	27.8	0.7	1.1	1.4	89.7	0.24	0.30	0.06	36
120600	Silt	3.71	<2	0.93	14.65	8.39	39.8	52	17.1	10.4	501	2.22	20.6	0.6	0.4	1.2	80.9	0.23	0.28	0.06	33
120521	Silt	3.45	<2	0.36	14.13	15.91	155.1	48	22.6	8.6	315	1.98	4.7	0.7	1.0	2.5	42.6	0.47	0.17	0.14	15
120522	Silt	2.29	<2	0.56	21.54	13.50	85.6	55	23.6	8.3	278	1.92	10.7	1.2	0.9	1.9	86.0	0.27	0.25	0.15	18
121851	Silt	3.11	<2	0.80	13.43	7.49	39.6	54	14.6	8.3	476	1.73	23.7	0.8	0.6	1.1	96.6	0.29	0.29	0.06	28
121852	Silt	3.05	<2	0.74	13.20	7.60	44.9	57	13.7	7.2	350	1.56	22.0	0.7	0.5	1.0	79.7	0.28	0.35	0.06	23
121853	Silt	2.98	3	0.66	12.74	9.95	48.9	54	12.9	6.7	306	1.40	12.6	0.5	0.9	1.4	71.8	0.27	0.60	0.06	19
121854	Silt	3.60	<2	0.78	15.37	10.90	58.5	69	15.9	7.9	360	1.66	21.0	0.7	0.7	1.9	88.6	0.31	0.56	0.08	26
121855	Silt	2.82	<2	0.66	12.44	9.60	49.0	54	13.8	6.1	286	1.30	20.4	0.6	0.4	1.4	97.5	0.26	0.49	0.07	20
121856	Silt	3.58	<2	0.66	13.20	10.74	50.1	58	13.5	5.6	250	1.19	26.4	0.9	2.2	1.4	110.7	0.28	0.47	0.10	21
120584	Silt	1.89	<2	1.79	18.52	16.11	91.4	120	25.8	8.0	724	1.59	5.9	1.7	0.9	1.3	70.1	0.67	0.37	0.14	23
120586	Silt	3.27	<2	1.26	19.51	17.26	107.9	89	22.8	11.9	372	3.05	6.0	0.9	0.5	3.2	26.7	0.37	0.28	0.19	26
120588	Silt	3.16	<2	1.06	9.27	5.82	151.3	47	36.1	3.7	317	0.81	6.3	1.7	<0.2	0.7	53.7	1.62	0.34	0.04	20
120580	Silt	4.00	<2	1.39	16.32	31.90	70.1	117	22.5	9.2	504	1.96	6.3	1.0	<0.2	2.2	37.4	0.29	0.29	0.14	19
120581	Silt	3.02	<2	1.33	13.16	11.14	71.5	102	20.6	7.5	570	1.35	5.4	1.1	<0.2	0.8	38.8	0.44	0.23	0.10	16
120582	Silt	2.51	<2	1.51	14.17	10.70	73.3	92	21.0	7.6	560	1.57	6.3	1.1	0.2	1.0	50.7	0.50	0.25	0.10	17
120574	Silt	1.95	<2	1.34	20.71	16.62	157.1	245	23.6	20.2	7183	4.00	11.6	0.9	1.0	1.2	30.1	1.08	0.30	0.21	19
120575	Silt	2.39	<2	1.39	22.47	17.32	116.7	174	29.1	11.7	942	2.87	6.1	1.0	<0.2	1.8	31.7	0.63	0.45	0.20	29
120576	Silt	2.37	<2	1.17	18.68	18.14	104.3	118	28.2	11.7	786	2.62	5.4	0.7	0.2	1.8	25.6	0.57	0.37	0.18	23
120577	Silt	2.25	<2	0.66	3.73	2.96	28.4	43	7.1	2.0	123	0.37	2.9	0.7	0.4	0.3	19.0	0.21	0.13	0.02	7
120578	Silt	1.97	<2	1.30	8.68	7.49	51.1	70	15.0	5.0	264	1.03	5.3	1.0	<0.2	0.6	39.2	0.29	0.25	0.07	13
120579	Silt	2.10	<2	1.29	7.80	6.42	52.9	80	15.7	4.7	396	0.86	4.8	1.2	<0.2	0.5	40.4	0.35	0.23	0.06	14
118883	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118884	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



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Project: Scarlet
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Page: 2 of 6 Part 2

CERTIFICATE OF ANALYSIS

WHI11000456.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	
121651	Silt	8.27	0.076	4.8	5.5	4.25	28.9	0.001	3	0.20	0.005	0.07	<0.1	2.2	0.72	0.06	346	0.3	0.02	0.8
121652	Silt	17.12	0.020	4.4	5.6	7.08	108.2	0.003	3	0.20	0.008	0.03	<0.1	1.0	0.15	<0.02	10	0.2	0.04	0.5
121653	Silt	19.72	0.015	3.9	4.5	8.09	106.0	0.003	3	0.16	0.009	0.03	<0.1	0.8	0.07	<0.02	6	0.1	<0.02	0.4
121655	Silt	0.94	0.035	5.0	28.3	0.86	259.1	0.004	2	1.51	0.007	0.13	<0.1	3.6	0.10	<0.02	13	0.1	0.02	5.0
121656	Silt	1.82	0.052	2.7	15.8	0.90	95.2	0.002	4	0.94	0.004	0.10	<0.1	3.1	0.07	0.04	42	0.4	0.05	2.8
120596	Silt	18.39	0.029	4.2	7.5	7.11	39.4	0.003	4	0.26	0.011	0.05	<0.1	0.9	0.23	<0.02	17	0.2	0.04	0.7
120599	Silt	14.69	0.072	10.8	12.7	6.00	72.3	0.010	5	0.57	0.009	0.08	<0.1	3.5	0.38	0.02	15	0.3	0.04	1.8
120600	Silt	12.78	0.069	9.6	11.9	5.56	59.9	0.008	3	0.49	0.008	0.06	<0.1	3.2	0.22	0.02	14	0.3	0.04	1.7
120521	Silt	2.40	0.071	8.6	18.9	1.57	97.2	0.005	4	0.93	0.004	0.10	<0.1	2.0	0.11	0.05	40	0.5	0.03	2.8
120522	Silt	4.52	0.069	8.6	25.1	2.45	141.8	0.005	4	1.06	0.004	0.06	<0.1	2.4	0.35	0.04	48	0.9	<0.02	3.1
121851	Silt	15.40	0.058	7.6	11.0	6.25	78.0	0.009	4	0.47	0.009	0.05	<0.1	2.5	0.29	<0.02	16	0.3	0.04	1.5
121852	Silt	10.95	0.054	6.4	10.6	4.69	84.0	0.008	3	0.44	0.007	0.04	<0.1	2.1	0.21	<0.02	25	0.3	0.03	1.4
121853	Silt	8.96	0.042	5.3	9.5	3.83	80.8	0.014	2	0.44	0.007	0.05	<0.1	1.9	0.11	<0.02	30	0.1	0.03	1.3
121854	Silt	10.85	0.064	7.5	13.6	4.52	113.7	0.017	3	0.64	0.010	0.06	0.1	2.4	0.20	<0.02	35	0.3	0.04	1.8
121855	Silt	12.78	0.049	5.4	10.5	5.58	96.5	0.011	3	0.46	0.009	0.05	<0.1	1.8	0.29	<0.02	33	0.3	0.03	1.4
121856	Silt	13.34	0.046	6.7	10.3	6.03	103.3	0.012	3	0.46	0.010	0.06	<0.1	1.8	0.37	<0.02	28	0.4	0.03	1.4
120584	Silt	9.57	0.089	11.2	16.3	3.92	138.9	0.004	6	0.79	0.005	0.12	<0.1	2.1	0.24	0.05	31	1.1	0.03	1.9
120586	Silt	0.84	0.070	13.4	21.6	0.49	292.8	0.004	6	1.17	0.002	0.20	<0.1	3.3	0.16	0.06	25	1.0	0.02	3.5
120588	Silt	12.90	0.093	7.5	8.6	5.12	125.0	0.003	4	0.30	0.004	0.05	<0.1	1.1	0.30	<0.02	25	0.4	0.02	0.7
120580	Silt	4.21	0.078	11.2	15.4	1.99	92.3	0.003	4	0.73	0.004	0.12	<0.1	2.3	0.14	<0.02	9	0.4	0.04	2.0
120581	Silt	6.61	0.080	6.8	10.9	3.07	79.3	0.003	3	0.46	0.003	0.05	<0.1	1.3	0.13	0.02	18	0.5	0.02	1.2
120582	Silt	7.99	0.087	7.6	11.2	3.29	89.5	0.003	4	0.50	0.003	0.06	<0.1	1.6	0.16	0.03	11	0.5	0.04	1.3
120574	Silt	0.80	0.116	11.8	23.2	0.37	412.5	0.004	7	1.02	0.002	0.08	<0.1	2.0	0.12	0.16	89	2.5	0.07	2.8
120575	Silt	0.63	0.090	11.6	23.7	0.39	172.2	0.003	4	1.24	0.001	0.13	<0.1	3.3	0.14	0.06	31	1.1	0.07	3.5
120576	Silt	0.49	0.062	10.5	18.9	0.37	154.5	0.003	4	1.09	<0.001	0.11	<0.1	2.5	0.12	0.04	17	0.7	0.04	3.1
120577	Silt	5.49	0.038	2.6	3.5	2.64	25.5	0.002	2	0.12	0.002	0.01	<0.1	0.4	0.08	<0.02	<5	0.2	<0.02	0.3
120578	Silt	8.45	0.060	4.8	8.4	3.73	53.9	0.002	2	0.31	0.003	0.04	<0.1	0.9	0.11	<0.02	7	0.3	0.04	0.8
120579	Silt	9.94	0.070	5.3	7.9	4.61	63.2	0.003	3	0.32	0.004	0.04	<0.1	0.9	0.14	<0.02	13	0.4	0.03	0.8
118883	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118884	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 18, 2011

Page: 3 of 6 Part 1

CERTIFICATE OF ANALYSIS

WHI11000456.1

Method	WGHT	3B-50	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
118885	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118886	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118887	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118888	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118889	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118890	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118891	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118892	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118893	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118894	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118895	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118896	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118897	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118898	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118699	Silt	3.29	<2	1.50	8.52	5.80	91.9	18	35.0	4.5	237	0.78	22.1	2.4	<0.2	1.4	69.8	0.61	0.48	0.05	22
118700	Silt	3.25	<2	0.83	2.72	2.27	16.8	7	6.6	1.5	65	0.30	3.7	1.3	<0.2	0.5	50.7	0.14	0.18	0.02	5
119223	Silt	2.78	<2	1.12	2.39	5.00	21.7	22	4.8	1.0	144	0.28	6.1	1.2	<0.2	0.2	56.1	0.10	0.35	<0.02	11
119224	Silt	2.41	<2	0.22	0.74	1.19	6.7	8	2.3	0.3	64	0.08	1.8	0.6	<0.2	<0.1	27.0	0.05	0.09	<0.02	4
119225	Silt	3.57	<2	0.94	3.71	2.82	20.6	13	8.3	1.9	66	0.61	4.1	1.2	<0.2	0.6	65.1	0.13	0.22	0.03	8
119226	Silt	3.07	<2	2.10	3.62	2.87	12.8	13	7.6	1.8	64	0.46	4.7	1.1	<0.2	0.4	54.8	0.11	0.23	0.03	5
119227	Silt	3.65	<2	2.24	3.54	2.92	13.0	12	8.6	2.1	72	0.43	4.9	1.2	<0.2	0.4	70.9	0.11	0.21	0.03	5
119228	Silt	3.50	<2	1.96	4.29	3.35	21.2	17	7.1	1.8	75	0.39	4.5	1.5	1.5	0.7	70.3	0.22	0.29	0.09	6
119229	Silt	5.04	<2	2.18	2.87	2.12	13.9	29	5.7	1.0	44	0.25	6.3	1.4	<0.2	0.5	38.2	0.16	0.22	0.02	8
119230	Silt	3.39	<2	3.36	7.72	6.41	38.8	89	13.4	4.5	193	0.93	9.7	2.5	<0.2	1.2	82.4	0.30	0.29	0.07	24
119231	Silt	2.81	<2	1.53	8.90	6.16	57.0	30	20.0	3.5	160	0.80	19.6	2.8	<0.2	1.1	71.8	0.29	0.51	0.04	20
119232	Silt	2.03	<2	1.51	9.19	6.42	56.3	26	21.2	4.0	184	0.91	18.9	2.6	<0.2	1.2	79.2	0.19	0.45	0.06	21
118009	Silt	2.10	<2	1.06	10.59	8.05	94.6	59	25.0	4.4	227	1.05	6.9	1.7	<0.2	1.5	78.7	0.89	0.41	0.06	19
118010	Silt	3.37	<2	0.89	4.89	3.71	39.9	22	10.4	2.3	129	0.53	3.5	0.9	<0.2	0.7	48.7	0.39	0.22	0.05	8
118011	Silt	2.51	<2	0.87	4.46	4.14	33.3	19	7.8	2.2	150	0.56	3.3	0.9	<0.2	0.8	55.2	0.23	0.18	0.04	8
118673	Silt	4.96	<2	0.41	32.44	21.13	81.4	80	29.2	13.8	601	3.10	13.4	0.7	<0.2	3.9	72.0	0.10	0.56	0.34	11



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 18, 2011

Page: 3 of 6 Part 2

CERTIFICATE OF ANALYSIS

WHI11000456.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	
118885	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118886	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118887	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118888	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118889	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118890	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118891	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118892	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118893	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118894	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118895	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118896	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118897	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118898	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
118699	Silt	21.61	0.059	6.6	4.9	5.87	50.8	0.004	2	0.32	0.005	0.04	<0.1	1.3	0.39	<0.02	15	<0.1	0.05	0.9
118700	Silt	11.64	0.022	2.5	2.4	4.69	46.0	0.002	2	0.10	0.005	0.03	<0.1	0.5	0.11	<0.02	<5	<0.1	0.03	0.3
119223	Silt	19.00	0.018	2.0	2.5	8.84	12.0	<0.001	2	0.06	0.006	0.02	<0.1	0.3	0.20	<0.02	13	0.1	0.05	0.2
119224	Silt	9.12	0.010	1.2	1.3	4.75	5.3	<0.001	1	0.02	0.003	<0.01	<0.1	0.1	0.04	<0.02	<5	<0.1	<0.02	<0.1
119225	Silt	15.42	0.026	2.9	3.7	5.62	31.8	0.002	3	0.12	0.007	0.03	<0.1	0.7	0.18	<0.02	<5	0.2	0.03	0.3
119226	Silt	15.41	0.025	3.0	3.3	6.99	21.6	0.002	2	0.10	0.006	0.03	<0.1	0.6	0.13	<0.02	<5	0.2	0.03	0.2
119227	Silt	18.41	0.024	3.0	3.4	8.13	20.6	0.001	2	0.08	0.007	0.02	<0.1	0.7	0.14	<0.02	<5	0.2	0.05	0.2
119228	Silt	16.47	0.023	3.7	3.5	7.77	24.7	0.002	3	0.13	0.007	0.03	<0.1	0.9	0.19	<0.02	6	0.3	<0.02	0.3
119229	Silt	8.11	0.024	2.4	2.4	4.35	16.7	0.001	2	0.08	0.005	0.02	<0.1	0.4	0.27	<0.02	<5	0.1	0.03	0.2
119230	Silt	13.74	0.064	6.1	6.8	7.35	69.8	0.002	3	0.27	0.008	0.07	<0.1	1.1	0.31	0.06	28	0.2	<0.02	0.7
119231	Silt	15.64	0.054	6.3	6.4	6.45	49.1	0.004	<1	0.25	0.008	0.04	<0.1	1.2	0.31	0.06	20	0.3	<0.02	0.6
119232	Silt	15.23	0.057	6.8	7.1	6.43	50.9	0.004	2	0.27	0.008	0.05	<0.1	1.5	0.27	0.05	16	<0.1	0.12	0.7
118009	Silt	15.86	0.064	10.0	9.7	5.20	130.7	0.004	1	0.36	0.006	0.06	<0.1	1.7	0.24	0.05	20	0.7	0.03	1.1
118010	Silt	8.88	0.030	4.6	4.9	3.37	72.3	0.002	<1	0.19	0.004	0.03	<0.1	0.9	0.13	<0.02	9	0.3	0.05	0.4
118011	Silt	11.32	0.026	4.2	4.9	4.36	101.9	0.002	1	0.18	0.005	0.04	<0.1	0.7	0.11	<0.02	<5	<0.1	0.04	0.5
118673	Silt	2.29	0.035	5.0	16.4	1.13	48.5	0.001	<1	1.03	0.003	0.06	<0.1	3.0	0.06	0.09	415	1.0	0.06	3.1



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 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 18, 2011

Page: 4 of 6 Part 1

CERTIFICATE OF ANALYSIS

WHI11000456.1

Method	WGHT	3B-50	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
118676	Silt	3.38	<2	1.02	45.35	42.92	108.8	46	33.1	20.8	2015	3.96	15.1	1.3	<0.2	5.3	22.7	0.25	0.30	0.51	29
118677	Silt	3.15	<2	1.30	44.22	42.61	109.9	47	32.0	21.3	2223	3.87	15.5	1.2	<0.2	5.1	23.1	0.34	0.25	0.45	29
118678	Silt	3.00	<2	1.21	40.80	39.96	107.7	44	32.8	20.6	1971	3.93	13.8	1.1	<0.2	5.4	20.0	0.32	0.22	0.44	29
118679	Silt	2.97	<2	1.38	38.13	38.15	120.0	59	32.6	19.3	1708	3.63	13.6	1.4	<0.2	5.0	26.1	0.36	0.30	0.36	28
118680	Silt	2.72	<2	2.23	38.45	25.59	132.8	128	29.7	12.6	1165	2.70	13.2	2.1	<0.2	3.2	48.9	0.71	0.54	0.27	25
118681	Silt	2.63	<2	2.34	29.12	18.00	141.4	154	28.5	10.0	750	2.36	13.5	3.2	<0.2	3.0	69.3	1.06	0.64	0.16	25
118682	Silt	3.81	<2	2.32	25.29	18.64	128.9	138	24.7	9.4	751	2.09	11.2	3.3	<0.2	3.2	67.4	0.88	0.58	0.15	25
118001	Silt	4.35	<2	1.27	4.85	3.83	34.0	16	11.6	2.3	88	0.39	4.4	1.7	<0.2	0.7	72.6	0.28	0.31	0.04	8
118002	Silt	6.99	<2	2.33	4.61	3.28	26.9	29	13.7	2.9	94	0.54	4.9	1.2	<0.2	0.5	55.3	0.12	0.41	<0.02	12
118003	Silt	3.94	<2	1.05	3.38	2.45	23.8	7	7.9	1.4	72	0.31	3.1	1.3	<0.2	0.4	50.7	0.19	0.25	0.03	8
118004	Silt	2.89	<2	0.99	3.15	2.52	17.2	16	7.1	1.4	65	0.32	3.0	1.2	<0.2	0.4	47.8	0.14	0.15	<0.02	7
118005	Silt	2.26	<2	0.78	1.65	1.66	7.3	12	3.5	0.6	58	0.14	2.4	1.0	<0.2	0.3	61.3	0.02	0.13	<0.02	5
118006	Silt	2.49	<2	1.44	2.87	2.77	11.9	21	5.3	1.1	75	0.26	3.6	1.4	<0.2	0.4	65.4	0.11	0.17	<0.02	6
118013	Silt	2.11	<2	3.79	12.28	9.22	66.8	98	19.7	6.3	203	1.47	9.8	1.5	<0.2	2.2	79.9	0.44	0.56	0.07	18
118015	Silt	3.68	<2	1.75	4.96	3.92	32.0	35	9.7	2.6	113	0.63	5.2	1.0	<0.2	0.9	55.9	0.22	0.26	0.03	10
118016	Silt	6.35	<2	1.98	5.61	4.76	33.7	46	10.7	2.8	122	0.71	5.9	1.2	<0.2	1.2	73.8	0.29	0.39	0.03	11
118017	Silt	4.57	<2	2.00	5.10	4.33	33.6	33	9.6	2.5	132	0.63	5.8	1.1	<0.2	0.9	70.7	0.22	0.31	<0.02	11
118018	Silt	3.70	<2	1.58	5.09	3.62	28.5	36	8.8	2.3	116	0.61	5.7	1.0	<0.2	0.8	70.3	0.17	0.31	0.04	10
118019	Silt	2.86	<2	2.02	6.22	5.32	41.1	60	11.3	3.1	141	0.78	6.2	1.2	<0.2	1.1	79.3	0.30	0.32	0.04	12
118020	Silt	2.67	<2	1.90	6.58	5.29	41.8	36	11.7	3.4	181	0.77	5.3	1.2	<0.2	1.2	79.4	0.35	0.33	0.05	12
118021	Silt	1.32	<2	1.27	14.18	11.22	54.6	55	15.9	5.6	207	1.38	32.1	1.5	<0.2	1.3	88.9	0.21	0.42	0.12	22
118022	Silt	2.42	<2	2.54	16.75	15.12	84.6	75	18.7	6.6	307	1.63	37.9	1.6	<0.2	1.5	74.9	0.41	0.60	0.16	26
118023	Silt	1.95	<2	1.52	24.24	23.70	105.4	130	20.2	8.2	425	1.84	32.1	1.4	<0.2	1.7	85.1	0.55	0.62	0.22	22
118024	Silt	2.25	<2	2.01	27.15	29.29	105.5	92	45.3	13.1	573	2.50	69.5	2.0	<0.2	2.3	91.9	0.52	0.99	0.14	22
118025	Silt	3.14	<2	1.29	27.08	35.85	108.1	93	28.1	12.5	510	2.66	26.4	1.5	<0.2	2.4	84.0	0.50	0.82	0.18	22
118026	Silt	2.62	4	1.57	21.61	8.24	496.4	59	101.6	6.7	463	1.52	13.3	3.2	<0.2	1.5	50.1	3.68	0.82	0.15	37
118027	Silt	2.40	<2	1.83	28.39	9.52	552.7	78	126.6	7.8	439	1.52	13.9	4.3	3.0	1.3	71.4	4.35	1.16	0.15	40
118028	Silt	1.76	<2	1.72	26.33	9.02	482.6	73	114.0	6.4	387	1.45	12.4	4.0	1.5	1.2	74.1	3.56	1.02	0.12	38
118029	Silt	3.18	<2	1.49	15.37	6.39	268.6	57	58.1	4.4	298	0.98	10.4	2.9	0.8	0.9	76.2	2.01	0.67	0.08	25
118030	Silt	2.89	<2	1.07	12.00	5.90	198.4	55	42.9	3.8	249	0.87	6.9	2.1	0.6	1.0	72.4	1.99	0.54	0.06	21



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 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 18, 2011

Page: 4 of 6 Part 2

CERTIFICATE OF ANALYSIS

WHI11000456.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	
118676	Silt	0.49	0.035	5.6	29.5	0.61	391.8	0.005	<1	1.45	0.005	0.12	0.2	4.2	0.11	<0.02	21	0.4	0.02	5.5
118677	Silt	0.48	0.034	5.8	29.9	0.59	324.5	0.005	<1	1.47	0.005	0.12	0.1	4.0	0.08	<0.02	12	0.7	0.12	5.3
118678	Silt	0.43	0.031	5.7	29.4	0.60	265.9	0.005	1	1.52	0.005	0.13	<0.1	3.9	0.11	<0.02	6	0.5	0.07	5.4
118679	Silt	1.02	0.050	7.0	27.7	0.79	329.0	0.005	<1	1.42	0.005	0.13	<0.1	3.9	0.16	0.02	22	0.6	0.04	5.1
118680	Silt	3.56	0.122	10.4	19.3	1.54	291.6	0.004	4	1.00	0.004	0.12	0.1	3.9	0.18	0.05	44	0.7	0.04	3.1
118681	Silt	6.54	0.173	12.4	15.0	2.86	335.9	0.004	3	0.77	0.006	0.14	<0.1	3.5	0.20	0.05	41	0.8	0.02	2.3
118682	Silt	6.36	0.190	12.1	15.1	2.73	348.4	0.004	4	0.77	0.006	0.16	<0.1	3.4	0.21	0.04	37	0.9	0.13	2.3
118001	Silt	12.91	0.026	4.2	4.0	6.27	38.4	0.002	2	0.17	0.007	0.03	<0.1	0.7	0.20	0.02	23	0.8	0.10	0.4
118002	Silt	13.19	0.023	4.3	14.8	7.19	39.3	0.003	1	0.17	0.009	0.02	<0.1	1.5	0.49	0.03	12	0.5	0.04	0.4
118003	Silt	13.33	0.020	3.5	3.9	7.12	28.7	0.002	<1	0.13	0.007	0.02	<0.1	0.5	0.43	0.02	6	0.2	0.05	0.2
118004	Silt	12.41	0.021	3.0	5.0	5.66	34.0	0.003	2	0.13	0.006	0.02	<0.1	0.7	0.22	<0.02	<5	0.3	0.03	0.2
118005	Silt	16.83	0.011	2.2	3.8	6.49	25.1	<0.001	<1	0.05	0.007	0.01	<0.1	0.5	0.08	0.04	<5	0.2	0.05	0.1
118006	Silt	16.98	0.020	2.9	4.6	7.35	37.8	0.001	<1	0.09	0.008	0.01	<0.1	0.6	0.12	0.05	<5	0.2	0.06	0.2
118013	Silt	10.75	0.051	6.7	8.8	5.47	197.1	0.002	2	0.39	0.007	0.08	<0.1	2.0	0.30	0.10	18	0.4	0.06	1.0
118015	Silt	10.96	0.026	4.0	5.2	5.45	104.2	0.002	<1	0.18	0.006	0.04	<0.1	1.0	0.18	0.03	<5	0.5	0.05	0.5
118016	Silt	14.05	0.028	4.8	5.4	7.17	95.7	0.002	1	0.20	0.008	0.05	<0.1	1.1	0.21	0.06	5	0.5	0.09	0.5
118017	Silt	15.21	0.030	5.0	5.6	7.96	86.3	0.002	<1	0.19	0.009	0.04	<0.1	1.0	0.19	0.06	23	0.2	0.04	0.6
118018	Silt	15.18	0.026	4.6	5.0	7.95	81.3	0.002	<1	0.17	0.009	0.03	<0.1	0.9	0.16	0.06	11	0.3	0.04	0.4
118019	Silt	15.65	0.034	5.4	6.4	7.62	122.2	0.002	<1	0.23	0.009	0.04	<0.1	1.1	0.22	0.07	6	0.4	0.08	0.6
118020	Silt	14.42	0.034	5.3	6.3	6.69	121.3	0.002	1	0.26	0.007	0.05	<0.1	1.2	0.24	0.05	<5	0.3	0.06	0.6
118021	Silt	9.81	0.049	7.8	10.8	4.83	84.7	0.004	4	0.58	0.007	0.07	<0.1	1.6	0.39	0.03	35	0.4	0.04	1.5
118022	Silt	8.44	0.061	8.8	14.3	4.66	111.6	0.004	2	0.74	0.005	0.08	<0.1	1.7	0.47	0.03	30	0.2	0.14	1.9
118023	Silt	8.23	0.064	7.7	15.6	4.22	139.2	0.004	3	0.75	0.005	0.08	<0.1	2.1	0.56	0.05	69	0.7	0.06	2.1
118024	Silt	8.41	0.082	10.7	10.6	4.17	149.0	0.002	2	0.49	0.005	0.09	<0.1	3.6	0.62	0.13	69	0.8	0.13	1.5
118025	Silt	7.21	0.058	7.1	13.5	3.52	139.0	0.002	2	0.72	0.004	0.09	<0.1	3.3	0.41	0.12	53	0.2	0.04	2.0
118026	Silt	13.29	0.116	13.3	12.1	6.80	274.6	0.003	2	0.49	0.005	0.06	<0.1	1.7	0.69	0.04	47	0.5	0.04	1.3
118027	Silt	14.18	0.143	14.6	14.2	6.17	233.2	0.004	4	0.62	0.004	0.07	<0.1	2.0	0.82	0.07	49	0.7	0.07	1.4
118028	Silt	13.79	0.143	14.0	13.6	6.11	215.1	0.004	5	0.65	0.004	0.07	<0.1	1.9	0.78	0.03	49	0.9	0.06	1.4
118029	Silt	14.25	0.104	10.2	10.3	6.52	159.7	0.003	3	0.38	0.005	0.05	<0.1	1.3	0.51	<0.02	26	0.6	0.03	0.9
118030	Silt	12.19	0.080	9.1	8.7	5.32	144.1	0.003	3	0.35	0.004	0.05	<0.1	1.3	0.39	<0.02	29	0.4	0.07	0.9



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 18, 2011

Page: 5 of 6 Part 1

CERTIFICATE OF ANALYSIS

WHI11000456.1

Method Analyte	WGHT	3B-50	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Unit	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
MDL	kg	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.01	2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
118031	Silt	3.33	<2	1.10	21.77	20.98	123.5	107	25.0	13.9	1095	3.35	7.9	1.0	0.3	4.2	29.9	0.54	0.42	0.24	25
118032	Silt	1.87	<2	1.57	25.50	24.19	152.2	152	20.8	10.0	789	2.87	6.5	1.2	1.8	2.1	36.9	1.21	0.70	0.29	22
118033	Silt	3.74	<2	1.22	31.83	24.38	140.1	165	24.0	10.8	867	3.15	9.0	1.6	1.0	2.5	36.6	0.49	0.35	0.29	27
118034	Silt	2.84	<2	0.86	22.34	22.74	113.0	80	23.1	9.7	1331	2.89	7.1	1.2	0.6	2.5	36.0	0.74	0.27	0.29	23
118035	Silt	2.34	<2	2.86	32.35	18.98	264.5	200	68.2	12.5	482	3.42	10.7	1.9	0.4	3.4	83.2	1.30	0.83	0.22	35
118036	Silt	3.23	<2	2.20	18.06	12.31	110.2	127	31.0	10.7	380	2.76	8.7	1.5	0.2	3.5	93.0	0.85	0.71	0.13	26
118851	Silt	2.85	<2	1.60	15.86	15.11	93.8	74	30.8	10.5	312	1.94	10.7	2.3	<0.2	3.1	173.2	0.47	0.40	0.16	20
118852	Silt	2.29	<2	1.34	12.82	10.95	77.9	60	26.3	8.6	315	1.35	10.3	2.7	0.2	2.0	141.4	0.41	0.39	0.12	18
118853	Silt	2.01	<2	5.71	31.50	29.17	261.7	220	68.2	15.0	438	3.36	45.9	4.3	1.1	3.4	47.3	1.33	1.02	0.28	53
118854	Silt	2.14	<2	4.43	23.47	22.47	160.0	142	39.9	12.4	416	2.83	23.1	2.9	0.3	2.9	42.6	0.80	0.81	0.23	33
118855	Silt	2.45	<2	4.27	40.86	30.21	137.8	135	41.0	13.7	1130	3.01	21.3	2.9	0.6	3.6	123.3	0.77	0.79	0.28	29
118856	Silt	2.26	<2	1.30	48.80	32.82	105.5	74	34.0	16.9	986	3.42	10.0	1.5	0.9	4.0	38.6	0.25	0.40	0.42	23
118857	Silt	2.91	<2	1.92	45.20	39.43	126.4	76	39.3	18.7	1432	3.53	13.1	1.8	1.1	5.1	46.4	0.35	0.49	0.42	24
118858	Silt	2.45	<2	2.67	17.62	21.23	163.9	130	34.5	12.9	469	3.15	22.6	3.6	<0.2	3.0	64.5	0.87	0.49	0.20	39
118859	Silt	2.45	3	1.03	60.15	45.17	108.9	83	32.6	19.2	1543	3.49	12.8	1.6	0.8	3.9	34.6	0.35	0.40	0.53	27
118860	Silt	4.04	<2	1.58	12.81	6.90	143.0	30	38.3	3.6	167	0.86	7.9	2.3	<0.2	1.3	82.0	1.38	0.60	0.09	18
118861	Silt	3.86	<2	2.63	37.21	17.20	474.0	79	121.8	11.6	537	2.60	17.9	4.5	0.5	2.5	49.0	3.14	1.33	0.23	48
118862	Silt	4.05	<2	2.12	27.39	12.80	262.6	82	72.8	9.8	405	1.81	17.2	3.2	0.4	2.2	86.3	2.60	0.86	0.12	34
118863	Silt	3.11	<2	1.60	19.16	11.64	180.6	94	44.4	7.6	292	1.54	12.6	2.6	<0.2	2.1	83.8	1.94	0.69	0.11	27
118864	Silt	3.27	<2	1.15	13.53	9.05	121.3	53	29.1	4.9	280	1.16	8.2	1.9	0.6	1.7	94.5	1.39	0.51	0.08	19
118865	Silt	3.53	<2	1.23	13.40	8.44	113.7	52	29.4	4.6	260	1.17	8.1	1.9	0.3	1.7	99.6	1.31	0.52	0.08	19
118866	Silt	3.63	<2	1.68	2.99	3.19	13.4	14	5.4	1.3	91	0.35	4.8	0.9	<0.2	0.5	87.3	0.15	0.23	0.02	6
118683	Silt	3.45	<2	1.00	8.32	5.33	36.0	34	11.9	3.1	151	0.82	7.1	1.6	0.4	1.2	88.3	0.26	0.47	0.06	18
118684	Silt	2.49	<2	0.65	6.79	5.07	28.4	28	10.0	2.3	167	0.57	6.1	1.2	<0.2	0.4	76.7	0.22	0.39	0.05	13
118685	Silt	3.12	<2	0.91	6.65	4.01	23.5	25	10.6	2.1	151	0.49	8.0	1.3	<0.2	0.7	84.5	0.20	0.35	0.03	11
118686	Silt	3.25	<2	1.10	6.36	3.77	24.6	28	9.9	2.2	130	0.50	6.8	1.7	<0.2	0.7	92.4	0.22	0.30	0.04	11
118687	Silt	3.14	<2	1.14	7.10	4.44	28.7	34	10.7	2.4	143	0.61	7.7	1.7	<0.2	0.8	93.5	0.23	0.36	0.04	13
118688	Silt	3.27	<2	1.13	6.84	4.19	27.9	33	10.5	2.3	148	0.58	7.4	1.7	<0.2	0.7	93.0	0.21	0.33	0.04	12
118689	Silt	3.00	<2	2.43	12.14	8.08	57.7	75	20.1	5.8	265	1.38	13.3	2.1	<0.2	1.9	262.4	0.38	0.39	0.07	25
118690	Silt	2.71	<2	1.73	10.40	7.26	44.7	50	16.5	5.3	302	1.25	11.0	1.7	<0.2	1.7	242.3	0.33	0.33	0.06	19



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 18, 2011

Page: 5 of 6 Part 2

CERTIFICATE OF ANALYSIS

WHI11000456.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	
118031	Silt	1.05	0.094	12.8	19.8	0.67	236.6	0.005	3	1.10	0.002	0.10	<0.1	3.0	0.13	0.03	26	0.6	0.03	3.2
118032	Silt	1.64	0.151	13.9	22.6	0.59	275.2	0.007	9	1.13	0.003	0.11	<0.1	4.1	0.19	0.18	75	2.0	<0.02	3.1
118033	Silt	0.72	0.091	13.2	24.4	0.39	422.1	0.003	5	1.30	0.001	0.13	<0.1	4.0	0.15	0.06	38	0.8	0.05	3.5
118034	Silt	1.98	0.072	9.4	20.7	1.13	396.7	0.003	4	1.14	0.002	0.11	<0.1	3.2	0.11	0.06	23	0.9	0.02	3.1
118035	Silt	4.08	0.128	21.0	22.3	1.88	247.3	0.003	11	1.03	0.003	0.23	<0.1	4.8	0.84	0.05	32	1.0	0.05	2.8
118036	Silt	7.40	0.120	15.8	14.8	3.14	143.4	0.003	7	0.72	0.005	0.16	<0.1	3.6	0.31	0.05	20	0.4	0.02	2.0
118851	Silt	10.51	0.083	11.5	10.6	4.11	111.1	0.004	5	0.48	0.005	0.12	<0.1	2.5	0.24	0.09	30	0.3	0.05	1.3
118852	Silt	13.74	0.086	11.3	9.5	6.21	100.5	0.005	4	0.48	0.006	0.08	<0.1	2.1	0.25	0.04	26	0.3	0.04	1.2
118853	Silt	2.18	0.190	22.2	28.8	1.14	236.2	0.005	12	1.31	0.003	0.28	<0.1	4.2	1.18	0.09	66	1.5	0.03	3.5
118854	Silt	1.14	0.119	17.7	19.9	0.55	195.6	0.003	9	1.06	0.001	0.21	<0.1	3.7	0.56	0.06	42	1.0	<0.02	3.1
118855	Silt	4.67	0.104	13.6	20.6	1.47	235.5	0.004	9	1.10	0.005	0.21	<0.1	4.1	0.46	0.07	38	1.0	0.04	3.4
118856	Silt	0.88	0.045	8.1	23.4	0.59	237.1	0.005	4	1.13	0.004	0.18	<0.1	4.3	0.20	0.04	22	0.4	0.03	4.0
118857	Silt	1.62	0.055	9.4	31.5	0.97	198.6	0.005	4	1.33	0.005	0.18	<0.1	4.1	0.24	0.03	70	0.4	0.04	4.8
118858	Silt	5.96	0.150	13.9	16.5	3.41	131.7	0.004	8	0.84	0.003	0.16	<0.1	3.2	0.41	0.05	32	0.7	0.06	2.2
118859	Silt	1.69	0.066	9.8	24.4	1.19	216.9	0.005	3	1.36	0.004	0.12	0.1	4.0	0.19	0.04	26	0.5	0.06	4.2
118860	Silt	17.22	0.059	10.6	7.2	7.26	82.6	0.004	3	0.36	0.006	0.04	<0.1	1.2	0.44	<0.02	30	0.3	0.05	0.8
118861	Silt	6.55	0.161	29.9	18.8	3.43	228.3	0.006	6	1.19	0.004	0.12	<0.1	3.1	1.02	0.03	70	0.7	0.06	2.8
118862	Silt	14.16	0.131	18.5	17.1	5.00	149.8	0.005	2	0.70	0.006	0.07	<0.1	3.3	0.72	<0.02	52	0.5	0.06	1.5
118863	Silt	14.74	0.118	16.1	14.3	4.64	137.9	0.004	2	0.59	0.006	0.07	<0.1	3.0	0.45	<0.02	40	0.5	0.03	1.3
118864	Silt	16.56	0.084	11.9	11.3	5.34	110.5	0.005	3	0.45	0.006	0.06	<0.1	2.1	0.30	<0.02	31	0.4	0.04	1.2
118865	Silt	17.03	0.083	12.2	11.2	5.36	112.0	0.004	3	0.43	0.007	0.06	<0.1	2.1	0.29	<0.02	30	0.3	0.03	1.0
118866	Silt	19.38	0.013	3.9	3.1	10.02	33.9	0.003	1	0.10	0.009	0.02	<0.1	0.6	0.11	<0.02	<5	0.2	0.03	0.2
1188683	Silt	16.25	0.040	6.4	6.8	6.81	47.3	0.012	2	0.31	0.009	0.03	<0.1	1.2	0.16	<0.02	<5	0.1	0.03	0.8
118684	Silt	16.26	0.027	5.7	5.0	7.88	35.3	0.005	1	0.24	0.006	0.03	<0.1	0.8	0.18	<0.02	20	0.2	0.06	0.7
118685	Silt	18.59	0.034	6.3	4.3	9.25	23.0	0.006	2	0.18	0.008	0.02	<0.1	0.9	0.18	<0.02	20	0.2	0.04	0.5
118686	Silt	19.47	0.029	5.1	4.2	9.14	25.4	0.004	2	0.19	0.009	0.03	<0.1	0.8	0.15	<0.02	11	0.1	0.03	0.5
118687	Silt	18.74	0.034	5.6	4.9	8.79	28.0	0.005	2	0.21	0.009	0.03	<0.1	1.0	0.18	<0.02	15	0.2	0.04	0.5
118688	Silt	18.78	0.035	5.4	5.0	8.85	27.3	0.005	3	0.21	0.009	0.03	<0.1	1.0	0.18	<0.02	16	0.2	0.04	0.5
118689	Silt	15.97	0.071	8.8	9.2	5.70	80.9	0.003	5	0.38	0.007	0.09	<0.1	2.2	0.25	0.05	17	0.3	0.04	1.0
118690	Silt	16.73	0.059	8.0	8.3	6.12	68.6	0.003	6	0.33	0.007	0.08	<0.1	2.0	0.19	0.05	16	0.3	0.03	0.9



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 6 of 6 Part 1

CERTIFICATE OF ANALYSIS

WHI11000456.1

Method	WGHT	3B-50	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
118691	Silt	2.99	<2	1.71	10.74	8.04	46.8	56	16.6	5.5	295	1.37	10.4	1.6	<0.2	2.0	276.5	0.31	0.32	0.11	19
118692	Silt	3.53	<2	1.89	10.10	7.38	46.2	65	16.4	5.5	268	1.16	10.4	1.7	1.5	2.1	245.5	0.30	0.31	0.05	20
118693	Silt	2.93	<2	1.71	9.44	6.50	42.1	59	15.1	4.8	240	1.03	9.4	1.7	2.3	1.9	215.6	0.17	0.31	0.08	19
118694	Silt	3.61	3	1.56	8.38	6.50	39.1	47	14.2	4.4	248	0.97	9.0	1.8	1.2	1.8	210.7	0.24	0.33	0.08	19
118695	Silt	3.28	<2	0.93	7.15	5.65	24.2	31	9.8	3.2	129	0.64	5.9	1.0	<0.2	1.3	101.2	0.16	0.24	0.09	9
118696	Silt	2.74	<2	1.84	8.45	6.92	39.3	59	13.4	4.4	230	0.90	9.6	2.1	<0.2	1.7	189.4	0.25	0.35	0.06	19
118697	Silt	2.80	2	1.81	9.68	7.01	44.2	41	15.0	4.8	253	0.99	9.7	2.0	0.4	1.8	198.1	0.20	0.32	0.07	19
118698	Silt	3.49	<2	3.51	10.73	7.59	82.7	76	30.5	3.7	209	0.71	16.7	3.8	1.3	1.0	89.5	0.91	0.73	0.06	34



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 6 of 6 Part 2

CERTIFICATE OF ANALYSIS

WHI11000456.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	
118691	Silt	16.20	0.063	8.7	8.8	5.49	74.5	0.004	4	0.38	0.007	0.09	<0.1	2.2	0.19	0.05	11	0.3	0.07	0.9
118692	Silt	15.84	0.055	8.2	9.6	5.81	87.8	0.005	4	0.41	0.007	0.11	<0.1	1.9	0.22	0.03	9	0.7	0.07	1.2
118693	Silt	15.24	0.054	7.4	8.7	5.87	79.0	0.005	3	0.38	0.008	0.10	<0.1	1.7	0.23	0.03	22	0.6	0.07	1.1
118694	Silt	16.14	0.053	7.5	8.8	6.29	80.6	0.005	5	0.38	0.008	0.10	<0.1	1.5	0.22	0.03	20	0.7	0.04	1.0
118695	Silt	16.22	0.020	6.1	6.4	7.46	147.2	0.005	5	0.31	0.008	0.06	<0.1	1.0	0.21	<0.02	28	0.4	0.05	0.8
118696	Silt	17.96	0.050	7.9	8.6	7.79	98.7	0.005	6	0.37	0.009	0.09	<0.1	1.6	0.22	<0.02	18	0.5	0.10	1.0
118697	Silt	16.88	0.055	8.1	8.9	6.88	105.8	0.006	5	0.40	0.008	0.09	<0.1	1.6	0.25	0.02	23	0.7	0.06	1.1
118698	Silt	18.46	0.087	9.0	9.1	8.91	63.1	0.004	3	0.37	0.008	0.06	<0.1	1.3	0.54	<0.02	41	0.6	0.07	0.8



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 18, 2011

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000456.1

Method	WGHT	3B-50	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	
Pulp Duplicates																					
121856	Silt	3.58	<2	0.66	13.20	10.74	50.1	58	13.5	5.6	250	1.19	26.4	0.9	2.2	1.4	110.7	0.28	0.47	0.10	21
REP 121856	QC			0.55	11.91	9.75	44.9	55	11.9	5.0	222	1.08	24.2	0.8	1.6	1.4	99.0	0.23	0.40	0.08	19
120576	Silt	2.37	<2	1.17	18.68	18.14	104.3	118	28.2	11.7	786	2.62	5.4	0.7	0.2	1.8	25.6	0.57	0.37	0.18	23
REP 120576	QC			1.16	18.45	18.00	109.0	115	29.2	11.5	788	2.65	5.6	0.7	<0.2	1.9	25.3	0.57	0.38	0.18	24
119224	Silt	2.41	<2	0.22	0.74	1.19	6.7	8	2.3	0.3	64	0.08	1.8	0.6	<0.2	<0.1	27.0	0.05	0.09	<0.02	4
REP 119224	QC			<2																	
118003	Silt	3.94	<2	1.05	3.38	2.45	23.8	7	7.9	1.4	72	0.31	3.1	1.3	<0.2	0.4	50.7	0.19	0.25	0.03	8
REP 118003	QC			1.28	3.45	2.68	25.4	18	8.4	1.6	74	0.34	3.4	1.5	<0.2	0.5	49.8	0.26	0.19	<0.02	8
118035	Silt	2.34	<2	2.86	32.35	18.98	264.5	200	68.2	12.5	482	3.42	10.7	1.9	0.4	3.4	83.2	1.30	0.83	0.22	35
REP 118035	QC			2.81	33.45	19.34	272.8	194	67.7	12.9	475	3.44	11.3	1.9	1.0	3.3	81.9	1.28	0.81	0.21	35
118854	Silt	2.14	<2	4.43	23.47	22.47	160.0	142	39.9	12.4	416	2.83	23.1	2.9	0.3	2.9	42.6	0.80	0.81	0.23	33
REP 118854	QC			<2																	
118686	Silt	3.25	<2	1.10	6.36	3.77	24.6	28	9.9	2.2	130	0.50	6.8	1.7	<0.2	0.7	92.4	0.22	0.30	0.04	11
REP 118686	QC			1.04	6.40	3.90	26.2	30	10.1	2.1	138	0.51	7.4	1.7	<0.2	0.7	95.2	0.21	0.31	0.04	12
118689	Silt	3.00	<2	2.43	12.14	8.08	57.7	75	20.1	5.8	265	1.38	13.3	2.1	<0.2	1.9	262.4	0.38	0.39	0.07	25
REP 118689	QC			<2																	
118693	Silt	2.93	<2	1.71	9.44	6.50	42.1	59	15.1	4.8	240	1.03	9.4	1.7	2.3	1.9	215.6	0.17	0.31	0.08	19
REP 118693	QC			1.59	9.08	7.03	43.0	59	15.6	4.7	249	1.07	9.8	1.8	0.7	2.0	224.4	0.23	0.35	0.08	20
118697	Silt	2.80	2	1.81	9.68	7.01	44.2	41	15.0	4.8	253	0.99	9.7	2.0	0.4	1.8	198.1	0.20	0.32	0.07	19
REP 118697	QC			<2																	
Reference Materials																					
STD DS8	Standard			13.20	126.5	133.6	339.5	1863	36.7	7.1	630	2.52	25.7	3.0	119.3	7.7	79.0	2.71	5.94	7.56	37
STD DS8	Standard			13.18	121.8	122.7	324.2	1741	34.9	7.2	607	2.62	24.6	2.9	112.8	7.1	74.7	2.79	5.81	7.06	39
STD DS8	Standard			12.86	105.7	116.7	291.6	1690	35.9	7.5	579	2.25	22.6	2.6	116.6	6.6	62.2	2.07	5.29	6.02	38
STD DS8	Standard			13.03	100.4	114.5	286.2	1599	34.9	6.6	561	2.25	22.0	2.7	92.8	6.7	61.1	2.23	5.19	5.66	38
STD DS8	Standard			12.42	101.7	106.2	307.2	1696	38.5	7.4	612	2.50	23.4	2.3	106.1	6.1	53.9	2.18	5.02	5.77	41
STD DS8	Standard			12.51	101.1	99.24	297.8	1601	36.3	7.5	601	2.41	23.0	2.2	105.3	5.5	53.9	2.09	4.84	5.38	40
STD DS8	Standard			12.24	102.3	125.0	278.7	1803	34.5	6.8	558	2.40	20.9	2.6	97.8	6.7	54.0	2.32	3.77	6.31	39

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 18, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000456.1

Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	
MDL	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	
Pulp Duplicates																				
121856	Silt	13.34	0.046	6.7	10.3	6.03	103.3	0.012	3	0.46	0.010	0.06	<0.1	1.8	0.37	<0.02	28	0.4	0.03	1.4
REP 121856	QC	12.06	0.038	6.1	9.3	5.42	93.1	0.011	4	0.42	0.009	0.05	<0.1	1.5	0.33	<0.02	29	0.4	<0.02	1.3
120576	Silt	0.49	0.062	10.5	18.9	0.37	154.5	0.003	4	1.09	<0.001	0.11	<0.1	2.5	0.12	0.04	17	0.7	0.04	3.1
REP 120576	QC	0.49	0.065	10.6	19.1	0.39	152.2	0.003	4	1.07	0.001	0.11	<0.1	2.5	0.12	0.04	25	0.7	0.05	3.1
119224	Silt	9.12	0.010	1.2	1.3	4.75	5.3	<0.001	1	0.02	0.003	<0.01	<0.1	0.1	0.04	<0.02	<5	<0.1	<0.02	<0.1
REP 119224	QC																			
118003	Silt	13.33	0.020	3.5	3.9	7.12	28.7	0.002	<1	0.13	0.007	0.02	<0.1	0.5	0.43	0.02	6	0.2	0.05	0.2
REP 118003	QC	12.72	0.022	3.6	4.2	6.88	30.3	0.002	<1	0.13	0.007	0.02	<0.1	0.6	0.46	<0.02	<5	0.1	0.05	0.3
118035	Silt	4.08	0.128	21.0	22.3	1.88	247.3	0.003	11	1.03	0.003	0.23	<0.1	4.8	0.84	0.05	32	1.0	0.05	2.8
REP 118035	QC	4.08	0.134	21.6	21.6	1.89	246.1	0.003	9	1.03	0.004	0.23	<0.1	4.8	0.83	0.05	33	1.0	0.04	3.0
118854	Silt	1.14	0.119	17.7	19.9	0.55	195.6	0.003	9	1.06	0.001	0.21	<0.1	3.7	0.56	0.06	42	1.0	<0.02	3.1
REP 118854	QC																			
118686	Silt	19.47	0.029	5.1	4.2	9.14	25.4	0.004	2	0.19	0.009	0.03	<0.1	0.8	0.15	<0.02	11	0.1	0.03	0.5
REP 118686	QC	19.79	0.031	5.1	4.5	9.36	25.2	0.004	2	0.18	0.009	0.03	<0.1	0.9	0.16	<0.02	10	0.2	0.04	0.5
118689	Silt	15.97	0.071	8.8	9.2	5.70	80.9	0.003	5	0.38	0.007	0.09	<0.1	2.2	0.25	0.05	17	0.3	0.04	1.0
REP 118689	QC																			
118693	Silt	15.24	0.054	7.4	8.7	5.87	79.0	0.005	3	0.38	0.008	0.10	<0.1	1.7	0.23	0.03	22	0.6	0.07	1.1
REP 118693	QC	15.90	0.055	8.0	9.3	6.14	84.6	0.005	5	0.41	0.008	0.10	<0.1	1.7	0.23	0.03	25	0.7	0.10	1.1
118697	Silt	16.88	0.055	8.1	8.9	6.88	105.8	0.006	5	0.40	0.008	0.09	<0.1	1.6	0.25	0.02	23	0.7	0.06	1.1
REP 118697	QC																			
Reference Materials																				
STD DS8	Standard	0.68	0.080	16.4	118.4	0.60	269.4	0.124	2	0.89	0.082	0.41	2.9	2.2	5.52	0.16	218	5.2	5.14	4.8
STD DS8	Standard	0.65	0.083	16.1	117.2	0.59	276.1	0.123	3	0.93	0.088	0.42	2.8	2.3	5.32	0.16	199	5.0	5.15	4.7
STD DS8	Standard	0.68	0.070	15.5	114.5	0.58	261.6	0.115	1	0.89	0.087	0.38	2.7	1.9	5.31	0.14	186	4.8	4.45	4.4
STD DS8	Standard	0.68	0.069	15.5	109.4	0.56	268.8	0.113	2	0.90	0.089	0.39	2.7	1.9	5.02	0.15	171	5.3	4.66	4.7
STD DS8	Standard	0.67	0.085	12.7	113.9	0.60	251.7	0.104	2	0.94	0.095	0.43	2.9	1.9	5.16	0.16	198	5.2	4.91	4.6
STD DS8	Standard	0.68	0.084	12.2	114.0	0.59	244.6	0.102	3	0.94	0.096	0.42	2.5	1.9	4.78	0.16	176	5.1	5.03	4.5
STD DS8	Standard	0.67	0.073	15.4	110.1	0.58	265.9	0.095	<1	0.91	0.101	0.42	2.6	2.0	5.65	0.16	196	5.6	5.64	4.4

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 18, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000456.1

	WGHT	3B-50	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
	kg	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	0.01	2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2
STD DS8	Standard		12.85	102.7	123.3	302.9	1852	35.0	7.2	573	2.36	21.4	2.7	112.4	7.1	57.5	2.41	3.90	6.73	38
STD DS8	Standard		12.80	113.4	120.3	319.8	1731	37.2	7.2	587	2.45	22.5	2.6	107.1	6.4	66.1	2.37	5.21	6.42	41
STD DS8	Standard		12.22	110.2	115.4	351.7	1680	38.3	7.3	616	2.54	25.2	2.6	109.9	6.4	59.5	2.41	5.26	6.19	40
STD OXC88	Standard	207																		
STD OXC88	Standard	194																		
STD OXC88	Standard	203																		
STD OXC88	Standard	186																		
STD OXC88	Standard	213																		
STD OXC88	Standard	218																		
STD OXC88	Standard	197																		
STD DS8 Expected			13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1
STD OXC88 Expected		203																		
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2																		



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: August 18, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000456.1

		1F30 Ca %	1F30 P %	1F30 La ppm	1F30 Cr ppm	1F30 Mg %	1F30 Ba ppm	1F30 Ti %	1F30 B ppm	1F30 Al %	1F30 Na %	1F30 K %	1F30 W ppm	1F30 Sc ppm	1F30 Ti ppm	1F30 S %	1F30 Hg ppb	1F30 Se ppm	1F30 Te ppm	1F30 Ga ppm
STD DS8	Standard	0.66	0.072	14.6	112.5	0.57	269.1	0.090	<1	0.87	0.090	0.40	2.6	2.0	5.70	0.15	171	4.7	4.95	4.6
STD DS8	Standard	0.72	0.074	14.7	117.1	0.61	257.6	0.108	2	0.93	0.089	0.41	2.8	1.8	5.25	0.16	195	5.3	4.64	4.6
STD DS8	Standard	0.68	0.086	13.7	114.3	0.62	245.9	0.105	4	0.91	0.086	0.42	2.9	2.1	4.92	0.16	174	5.1	4.80	4.3
STD OXC88	Standard																			
STD OXC88	Standard																			
STD OXC88	Standard																			
STD OXC88	Standard																			
STD OXC88	Standard																			
STD OXC88	Standard																			
STD OXC88	Standard																			
STD DS8 Expected		0.7	0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7
STD OXC88 Expected																				
BLK	Blank																			
BLK	Blank																			
BLK	Blank	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	0.07	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 05, 2011
Report Date: August 20, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI11000869.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-17
P.O. Number: NA-11330
Number of Samples: 10

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include R200-250, 3B01, and 1DX1.

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: Simon Ridgway
database backup
Scott Turton



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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Project: Scarlet
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Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

WHI11000869.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
119508	Rock	0.74	4	0.7	13.5	18.9	40	<0.1	9.4	4.2	194	1.37	18.1	3.1	4.1	855	<0.1	0.3	<0.1	8	17.82
119509	Rock	1.71	<2	0.2	9.6	10.3	52	<0.1	15.1	5.1	282	2.99	11.5	<0.5	2.2	1185	<0.1	0.2	<0.1	12	10.63
119510	Rock	1.19	<2	0.3	5.8	5.4	20	<0.1	4.9	2.0	175	0.72	2.6	<0.5	2.0	1293	<0.1	<0.1	<0.1	6	25.41
119511	Rock	0.56	<2	0.2	9.6	11.1	46	<0.1	8.2	2.6	306	1.97	14.6	<0.5	5.1	341	0.1	0.3	<0.1	18	6.69
119512	Rock	1.21	<2	0.2	8.5	9.1	37	<0.1	11.0	5.0	309	1.27	3.4	0.8	5.3	466	0.2	0.2	<0.1	18	8.97
119513	Rock	1.55	2	0.2	10.5	9.3	52	<0.1	14.0	5.2	389	1.98	25.6	2.1	5.1	244	0.1	0.3	<0.1	11	5.67
119514	Rock	0.97	<2	0.2	11.4	6.5	48	<0.1	15.0	4.6	358	2.32	40.5	0.7	4.4	278	0.1	0.3	<0.1	9	6.15
119515	Rock	1.86	9	7.0	26.7	26.4	35	0.1	49.0	9.9	137	24.43	3528	9.7	1.6	79	1.4	89.0	0.3	27	0.28
119516	Rock	0.78	<2	0.1	13.7	6.0	39	<0.1	9.0	4.5	243	1.61	18.6	<0.5	2.1	278	0.5	<0.1	<0.1	6	9.39
119517	Rock	2.36	<2	0.2	4.6	7.7	26	<0.1	6.1	2.9	255	1.18	7.4	0.5	1.9	6	<0.1	<0.1	<0.1	4	0.08



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

WHI11000869.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
119508	Rock	0.051	11	12	2.28	284	<0.001	<20	0.31	0.005	0.18	<0.1	0.16	2.5	<0.1	0.21	<1	1.1	<0.2
119509	Rock	0.011	7	14	5.15	98	<0.001	<20	0.26	0.010	0.08	<0.1	0.74	2.1	<0.1	<0.05	<1	0.9	<0.2
119510	Rock	0.029	8	10	1.00	96	<0.001	<20	0.14	0.003	0.04	<0.1	0.05	1.3	<0.1	0.09	<1	<0.5	<0.2
119511	Rock	0.072	10	28	3.27	76	0.001	<20	0.36	0.008	0.06	<0.1	1.02	3.0	<0.1	0.10	1	0.8	<0.2
119512	Rock	0.160	15	42	2.20	86	0.003	<20	0.61	0.016	0.08	0.1	0.06	2.8	<0.1	0.12	2	0.7	<0.2
119513	Rock	0.294	11	30	2.52	73	0.002	<20	0.42	0.005	0.18	0.1	0.11	4.0	<0.1	<0.05	1	<0.5	<0.2
119514	Rock	0.081	8	18	2.67	61	0.001	<20	0.31	0.005	0.16	<0.1	0.18	4.4	<0.1	<0.05	<1	<0.5	<0.2
119515	Rock	0.015	3	16	0.10	46	<0.001	<20	0.32	<0.001	0.06	<0.1	>50	2.0	13.5	<0.05	1	6.1	<0.2
119516	Rock	0.019	7	6	5.97	27	<0.001	<20	0.19	0.007	0.10	<0.1	1.64	2.5	<0.1	0.05	<1	0.9	<0.2
119517	Rock	0.006	3	18	0.02	30	<0.001	<20	0.25	<0.001	0.07	0.2	0.07	1.3	<0.1	<0.05	<1	<0.5	<0.2



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

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830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: August 20, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

WHI11000869.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX		
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca		
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%		
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01		
Pulp Duplicates																						
119517	Rock	2.36	<2	0.2	4.6	7.7	26	<0.1	6.1	2.9	255	1.18	7.4	0.5	1.9	6	<0.1	<0.1	<0.1	4	0.08	
REP 119517	QC			0.2	4.9	8.0	27	<0.1	6.2	3.1	258	1.18	7.6	0.6	2.0	6	<0.1	<0.1	<0.1	4	0.07	
Reference Materials																						
STD DS8	Standard			13.5	110.2	128.3	321	1.8	38.3	7.6	623	2.47	25.0	97.3	6.8	65	2.4	3.8	5.7	42	0.68	
STD OREAS45CA	Standard			0.7	516.3	21.3	62	0.3	253.7	94.7	946	15.88	3.5	39.9	7.5	13	<0.1	<0.1	0.2	215	0.46	
STD OXC88	Standard			194																		
STD OXC88	Standard			203																		
STD OXH82	Standard			1295																		
STD OXH82	Standard			1259																		
STD OXC88 Expected				203																		
STD OXH82 Expected				1278																		
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7	
STD OREAS45CA Expected				1	494	20	60	0.275	240	92	943	15.69	3.8	43	7	15	0.1	0.13	0.19	215	0.4265	
BLK	Blank			<2																		
BLK	Blank			<2																		
BLK	Blank			<2																		
BLK	Blank			<2																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.04	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
Prep Wash																						
G1	Prep Blank			3	<0.1	2.0	2.8	49	<0.1	4.2	4.5	564	1.97	1.2	1.1	5.2	61	<0.1	<0.1	<0.1	38	0.50
G1	Prep Blank			<2	0.1	1.4	2.8	49	<0.1	3.8	4.5	567	1.98	1.7	1.4	4.8	66	<0.1	<0.1	<0.1	37	0.50



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www.acmelab.com

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 830 - 355 Burrard St.
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Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

WHI11000869.1

Method		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX		
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																				
119517	Rock	0.006	3	18	0.02	30	<0.001	<20	0.25	<0.001	0.07	0.2	0.07	1.3	<0.1	<0.05	<1	<0.5	<0.2	
REP 119517	QC	0.005	2	18	0.02	30	<0.001	<20	0.26	<0.001	0.07	0.1	0.05	1.4	<0.1	<0.05	<1	<0.5	<0.2	
Reference Materials																				
STD DS8	Standard	0.078	12	116	0.61	290	0.109	<20	0.89	0.083	0.42	2.2	0.20	1.7	5.8	0.17	5	4.9	4.9	
STD OREAS45CA	Standard	0.039	16	699	0.14	164	0.135	<20	3.61	0.006	0.08	<0.1	0.03	37.3	<0.1	<0.05	19	<0.5	<0.2	
STD OXC88	Standard																			
STD OXC88	Standard																			
STD OXH82	Standard																			
STD OXH82	Standard																			
STD OXC88 Expected																				
STD OXH82 Expected																				
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5	
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	39.7	0.07	0.021	18.4	0.5		
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
Prep Wash																				
G1	Prep Blank	0.081	9	7	0.60	234	0.140	<20	0.98	0.079	0.48	1.9	<0.01	2.0	0.3	<0.05	5	<0.5	<0.2	
G1	Prep Blank	0.079	9	8	0.58	216	0.133	<20	0.99	0.085	0.50	1.5	0.01	1.6	0.3	<0.05	5	<0.5	<0.2	



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 06, 2011
Report Date: September 15, 2011
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI11000886.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-19
P.O. Number: NA-11330
Number of Samples: 35

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: Simon Ridgway
database backup
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include R200-250, 3B01, 1DX1, and G6Gr.

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 15, 2011

Page: 2 of 3 Part 1

CERTIFICATE OF ANALYSIS

WHI11000886.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
119507	Rock	0.30	5	108.7	16.7	8.5	369	<0.1	40.2	7.7	1165	39.87	28.9	4.4	2.2	25	1.8	0.9	<0.1	26	0.30
119518	Rock	1.47	10	0.4	10.6	8.3	28	0.1	6.7	3.8	147	1.27	915.9	7.3	1.1	168	0.1	3.2	<0.1	16	13.31
119519	Rock	0.77	3	0.4	3.1	3.4	11	<0.1	13.9	5.0	455	4.85	12.6	<0.5	1.4	1009	<0.1	0.3	<0.1	6	17.81
119520	Rock	1.36	<2	0.3	1.7	3.2	5	<0.1	3.4	1.9	249	1.61	2.8	<0.5	0.8	826	<0.1	0.1	<0.1	6	15.38
119521	Rock	1.30	<2	0.4	8.3	10.8	31	<0.1	16.9	5.3	610	2.26	7.9	<0.5	3.6	208	<0.1	0.3	<0.1	9	17.82
119522	Rock	1.19	3	0.2	4.2	3.4	15	<0.1	2.3	1.8	124	0.39	88.2	1.2	0.8	1641	0.1	0.7	<0.1	4	29.24
119523	Rock	1.91	2	0.1	5.0	3.0	23	<0.1	1.7	1.5	125	0.54	96.9	3.0	0.8	917	<0.1	0.5	<0.1	6	28.82
119524	Rock	1.99	35	0.1	3.6	6.0	12	<0.1	3.0	1.3	182	0.71	51.9	28.6	0.5	8	<0.1	0.1	<0.1	<2	0.07
119525	Rock	1.72	35	0.2	2.0	16.4	9	<0.1	3.8	0.9	245	1.25	294.8	30.4	0.5	8	<0.1	0.3	<0.1	<2	0.15
119526	Rock	1.54	153	<0.1	4.7	9.1	20	<0.1	5.9	2.4	178	1.21	795.3	126.0	2.0	7	<0.1	0.2	<0.1	3	0.02
119527	Rock	1.87	34	0.2	6.5	11.6	53	<0.1	7.9	2.3	159	1.78	61.9	30.9	1.5	7	<0.1	0.2	<0.1	3	0.03
119528	Rock	1.82	32	0.1	4.8	9.1	19	<0.1	5.9	2.2	143	1.24	92.4	23.3	1.6	9	<0.1	0.2	<0.1	3	0.02
119529	Rock	1.06	3	0.1	1.7	6.1	16	<0.1	3.0	1.2	435	2.80	4.3	<0.5	0.3	194	<0.1	0.1	<0.1	4	2.24
119530	Rock	1.60	3	<0.1	9.1	14.2	54	<0.1	10.5	5.6	391	2.33	18.0	1.3	1.8	4	<0.1	0.1	<0.1	5	0.02
119531	Rock	1.50	7	0.2	3.8	11.2	29	<0.1	6.3	3.1	329	1.81	31.9	6.9	1.5	7	<0.1	<0.1	<0.1	4	0.02
119532	Rock	2.04	5	<0.1	0.8	0.4	4	<0.1	<0.1	0.7	22	0.04	3.6	0.8	0.1	1861	<0.1	<0.1	<0.1	<2	36.38
119533	Rock	1.88	6	<0.1	0.4	2.2	5	<0.1	<0.1	0.8	41	0.15	1.5	<0.5	0.2	2088	<0.1	<0.1	<0.1	<2	34.13
119534	Rock	1.17	3	<0.1	2.1	1.0	14	<0.1	1.0	1.0	47	0.26	2.2	<0.5	0.3	1366	<0.1	<0.1	<0.1	<2	31.29
119535	Rock	1.40	3	<0.1	2.1	2.4	12	<0.1	2.9	1.5	43	0.28	2.0	<0.5	0.8	686	<0.1	<0.1	<0.1	2	30.35
119536	Rock	1.35	4	<0.1	0.3	1.9	18	<0.1	0.6	0.5	728	0.62	1.4	<0.5	0.2	47	<0.1	0.2	<0.1	<2	16.62
119537	Rock	1.99	4	<0.1	0.7	0.5	7	<0.1	<0.1	0.7	39	0.32	3.0	<0.5	0.3	1763	<0.1	<0.1	<0.1	<2	26.24
119538	Rock	1.97	<2	0.2	2.9	2.2	18	<0.1	<0.1	1.0	34	0.13	1.2	<0.5	0.5	2107	<0.1	<0.1	<0.1	3	34.30
119539	Rock	1.90	<2	<0.1	1.4	0.8	8	<0.1	0.5	1.0	33	0.14	1.2	<0.5	0.3	2315	<0.1	<0.1	<0.1	<2	34.59
119540	Rock	1.93	<2	<0.1	2.2	1.2	12	<0.1	1.3	1.0	86	0.23	1.5	<0.5	0.4	3110	<0.1	<0.1	<0.1	<2	30.92
119541	Rock	1.38	2	<0.1	2.5	2.0	10	<0.1	1.1	1.6	511	1.01	1.1	<0.5	0.9	2623	<0.1	<0.1	<0.1	7	30.42
119542	Rock	1.65	<2	<0.1	0.4	0.9	<1	<0.1	<0.1	0.9	211	0.23	<0.5	<0.5	0.3	1746	<0.1	<0.1	<0.1	<2	35.66
119543	Rock	1.33	<2	<0.1	2.2	1.5	24	<0.1	2.8	1.2	58	0.24	<0.5	<0.5	0.5	2737	0.1	<0.1	<0.1	<2	34.77
119544	Rock	1.87	8	0.1	0.5	3.3	19	<0.1	1.3	0.7	267	0.75	12.9	<0.5	0.1	507	<0.1	0.2	<0.1	<2	28.07
119545	Rock	1.57	<2	<0.1	3.1	2.6	19	<0.1	4.6	1.9	195	0.97	1.4	<0.5	1.1	1911	<0.1	<0.1	<0.1	3	30.96
119546	Rock	1.05	<2	<0.1	0.9	1.1	3	<0.1	0.4	0.9	189	0.54	<0.5	<0.5	0.4	747	<0.1	<0.1	<0.1	<2	32.41



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 15, 2011

Page: 2 of 3 Part 2

CERTIFICATE OF ANALYSIS

WHI11000886.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	G6Gr
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Ag	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	50	
119507	Rock	0.224	12	10	0.22	262	0.003	<20	0.34	<0.001	0.10	<0.1	0.24	3.3	6.6	<0.05	1	<0.5	<0.2	
119518	Rock	0.016	1	11	0.29	38	<0.001	<20	0.25	0.003	0.07	<0.1	1.67	1.7	0.4	<0.05	<1	0.7	<0.2	
119519	Rock	0.017	6	3	5.36	83	<0.001	<20	0.13	0.002	0.07	<0.1	0.06	0.8	<0.1	<0.05	<1	<0.5	<0.2	
119520	Rock	0.026	4	4	2.61	31	<0.001	<20	0.10	0.007	0.04	<0.1	0.03	0.9	<0.1	<0.05	<1	0.8	<0.2	
119521	Rock	0.028	14	5	2.25	42	<0.001	<20	0.23	0.006	0.09	<0.1	0.07	2.4	0.2	<0.05	<1	1.0	<0.2	
119522	Rock	0.004	6	2	0.56	47	<0.001	<20	0.06	0.004	0.03	<0.1	0.12	0.9	<0.1	0.09	<1	<0.5	<0.2	
119523	Rock	0.003	4	2	0.49	49	<0.001	<20	0.09	0.004	0.05	<0.1	0.07	1.1	<0.1	0.05	<1	<0.5	<0.2	
119524	Rock	0.001	1	16	0.01	14	<0.001	<20	0.09	0.005	0.03	<0.1	0.02	0.6	<0.1	<0.05	<1	<0.5	<0.2	
119525	Rock	<0.001	<1	21	0.02	13	<0.001	<20	0.07	0.006	0.02	<0.1	0.02	0.8	<0.1	<0.05	<1	<0.5	<0.2	
119526	Rock	0.002	3	11	0.01	25	<0.001	<20	0.24	0.002	0.09	<0.1	0.09	1.5	<0.1	<0.05	<1	0.5	<0.2	
119527	Rock	0.004	2	11	0.02	25	<0.001	<20	0.21	0.001	0.09	<0.1	0.04	1.2	<0.1	<0.05	<1	<0.5	<0.2	
119528	Rock	0.004	2	10	0.01	36	<0.001	<20	0.24	0.005	0.09	<0.1	0.02	1.1	<0.1	<0.05	<1	<0.5	<0.2	
119529	Rock	0.001	<1	12	0.53	31	<0.001	<20	0.06	0.002	0.01	<0.1	0.01	0.9	<0.1	<0.05	<1	<0.5	<0.2	
119530	Rock	0.002	3	10	0.03	31	<0.001	<20	0.28	0.003	0.10	<0.1	0.12	2.2	<0.1	<0.05	<1	<0.5	<0.2	
119531	Rock	0.007	2	10	0.02	31	<0.001	<20	0.23	0.002	0.08	<0.1	0.04	1.3	<0.1	<0.05	<1	<0.5	<0.2	
119532	Rock	0.028	<1	<1	0.13	16	<0.001	<20	0.02	0.028	<0.01	<0.1	0.09	<0.1	<0.1	0.13	<1	<0.5	<0.2	
119533	Rock	0.029	2	<1	0.17	16	<0.001	<20	0.05	0.040	0.02	<0.1	0.02	0.3	<0.1	0.13	<1	<0.5	<0.2	
119534	Rock	0.017	1	1	0.21	10	<0.001	<20	0.04	0.023	0.02	<0.1	0.07	0.3	<0.1	0.12	<1	1.0	<0.2	
119535	Rock	0.005	3	2	0.20	25	<0.001	<20	0.14	0.013	0.09	<0.1	0.08	0.8	<0.1	0.08	<1	<0.5	<0.2	
119536	Rock	0.021	1	<1	11.86	5	<0.001	<20	0.03	0.014	0.01	<0.1	0.02	0.2	<0.1	<0.05	<1	<0.5	<0.2	
119537	Rock	0.043	2	5	0.13	19	<0.001	<20	0.03	0.021	<0.01	<0.1	0.02	0.8	<0.1	<0.05	<1	<0.5	<0.2	
119538	Rock	0.042	3	2	0.19	31	<0.001	<20	0.08	0.023	0.04	<0.1	0.02	0.7	<0.1	0.12	<1	<0.5	0.2	
119539	Rock	0.037	1	1	0.20	26	<0.001	<20	0.05	0.029	0.02	<0.1	0.02	0.4	<0.1	0.13	<1	<0.5	<0.2	
119540	Rock	0.023	2	2	0.19	41	<0.001	<20	0.05	0.024	0.02	<0.1	0.05	0.5	<0.1	0.11	<1	0.8	0.3	
119541	Rock	0.013	4	4	0.73	73	<0.001	<20	0.07	0.019	0.04	<0.1	0.03	1.5	<0.1	0.20	<1	<0.5	<0.2	
119542	Rock	0.002	3	<1	0.14	20	<0.001	<20	0.02	0.007	0.02	<0.1	<0.01	0.6	<0.1	0.11	<1	<0.5	0.2	
119543	Rock	0.074	2	1	0.20	36	<0.001	<20	0.07	0.025	0.03	<0.1	<0.01	0.7	<0.1	0.15	<1	<0.5	<0.2	
119544	Rock	0.020	1	<1	3.32	17	<0.001	<20	0.01	0.008	<0.01	<0.1	0.02	0.3	<0.1	<0.05	<1	0.8	<0.2	
119545	Rock	0.052	5	2	0.16	40	<0.001	<20	0.14	0.020	0.07	<0.1	0.03	1.5	<0.1	0.09	<1	1.1	<0.2	
119546	Rock	0.011	1	1	0.22	12	<0.001	<20	0.04	0.012	0.01	<0.1	<0.01	0.5	<0.1	0.15	<1	<0.5	<0.2	



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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 15, 2011

Page: 3 of 3 Part 1

CERTIFICATE OF ANALYSIS

WHI11000886.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
119547	Rock Pulp	0.14	5491	518.3	83.5	867.1	2967	>100	32.6	10.3	348	2.87	83.5	5176	1.6	57	33.5	120.5	1.6	57	0.56
120078	Rock	2.16	<2	0.1	1.8	3.2	21	<0.1	2.2	1.2	43	0.25	2.1	0.8	0.4	2019	<0.1	0.2	<0.1	<2	29.94
120079	Rock	2.36	6	<0.1	0.7	6.9	106	<0.1	1.7	0.9	1361	1.40	3.4	3.7	0.1	60	0.6	0.3	<0.1	<2	16.66
120080	Rock	1.51	<2	0.2	5.0	6.3	17	<0.1	6.3	2.4	193	1.24	28.9	1.9	1.6	19	<0.1	0.3	<0.1	5	0.15
120081	Rock	1.61	<2	0.1	8.6	15.3	49	<0.1	11.5	4.4	329	2.10	4.4	1.2	2.9	13	<0.1	<0.1	<0.1	9	0.11



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Page: 3 of 3 Part 2

CERTIFICATE OF ANALYSIS

WHI11000886.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	G6Gr
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Ag	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	50	
119547	Rock Pulp	0.045	7	40	0.50	71	0.091	<20	1.06	0.076	0.16	16.2	2.06	3.3	2.9	1.05	8	1.8	0.6	95
120078	Rock	0.015	2	2	0.09	19	<0.001	<20	0.07	0.028	0.03	<0.1	0.07	0.6	<0.1	0.09	<1	0.5	<0.2	
120079	Rock	0.018	<1	<1	10.68	11	<0.001	<20	0.02	0.016	<0.01	<0.1	0.06	0.2	<0.1	<0.05	<1	<0.5	<0.2	
120080	Rock	0.003	2	15	0.02	18	<0.001	<20	0.17	0.008	0.06	<0.1	0.15	1.0	<0.1	<0.05	<1	<0.5	<0.2	
120081	Rock	0.004	3	17	0.05	28	<0.001	<20	0.32	0.007	0.09	<0.1	0.13	1.9	<0.1	<0.05	<1	<0.5	<0.2	



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Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000886.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
REP G1	QC		0.1	2.3	3.2	49	<0.1	4.6	4.0	602	2.01	<0.5	0.9	5.9	73	<0.1	<0.1	<0.1	38	0.54	
119521	Rock	1.30	<2	0.4	8.3	10.8	31	<0.1	16.9	5.3	610	2.26	7.9	<0.5	3.6	208	<0.1	0.3	<0.1	9	17.82
REP 119521	QC		<2																		
119541	Rock	1.38	2	<0.1	2.5	2.0	10	<0.1	1.1	1.6	511	1.01	1.1	<0.5	0.9	2623	<0.1	<0.1	<0.1	7	30.42
REP 119541	QC		<2																		
Core Reject Duplicates																					
119537	Rock	1.99	4	<0.1	0.7	0.5	7	<0.1	<0.1	0.7	39	0.32	3.0	<0.5	0.3	1763	<0.1	<0.1	<0.1	<2	26.24
DUP 119537	QC		<2	<0.1	0.8	0.5	6	<0.1	0.2	0.9	37	0.33	2.9	0.5	0.3	1774	<0.1	<0.1	<0.1	<2	26.93
Reference Materials																					
STD AGPROOF	Standard																				
STD CDN-ME-3	Standard																				
STD DS8	Standard		14.3	107.7	123.9	321	1.3	38.9	7.6	594	2.47	23.5	102.2	6.9	64	2.1	3.9	6.4	43	0.72	
STD DS8	Standard		11.7	103.6	119.2	299	1.7	35.2	7.0	586	2.39	23.7	97.5	6.4	63	2.2	3.4	6.3	41	0.56	
STD OREAS45CA	Standard		0.8	535.9	20.7	66	0.2	258.3	93.0	954	16.20	3.6	35.6	7.2	15	<0.1	<0.1	0.2	217	0.44	
STD OREAS45CA	Standard		0.7	509.1	19.8	61	0.3	256.1	90.3	936	16.07	2.9	37.4	6.7	16	<0.1	<0.1	0.2	206	0.49	
STD OXC88	Standard	205																			
STD OXC88	Standard	205																			
STD OXH82	Standard	1356																			
STD OXH82	Standard	1357																			
STD OXC88 Expected		203																			
STD OXH82 Expected		1278																			
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7	
STD OREAS45CA Expected			1	494	20	60	0.275	240	92	943	15.69	3.8	43	7	15	0.1	0.13	0.19	215	0.4265	
STD CDN-ME-3 Expected																					
STD AGPROOF Expected																					
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank	<2																			



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Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: September 15, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000886.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	G6Gr
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Ag	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	50	
Pulp Duplicates																				
REP G1	QC	0.083	15	13	0.58	185	0.142	<20	0.94	0.091	0.48	<0.1	<0.01	2.3	0.3	<0.05	5	<0.5	<0.2	
119521	Rock	0.028	14	5	2.25	42	<0.001	<20	0.23	0.006	0.09	<0.1	0.07	2.4	0.2	<0.05	<1	1.0	<0.2	
REP 119521																				
119541	Rock	0.013	4	4	0.73	73	<0.001	<20	0.07	0.019	0.04	<0.1	0.03	1.5	<0.1	0.20	<1	<0.5	<0.2	
REP 119541																				
Core Reject Duplicates																				
119537	Rock	0.043	2	5	0.13	19	<0.001	<20	0.03	0.021	<0.01	<0.1	0.02	0.8	<0.1	<0.05	<1	<0.5	<0.2	
DUP 119537	QC	0.042	2	5	0.10	20	<0.001	<20	0.04	0.025	<0.01	<0.1	0.01	0.8	<0.1	0.06	<1	<0.5	<0.2	
Reference Materials																				
STD AGPROOF	Standard																			97
STD CDN-ME-3	Standard																			270
STD DS8	Standard	0.073	15	117	0.61	269	0.115	<20	0.92	0.086	0.42	2.8	0.19	2.3	5.4	0.17	5	5.1	4.9	
STD DS8	Standard	0.078	16	108	0.60	291	0.110	<20	0.88	0.092	0.39	2.0	0.18	2.0	5.1	0.16	4	4.8	5.3	
STD OREAS45CA	Standard	0.038	17	791	0.17	164	0.131	<20	3.85	0.015	0.08	<0.1	0.04	38.9	0.1	<0.05	19	<0.5	<0.2	
STD OREAS45CA	Standard	0.039	16	636	0.14	160	0.132	<20	3.78	0.009	0.08	<0.1	0.03	37.5	<0.1	<0.05	18	0.7	<0.2	
STD OXC88	Standard																			
STD OXC88	Standard																			
STD OXH82	Standard																			
STD OXH82	Standard																			
STD OXC88 Expected																				
STD OXH82 Expected																				
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5	
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	39.7	0.07	0.021	18.4	0.5		
STD CDN-ME-3 Expected																				276
STD AGPROOF Expected																				94
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			



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Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: September 15, 2011

Page: 2 of 2 **Part** 1

QUALITY CONTROL REPORT

WHI11000886.1

		WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
BLK	Blank		<2																		
BLK	Blank			<0.1	0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
G1	Prep Blank		<2																		
G1	Prep Blank		4	0.1	2.4	3.2	46	<0.1	4.7	4.1	588	2.10	<0.5	3.5	5.5	84	<0.1	<0.1	<0.1	38	0.63
G1	Prep Blank			0.2	2.5	2.8	45	<0.1	4.3	3.7	556	1.91	<0.5	3.4	5.6	69	<0.1	<0.1	0.1	37	0.50



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Page: 2 of 2 **Part** 2

QUALITY CONTROL REPORT

WHI11000886.1

		1DX P %	1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Sc ppm	1DX Ti ppm	1DX S %	1DX Ga ppm	1DX Se ppm	1DX Te ppm	G6Gr Ag gm/t	
BLK	Blank	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	50	
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		
BLK	Blank																			<50	
BLK	Blank																				<50
Prep Wash																					
G1	Prep Blank																				
G1	Prep Blank	0.081	15	13	0.58	175	0.147	<20	1.06	0.130	0.50	<0.1	<0.01	2.3	0.3	<0.05	5	<0.5	<0.2		
G1	Prep Blank	0.080	14	12	0.55	174	0.139	<20	0.88	0.088	0.46	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2		



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Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: July 28, 2011
Report Date: August 24, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11000918.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-15
P.O. Number: NA-10337
Number of Samples: 320

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: David Clark
database backup
Simon Ridgway
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			WHI
1F05	318	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
RJSV	320	Saving all or part of Soil Reject			WHI

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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Project: Scarlet
 Report Date: August 24, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
121951	Soil			0.45	26.88	34.76	117.2	233	36.2	17.0	636	3.55	8.7	0.6	1.4	3.6	31.1	0.15	0.31	0.29	3	0.33	0.054
121952	Soil			0.54	37.59	50.03	129.1	286	49.1	21.6	613	4.58	8.8	0.6	0.8	6.8	37.7	0.13	0.27	0.48	3	0.50	0.044
121953	Soil			0.52	40.22	46.90	116.0	236	41.6	19.0	517	4.61	8.6	0.5	0.5	5.9	28.6	0.08	0.29	0.43	4	0.37	0.051
121954	Soil			0.22	9.54	23.31	220.3	45	9.3	4.1	678	1.40	36.2	1.0	8.6	1.2	77.3	0.40	2.17	0.10	2	14.70	0.090
121955	Soil			0.39	7.17	43.43	153.3	48	10.1	3.9	671	1.20	45.9	1.2	6.3	0.9	87.1	0.33	1.66	0.07	2	15.10	0.083
121956	Soil			0.90	38.10	46.11	230.9	123	38.3	12.2	519	2.68	52.3	2.9	5.1	3.1	79.8	0.34	2.84	0.34	12	4.88	0.206
121957	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
121958	Soil			0.62	33.76	38.94	136.7	295	43.9	15.6	505	3.59	11.3	1.0	0.7	6.5	43.2	0.15	0.43	0.38	2	0.49	0.061
121959	Soil			0.97	33.89	58.50	191.5	245	42.4	15.1	549	3.52	31.5	1.3	1.3	7.0	117.1	0.23	1.69	0.41	4	2.32	0.078
121960	Soil			0.51	30.69	37.40	102.5	177	33.6	14.8	307	3.79	6.4	0.6	0.3	5.0	322.6	0.09	0.27	0.39	<2	6.31	0.053
121961	Soil			0.71	39.80	61.20	140.6	250	42.7	20.0	565	4.81	9.8	0.6	0.7	4.2	68.3	0.10	0.36	0.47	3	1.01	0.067
121962	Soil			0.64	30.23	55.18	75.1	535	22.2	8.2	434	3.31	5.3	0.9	0.9	1.3	105.1	0.10	0.32	0.34	5	1.08	0.084
121963	Soil			0.75	28.70	48.76	104.5	181	25.4	12.0	491	3.94	6.8	0.5	3.5	2.4	10.5	0.08	0.37	0.39	7	0.02	0.057
121964	Soil			0.83	40.43	39.30	107.0	313	35.2	17.1	639	4.65	14.8	1.3	1.4	3.7	29.8	0.10	0.50	0.32	10	0.38	0.073
121965	Soil			1.66	38.40	95.00	100.2	278	39.2	19.1	1207	4.76	12.1	1.0	2.7	4.3	13.1	0.12	0.54	0.36	12	0.16	0.061
121966	Soil			0.78	28.52	46.06	91.4	209	23.6	12.5	741	3.67	8.5	0.8	1.4	2.2	18.3	0.14	0.41	0.32	14	0.34	0.070
121967	Soil			1.67	31.49	56.48	91.5	108	25.4	14.1	686	3.87	9.8	0.9	1.0	1.5	7.2	0.11	0.60	0.32	18	0.06	0.096
121968	Soil			0.77	31.63	40.48	90.5	199	24.7	13.6	767	3.39	6.7	1.5	1.2	1.9	65.9	0.24	0.43	0.30	12	1.24	0.101
121969	Soil			0.55	27.54	29.25	101.0	202	23.6	8.8	381	3.56	9.0	1.3	0.9	1.6	127.5	0.15	0.34	0.29	11	1.52	0.083
121970	Soil			0.65	29.41	32.77	88.2	64	31.5	15.4	550	3.98	8.6	0.5	1.0	2.7	29.0	0.10	0.39	0.27	12	0.33	0.044
121971	Soil			0.47	23.18	20.69	81.6	225	22.6	7.1	202	3.04	7.6	1.0	1.4	2.2	36.7	0.08	0.30	0.30	14	0.35	0.064
121972	Soil			0.69	27.10	25.18	82.9	37	28.5	12.2	406	3.48	9.9	0.6	0.8	3.0	10.2	0.12	0.46	0.28	18	0.10	0.040
121973	Soil			0.67	26.02	19.18	70.2	30	23.3	9.9	254	3.01	10.6	0.5	1.0	1.2	7.6	0.09	0.42	0.26	18	0.07	0.044
121974	Soil			0.50	29.33	25.85	85.2	13	27.4	12.9	329	3.78	9.1	0.5	0.5	2.9	7.0	0.10	0.34	0.34	14	0.04	0.029
121975	Soil			0.59	26.89	31.02	87.4	28	27.7	12.3	465	3.92	9.8	0.5	0.4	2.1	11.5	0.12	0.34	0.33	14	0.13	0.048
121976	Soil			0.75	22.12	25.93	79.5	26	20.9	9.3	268	3.48	11.2	0.4	0.4	1.7	4.5	0.05	0.40	0.33	20	0.02	0.035
121977	Soil			0.64	27.92	28.99	92.4	170	28.6	12.4	567	3.85	12.9	1.0	0.9	1.9	33.9	0.15	0.34	0.33	15	0.45	0.060
121978	Soil			0.46	23.95	21.79	71.7	75	20.9	9.9	507	2.86	9.3	1.2	0.5	1.0	91.8	0.13	0.31	0.29	10	1.65	0.078
121979	Soil			0.74	26.11	30.82	83.2	45	24.7	12.8	715	3.34	11.7	0.9	0.6	1.5	48.8	0.12	0.35	0.38	19	0.69	0.069
121980	Soil			7.37	68.79	32.38	92.8	631	37.4	14.9	480	3.74	38.5	1.3	8.1	3.2	69.5	1.28	1.63	0.35	19	1.46	0.056



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
121951	Soil	8.5	7.2	0.10	109.3	0.001	2	0.45	0.003	0.07	<0.1	4.1	0.33	<0.02	309	0.4	0.03	1.0	1.25	<0.1	0.05
121952	Soil	4.7	10.8	0.24	103.0	0.001	3	0.76	0.004	0.10	<0.1	6.4	0.28	0.04	89	0.3	0.05	1.7	3.33	<0.1	0.06
121953	Soil	2.8	12.9	0.26	85.2	<0.001	2	0.83	0.003	0.08	<0.1	6.2	0.17	0.04	244	0.4	0.04	2.1	4.08	<0.1	0.07
121954	Soil	3.8	4.7	6.54	36.8	0.002	2	0.22	0.008	0.05	<0.1	1.3	0.07	<0.02	517	0.4	<0.02	0.7	0.60	<0.1	<0.02
121955	Soil	2.9	5.5	6.00	31.5	0.001	2	0.15	0.008	0.04	0.1	1.1	0.06	<0.02	481	0.3	<0.02	0.4	0.63	<0.1	<0.02
121956	Soil	10.8	13.6	1.18	122.3	0.004	3	0.76	0.007	0.08	0.2	2.8	0.17	0.03	628	0.8	0.14	1.7	0.64	<0.1	0.06
121957	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
121958	Soil	7.8	7.2	0.12	123.0	0.002	4	0.40	0.005	0.10	<0.1	5.2	0.21	0.08	144	0.6	0.05	1.1	1.85	<0.1	0.05
121959	Soil	10.9	12.1	0.36	151.2	0.003	4	0.65	0.005	0.13	<0.1	5.6	0.20	0.04	422	0.6	0.04	1.6	2.34	<0.1	0.05
121960	Soil	3.1	8.0	0.20	59.9	<0.001	3	0.46	0.005	0.07	<0.1	5.0	0.13	0.05	124	0.5	0.05	1.2	1.37	<0.1	0.05
121961	Soil	3.6	14.3	0.21	102.4	<0.001	3	0.76	0.006	0.09	<0.1	6.1	0.22	0.06	104	0.5	0.06	1.9	3.13	<0.1	0.06
121962	Soil	4.0	13.3	0.12	133.2	0.002	3	0.75	0.012	0.08	<0.1	4.0	0.16	0.14	104	0.5	0.03	2.1	2.56	<0.1	0.06
121963	Soil	2.1	14.0	0.12	46.0	0.002	3	0.82	0.004	0.08	<0.1	4.0	0.15	0.05	32	0.5	0.04	2.4	3.23	<0.1	0.03
121964	Soil	6.0	18.1	0.29	89.1	0.003	2	1.09	0.004	0.07	<0.1	8.4	0.11	0.03	77	0.4	0.08	2.8	5.48	<0.1	0.06
121965	Soil	5.0	25.8	0.26	86.4	0.006	3	0.85	0.004	0.09	<0.1	7.2	0.14	<0.02	80	0.3	0.12	2.4	5.07	<0.1	0.03
121966	Soil	6.7	16.9	0.16	90.7	0.002	2	0.82	0.003	0.06	<0.1	5.0	0.10	0.03	52	0.2	0.06	2.5	2.97	<0.1	0.03
121967	Soil	3.6	25.5	0.19	49.3	0.007	3	1.02	0.003	0.07	<0.1	3.1	0.14	0.06	51	0.6	0.05	3.4	5.12	<0.1	0.04
121968	Soil	6.1	16.5	0.16	127.7	0.003	4	0.82	0.004	0.06	<0.1	4.5	0.10	0.10	92	0.5	0.04	2.4	2.19	<0.1	0.04
121969	Soil	10.3	15.9	0.20	125.0	0.002	3	0.91	0.003	0.06	<0.1	4.7	0.09	0.09	84	0.6	0.08	2.3	1.31	<0.1	0.04
121970	Soil	3.5	19.1	0.27	89.2	0.004	2	1.14	0.002	0.05	<0.1	4.4	0.11	0.03	37	0.3	0.07	3.2	4.33	<0.1	0.03
121971	Soil	6.7	18.3	0.22	99.9	0.002	1	1.09	0.002	0.07	<0.1	4.0	0.13	0.04	104	0.3	0.04	2.9	10.84	<0.1	0.06
121972	Soil	6.1	18.4	0.25	75.2	0.004	1	1.09	<0.001	0.05	<0.1	3.1	0.10	<0.02	28	0.3	0.04	2.9	1.51	<0.1	0.02
121973	Soil	4.4	15.0	0.17	44.3	0.003	1	0.86	0.001	0.04	<0.1	2.0	0.09	<0.02	40	0.3	0.03	2.6	1.26	<0.1	<0.02
121974	Soil	4.0	16.9	0.22	73.0	0.001	1	1.27	<0.001	0.05	<0.1	3.2	0.12	<0.02	32	0.3	0.05	3.0	1.74	<0.1	0.03
121975	Soil	3.5	17.4	0.18	85.2	0.002	1	1.07	0.001	0.05	<0.1	3.0	0.10	<0.02	36	0.2	0.03	2.7	1.75	<0.1	0.03
121976	Soil	3.3	12.5	0.07	40.8	0.002	<1	0.72	0.001	0.04	<0.1	2.4	0.10	<0.02	43	0.2	0.04	3.0	1.55	<0.1	<0.02
121977	Soil	5.2	18.4	0.20	128.2	0.002	1	1.01	0.003	0.06	<0.1	3.8	0.10	0.04	104	0.3	0.04	2.8	2.46	<0.1	0.04
121978	Soil	6.6	14.2	0.20	86.9	0.002	3	0.77	0.005	0.05	<0.1	2.5	0.06	0.10	112	0.4	0.04	2.4	1.60	<0.1	0.03
121979	Soil	4.8	21.4	0.36	97.4	0.004	2	1.16	0.002	0.06	<0.1	2.8	0.08	0.06	86	0.4	0.06	4.0	2.51	<0.1	0.03
121980	Soil	11.1	11.6	0.72	102.7	<0.001	2	0.38	0.002	0.07	<0.1	6.7	0.24	<0.02	1559	1.2	0.10	1.2	1.18	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 2 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
121951	Soil	0.06	5.1	1.4	<0.05	2.5	13.39	30.8	0.03	<1	0.7	5.6	<10	<2
121952	Soil	0.02	6.8	3.2	<0.05	5.0	14.85	19.0	0.04	2	0.9	18.0	<10	<2
121953	Soil	<0.02	6.2	2.8	<0.05	6.8	11.27	13.4	0.06	<1	1.0	25.3	<10	<2
121954	Soil	0.05	2.1	2.2	<0.05	1.2	5.52	8.1	<0.02	<1	0.4	3.3	<10	<2
121955	Soil	0.03	1.5	16.3	<0.05	1.1	5.19	6.7	<0.02	<1	0.2	2.1	<10	<2
121956	Soil	0.19	4.0	2.5	<0.05	3.4	17.24	25.1	0.02	<1	0.7	6.8	<10	<2
121957	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
121958	Soil	0.07	7.2	2.7	<0.05	4.2	13.04	25.5	0.03	<1	0.9	7.2	<10	<2
121959	Soil	0.11	8.7	15.1	<0.05	4.2	14.41	33.7	0.04	1	0.8	8.8	<10	<2
121960	Soil	0.03	3.8	2.9	<0.05	4.6	11.89	13.1	0.04	<1	0.9	17.7	<10	<2
121961	Soil	0.05	6.4	10.2	<0.05	3.7	14.16	13.5	0.06	<1	1.1	25.1	<10	<2
121962	Soil	0.14	7.3	9.5	<0.05	3.4	14.05	12.9	0.05	<1	0.8	12.9	<10	<2
121963	Soil	0.11	9.7	7.1	<0.05	1.6	5.82	6.7	0.04	<1	0.8	14.9	<10	<2
121964	Soil	0.14	7.3	2.3	<0.05	3.9	20.52	12.8	0.05	<1	1.0	31.4	<10	<2
121965	Soil	0.13	6.9	37.4	<0.05	1.9	18.19	19.7	0.08	<1	1.1	22.3	<10	<2
121966	Soil	0.13	7.7	11.6	<0.05	1.5	21.01	19.7	0.05	<1	0.9	17.3	<10	<2
121967	Soil	0.22	10.3	16.4	<0.05	2.1	5.96	10.9	0.04	<1	0.8	16.4	<10	<2
121968	Soil	0.27	6.8	6.5	<0.05	2.6	18.49	17.3	0.05	<1	0.9	14.3	<10	<2
121969	Soil	0.22	5.6	2.3	<0.05	1.9	21.12	23.6	0.05	<1	0.9	16.9	<10	<2
121970	Soil	0.21	8.0	2.9	<0.05	1.5	6.74	17.2	0.04	<1	0.8	30.6	<10	<2
121971	Soil	0.22	16.6	1.3	<0.05	2.6	13.67	16.0	0.03	<1	1.1	22.7	<10	<2
121972	Soil	0.22	7.2	2.6	<0.05	1.2	5.57	21.9	0.04	<1	0.9	19.8	<10	<2
121973	Soil	0.15	6.0	0.7	<0.05	0.7	3.74	12.1	0.03	<1	0.6	15.1	<10	<2
121974	Soil	0.15	8.5	1.2	<0.05	1.9	4.85	13.2	0.03	<1	1.0	24.7	<10	<2
121975	Soil	0.17	9.2	3.5	<0.05	1.2	4.37	17.9	0.04	<1	0.9	20.1	<10	<2
121976	Soil	0.21	7.6	2.6	<0.05	0.9	2.61	10.7	0.04	<1	0.4	7.7	<10	<2
121977	Soil	0.18	8.5	2.5	<0.05	2.3	10.08	15.9	0.04	<1	1.0	15.7	<10	<2
121978	Soil	0.24	6.0	1.8	<0.05	2.0	8.86	15.7	0.03	<1	1.1	13.7	<10	<2
121979	Soil	0.39	7.4	4.7	<0.05	2.0	4.88	16.8	0.03	<1	1.0	26.4	<10	<2
121980	Soil	0.05	3.7	1.8	<0.05	2.3	16.22	28.6	0.04	1	1.2	5.0	<10	3



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 24, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
121981	Soil			0.92	22.05	26.27	70.2	45	16.8	10.2	840	3.79	13.9	0.6	<0.2	0.3	21.0	0.05	0.36	0.41	26	0.21	0.082
121982	Soil			0.80	34.89	30.05	103.4	93	31.6	17.3	723	4.24	23.9	2.0	3.0	1.8	21.9	0.16	0.73	0.37	21	0.27	0.051
121983	Soil			0.66	22.26	19.85	76.1	28	15.3	9.5	623	3.31	13.9	0.6	0.2	0.4	26.0	0.11	0.42	0.33	22	0.54	0.083
121984	Soil			0.40	41.07	19.18	102.3	105	35.4	13.6	436	3.43	16.9	0.9	2.0	4.4	19.1	0.20	0.50	0.32	11	0.33	0.048
121985	Soil			0.64	32.83	20.77	85.0	116	30.4	11.8	527	3.27	24.2	1.7	2.6	2.4	39.8	0.12	0.64	0.30	16	0.88	0.070
121986	Soil			0.61	62.22	35.16	105.5	69	35.2	17.3	1089	3.55	17.8	1.2	1.7	2.3	15.2	0.23	0.55	0.39	19	0.21	0.084
121987	Soil			0.95	15.36	15.91	55.5	116	9.5	5.1	692	1.62	4.2	0.9	<0.2	0.2	11.3	0.25	0.44	0.33	25	0.10	0.117
121988	Soil			0.94	47.34	47.74	111.9	118	34.6	17.1	1165	3.50	15.0	2.0	1.7	2.5	31.9	0.36	0.62	0.47	24	0.29	0.101
121989	Soil			0.78	44.28	35.83	107.5	129	34.8	17.9	738	3.62	16.0	2.0	2.7	3.4	35.0	0.18	0.56	0.40	21	0.33	0.063
121990	Soil			0.55	33.74	21.21	70.5	79	27.1	14.7	517	2.69	14.8	1.3	1.5	3.9	306.4	0.15	0.42	0.30	14	7.20	0.046
121991	Soil			0.65	27.98	21.87	76.1	178	23.3	9.8	334	2.69	14.1	2.2	2.1	1.8	135.2	0.26	0.82	0.32	18	1.49	0.081
121992	Soil			0.62	23.64	15.31	42.9	126	16.3	7.6	387	1.73	8.4	4.5	1.5	0.7	195.1	0.22	0.56	0.24	12	2.62	0.108
121993	Soil			0.70	33.30	45.40	134.7	224	44.5	16.6	271	3.25	9.4	1.0	0.7	5.4	100.8	0.16	0.45	0.42	6	1.33	0.027
121994	Soil			0.52	19.07	49.39	251.2	144	20.9	7.2	772	2.71	11.9	1.2	1.4	1.3	69.8	0.66	0.97	0.24	13	4.19	0.133
121995	Soil			0.60	23.22	33.85	196.7	182	26.6	8.8	349	2.92	30.1	1.5	2.1	1.7	98.4	0.25	2.51	0.32	17	1.39	0.094
121996	Soil			0.69	25.91	35.94	131.2	281	31.2	10.7	339	3.08	9.6	1.0	<0.2	2.2	101.0	0.25	0.59	0.33	13	1.20	0.068
121997	Soil			0.88	26.55	52.61	98.0	197	29.8	11.0	297	3.26	8.5	1.2	0.7	2.0	69.7	0.23	0.42	0.40	16	0.83	0.077
121998	Soil			0.73	28.33	34.00	109.2	124	26.1	10.6	559	3.52	5.8	1.0	0.9	2.0	60.6	0.23	0.39	0.39	17	0.68	0.109
121999	Soil			0.55	33.42	53.23	161.0	319	35.6	14.2	506	4.28	6.9	0.6	0.7	4.3	35.2	0.33	0.65	0.46	8	0.28	0.047
122000	Soil			0.55	29.13	42.89	107.6	165	31.6	14.0	365	3.81	7.4	0.6	0.3	3.0	44.1	0.14	0.31	0.44	11	0.30	0.067
120666	Soil			0.60	34.06	49.07	143.1	227	58.9	29.7	779	3.85	12.5	1.2	0.8	6.4	93.3	0.13	0.42	0.37	7	1.52	0.107
120667	Soil			0.67	27.37	41.06	76.3	242	21.2	10.1	173	3.08	6.8	0.9	0.2	4.5	57.8	0.04	0.28	0.38	11	0.14	0.036
120668	Soil			0.54	48.46	52.03	122.8	238	52.9	23.3	645	4.74	9.6	0.5	<0.2	6.6	27.2	0.09	0.36	0.47	14	0.30	0.038
120669	Soil			0.89	36.31	74.56	321.5	171	50.4	19.0	727	3.26	88.7	1.6	43.3	3.8	98.3	0.25	6.36	0.48	9	3.87	0.121
120670	Soil			0.89	32.09	98.19	407.8	165	29.0	12.6	505	3.12	23.2	2.0	1.4	1.2	41.2	0.65	1.52	0.34	22	1.54	0.172
120671	Soil			0.45	20.53	49.73	110.4	105	19.7	8.3	354	1.85	16.2	1.7	2.7	3.2	92.4	0.17	2.02	0.21	10	10.07	0.128
120672	Soil			0.24	6.03	14.48	151.9	41	6.9	2.3	429	0.86	7.8	0.8	3.5	0.8	51.0	0.32	1.28	0.06	6	10.84	0.049
120673	Soil			0.34	9.08	23.14	227.1	62	12.3	4.4	699	1.21	13.9	1.1	5.5	1.2	50.3	0.56	1.82	0.09	8	10.28	0.063
120674	Soil			0.45	23.61	49.36	309.2	80	27.8	11.5	826	2.37	77.7	1.4	5.3	3.2	79.6	0.42	4.05	0.23	16	6.40	0.113
120675	Soil			0.52	30.00	52.68	241.9	108	35.2	14.0	552	2.61	107.1	1.9	4.6	4.5	187.5	0.26	7.31	0.33	12	6.95	0.134



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
121981	Soil	4.3	21.4	0.22	99.4	0.003	2	1.23	0.002	0.07	<0.1	1.0	0.10	0.03	72	0.2	0.07	5.2	5.91	<0.1	<0.02
121982	Soil	8.3	24.4	0.38	68.2	0.005	2	1.25	<0.001	0.07	<0.1	3.9	0.10	<0.02	340	0.5	0.08	3.5	3.80	<0.1	<0.02
121983	Soil	3.2	19.6	0.31	97.9	0.003	2	1.17	0.003	0.07	<0.1	1.5	0.10	0.05	106	0.3	0.06	5.2	3.35	<0.1	<0.02
121984	Soil	13.7	25.0	0.41	49.0	0.001	2	0.98	0.001	0.06	<0.1	9.0	0.09	0.03	328	0.3	0.04	2.5	3.90	<0.1	0.05
121985	Soil	9.9	27.8	0.48	96.2	0.002	3	1.03	0.002	0.07	<0.1	5.4	0.11	0.06	564	0.6	<0.02	3.2	2.13	<0.1	0.08
121986	Soil	9.5	36.6	0.96	74.7	0.004	2	1.75	<0.001	0.08	<0.1	4.6	0.11	0.04	120	0.4	0.05	5.3	7.49	<0.1	0.05
121987	Soil	6.6	21.9	0.14	71.2	0.003	3	0.82	0.005	0.08	<0.1	0.5	0.10	0.12	42	0.5	<0.02	3.6	5.33	0.1	<0.02
121988	Soil	10.9	31.6	0.53	119.2	0.004	2	1.45	0.005	0.11	<0.1	4.7	0.12	0.06	193	0.7	0.02	4.0	7.27	<0.1	0.06
121989	Soil	10.4	26.9	0.61	78.7	0.002	3	1.37	0.005	0.08	<0.1	5.0	0.09	0.03	266	0.5	0.04	3.8	3.80	<0.1	0.07
121990	Soil	7.0	16.0	0.79	72.6	0.003	2	0.96	0.006	0.09	<0.1	3.8	0.06	<0.02	793	0.3	<0.02	2.7	1.44	<0.1	0.05
121991	Soil	20.5	18.1	0.37	131.4	0.002	3	1.13	0.006	0.07	<0.1	3.3	0.08	0.07	422	0.4	<0.02	2.8	0.68	<0.1	0.08
121992	Soil	11.7	12.3	0.25	124.6	0.003	5	0.74	0.007	0.06	<0.1	1.1	0.06	0.16	257	0.6	0.04	1.9	0.44	<0.1	0.06
121993	Soil	8.2	5.6	0.06	158.3	<0.001	4	0.43	0.004	0.09	<0.1	4.8	0.20	0.02	416	0.5	0.06	0.9	2.61	<0.1	0.08
121994	Soil	13.2	11.4	1.84	112.2	0.003	4	0.61	0.006	0.08	<0.1	2.0	0.08	0.06	238	0.6	<0.02	1.3	0.73	<0.1	0.05
121995	Soil	14.5	15.9	0.22	177.2	0.002	3	1.02	0.007	0.08	<0.1	2.5	0.10	0.09	353	0.5	0.04	2.6	0.84	<0.1	0.06
121996	Soil	15.3	10.7	0.16	145.9	0.002	4	0.68	0.006	0.08	<0.1	3.5	0.15	0.06	311	0.6	0.05	1.5	1.36	<0.1	0.06
121997	Soil	8.5	14.3	0.13	166.0	0.002	2	0.80	0.004	0.08	<0.1	3.2	0.20	0.07	112	0.3	0.05	1.9	3.21	<0.1	0.06
121998	Soil	6.0	14.5	0.14	133.3	0.003	2	0.87	0.005	0.06	<0.1	3.9	0.12	0.11	83	0.4	<0.02	2.2	1.28	<0.1	0.08
121999	Soil	6.0	10.9	0.14	138.4	0.001	2	0.67	0.004	0.07	<0.1	6.3	0.18	0.03	144	0.3	0.02	1.7	2.35	<0.1	0.02
122000	Soil	5.0	12.3	0.15	155.5	0.001	2	0.76	0.005	0.08	<0.1	4.3	0.16	0.04	53	0.4	0.05	2.0	3.02	<0.1	0.07
120666	Soil	8.3	9.4	0.10	202.0	0.002	4	0.73	0.006	0.15	<0.1	4.0	0.55	0.08	500	0.4	0.03	1.6	3.59	<0.1	0.05
120667	Soil	2.8	13.8	0.13	303.1	0.001	3	0.73	0.016	0.13	<0.1	3.4	0.20	0.11	125	0.3	0.03	2.3	3.67	<0.1	<0.02
120668	Soil	3.7	17.8	0.37	124.8	0.001	3	1.09	0.005	0.11	<0.1	6.9	0.17	0.03	92	0.3	0.03	3.1	7.24	<0.1	0.08
120669	Soil	8.9	10.9	0.98	108.1	0.001	2	0.49	0.005	0.11	0.1	3.2	0.20	0.03	229	0.6	0.08	1.4	2.16	<0.1	0.06
120670	Soil	13.1	15.5	0.26	98.1	0.004	3	0.96	0.007	0.07	0.1	2.0	0.08	0.11	264	0.8	0.09	2.3	0.45	<0.1	0.05
120671	Soil	7.1	7.6	3.04	40.2	0.005	3	0.35	0.008	0.08	<0.1	1.9	0.05	<0.02	290	0.4	0.05	1.0	0.91	<0.1	0.04
120672	Soil	3.7	3.9	5.05	22.0	0.005	2	0.19	0.007	0.03	<0.1	0.7	0.02	<0.02	147	0.2	0.03	0.5	0.31	<0.1	0.02
120673	Soil	5.3	6.7	5.35	40.4	0.005	2	0.34	0.009	0.05	<0.1	1.1	0.05	<0.02	301	0.3	0.04	1.0	0.59	<0.1	0.02
120674	Soil	7.3	16.1	2.41	127.9	0.003	2	0.95	0.010	0.13	0.2	2.6	0.17	<0.02	272	0.3	0.05	2.7	1.68	<0.1	0.10
120675	Soil	8.7	12.9	0.56	117.9	0.004	3	0.77	0.009	0.14	0.1	3.5	0.21	<0.02	819	0.7	0.04	2.1	3.85	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 3 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
121981	Soil	0.16	13.3	1.5	<0.05	0.2	2.44	10.1	0.03	<1	0.7	16.3	<10	<2
121982	Soil	0.24	6.5	1.7	<0.05	0.9	9.31	19.8	0.04	<1	1.1	25.2	<10	<2
121983	Soil	0.25	10.0	2.1	<0.05	0.5	3.01	7.5	0.03	<1	0.6	16.8	<10	<2
121984	Soil	0.09	5.5	1.8	<0.05	2.9	20.09	30.6	0.04	<1	1.3	21.6	<10	<2
121985	Soil	0.22	6.6	1.4	<0.05	3.6	13.58	22.2	0.04	<1	1.1	20.3	<10	<2
121986	Soil	0.24	10.1	2.9	<0.05	2.5	12.28	26.5	0.04	<1	1.6	45.8	<10	<2
121987	Soil	0.12	14.4	5.2	<0.05	0.1	2.39	12.4	<0.02	<1	<0.1	5.1	<10	<2
121988	Soil	0.24	12.2	11.2	<0.05	1.8	12.86	24.8	0.02	<1	1.3	35.2	<10	<2
121989	Soil	0.18	7.3	5.4	<0.05	3.0	11.87	21.6	0.02	<1	1.1	36.1	<10	<2
121990	Soil	0.08	3.8	1.9	<0.05	3.3	8.52	14.9	<0.02	<1	0.6	26.1	<10	<2
121991	Soil	0.28	5.6	2.1	<0.05	2.2	16.15	33.7	0.03	1	0.9	18.8	<10	<2
121992	Soil	0.28	4.1	1.7	<0.05	2.1	11.42	20.7	<0.02	<1	0.8	10.5	<10	<2
121993	Soil	0.06	6.6	2.5	<0.05	3.6	13.47	23.0	0.05	<1	1.3	4.3	<10	<2
121994	Soil	0.10	4.8	3.0	<0.05	2.0	15.17	26.8	0.02	<1	0.6	4.5	<10	<2
121995	Soil	0.30	6.2	2.2	<0.05	1.8	15.73	27.9	0.02	1	1.0	11.1	11	<2
121996	Soil	0.19	7.0	2.3	<0.05	2.0	17.26	28.1	0.02	<1	0.8	6.7	<10	<2
121997	Soil	0.24	9.8	7.0	<0.05	2.4	15.11	26.9	0.02	1	0.4	9.1	<10	<2
121998	Soil	0.26	8.5	4.0	<0.05	2.1	12.55	15.3	0.03	<1	1.6	12.8	<10	<2
121999	Soil	0.06	6.8	1.4	<0.05	1.0	17.70	14.7	0.05	<1	1.1	15.7	<10	<2
122000	Soil	0.12	7.2	4.2	<0.05	2.4	11.51	12.7	0.05	<1	0.8	16.6	<10	<2
120666	Soil	0.04	11.1	2.5	<0.05	3.5	13.75	28.2	0.03	<1	0.8	10.4	<10	<2
120667	Soil	0.04	9.5	3.7	<0.05	1.7	7.07	8.9	0.03	<1	0.7	14.2	<10	<2
120668	Soil	0.04	9.9	1.9	<0.05	4.2	14.56	12.5	0.06	<1	0.5	40.4	12	<2
120669	Soil	0.08	4.9	7.9	<0.05	2.2	11.91	20.5	0.03	<1	1.2	4.5	16	<2
120670	Soil	0.32	5.2	0.6	<0.05	1.8	14.89	22.0	0.03	<1	0.7	9.8	20	<2
120671	Soil	0.13	3.3	2.5	<0.05	1.6	9.18	13.8	0.02	1	0.3	3.6	<10	<2
120672	Soil	0.10	1.5	0.4	<0.05	0.5	3.79	6.6	<0.02	<1	0.1	2.2	<10	<2
120673	Soil	0.10	2.7	1.1	<0.05	0.8	6.36	9.8	<0.02	<1	0.3	3.6	13	<2
120674	Soil	0.25	7.1	2.5	<0.05	3.4	8.72	17.3	<0.02	<1	0.6	9.9	18	<2
120675	Soil	0.13	9.7	3.9	<0.05	2.1	11.82	24.1	<0.02	2	0.5	8.1	15	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
120676	Soil			0.68	35.35	38.48	141.1	268	47.5	19.6	615	3.72	12.9	0.9	1.4	6.6	54.4	0.15	0.40	0.45	8	0.36	0.063
120677	Soil			0.73	40.86	55.55	146.9	283	43.1	18.2	523	4.45	9.3	1.0	<0.2	6.5	63.9	0.19	0.42	0.46	12	0.73	0.070
120678	Soil			0.54	32.43	41.85	108.3	232	39.9	18.2	373	3.90	7.1	0.7	<0.2	5.7	230.3	0.07	0.30	0.41	9	4.00	0.047
120679	Soil			0.56	35.20	48.70	118.1	300	36.4	14.2	322	4.11	7.8	0.8	0.6	2.7	85.9	0.13	0.36	0.45	11	1.15	0.071
120680	Soil			1.03	40.33	53.96	113.9	220	37.2	17.1	385	3.86	17.8	1.4	<0.2	3.5	35.6	0.13	0.53	0.49	15	0.25	0.057
120681	Soil			1.06	48.46	66.35	121.9	221	44.1	24.7	822	4.32	16.2	1.2	1.3	4.6	20.8	0.11	0.71	0.44	18	0.14	0.050
120682	Soil			0.86	42.11	43.87	106.0	197	32.0	19.3	1382	4.05	6.9	0.9	0.6	5.6	24.2	0.13	0.38	0.34	23	0.25	0.089
120683	Soil			0.64	29.93	46.68	92.7	166	23.2	12.0	710	3.56	8.1	1.5	0.5	2.6	45.8	0.17	0.42	0.32	20	0.68	0.129
120684	Soil			0.74	26.54	38.33	93.5	148	26.5	12.3	636	3.81	9.0	1.7	0.7	1.4	75.7	0.17	0.41	0.25	15	1.55	0.103
120685	Soil			0.66	38.65	39.11	114.7	363	34.9	12.9	400	4.54	10.4	1.6	1.1	3.3	75.2	0.16	0.47	0.34	18	1.12	0.083
120686	Soil			0.69	33.50	28.69	92.9	184	29.5	11.6	398	3.67	7.9	1.5	0.4	2.4	58.0	0.14	0.44	0.30	23	0.74	0.079
120687	Soil			0.90	28.63	23.73	76.3	29	24.4	10.1	243	3.12	10.9	0.6	0.5	0.5	15.0	0.05	0.52	0.28	22	0.11	0.056
120688	Soil			0.44	21.28	17.98	52.0	33	18.4	7.1	191	2.58	6.9	0.5	3.1	1.5	18.3	0.09	0.31	0.27	18	0.21	0.049
120689	Soil			0.69	18.62	20.96	61.9	38	19.1	8.6	332	2.73	10.0	0.5	2.4	0.8	13.8	0.09	0.45	0.24	23	0.16	0.056
120690	Soil			1.13	21.24	21.64	75.7	27	21.0	10.0	479	2.99	10.5	0.5	3.5	0.9	5.9	0.17	0.76	0.25	33	0.05	0.050
120691	Soil			0.78	21.60	15.68	57.5	16	17.9	6.3	176	2.48	7.7	0.5	1.1	0.3	10.5	0.09	0.48	0.24	24	0.09	0.048
120692	Soil			1.12	21.74	23.44	107.5	22	22.2	9.6	526	3.46	12.1	0.6	1.1	0.6	26.7	0.19	0.73	0.33	44	0.34	0.069
120693	Soil			0.66	22.37	23.51	76.8	45	17.9	8.2	487	3.14	7.9	0.5	0.8	1.0	19.9	0.14	0.38	0.32	25	0.30	0.104
120694	Soil			0.71	21.98	25.39	80.4	73	22.9	10.4	497	3.24	9.6	1.3	1.5	1.8	36.6	0.17	0.52	0.31	28	0.57	0.075
120695	Soil			0.54	21.95	20.84	72.9	101	18.0	9.5	692	2.73	7.6	3.2	1.2	1.0	111.6	0.20	0.40	0.25	20	1.85	0.106
120696	Soil			0.56	26.21	24.21	91.4	119	19.4	10.2	682	2.63	9.0	3.6	1.9	0.7	125.4	0.29	0.50	0.26	20	2.15	0.131
120697	Soil			1.93	30.23	29.16	73.0	259	22.9	9.4	366	2.94	28.7	1.3	4.7	1.6	40.8	0.28	2.18	0.30	23	0.66	0.075
120698	Soil			1.08	19.76	21.90	87.9	337	16.9	7.6	416	2.13	12.4	8.0	4.9	0.7	134.8	0.34	0.70	0.20	13	2.01	0.085
120699	Soil			0.58	23.03	18.54	88.1	122	24.6	10.6	384	2.78	17.5	2.8	2.2	1.7	49.6	0.20	0.87	0.24	21	1.11	0.080
120700	Soil			0.86	25.92	23.73	87.9	86	26.6	9.6	465	2.88	14.4	2.8	6.0	2.5	42.5	0.15	0.69	0.21	29	0.71	0.119
120701	Soil			1.21	21.48	25.59	62.1	118	16.2	6.0	269	2.61	8.0	0.9	1.2	<0.1	9.8	0.12	0.65	0.26	33	0.11	0.099
120702	Soil			0.67	34.52	26.34	83.2	174	26.6	10.5	457	3.09	11.9	1.6	2.6	2.1	66.0	0.16	0.65	0.29	22	0.96	0.086
120703	Soil			0.68	37.75	27.50	91.4	221	28.9	13.1	637	3.32	11.7	2.0	2.4	2.4	63.1	0.17	0.53	0.32	23	0.99	0.092
120704	Soil			0.71	33.50	35.09	99.6	137	24.8	11.2	593	2.99	14.6	1.7	2.4	1.7	93.8	0.25	0.53	0.32	18	1.63	0.087
120705	Soil			0.64	27.27	28.71	109.3	120	25.3	12.7	539	3.44	29.0	1.5	2.0	1.1	64.8	0.26	0.87	0.28	20	1.12	0.073



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
120676	Soil	9.5	7.4	0.08	134.2	0.001	3	0.40	0.004	0.13	<0.1	4.5	0.29	0.04	273	0.6	0.05	1.1	1.52	<0.1	0.04
120677	Soil	9.4	12.3	0.16	207.8	0.002	5	0.65	0.008	0.14	<0.1	6.2	0.21	0.10	141	0.5	0.07	1.5	2.72	<0.1	0.04
120678	Soil	4.2	10.0	0.20	104.2	0.001	4	0.65	0.008	0.11	<0.1	4.6	0.18	0.09	150	0.6	0.02	1.6	2.57	<0.1	0.05
120679	Soil	6.8	11.9	0.20	149.0	0.001	5	0.74	0.013	0.11	<0.1	4.9	0.18	0.12	150	0.9	0.08	1.8	2.51	<0.1	0.06
120680	Soil	5.6	14.4	0.17	107.3	0.002	2	0.82	0.009	0.10	<0.1	5.3	0.11	0.05	52	0.6	0.09	2.1	3.86	<0.1	0.07
120681	Soil	4.7	20.8	0.36	104.5	0.007	4	1.09	0.009	0.12	<0.1	7.6	0.15	0.02	41	0.5	0.17	3.2	5.53	<0.1	0.07
120682	Soil	6.6	23.9	0.47	101.8	0.007	4	1.47	0.008	0.11	<0.1	7.4	0.12	0.02	60	0.4	0.05	4.6	11.42	<0.1	0.03
120683	Soil	8.0	17.9	0.21	123.7	0.004	2	1.00	0.005	0.09	<0.1	5.8	0.09	0.09	47	0.4	0.07	3.0	3.94	<0.1	0.09
120684	Soil	12.1	14.7	0.20	102.3	0.002	4	0.75	0.005	0.07	<0.1	4.3	0.08	0.12	48	0.7	0.11	2.1	2.15	<0.1	0.04
120685	Soil	13.4	19.9	0.29	131.7	0.002	2	1.08	0.004	0.08	<0.1	8.1	0.09	0.07	101	0.7	0.10	3.1	2.69	<0.1	0.05
120686	Soil	10.2	20.2	0.26	144.2	0.003	2	1.11	0.004	0.07	<0.1	5.0	0.11	0.06	81	0.4	0.06	3.2	3.00	<0.1	0.05
120687	Soil	5.8	16.5	0.12	50.1	0.003	<1	0.75	0.003	0.05	<0.1	0.9	0.11	0.03	10	0.3	0.07	2.9	2.68	<0.1	<0.02
120688	Soil	5.4	14.5	0.17	90.7	0.002	1	0.78	0.002	0.05	<0.1	2.2	0.09	<0.02	33	0.1	0.04	2.4	3.22	<0.1	0.02
120689	Soil	5.9	15.0	0.19	84.3	0.005	1	0.75	0.002	0.05	<0.1	1.9	0.08	0.03	47	0.1	0.04	2.3	2.20	<0.1	<0.02
120690	Soil	6.1	20.9	0.26	42.5	0.008	1	1.22	0.002	0.04	0.1	1.7	0.10	0.02	37	0.4	0.05	3.6	1.47	<0.1	<0.02
120691	Soil	4.0	15.6	0.14	56.6	0.004	<1	0.72	0.001	0.04	<0.1	1.0	0.09	0.03	29	0.2	0.04	3.0	1.70	<0.1	<0.02
120692	Soil	6.9	25.2	0.37	153.5	0.007	2	1.41	0.002	0.08	0.1	1.6	0.15	0.03	22	0.2	0.07	5.4	2.56	<0.1	<0.02
120693	Soil	4.4	16.1	0.13	162.5	0.002	2	1.08	<0.001	0.06	<0.1	2.0	0.14	0.06	34	0.1	0.05	3.8	2.32	<0.1	0.03
120694	Soil	10.8	19.0	0.24	144.1	0.004	1	1.09	0.002	0.05	<0.1	3.7	0.13	0.05	63	0.1	0.06	3.4	2.27	<0.1	0.02
120695	Soil	13.8	16.6	0.28	129.5	0.003	3	1.00	0.004	0.04	<0.1	2.7	0.08	0.12	86	0.4	0.05	2.6	0.92	<0.1	0.03
120696	Soil	17.6	17.3	0.35	169.5	0.003	4	1.16	0.006	0.05	<0.1	2.2	0.10	0.15	98	0.6	0.04	3.1	1.32	<0.1	0.02
120697	Soil	12.2	14.1	0.16	118.6	0.002	2	0.87	0.002	0.05	<0.1	4.4	0.17	0.03	1740	0.4	0.08	2.4	1.04	<0.1	0.03
120698	Soil	20.9	10.7	0.18	72.8	0.003	3	0.52	0.003	0.04	<0.1	1.8	0.07	0.09	157	1.0	0.03	1.2	0.74	<0.1	0.03
120699	Soil	21.9	21.4	0.20	672.2	0.003	2	0.64	0.002	0.05	<0.1	3.8	0.08	0.07	850	0.8	0.04	1.8	1.10	<0.1	0.05
120700	Soil	20.3	47.9	0.39	135.7	0.004	2	0.99	0.002	0.05	<0.1	4.4	0.13	0.04	227	0.6	0.03	3.0	1.38	<0.1	0.04
120701	Soil	6.7	20.0	0.17	83.4	0.003	1	1.12	0.003	0.05	<0.1	0.5	0.14	0.07	44	0.3	0.06	4.1	1.98	<0.1	<0.02
120702	Soil	16.8	19.1	0.37	129.4	0.004	3	1.17	0.005	0.06	<0.1	7.2	0.09	0.06	135	0.4	0.05	3.1	1.71	<0.1	0.04
120703	Soil	20.4	21.1	0.44	138.0	0.005	3	1.33	0.006	0.06	<0.1	7.7	0.09	0.06	126	0.4	0.07	3.6	2.19	<0.1	0.04
120704	Soil	18.6	18.1	0.29	102.1	0.003	3	0.92	0.006	0.07	<0.1	5.4	0.09	0.07	239	0.4	0.06	2.4	1.68	<0.1	0.03
120705	Soil	21.7	15.5	0.10	83.7	0.002	2	0.56	0.005	0.05	<0.1	4.1	0.15	0.07	403	0.5	0.05	1.5	0.82	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 4 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
120676	Soil	0.04	7.3	0.9	<0.05	3.8	12.87	25.8	0.05	<1	1.0	4.3	11	<2
120677	Soil	0.05	9.3	5.1	<0.05	2.3	20.46	25.1	0.03	1	1.2	11.6	<10	<2
120678	Soil	0.03	7.1	1.4	<0.05	3.6	12.69	13.2	0.03	<1	1.1	18.2	<10	<2
120679	Soil	0.09	8.1	2.4	<0.05	2.3	18.15	15.8	0.05	<1	1.1	17.8	10	<2
120680	Soil	0.08	8.5	2.1	<0.05	2.6	10.66	12.0	0.04	<1	0.7	21.8	<10	<2
120681	Soil	0.12	10.8	8.4	<0.05	3.6	12.80	12.0	0.02	<1	1.1	40.2	10	3
120682	Soil	0.11	12.7	2.0	<0.05	1.5	17.99	19.4	0.04	<1	1.3	50.5	10	<2
120683	Soil	0.19	8.8	5.0	<0.05	2.4	26.56	21.3	0.03	<1	1.5	20.8	<10	<2
120684	Soil	0.17	6.1	6.4	<0.05	1.2	22.48	30.0	0.03	<1	1.2	16.2	<10	<2
120685	Soil	0.23	8.2	3.6	<0.05	2.0	31.07	20.8	0.04	<1	1.3	25.6	10	<2
120686	Soil	0.35	9.0	2.1	<0.05	2.0	17.63	20.4	0.05	<1	1.1	22.4	<10	<2
120687	Soil	0.11	8.3	3.2	<0.05	0.4	3.15	12.0	<0.02	<1	0.2	10.9	<10	<2
120688	Soil	0.14	7.1	1.5	<0.05	1.0	6.14	12.2	0.04	<1	0.8	14.4	<10	<2
120689	Soil	0.17	6.5	1.5	<0.05	0.3	6.80	13.8	0.03	<1	0.7	13.1	<10	<2
120690	Soil	0.34	6.4	1.9	<0.05	0.3	3.21	18.0	<0.02	<1	0.5	17.1	<10	<2
120691	Soil	0.12	6.6	2.5	<0.05	0.1	2.98	10.1	<0.02	<1	0.5	8.5	<10	<2
120692	Soil	0.32	11.7	2.4	<0.05	0.4	4.37	20.0	0.04	<1	0.6	17.7	<10	<2
120693	Soil	0.20	14.0	2.6	<0.05	1.4	4.70	13.1	0.04	<1	0.8	11.8	<10	<2
120694	Soil	0.32	8.9	1.0	<0.05	1.4	12.60	37.0	0.04	<1	1.0	16.1	<10	<2
120695	Soil	0.35	5.6	1.4	<0.05	1.8	18.39	34.9	0.03	<1	0.9	15.9	<10	<2
120696	Soil	0.34	6.6	5.3	<0.05	1.3	22.09	40.1	0.04	<1	1.0	18.0	<10	<2
120697	Soil	0.18	7.3	10.0	<0.05	1.8	14.26	27.9	0.04	<1	0.9	9.1	<10	<2
120698	Soil	0.23	4.3	4.9	<0.05	1.3	12.09	45.6	0.03	<1	0.8	7.1	<10	<2
120699	Soil	0.27	6.5	2.6	<0.05	2.6	19.31	39.6	0.04	<1	0.8	6.8	<10	<2
120700	Soil	0.20	7.3	2.2	<0.05	2.1	15.70	55.0	0.03	<1	0.8	16.2	<10	<2
120701	Soil	0.20	9.9	13.8	<0.05	<0.1	4.75	16.3	0.03	<1	0.5	8.3	<10	<2
120702	Soil	0.28	6.4	7.8	<0.05	2.4	28.97	26.3	0.05	<1	1.0	24.2	<10	<2
120703	Soil	0.29	6.5	6.6	<0.05	2.7	31.07	35.0	0.05	<1	1.3	29.5	<10	<2
120704	Soil	0.21	5.8	16.0	<0.05	1.8	26.75	40.4	0.06	<1	1.0	17.3	<10	<2
120705	Soil	0.12	5.1	7.0	<0.05	1.0	29.60	48.7	0.04	<1	1.0	3.5	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
120706	Soil			0.55	26.01	21.06	65.8	75	16.8	7.9	905	2.31	20.1	4.2	1.8	0.5	122.6	0.20	0.71	0.27	13	2.18	0.098
120707	Soil			0.72	31.54	33.44	92.6	85	23.2	12.4	656	2.61	21.4	1.5	2.4	0.7	120.4	0.18	0.75	0.28	14	2.14	0.096
120708	Soil			1.00	37.31	38.74	97.0	85	29.0	11.9	181	2.95	23.0	1.3	2.4	2.5	75.9	0.14	0.90	0.32	14	1.29	0.065
120709	Soil			0.81	18.65	13.90	64.9	342	13.9	6.8	317	1.70	10.8	1.7	5.8	1.6	23.2	0.27	0.57	0.11	12	0.59	0.056
120710	Soil			0.81	16.88	22.40	90.9	187	14.5	7.1	483	2.02	10.9	5.3	2.6	1.2	62.1	0.34	0.68	0.14	19	0.86	0.078
120711	Soil			0.34	40.96	22.84	79.3	52	19.5	8.6	278	2.63	2.4	0.7	1.0	3.9	14.4	0.13	0.17	0.21	33	0.36	0.067
120712	Soil			0.52	27.79	22.56	87.1	53	25.1	9.9	415	2.55	6.2	1.8	1.7	2.1	38.0	0.20	0.41	0.26	16	1.30	0.074
120713	Soil			0.69	25.94	26.14	82.3	30	32.0	13.4	467	3.65	12.0	0.7	1.7	2.4	9.2	0.09	0.51	0.32	30	0.06	0.037
120714	Soil			0.86	20.01	21.03	76.9	32	20.9	10.2	472	3.75	8.9	0.4	3.0	2.3	7.5	0.15	0.66	0.31	35	0.03	0.034
120715	Soil			0.79	26.09	28.28	86.5	30	17.4	15.5	920	4.24	11.7	0.4	1.1	2.0	8.1	0.10	0.49	0.37	30	0.02	0.047
120716	Soil			1.03	28.93	32.26	78.7	56	18.7	11.4	640	3.81	16.2	0.5	1.2	0.7	8.0	0.11	0.52	0.33	34	0.02	0.065
120717	Soil			0.92	18.19	30.77	61.2	72	15.2	5.9	315	3.69	10.2	0.8	1.5	0.1	11.7	0.14	0.42	0.29	30	0.10	0.096
120718	Soil			0.84	30.62	35.63	90.5	35	29.1	18.9	857	4.43	17.9	0.6	1.5	2.4	10.9	0.14	0.40	0.36	25	0.03	0.036
120719	Soil			0.97	40.71	28.09	143.6	112	34.6	16.2	436	3.33	12.2	0.8	5.4	4.1	75.2	0.16	0.64	0.22	17	0.87	0.057
120720	Soil			1.35	16.94	24.35	90.2	55	19.6	4.5	189	1.00	3.8	0.9	1.4	0.5	93.0	0.35	0.29	0.10	9	2.82	0.089
120721	Soil			1.19	36.18	33.49	92.0	104	31.9	11.6	332	2.48	13.7	1.5	3.5	4.0	72.6	0.35	0.82	0.21	18	2.00	0.070
120722	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
120723	Soil			1.13	44.96	53.65	118.3	150	44.6	21.9	862	4.14	22.8	1.6	1.9	3.6	38.1	0.11	1.46	0.37	23	0.16	0.081
120724	Soil			1.30	29.00	96.67	92.8	152	28.1	17.0	568	3.26	19.6	0.5	5.4	1.5	29.6	0.14	0.80	0.50	20	0.29	0.062
120725	Soil			0.70	27.31	29.58	71.9	126	24.1	9.3	417	2.47	13.2	4.6	2.7	1.4	103.8	0.22	0.54	0.28	15	1.65	0.070
120801	Soil			1.19	40.19	63.19	118.6	168	41.5	16.8	468	4.05	16.0	0.9	1.8	2.4	31.6	0.16	0.48	0.43	14	0.32	0.044
120802	Soil			0.87	33.56	38.41	103.8	249	33.2	11.8	349	3.72	12.1	1.8	1.5	2.8	39.0	0.13	0.42	0.40	17	0.49	0.075
120803	Soil			0.87	38.51	35.24	97.0	338	32.7	14.6	578	3.65	9.0	1.9	2.6	3.0	47.9	0.16	0.42	0.37	16	0.66	0.076
120804	Soil			0.74	37.23	33.00	101.4	307	32.4	13.5	394	3.82	9.3	2.0	1.8	2.7	52.2	0.14	0.40	0.37	16	0.66	0.082
120805	Soil			0.72	24.92	30.00	107.0	51	21.3	9.9	590	3.30	6.7	0.7	1.1	0.8	41.5	0.23	0.45	0.36	23	0.59	0.128
120806	Soil			1.01	25.40	27.69	77.8	63	21.8	8.8	487	2.87	10.8	0.8	0.8	0.6	24.8	0.11	0.58	0.34	25	0.25	0.096
120807	Soil			0.68	36.26	27.23	90.0	32	31.1	12.9	347	3.30	8.6	0.8	1.8	3.1	11.8	0.11	0.51	0.32	21	0.07	0.037
120808	Soil			0.81	30.11	26.76	124.7	74	33.5	11.4	447	3.28	9.2	1.3	2.1	2.2	21.6	0.26	0.51	0.38	27	0.12	0.076
120809	Soil			1.03	29.26	25.49	115.1	96	26.2	11.2	542	3.04	12.1	1.2	2.2	1.8	46.1	0.26	0.76	0.34	30	0.59	0.121
120810	Soil			0.78	35.79	24.51	92.9	163	32.2	12.7	469	3.47	13.4	1.7	3.0	3.2	39.3	0.15	0.63	0.32	25	0.41	0.065



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	Unit	MDL	1F15 La	1F15 Cr	1F15 Mg	1F15 Ba	1F15 Ti	1F15 B	1F15 Al	1F15 Na	1F15 K	1F15 W	1F15 Sc	1F15 Ti	1F15 S	1F15 Hg	1F15 Se	1F15 Te	1F15 Ga	1F15 Cs	1F15 Ge	1F15 Hf
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
120706	Soil			10.9	10.8	0.13	77.1	0.002	5	0.57	0.007	0.05	<0.1	2.1	0.12	0.13	190	0.5	0.04	1.6	0.78	<0.1	<0.02
120707	Soil			15.6	10.9	0.10	79.9	0.001	3	0.59	0.007	0.05	<0.1	3.5	0.13	0.10	344	0.4	0.06	1.4	1.18	<0.1	<0.02
120708	Soil			11.4	11.8	0.12	67.4	0.002	4	0.61	0.005	0.07	<0.1	5.6	0.18	0.05	264	0.5	0.07	1.4	1.19	<0.1	0.04
120709	Soil			19.9	11.5	0.14	47.8	0.002	1	0.42	0.002	0.04	<0.1	3.0	0.08	0.03	352	0.5	<0.02	1.2	0.33	<0.1	0.02
120710	Soil			19.8	19.5	0.25	93.3	0.002	1	0.69	0.003	0.03	<0.1	2.4	0.10	0.06	235	0.6	<0.02	2.0	0.34	<0.1	0.03
120711	Soil			26.2	36.7	0.91	559.7	0.002	2	1.30	0.001	0.09	<0.1	2.9	0.09	0.04	18	0.6	<0.02	5.1	0.54	<0.1	0.04
120712	Soil			20.4	27.9	0.55	67.6	0.002	3	0.79	0.007	0.06	<0.1	4.2	0.07	0.07	71	0.4	<0.02	2.5	0.65	<0.1	0.02
120713	Soil			8.9	22.6	0.32	85.0	0.005	1	1.50	0.002	0.06	<0.1	3.4	0.13	<0.02	69	0.3	0.06	3.7	2.29	<0.1	<0.02
120714	Soil			6.2	28.0	0.46	50.5	0.009	1	1.52	0.002	0.06	<0.1	2.5	0.09	0.02	30	0.2	0.05	5.9	9.91	<0.1	<0.02
120715	Soil			5.3	20.3	0.22	51.9	0.002	2	1.40	<0.001	0.08	<0.1	3.1	0.14	<0.02	40	0.2	0.07	4.9	6.83	<0.1	<0.02
120716	Soil			4.9	24.2	0.26	62.2	0.004	2	1.50	0.003	0.09	<0.1	2.0	0.13	0.05	75	0.3	0.08	5.3	7.63	<0.1	<0.02
120717	Soil			4.9	27.3	0.21	46.8	0.004	2	1.08	0.004	0.06	<0.1	0.6	0.09	0.08	64	0.2	0.07	4.4	2.90	<0.1	<0.02
120718	Soil			4.2	24.4	0.49	67.3	<0.001	2	1.97	<0.001	0.08	<0.1	3.6	0.12	0.02	63	0.3	0.05	4.8	4.52	<0.1	0.03
120719	Soil			19.8	24.8	0.72	320.5	<0.001	2	0.84	0.003	0.08	<0.1	7.8	0.10	0.02	251	1.2	0.02	2.0	2.57	<0.1	0.06
120720	Soil			5.8	28.0	0.35	97.6	0.003	6	0.39	0.017	0.05	0.1	1.3	0.06	0.16	146	0.9	<0.02	1.2	0.70	<0.1	0.04
120721	Soil			19.5	31.1	0.87	56.8	0.002	3	0.74	0.005	0.09	<0.1	5.2	0.10	0.04	128	1.1	0.02	2.3	1.11	<0.1	0.05
120722	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
120723	Soil			8.6	35.4	0.66	53.5	0.003	2	1.74	0.002	0.08	<0.1	5.0	0.11	0.02	264	0.3	0.09	5.0	6.97	<0.1	0.05
120724	Soil			3.7	27.4	0.19	42.7	0.006	3	0.74	0.008	0.08	<0.1	3.0	0.09	0.06	191	0.4	0.17	3.2	6.95	<0.1	<0.02
120725	Soil			16.3	18.6	0.41	68.1	0.003	3	0.90	0.007	0.05	<0.1	3.3	0.08	0.08	411	0.8	0.04	2.5	1.14	<0.1	0.07
120801	Soil			5.3	18.8	0.12	82.5	0.001	3	0.54	0.005	0.08	<0.1	4.5	0.13	0.03	85	0.4	0.04	1.3	2.61	<0.1	0.06
120802	Soil			7.1	15.4	0.10	101.8	0.001	3	0.65	0.004	0.08	<0.1	5.2	0.18	0.05	147	0.4	0.06	1.7	3.80	<0.1	0.08
120803	Soil			8.4	15.2	0.12	146.2	0.001	3	0.65	0.004	0.07	<0.1	5.9	0.16	0.04	207	0.4	0.05	1.6	4.36	<0.1	0.10
120804	Soil			9.3	14.5	0.12	124.8	0.001	3	0.66	0.004	0.07	<0.1	6.0	0.13	0.05	193	0.4	0.06	1.7	3.34	<0.1	0.06
120805	Soil			4.7	18.6	0.18	128.6	0.004	2	0.91	0.005	0.08	<0.1	1.6	0.10	0.07	28	0.2	0.07	3.4	4.36	<0.1	0.03
120806	Soil			6.3	15.7	0.16	107.6	0.005	2	0.87	0.006	0.07	<0.1	1.4	0.12	0.06	69	0.2	0.06	3.0	2.70	<0.1	<0.02
120807	Soil			7.5	17.9	0.24	79.5	0.006	2	0.84	0.003	0.06	<0.1	2.9	0.07	<0.02	35	0.2	0.05	2.7	3.53	<0.1	<0.02
120808	Soil			8.9	27.0	0.29	175.6	0.005	2	1.51	0.005	0.09	<0.1	3.4	0.13	0.04	78	0.2	0.04	3.9	14.34	<0.1	0.07
120809	Soil			10.1	24.0	0.36	163.2	0.007	2	1.30	0.007	0.08	<0.1	3.9	0.11	0.06	100	0.3	0.03	3.7	2.35	<0.1	0.06
120810	Soil			18.3	21.5	0.41	125.3	0.005	2	1.33	0.006	0.06	<0.1	6.9	0.09	0.03	131	0.1	0.07	3.2	2.89	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 5 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
120706	Soil	0.18	5.4	8.9	<0.05	1.3	19.29	24.9	0.04	<1	0.9	5.8	<10	<2
120707	Soil	0.16	4.9	12.5	<0.05	1.1	21.65	31.8	0.05	<1	0.9	5.0	<10	<2
120708	Soil	0.12	6.0	16.0	<0.05	2.1	18.04	28.8	0.04	<1	0.9	5.1	<10	<2
120709	Soil	0.10	3.8	3.1	<0.05	1.3	12.33	55.8	0.02	<1	0.5	5.6	<10	<2
120710	Soil	0.11	5.1	9.0	<0.05	1.5	10.07	71.3	0.02	<1	0.6	9.7	<10	<2
120711	Soil	0.17	10.5	12.7	<0.05	2.7	7.20	62.7	0.04	<1	0.8	31.6	<10	<2
120712	Soil	0.17	5.9	9.0	<0.05	1.9	18.13	54.1	0.04	<1	1.0	16.7	<10	<2
120713	Soil	0.32	9.0	2.5	<0.05	0.7	5.77	25.9	0.04	<1	1.0	20.5	<10	<2
120714	Soil	0.63	8.4	4.1	<0.05	1.0	2.19	14.1	0.03	<1	0.5	32.1	<10	<2
120715	Soil	0.25	11.7	4.6	<0.05	1.2	2.57	12.4	0.03	<1	0.6	21.6	<10	<2
120716	Soil	0.37	12.6	6.8	<0.05	0.4	3.46	12.7	0.03	<1	0.8	22.0	<10	<2
120717	Soil	0.28	7.8	13.3	<0.05	<0.1	2.50	13.2	0.03	<1	0.4	11.1	<10	<2
120718	Soil	0.15	11.4	6.4	<0.05	1.8	3.59	13.5	0.04	<1	1.1	55.3	<10	<2
120719	Soil	0.08	5.6	7.9	<0.05	4.1	18.75	44.1	0.03	<1	0.9	16.5	<10	<2
120720	Soil	0.17	3.8	18.5	<0.05	2.8	5.02	12.7	<0.02	<1	0.3	6.0	<10	<2
120721	Soil	0.14	5.6	12.8	<0.05	3.3	14.60	43.3	0.05	<1	0.8	15.8	<10	<2
120722	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
120723	Soil	0.14	8.5	15.5	<0.05	1.9	14.37	27.5	0.05	<1	1.5	53.4	<10	<2
120724	Soil	0.23	9.3	45.4	<0.05	0.7	3.21	8.6	<0.02	2	0.2	12.4	<10	<2
120725	Soil	0.20	6.3	8.1	<0.05	1.8	17.98	29.6	<0.02	<1	1.0	19.9	<10	<2
120801	Soil	0.07	5.7	14.7	<0.05	2.3	12.69	11.3	<0.02	<1	0.7	11.9	<10	<2
120802	Soil	0.14	8.8	5.5	<0.05	2.4	18.74	13.7	0.05	1	0.7	8.9	<10	<2
120803	Soil	0.13	7.8	3.5	<0.05	2.6	21.32	17.9	0.05	<1	1.1	9.8	<10	<2
120804	Soil	0.10	7.7	2.5	<0.05	2.1	22.36	17.6	0.04	<1	1.0	9.7	<10	<2
120805	Soil	0.22	15.6	2.8	<0.05	0.6	4.54	11.6	0.04	<1	0.7	14.7	<10	<2
120806	Soil	0.15	11.1	2.0	<0.05	0.4	5.65	13.9	0.03	<1	1.1	10.6	<10	<2
120807	Soil	0.16	5.6	3.1	<0.05	0.6	5.81	16.1	0.03	<1	0.8	19.4	<10	<2
120808	Soil	0.28	16.4	3.5	<0.05	2.0	11.50	24.7	0.02	<1	0.9	34.0	<10	<2
120809	Soil	0.38	11.7	3.1	<0.05	1.6	11.32	21.0	0.04	<1	0.9	19.1	<10	<2
120810	Soil	0.27	7.5	1.8	<0.05	2.0	28.06	31.2	0.04	<1	1.2	24.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
120811	Soil			0.55	35.07	25.06	85.6	160	25.6	12.2	485	3.06	17.5	2.9	2.5	2.2	87.1	0.15	0.61	0.36	19	1.22	0.087
120812	Soil			0.80	43.30	31.56	116.6	131	35.4	16.0	561	3.42	38.0	1.5	1.6	2.4	63.7	0.20	1.40	0.38	19	0.78	0.071
120813	Soil			0.77	41.14	31.28	93.1	85	35.5	16.9	312	3.14	19.0	1.3	2.3	4.0	240.9	0.12	0.57	0.37	9	4.33	0.051
120814	Soil			0.57	39.88	26.58	101.5	99	26.6	11.6	282	2.91	25.6	1.9	2.5	1.7	89.0	0.13	0.87	0.38	14	1.22	0.065
120815	Soil			2.17	34.53	22.37	84.4	191	24.3	10.1	406	3.00	163.9	1.9	5.5	1.4	53.6	0.49	4.55	0.27	23	1.02	0.071
120816	Soil			1.19	27.79	18.27	105.8	447	24.9	9.3	325	2.47	14.0	4.8	5.5	1.7	122.6	0.34	0.58	0.19	24	1.56	0.091
120817	Soil			0.61	33.06	27.45	94.3	117	30.8	13.7	426	3.46	12.3	1.6	2.2	3.4	24.9	0.22	0.58	0.33	26	0.35	0.041
120818	Soil			0.60	25.70	19.34	91.9	51	24.8	10.5	383	3.19	8.4	1.8	0.9	3.4	33.0	0.16	0.70	0.27	30	0.45	0.058
120819	Soil			0.87	29.35	27.63	119.2	86	27.8	11.3	578	3.25	23.4	1.7	1.9	1.2	35.1	0.23	0.81	0.26	31	0.97	0.072
120820	Soil			0.42	45.04	23.34	108.8	50	31.6	14.8	615	3.30	8.7	1.1	1.8	4.9	27.2	0.18	0.42	0.40	10	0.45	0.067
120821	Soil			0.94	25.77	29.10	113.0	80	25.3	10.3	678	3.89	7.9	0.8	1.0	0.4	27.0	0.21	0.61	0.42	36	0.19	0.091
120822	Soil			0.93	45.19	49.78	100.1	58	29.6	31.2	2044	4.12	16.6	0.7	2.0	2.9	16.0	0.13	0.49	0.44	23	0.05	0.045
120823	Soil			1.33	31.17	24.20	64.6	176	26.7	11.2	422	3.10	18.1	3.9	4.2	3.3	25.8	0.13	0.83	0.25	25	0.14	0.037
120824	Soil			1.17	25.36	27.40	78.0	89	21.8	12.2	664	3.89	14.6	1.5	1.4	0.7	14.2	0.11	0.50	0.34	31	0.07	0.101
120825	Soil			1.11	23.96	19.56	100.3	29	27.7	13.6	602	3.88	15.6	0.9	1.1	2.0	21.1	0.09	0.73	0.35	42	0.16	0.048
120826	Soil			0.85	45.85	27.56	113.5	117	35.3	15.1	371	3.57	11.1	1.2	2.6	3.8	44.8	0.17	0.61	0.30	20	0.81	0.065
120827	Soil			0.72	34.22	25.82	107.8	103	33.6	13.5	382	3.00	20.4	1.8	3.1	3.7	65.6	0.14	2.24	0.29	17	0.59	0.068
120828	Soil			0.57	37.51	33.38	94.9	171	34.7	18.4	653	3.10	9.7	2.6	2.3	3.7	48.7	0.10	0.71	0.32	19	0.38	0.058
120829	Soil			1.33	48.86	54.16	111.9	229	30.0	22.3	1215	5.19	27.5	0.8	0.9	2.1	15.9	0.07	2.04	0.42	29	0.03	0.092
120830	Soil			0.80	30.90	26.21	102.3	102	27.9	12.9	609	3.12	14.1	2.1	0.8	3.1	63.7	0.18	0.54	0.28	19	0.83	0.057
612446	Soil			0.94	26.55	21.28	78.7	54	26.7	9.3	230	2.95	9.1	0.7	1.4	0.7	9.6	0.11	0.63	0.25	28	0.07	0.053
612447	Soil			0.99	30.88	21.93	88.5	79	30.1	13.2	639	3.43	11.0	1.1	2.1	2.6	25.5	0.13	0.61	0.27	33	0.29	0.079
612448	Soil			0.77	33.15	24.39	88.6	97	33.0	15.0	658	3.32	9.7	1.5	1.8	4.1	48.8	0.16	0.54	0.32	22	0.61	0.044
612449	Soil			1.26	44.91	36.73	101.1	129	39.7	17.5	738	3.64	15.6	1.4	2.8	3.3	95.8	0.21	1.01	0.38	14	1.28	0.062
612450	Soil			0.97	31.74	35.29	76.6	112	26.6	11.0	363	2.81	10.1	1.2	6.4	1.5	151.7	0.26	0.68	0.33	12	2.92	0.113
612451	Soil			2.07	37.04	22.55	73.0	189	23.6	10.7	489	2.16	37.4	2.2	10.8	1.6	151.0	0.59	3.18	0.26	13	6.55	0.078
612452	Soil			1.55	36.13	21.62	87.1	322	24.3	11.3	378	2.37	28.9	2.2	10.8	1.8	100.3	0.42	1.82	0.24	18	3.21	0.089
612453	Soil			1.25	37.47	22.42	90.1	289	26.9	11.8	454	2.37	32.4	2.2	9.8	2.7	117.0	0.38	1.47	0.21	23	3.79	0.075
612454	Soil			1.52	25.09	16.89	48.7	137	17.2	7.9	266	1.54	25.7	2.3	5.7	3.7	182.5	0.40	1.77	0.15	10	9.28	0.050
612455	Soil			0.84	38.11	24.06	103.4	187	31.3	13.9	387	2.52	78.0	1.5	6.2	3.6	85.1	0.30	6.49	0.25	20	2.71	0.056



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
120811	Soil	16.7	18.4	0.26	139.9	0.003	3	1.07	0.006	0.07	<0.1	6.6	0.11	0.08	364	0.4	0.05	2.7	3.44	<0.1	0.07
120812	Soil	16.9	20.3	0.14	81.9	0.003	4	0.65	0.004	0.07	<0.1	6.5	0.16	0.04	451	0.4	0.07	1.9	1.34	<0.1	0.04
120813	Soil	8.3	8.9	0.13	62.8	0.001	3	0.45	0.005	0.07	<0.1	4.5	0.07	<0.02	171	0.3	0.07	1.0	1.70	<0.1	0.04
120814	Soil	10.3	12.3	0.12	155.1	0.002	3	0.65	0.005	0.06	<0.1	4.1	0.14	0.07	230	0.4	0.11	1.6	0.96	<0.1	0.05
120815	Soil	8.4	13.9	0.24	75.4	0.003	2	0.60	0.005	0.06	<0.1	3.2	0.46	0.06	1421	0.7	0.09	2.0	0.47	<0.1	0.06
120816	Soil	32.6	23.6	0.50	84.0	0.002	3	0.95	0.005	0.08	<0.1	2.5	0.14	0.08	259	0.8	0.03	2.5	0.65	<0.1	0.06
120817	Soil	16.0	22.9	0.28	122.9	0.003	2	1.15	0.004	0.08	<0.1	4.4	0.12	<0.02	320	0.5	<0.02	3.2	1.49	<0.1	0.04
120818	Soil	25.1	30.7	0.72	555.7	0.005	2	1.50	0.004	0.09	<0.1	3.9	0.12	0.03	338	0.6	0.05	4.4	1.31	<0.1	0.04
120819	Soil	10.6	35.3	0.24	96.1	0.005	3	0.59	0.008	0.06	<0.1	3.8	0.09	0.07	623	1.2	0.06	2.1	0.61	<0.1	0.05
120820	Soil	12.9	13.5	0.17	84.6	0.001	1	0.60	0.003	0.07	<0.1	6.4	0.06	0.03	86	0.4	0.03	1.3	1.02	<0.1	0.07
120821	Soil	9.0	33.6	0.47	90.8	0.009	3	1.68	0.005	0.08	<0.1	1.0	0.08	0.07	57	0.3	0.08	5.8	18.52	<0.1	<0.02
120822	Soil	6.9	23.0	0.35	72.9	0.003	2	1.54	0.004	0.11	<0.1	3.5	0.18	0.03	80	0.4	0.12	4.7	15.70	<0.1	0.03
120823	Soil	18.9	21.9	0.46	111.8	0.003	3	1.18	0.003	0.08	<0.1	5.2	0.11	<0.02	357	0.5	0.09	3.3	2.86	<0.1	0.04
120824	Soil	7.3	24.9	0.30	85.4	0.004	2	1.57	0.004	0.08	<0.1	1.5	0.12	0.06	93	0.3	0.06	5.2	4.35	<0.1	0.03
120825	Soil	11.3	30.2	0.43	107.0	0.009	2	1.68	0.006	0.10	0.1	2.7	0.13	<0.02	81	0.3	0.05	5.7	3.78	<0.1	<0.02
120826	Soil	20.2	30.2	0.67	168.0	0.003	4	1.09	0.006	0.08	<0.1	7.5	0.10	0.06	167	1.7	0.05	3.1	3.19	<0.1	0.10
120827	Soil	23.6	25.2	0.32	170.8	0.002	4	0.76	0.005	0.08	<0.1	5.7	0.10	0.04	505	0.9	0.04	2.2	1.25	<0.1	0.11
120828	Soil	9.5	29.1	0.61	73.1	0.002	2	1.59	0.005	0.10	<0.1	5.8	0.09	0.05	320	0.4	0.06	4.2	5.55	<0.1	0.07
120829	Soil	3.9	30.1	0.39	42.0	0.002	2	1.77	0.005	0.07	<0.1	2.4	0.12	0.05	95	0.4	0.09	5.1	7.52	<0.1	0.08
120830	Soil	10.0	23.7	0.47	74.7	0.004	2	1.14	0.006	0.07	<0.1	4.6	0.07	0.06	231	0.3	0.05	3.4	1.95	<0.1	0.08
612446	Soil	7.3	22.1	0.26	53.2	0.009	<1	1.07	0.004	0.06	<0.1	1.7	0.11	0.04	33	0.2	0.06	3.6	2.05	<0.1	<0.02
612447	Soil	12.4	23.7	0.36	168.7	0.006	2	1.56	0.006	0.06	<0.1	4.5	0.11	0.04	46	0.4	0.09	4.2	1.64	<0.1	0.05
612448	Soil	19.7	23.2	0.51	113.5	0.006	3	1.38	0.007	0.06	<0.1	5.7	0.06	0.04	62	0.2	0.07	3.7	0.98	<0.1	0.08
612449	Soil	16.8	19.0	0.40	75.3	0.002	3	1.04	0.006	0.07	<0.1	6.4	0.07	0.06	124	0.5	0.07	2.7	0.82	<0.1	0.05
612450	Soil	16.5	17.5	0.32	68.3	0.002	4	0.94	0.007	0.07	<0.1	4.1	0.06	0.10	91	0.2	0.09	2.0	0.48	<0.1	0.07
612451	Soil	8.4	7.6	2.45	82.1	0.001	4	0.34	0.008	0.08	<0.1	2.9	0.11	0.04	246	0.7	0.05	0.8	0.36	<0.1	0.10
612452	Soil	14.9	13.1	0.85	76.8	0.002	3	0.43	0.006	0.06	<0.1	3.1	0.16	0.03	316	0.7	<0.02	1.2	0.58	<0.1	0.06
612453	Soil	13.8	19.4	1.40	74.9	0.002	3	0.31	0.007	0.07	<0.1	4.0	0.16	0.02	340	1.1	<0.02	1.2	0.67	<0.1	0.07
612454	Soil	8.9	7.6	2.16	34.7	0.001	1	0.14	0.006	0.04	<0.1	3.5	0.10	<0.02	362	0.7	0.05	0.5	0.48	<0.1	0.06
612455	Soil	16.2	19.4	1.22	62.1	0.002	3	0.35	0.006	0.07	<0.1	5.4	0.23	<0.02	3449	1.1	<0.02	1.1	0.74	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 6 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
120811	Soil			0.33	7.3	1.8	<0.05	2.3	27.42	23.2	0.05	<1	1.4	15.4	<10	<2
120812	Soil			0.16	5.3	3.5	<0.05	1.3	26.60	30.0	0.05	<1	1.2	6.6	<10	<2
120813	Soil			0.09	4.2	2.9	<0.05	2.5	13.23	18.9	0.03	<1	0.6	5.2	<10	<2
120814	Soil			0.17	5.0	0.8	<0.05	1.5	20.44	18.7	0.04	<1	1.0	5.3	<10	<2
120815	Soil			0.26	4.6	1.4	<0.05	1.9	10.98	18.2	0.04	<1	0.5	5.7	<10	<2
120816	Soil			0.18	6.1	1.2	<0.05	2.3	16.86	50.0	0.04	1	1.7	20.1	<10	<2
120817	Soil			0.18	9.1	1.1	<0.05	1.2	12.29	30.7	0.04	2	1.5	15.6	<10	<2
120818	Soil			0.31	10.9	1.3	<0.05	1.3	10.18	47.5	0.02	<1	0.7	22.6	<10	<2
120819	Soil			0.28	6.4	4.8	<0.05	1.8	12.45	18.9	0.02	1	1.1	6.4	10	<2
120820	Soil			0.09	5.2	1.4	<0.05	2.2	17.43	31.6	0.05	<1	1.3	6.4	<10	<2
120821	Soil			0.30	11.5	2.3	<0.05	0.2	6.66	23.9	0.04	1	1.1	28.6	<10	<2
120822	Soil			0.20	12.6	7.9	<0.05	1.1	3.49	16.9	0.03	<1	1.1	32.2	<10	<2
120823	Soil			0.15	11.1	1.6	<0.05	1.2	15.98	41.9	0.03	<1	0.7	24.1	<10	<2
120824	Soil			0.31	13.2	2.3	<0.05	0.6	4.48	19.1	0.03	<1	1.4	20.2	<10	<2
120825	Soil			0.62	15.5	1.5	<0.05	0.4	4.33	24.5	0.04	<1	0.8	33.5	<10	<2
120826	Soil			0.19	7.0	3.7	<0.05	3.6	20.61	34.6	0.03	<1	1.0	20.6	11	<2
120827	Soil			0.13	5.5	2.7	<0.05	2.5	19.91	43.4	0.05	<1	1.1	13.7	<10	<2
120828	Soil			0.18	8.5	5.0	<0.05	2.4	16.39	21.7	0.03	<1	1.7	42.9	<10	<2
120829	Soil			0.14	9.5	9.0	<0.05	2.8	4.52	8.7	<0.02	<1	1.3	35.5	<10	<2
120830	Soil			0.31	8.3	3.7	<0.05	3.0	10.69	24.6	0.03	<1	1.0	29.9	<10	<2
612446	Soil			0.31	8.2	3.3	<0.05	0.4	4.18	14.7	<0.02	<1	0.5	15.5	<10	<2
612447	Soil			0.35	10.8	1.0	<0.05	1.7	12.06	33.2	0.03	<1	1.2	21.8	<10	<2
612448	Soil			0.31	7.4	1.2	<0.05	2.8	22.27	40.3	0.02	<1	1.0	31.5	11	<2
612449	Soil			0.14	5.3	4.2	<0.05	2.1	32.00	33.3	0.04	2	1.9	24.2	<10	<2
612450	Soil			0.13	4.6	10.3	<0.05	2.1	25.43	32.6	0.04	1	1.4	22.3	<10	<2
612451	Soil			0.07	3.8	3.8	<0.05	3.0	12.43	20.7	0.04	<1	0.7	3.5	<10	<2
612452	Soil			0.08	3.8	2.0	<0.05	2.1	14.23	30.8	0.03	<1	1.2	5.2	<10	<2
612453	Soil			0.06	3.8	3.2	<0.05	2.4	12.69	29.0	0.04	<1	0.8	3.7	<10	<2
612454	Soil			0.03	2.1	2.5	<0.05	4.1	8.97	19.3	<0.02	<1	0.5	2.1	<10	<2
612455	Soil			0.08	3.7	2.7	<0.05	2.2	12.63	31.6	0.03	<1	0.7	7.5	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
612456	Soil	0.80	38.07	28.62	140.7	196	41.1	15.7	448	3.31	95.5	1.6	8.5	2.4	31.9	0.29	3.75	0.30	29	0.47	0.054
612457	Soil	0.94	33.18	26.87	123.2	98	34.5	13.5	431	3.01	39.5	1.6	3.3	2.3	49.4	0.21	1.41	0.28	18	1.11	0.122
612458	Soil	0.88	35.45	33.41	133.1	140	36.9	13.7	578	3.03	54.2	1.6	6.1	2.8	39.1	0.32	1.71	0.25	25	0.75	0.083
612459	Soil	0.66	23.73	19.54	85.3	85	23.6	9.8	269	2.81	28.8	1.4	3.5	2.2	51.9	0.18	1.10	0.27	22	0.92	0.113
612460	Soil	0.34	41.69	24.77	98.0	49	37.8	19.4	856	4.00	17.4	0.6	1.6	2.7	21.9	0.07	0.58	0.41	15	<0.01	0.034
612461	Soil	0.58	35.78	29.78	114.9	73	31.3	19.2	1506	3.64	12.4	0.6	1.5	2.0	17.5	0.36	0.55	0.38	21	0.03	0.058
612462	Soil	0.58	33.81	28.82	104.2	152	24.8	18.8	1620	3.84	8.8	0.5	1.6	0.3	20.0	0.15	0.46	0.40	24	0.01	0.085
612463	Soil	1.39	50.28	36.19	143.8	182	62.1	25.4	706	4.44	107.9	1.2	11.1	3.0	128.5	0.37	4.51	0.46	30	2.49	0.060
612464	Soil	0.79	33.86	20.80	110.5	131	25.9	12.1	487	2.96	10.9	2.5	2.6	3.8	51.7	0.23	1.30	0.24	23	1.03	0.181
612465	Soil	0.42	25.76	19.13	87.9	136	23.7	9.6	432	2.28	6.6	4.0	1.7	1.3	87.6	0.42	0.43	0.16	27	1.70	0.115
612466	Soil	0.88	22.57	17.46	91.3	316	20.9	8.7	430	2.35	19.2	5.2	2.8	1.7	205.6	0.34	0.56	0.20	41	2.08	0.105
612467	Soil	1.21	19.63	24.78	62.5	110	18.6	12.6	776	3.11	12.3	1.7	1.5	2.1	40.1	0.29	0.42	0.30	34	0.38	0.067
612468	Soil	1.09	26.91	21.67	119.3	170	24.1	9.2	343	2.81	24.9	5.7	2.7	1.3	88.4	0.58	0.62	0.28	29	1.31	0.086
612469	Soil	0.86	28.42	18.47	83.3	108	18.0	8.9	333	4.11	17.4	0.5	0.4	0.3	38.0	0.09	0.62	0.38	33	0.32	0.062
118351	Soil	0.55	25.94	61.04	357.4	114	25.4	10.1	1276	2.42	99.9	2.2	5.1	1.8	81.7	0.94	14.92	0.24	17	9.89	0.180
118352	Soil	0.42	17.41	39.00	190.7	78	29.0	13.3	904	1.94	57.4	1.1	3.1	1.7	59.5	0.40	3.33	0.17	11	7.35	0.095
118353	Soil	0.62	20.01	26.68	161.2	153	20.5	6.2	738	1.97	32.0	1.5	3.2	1.5	161.4	0.51	2.26	0.20	10	10.04	0.111
118354	Soil	0.59	32.89	40.62	155.9	184	44.7	17.9	388	3.31	20.0	1.1	0.8	5.0	121.2	0.12	0.82	0.41	9	1.83	0.065
118355	Soil	0.40	20.80	36.62	140.8	101	27.9	13.3	534	2.46	34.8	1.0	1.7	5.0	84.8	0.20	2.13	0.28	8	4.89	0.053
118356	Soil	0.88	35.88	58.31	122.0	297	42.2	17.3	558	4.38	9.4	0.9	<0.2	8.0	40.8	0.13	0.36	0.47	12	0.31	0.065
119811	Soil	0.62	37.14	26.40	82.6	39	30.9	14.1	397	3.28	8.7	0.8	1.0	4.1	15.6	0.13	0.50	0.34	23	0.06	0.045
119812	Soil	0.80	29.59	21.22	78.8	42	27.6	11.3	322	3.03	10.4	0.8	2.4	3.3	12.9	0.14	0.63	0.28	31	0.07	0.051
119813	Soil	0.86	29.14	18.61	84.4	91	29.6	10.9	402	3.24	10.6	1.2	1.9	3.2	26.3	0.16	0.58	0.28	35	0.23	0.072
119814	Soil	0.88	33.78	27.31	101.2	118	28.1	13.8	839	3.31	11.8	2.0	1.8	3.2	48.2	0.29	0.53	0.35	25	0.48	0.101
119815	Soil	0.84	36.70	27.04	93.5	120	34.9	15.4	262	3.28	15.2	1.1	2.2	4.4	53.4	0.19	0.59	0.35	21	0.59	0.046
119816	Soil	0.85	32.21	22.83	77.7	124	29.2	10.8	326	2.97	13.5	1.3	1.3	1.9	78.8	0.21	0.76	0.28	23	0.95	0.068
119817	Soil	1.87	36.94	29.51	66.7	207	22.9	10.8	264	2.35	22.3	0.8	8.2	1.6	158.8	0.38	1.62	0.24	9	4.78	0.086
119818	Soil	1.70	47.83	28.50	111.4	379	28.1	12.1	348	2.86	33.9	2.5	14.2	2.3	92.5	0.53	2.07	0.27	25	1.79	0.098
119819	Soil	1.34	38.88	27.87	94.1	374	27.5	13.1	309	2.40	62.0	2.4	10.9	5.1	103.1	0.34	1.99	0.22	13	3.23	0.078
119820	Soil	1.32	40.09	28.15	114.3	304	28.0	12.3	397	2.57	75.5	2.1	6.3	1.4	76.0	0.43	5.81	0.22	20	1.82	0.061



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
612456	Soil	18.2	36.3	0.23	77.7	0.003	2	0.47	0.005	0.06	<0.1	6.4	0.36	0.03	2537	1.4	0.02	1.4	0.84	<0.1	0.07
612457	Soil	13.4	23.9	0.28	87.8	0.002	1	0.57	0.007	0.06	<0.1	4.8	0.15	0.08	431	1.3	<0.02	1.6	0.56	<0.1	0.09
612458	Soil	22.4	36.3	0.30	153.7	0.002	3	0.44	0.004	0.07	<0.1	5.9	0.13	0.05	926	1.5	<0.02	1.4	0.79	<0.1	0.11
612459	Soil	11.5	23.1	0.21	117.8	0.002	1	0.63	0.004	0.06	<0.1	3.7	0.08	0.08	343	0.8	<0.02	1.9	0.57	<0.1	0.07
612460	Soil	6.8	18.6	0.47	48.1	0.002	1	1.14	0.001	0.07	<0.1	4.9	0.07	<0.02	43	<0.1	0.05	3.1	4.29	<0.1	0.02
612461	Soil	6.2	29.2	0.65	62.1	0.004	1	1.58	0.002	0.09	<0.1	3.1	0.10	0.03	61	0.2	0.05	4.9	5.28	<0.1	<0.02
612462	Soil	4.8	27.2	0.42	72.6	0.004	2	1.32	0.002	0.09	<0.1	1.0	0.10	0.05	56	0.3	0.07	5.0	7.02	<0.1	<0.02
612463	Soil	14.7	41.8	0.98	97.7	0.002	3	0.47	0.004	0.08	<0.1	8.4	0.41	0.03	745	1.2	0.04	1.4	2.51	<0.1	0.06
612464	Soil	22.5	34.2	0.99	576.0	0.005	4	1.33	0.004	0.09	<0.1	8.2	0.12	0.12	126	2.0	<0.02	3.7	4.10	<0.1	0.16
612465	Soil	23.8	45.6	1.02	240.2	0.004	2	1.29	0.004	0.07	<0.1	2.4	0.08	0.10	85	0.6	<0.02	4.3	1.85	<0.1	0.06
612466	Soil	22.2	39.4	1.14	159.6	0.006	5	1.48	0.004	0.12	<0.1	2.5	0.14	0.09	102	0.5	<0.02	4.7	1.30	<0.1	0.09
612467	Soil	10.2	24.4	0.39	199.5	0.003	2	1.59	0.003	0.09	<0.1	2.4	0.14	0.04	77	0.3	0.04	4.7	3.50	<0.1	0.03
612468	Soil	13.9	20.2	0.35	227.3	0.004	2	1.27	0.004	0.07	<0.1	2.8	0.10	0.07	86	0.5	0.02	3.4	1.19	<0.1	0.05
612469	Soil	4.1	18.3	0.18	63.3	0.003	<1	1.04	0.002	0.07	<0.1	1.0	0.08	0.03	65	0.2	0.08	5.0	3.02	<0.1	<0.02
118351	Soil	13.4	14.5	3.62	115.9	0.006	3	0.84	0.010	0.08	0.5	2.9	0.09	0.03	564	0.5	0.07	2.1	0.97	<0.1	0.08
118352	Soil	6.4	10.7	3.59	94.0	0.006	3	0.50	0.007	0.07	0.2	2.0	0.18	<0.02	477	0.3	<0.02	1.5	3.39	<0.1	0.05
118353	Soil	7.2	8.9	2.86	122.4	0.004	4	0.43	0.009	0.07	<0.1	1.9	0.17	0.03	292	0.8	<0.02	1.2	0.80	<0.1	0.07
118354	Soil	7.6	10.1	0.27	203.2	0.003	4	0.55	0.005	0.13	<0.1	4.1	0.22	0.09	381	0.6	0.04	1.5	3.55	<0.1	0.04
118355	Soil	6.9	8.0	1.56	135.2	0.003	3	0.47	0.005	0.11	<0.1	3.3	0.14	<0.02	378	0.3	<0.02	1.4	2.47	<0.1	0.06
118356	Soil	8.8	12.7	0.10	114.3	0.002	4	0.43	0.009	0.12	<0.1	5.8	0.23	0.07	133	0.1	0.03	0.9	2.36	<0.1	0.06
119811	Soil	8.7	17.2	0.25	94.5	0.008	<1	0.92	0.002	0.06	<0.1	3.2	0.08	<0.02	35	<0.1	0.04	2.7	3.15	<0.1	<0.02
119812	Soil	11.0	19.3	0.32	91.1	0.013	<1	1.14	0.003	0.05	<0.1	2.9	0.10	<0.02	29	0.2	0.05	3.1	2.13	<0.1	<0.02
119813	Soil	15.3	23.7	0.47	138.3	0.009	1	1.60	0.005	0.06	0.1	5.3	0.10	0.03	37	0.2	0.04	3.9	1.38	<0.1	0.03
119814	Soil	17.9	22.3	0.48	135.7	0.007	3	1.41	0.005	0.07	<0.1	6.2	0.10	0.05	83	0.3	0.05	3.8	1.05	<0.1	0.05
119815	Soil	14.0	17.1	0.42	108.3	0.007	2	1.05	0.006	0.06	<0.1	5.9	0.07	0.03	99	0.4	0.05	3.0	1.09	<0.1	0.07
119816	Soil	17.5	16.9	0.30	90.3	0.004	2	0.99	0.005	0.06	<0.1	3.6	0.07	0.05	73	0.3	0.04	2.6	0.67	<0.1	0.04
119817	Soil	7.0	8.2	0.82	59.8	0.001	3	0.32	0.006	0.08	<0.1	3.9	0.14	0.03	178	0.5	0.09	0.8	1.18	<0.1	0.03
119818	Soil	14.7	15.9	0.84	94.1	0.002	4	0.57	0.006	0.09	<0.1	4.0	0.16	0.03	241	1.0	0.02	1.8	0.35	<0.1	0.08
119819	Soil	21.0	12.9	1.49	69.1	0.002	3	0.41	0.008	0.09	<0.1	5.0	0.34	0.02	3513	1.3	<0.02	0.9	1.09	<0.1	0.06
119820	Soil	12.7	17.1	0.78	69.6	0.001	<1	0.41	0.006	0.06	<0.1	3.9	0.20	0.03	1546	1.1	0.02	1.1	0.25	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 7 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
612456	Soil			0.11	4.9	4.5	<0.05	2.5	20.75	34.3	0.04	<1	0.8	5.3	12	<2
612457	Soil			0.13	5.0	5.6	<0.05	2.6	18.50	29.1	0.03	<1	0.8	5.3	<10	<2
612458	Soil			0.09	4.7	8.7	<0.05	3.1	20.46	43.7	0.04	<1	1.1	6.0	<10	<2
612459	Soil			0.24	5.8	1.7	<0.05	2.1	11.22	24.0	0.04	<1	0.7	5.6	<10	<2
612460	Soil			0.09	7.2	1.8	<0.05	0.8	4.82	15.4	0.04	<1	1.2	36.1	<10	<2
612461	Soil			0.21	11.8	4.4	<0.05	0.6	4.04	14.7	0.04	<1	0.9	48.3	<10	<2
612462	Soil			0.15	11.7	3.9	<0.05	0.3	2.20	9.8	0.02	<1	0.7	30.5	<10	<2
612463	Soil			0.08	5.7	4.2	<0.05	2.5	19.64	27.6	0.05	<1	0.9	5.8	11	<2
612464	Soil			0.26	8.1	2.5	<0.05	4.4	27.73	42.2	0.04	<1	1.4	28.4	<10	<2
612465	Soil			0.27	7.7	1.7	<0.05	2.0	14.74	40.4	0.03	<1	0.9	33.4	<10	<2
612466	Soil			0.40	10.9	0.8	<0.05	2.5	10.81	42.0	0.04	<1	1.3	47.0	<10	<2
612467	Soil			0.43	15.2	5.6	<0.05	1.3	4.34	26.0	0.02	<1	1.0	35.4	<10	<2
612468	Soil			0.43	8.4	2.2	<0.05	1.7	10.58	27.7	0.04	<1	1.1	17.6	<10	<2
612469	Soil			0.27	10.4	2.4	<0.05	0.1	2.22	8.4	0.03	<1	0.6	12.1	<10	<2
118351	Soil			0.29	5.6	2.1	<0.05	2.5	17.74	26.2	0.02	<1	0.8	8.0	27	<2
118352	Soil			0.21	5.4	4.2	<0.05	1.5	9.96	17.9	<0.02	<1	0.6	6.6	12	<2
118353	Soil			0.11	4.2	3.2	<0.05	1.8	9.08	17.4	<0.02	<1	0.3	4.0	11	<2
118354	Soil			0.11	10.5	4.9	<0.05	2.2	11.88	21.8	0.03	<1	1.0	11.7	<10	<2
118355	Soil			0.09	8.3	3.5	<0.05	4.0	8.95	20.8	<0.02	<1	0.7	8.7	10	<2
118356	Soil			0.05	7.5	12.9	<0.05	6.1	17.44	27.1	0.03	2	0.9	6.5	<10	<2
119811	Soil			0.15	6.4	0.9	<0.05	1.3	8.01	20.9	0.02	<1	1.0	22.7	<10	<2
119812	Soil			0.22	7.4	0.7	<0.05	0.7	7.69	24.7	0.02	<1	0.8	20.6	<10	<2
119813	Soil			0.37	9.5	1.3	<0.05	1.4	17.82	36.0	0.04	<1	1.1	29.5	<10	<2
119814	Soil			0.22	8.9	2.5	<0.05	1.8	27.40	47.2	0.05	1	1.5	38.7	<10	<2
119815	Soil			0.30	5.8	1.7	<0.05	2.4	18.65	25.6	0.03	<1	1.0	27.1	<10	<2
119816	Soil			0.27	5.5	2.3	<0.05	1.3	17.97	32.7	0.03	<1	1.0	17.7	<10	<2
119817	Soil			0.07	4.2	16.9	<0.05	1.1	11.41	19.0	<0.02	<1	0.7	4.2	<10	<2
119818	Soil			0.09	4.6	5.8	<0.05	2.7	17.38	30.5	0.03	<1	1.3	5.5	<10	<2
119819	Soil			0.11	4.9	10.0	<0.05	3.4	13.23	42.3	<0.02	<1	0.8	5.5	<10	3
119820	Soil			0.07	2.9	7.9	<0.05	1.9	13.83	25.5	0.02	<1	0.9	5.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
119821	Soil			0.75	32.61	30.69	103.0	125	31.5	13.0	389	2.44	66.1	1.6	7.0	3.0	78.5	0.24	2.59	0.26	19	2.74	0.087
119822	Soil			0.75	39.15	27.08	120.3	151	37.2	14.0	324	3.09	44.6	1.3	6.8	4.3	38.4	0.23	1.58	0.27	24	1.17	0.070
119823	Soil			0.71	32.75	24.20	126.7	128	35.0	12.6	344	2.96	40.0	1.7	3.8	2.5	33.7	0.33	2.14	0.26	23	0.81	0.067
119824	Soil			0.81	34.87	25.95	98.3	108	35.5	13.2	394	3.15	21.6	1.5	4.5	3.5	38.5	0.21	1.07	0.29	27	0.77	0.101
119825	Soil			0.77	42.45	23.52	108.4	79	47.6	18.6	948	3.26	70.7	1.1	4.6	1.7	62.0	0.21	3.15	0.37	19	1.51	0.089
119826	Soil			0.40	42.49	33.74	107.8	46	56.3	17.6	565	3.60	6.2	0.7	2.4	4.3	39.7	0.15	0.39	0.45	15	0.36	0.045
119827	Soil			0.57	38.16	40.55	119.1	62	34.3	23.3	1561	3.72	12.9	0.5	1.6	2.3	20.7	0.30	0.41	0.41	20	0.15	0.068
119828	Soil			0.65	41.62	39.95	152.9	59	43.2	20.6	1708	4.03	9.7	0.5	1.1	2.2	24.0	0.41	0.58	0.37	21	0.13	0.095
119829	Soil			0.69	40.69	41.73	142.4	31	39.9	31.4	2941	3.84	30.7	0.5	1.7	1.7	18.2	0.34	0.54	0.35	24	0.05	0.042
119830	Soil			0.62	30.64	18.84	120.8	92	30.7	12.3	548	3.54	12.2	0.9	2.2	2.8	50.4	0.21	0.93	0.25	25	0.61	0.092
119831	Soil			0.88	24.15	24.33	76.2	32	17.8	9.2	306	3.42	14.7	0.6	0.9	1.6	15.7	0.21	0.50	0.32	30	0.19	0.046
119832	Soil			0.86	26.02	21.78	69.1	13	21.8	11.1	241	3.44	16.4	0.5	0.9	2.6	10.2	0.06	0.57	0.35	31	0.04	0.019
119833	Soil			0.74	25.47	25.57	100.0	78	28.2	15.0	538	3.52	20.5	2.8	1.3	2.4	44.7	0.56	0.58	0.29	25	0.58	0.049
119834	Soil			1.00	26.88	19.94	90.0	255	23.7	10.7	406	2.72	9.2	1.2	4.6	2.9	42.7	0.29	0.49	0.21	19	0.83	0.050
119835	Soil			0.96	27.67	21.63	71.4	81	22.8	9.8	429	2.92	13.5	1.8	1.8	1.4	58.8	0.12	0.49	0.33	24	0.66	0.082
119836	Soil			0.92	39.97	26.05	93.0	162	32.3	13.4	400	3.33	22.9	1.5	2.7	3.0	59.4	0.16	0.84	0.33	19	0.84	0.053
119837	Soil			1.10	32.78	29.57	86.2	112	24.9	11.6	398	3.61	28.1	0.9	1.5	2.4	14.5	0.12	0.88	0.33	25	0.06	0.049
119838	Soil			1.00	22.25	27.83	66.4	96	14.8	9.1	537	3.83	13.3	0.5	0.9	1.9	7.9	0.10	0.48	0.36	32	0.02	0.046
119839	Soil			1.05	21.84	20.74	71.0	74	18.2	7.5	282	2.78	13.4	0.7	1.2	1.3	33.8	0.10	0.55	0.31	31	0.37	0.048
119840	Soil			0.84	34.05	41.76	92.3	185	35.1	18.9	933	3.86	23.4	1.2	2.2	4.1	42.3	0.13	0.64	0.32	24	0.43	0.048
119841	Soil			0.99	47.94	76.15	118.0	125	35.0	31.9	1945	4.29	26.0	0.7	0.7	2.4	25.7	0.11	0.70	0.41	26	0.21	0.051
119842	Soil			0.73	29.01	33.41	98.9	85	28.4	14.4	412	3.30	15.6	1.3	2.2	2.6	42.0	0.16	0.65	0.29	23	0.19	0.054
119843	Soil			1.11	33.97	54.29	109.4	84	36.3	21.7	800	4.21	18.3	0.9	1.9	2.8	42.4	0.11	0.76	0.31	23	0.10	0.043
119962	Soil			0.57	31.62	37.22	92.0	183	35.5	17.0	340	3.11	7.0	0.7	0.5	6.1	140.1	0.09	0.28	0.32	9	2.67	0.043
119963	Soil			0.61	34.57	38.29	131.7	255	45.3	20.0	515	3.63	13.4	0.7	0.7	6.2	103.7	0.12	0.45	0.37	11	1.57	0.051
119964	Soil			0.43	14.51	33.86	304.3	99	14.0	6.2	1813	2.79	59.2	2.2	17.8	0.7	55.4	0.83	3.25	0.12	12	10.30	0.163
119965	Soil			0.42	7.21	35.03	251.4	61	8.0	2.8	529	0.87	14.6	1.2	3.3	0.8	66.7	1.03	1.72	0.05	5	14.92	0.061
119966	Soil			0.98	23.98	85.63	311.5	174	38.2	14.8	676	2.84	22.4	2.8	2.9	1.6	62.2	0.38	1.82	0.27	13	6.15	0.159
119967	Soil			0.81	33.24	45.52	256.4	223	41.7	16.1	426	3.19	20.3	1.2	2.0	6.1	74.1	0.26	0.88	0.42	11	1.25	0.065
119968	Soil			1.45	37.71	67.66	211.9	276	47.5	16.7	730	3.81	21.1	1.3	3.6	4.9	87.2	0.24	1.07	0.38	13	1.22	0.098



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
119821	Soil	20.2	27.3	1.46	104.6	0.003	4	0.59	0.006	0.06	<0.1	4.6	0.26	0.05	2294	1.4	0.06	1.9	1.04	<0.1	0.09
119822	Soil	21.5	31.0	0.68	174.2	0.003	3	0.58	0.005	0.07	<0.1	5.9	0.14	0.03	301	1.1	0.05	1.7	1.71	<0.1	0.11
119823	Soil	19.7	32.2	0.20	102.3	0.003	3	0.49	0.006	0.07	<0.1	5.1	0.12	0.06	420	1.3	0.04	1.5	0.47	<0.1	0.07
119824	Soil	22.2	43.4	0.54	146.4	0.004	4	1.02	0.005	0.08	<0.1	5.6	0.16	0.06	202	1.2	0.04	3.3	2.02	<0.1	0.08
119825	Soil	9.4	27.0	0.51	71.9	0.003	6	0.41	0.005	0.09	<0.1	6.4	0.18	0.06	867	1.3	0.05	1.3	1.39	<0.1	0.06
119826	Soil	8.9	30.8	0.77	59.2	0.003	2	1.07	0.001	0.07	<0.1	5.6	0.07	0.03	64	0.3	0.05	3.2	2.45	<0.1	0.11
119827	Soil	5.7	28.9	0.80	64.4	0.004	3	1.77	0.001	0.08	<0.1	3.4	0.09	0.05	60	0.3	0.05	5.0	9.44	<0.1	0.03
119828	Soil	5.4	42.7	1.11	77.8	0.004	1	2.21	<0.001	0.08	<0.1	2.9	0.10	0.05	58	0.3	0.05	5.9	8.30	<0.1	0.07
119829	Soil	4.6	18.8	0.09	96.3	0.002	2	0.61	0.002	0.08	<0.1	3.8	0.16	0.02	122	0.3	0.05	2.5	3.41	<0.1	<0.02
119830	Soil	24.6	34.8	0.57	134.0	0.004	2	0.95	0.003	0.10	<0.1	4.8	0.11	0.05	362	1.1	0.03	3.1	1.58	<0.1	0.03
119831	Soil	5.2	20.1	0.29	135.5	0.003	2	1.22	0.002	0.07	<0.1	2.1	0.09	0.04	93	0.3	0.05	4.4	2.24	<0.1	0.02
119832	Soil	7.2	19.3	0.26	60.3	0.002	2	1.26	<0.001	0.07	<0.1	2.6	0.09	<0.02	311	0.4	0.05	4.3	2.00	<0.1	0.02
119833	Soil	14.7	23.3	0.35	84.4	0.004	3	1.37	0.002	0.08	<0.1	3.2	0.10	0.03	175	0.4	0.04	3.5	3.12	<0.1	0.04
119834	Soil	24.0	16.8	0.36	115.3	0.004	4	0.62	0.004	0.08	<0.1	4.3	0.11	0.03	172	1.0	0.05	1.9	0.62	<0.1	0.03
119835	Soil	8.7	22.1	0.33	110.1	0.003	3	1.20	0.004	0.08	<0.1	3.0	0.11	0.06	113	0.5	0.06	3.6	2.06	<0.1	0.06
119836	Soil	10.6	20.3	0.33	83.6	0.003	3	0.86	0.002	0.06	<0.1	5.8	0.10	0.04	468	0.5	0.05	2.3	2.04	<0.1	0.09
119837	Soil	8.0	23.0	0.31	67.3	0.003	2	1.20	0.002	0.10	<0.1	2.9	0.11	0.03	351	0.3	0.05	3.7	2.75	<0.1	<0.02
119838	Soil	6.3	23.2	0.20	45.6	0.004	2	1.45	0.001	0.07	<0.1	1.7	0.10	0.03	55	0.4	0.07	5.4	5.73	<0.1	0.03
119839	Soil	7.5	23.0	0.32	73.7	0.007	1	1.11	0.003	0.07	<0.1	1.8	0.10	0.03	121	0.3	0.05	4.6	3.04	<0.1	<0.02
119840	Soil	13.0	25.2	0.41	139.9	0.004	2	1.70	0.002	0.10	<0.1	6.3	0.14	0.04	117	0.5	0.06	4.0	5.32	<0.1	0.08
119841	Soil	6.4	29.5	0.48	75.7	0.004	2	1.90	0.002	0.09	<0.1	4.4	0.15	0.03	80	0.3	0.07	4.7	10.88	<0.1	0.03
119842	Soil	8.5	27.2	0.44	56.2	0.003	3	1.44	0.003	0.08	<0.1	3.8	0.09	0.05	230	0.3	0.05	3.6	2.35	<0.1	0.05
119843	Soil	5.8	28.4	0.44	54.4	0.003	3	1.55	0.003	0.08	<0.1	3.3	0.11	0.03	179	0.3	0.05	3.5	7.00	<0.1	0.03
119962	Soil	3.4	10.0	0.17	114.1	0.001	3	0.50	0.006	0.11	<0.1	4.1	0.16	0.13	121	0.4	<0.02	1.4	3.46	<0.1	0.10
119963	Soil	5.9	12.4	0.29	130.0	0.002	3	0.79	0.004	0.12	<0.1	5.3	0.23	0.04	222	0.4	0.03	1.9	4.86	<0.1	0.05
119964	Soil	8.1	8.3	4.69	65.7	0.005	3	0.41	0.009	0.05	<0.1	1.1	0.17	0.03	680	0.5	0.09	1.3	0.67	<0.1	0.06
119965	Soil	4.6	5.1	7.17	19.4	0.003	3	0.14	0.011	0.03	<0.1	0.8	0.05	<0.02	686	0.3	0.03	0.4	0.32	<0.1	0.04
119966	Soil	13.5	13.1	2.95	421.2	0.005	5	0.60	0.016	0.15	<0.1	2.0	0.23	0.20	384	0.6	0.06	1.3	4.44	<0.1	0.08
119967	Soil	10.4	11.8	0.29	159.9	0.003	4	0.67	0.005	0.15	<0.1	4.8	0.24	0.04	348	0.7	0.04	1.9	2.83	<0.1	0.06
119968	Soil	13.5	20.3	0.27	182.4	0.004	5	0.78	0.007	0.13	<0.1	4.8	0.26	0.07	330	0.7	0.03	1.9	2.70	<0.1	0.07



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
119821	Soil	0.12	4.5	12.9	<0.05	2.8	14.81	38.5	<0.02	<1	0.8	11.4	<10	<2
119822	Soil	0.08	5.0	6.1	<0.05	3.3	16.76	40.0	0.03	<1	0.8	6.8	17	<2
119823	Soil	0.11	4.6	2.6	<0.05	2.7	19.23	34.7	0.03	<1	0.6	4.9	<10	<2
119824	Soil	0.21	8.2	4.7	<0.05	2.4	16.38	42.3	0.04	<1	0.9	18.2	13	<2
119825	Soil	0.10	5.6	2.5	<0.05	2.0	18.86	21.9	0.04	<1	0.7	2.9	<10	<2
119826	Soil	0.12	4.3	6.6	<0.05	3.2	11.51	19.2	0.02	<1	0.9	33.4	<10	<2
119827	Soil	0.17	10.7	3.8	<0.05	1.0	3.61	13.7	0.04	<1	1.5	50.3	<10	<2
119828	Soil	0.24	10.8	5.0	<0.05	1.9	3.60	13.0	0.03	<1	1.6	67.5	12	3
119829	Soil	0.09	9.0	2.4	<0.05	0.2	3.29	10.4	0.03	<1	0.5	6.1	<10	<2
119830	Soil	0.17	7.6	2.6	<0.05	1.0	14.90	44.2	0.03	<1	1.2	14.1	11	<2
119831	Soil	0.34	9.5	3.5	<0.05	0.5	2.36	10.2	0.04	<1	0.4	27.6	<10	<2
119832	Soil	0.18	8.8	1.7	<0.05	0.8	2.72	13.7	0.03	<1	0.6	27.2	<10	<2
119833	Soil	0.30	9.4	1.3	<0.05	1.7	7.21	31.2	0.03	<1	0.7	29.1	<10	<2
119834	Soil	0.17	5.5	2.2	<0.05	1.3	11.62	42.8	<0.02	<1	0.4	8.7	<10	<2
119835	Soil	0.24	10.8	5.5	<0.05	1.5	7.47	17.9	<0.02	<1	0.8	21.0	<10	<2
119836	Soil	0.18	6.1	2.2	<0.05	3.0	13.51	20.8	0.03	<1	0.8	14.6	<10	3
119837	Soil	0.21	9.2	1.8	<0.05	0.7	4.93	23.7	0.03	<1	0.8	20.4	<10	<2
119838	Soil	0.43	11.0	3.4	<0.05	1.1	1.88	11.8	0.02	<1	0.5	20.6	<10	<2
119839	Soil	0.43	11.5	4.3	<0.05	0.4	3.09	14.4	<0.02	<1	0.5	19.7	<10	<2
119840	Soil	0.23	10.4	3.5	<0.05	2.8	17.53	32.0	0.04	<1	1.0	32.2	<10	<2
119841	Soil	0.19	11.4	4.7	<0.05	1.4	6.81	16.7	0.05	<1	1.6	45.1	<10	<2
119842	Soil	0.25	8.0	5.1	<0.05	1.7	9.82	19.4	0.03	1	0.8	27.1	<10	<2
119843	Soil	0.18	8.6	7.6	<0.05	1.5	5.88	14.0	0.02	<1	1.4	39.1	<10	<2
119962	Soil	<0.02	7.9	4.7	<0.05	5.7	10.04	11.9	0.03	<1	0.6	13.5	<10	<2
119963	Soil	0.04	9.6	2.1	<0.05	3.2	13.39	20.0	0.05	1	0.9	17.8	<10	<2
119964	Soil	0.09	3.2	1.7	<0.05	1.7	9.97	14.2	<0.02	<1	0.5	3.6	30	<2
119965	Soil	0.04	1.5	10.1	<0.05	0.8	5.39	7.8	<0.02	<1	<0.1	1.3	17	<2
119966	Soil	0.11	6.4	8.1	<0.05	2.6	16.57	34.0	0.03	2	0.6	4.1	30	<2
119967	Soil	0.12	11.1	3.1	<0.05	3.4	12.56	25.5	0.03	1	1.0	8.1	<10	<2
119968	Soil	0.14	9.6	18.2	<0.05	2.7	18.64	32.7	<0.02	<1	0.7	9.1	17	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
119969	Soil			0.76	33.56	45.80	138.3	270	43.2	15.1	347	3.85	12.2	0.9	1.3	3.2	92.7	0.15	0.56	0.34	9	1.02	0.080
119970	Soil			0.78	31.94	47.66	135.7	259	39.6	14.6	328	3.50	8.7	0.8	1.2	3.2	135.8	0.14	0.46	0.38	10	2.04	0.058
119971	Soil			0.97	33.89	49.49	114.8	260	35.7	13.1	361	3.78	6.9	0.8	1.7	3.0	128.7	0.12	0.37	0.39	12	2.07	0.075
119972	Soil			0.63	35.34	49.79	105.7	283	31.3	11.2	342	3.83	6.7	0.9	1.5	2.7	75.5	0.10	0.38	0.44	12	0.82	0.063
119973	Soil			0.65	28.97	40.51	103.0	232	28.8	9.8	278	3.79	5.7	0.8	1.0	2.4	41.1	0.09	0.33	0.41	13	0.36	0.065
119974	Soil			1.57	35.94	71.27	109.1	111	32.6	15.5	513	4.47	8.3	0.6	2.1	2.7	19.1	0.10	0.46	0.40	14	0.05	0.060
119975	Soil			1.39	31.27	71.00	105.0	118	31.9	16.2	612	3.61	10.0	0.8	4.8	1.8	27.9	0.21	0.50	0.45	14	0.19	0.061
119976	Soil			0.97	32.53	46.44	99.1	296	33.8	11.7	279	3.67	12.3	1.1	1.8	1.8	51.4	0.15	0.43	0.48	16	0.60	0.087
119977	Soil			1.21	33.21	46.32	121.5	106	34.7	18.7	646	4.33	12.3	0.8	1.4	1.3	18.4	0.20	0.70	0.40	27	0.21	0.071
119978	Soil			0.82	39.44	28.42	98.7	294	31.9	15.3	637	4.32	10.4	1.4	1.6	3.2	42.9	0.19	0.50	0.35	19	0.72	0.090
119979	Soil			1.17	24.48	26.87	69.1	62	18.9	9.1	333	3.10	7.2	0.8	1.0	1.1	38.4	0.07	0.46	0.36	31	0.39	0.106
119980	Soil			0.98	26.37	25.45	87.6	75	25.4	10.8	455	3.11	10.0	0.9	2.1	1.6	69.8	0.19	0.60	0.34	27	0.72	0.105
119996	Soil			0.64	27.69	29.73	105.6	219	35.3	12.8	458	3.19	11.3	0.9	0.8	2.6	62.2	0.13	0.40	0.31	12	0.84	0.064
119997	Soil			0.80	31.93	42.52	109.6	272	47.1	23.5	533	3.51	8.8	0.7	0.3	5.3	63.5	0.13	0.25	0.40	11	0.46	0.037
119998	Soil			1.02	49.43	52.77	123.5	288	49.9	21.6	603	4.79	9.6	0.6	0.3	6.2	30.8	0.11	0.36	0.47	15	0.34	0.047
119999	Soil			0.68	30.81	53.45	299.1	127	30.9	13.1	475	2.92	82.2	1.8	6.4	3.0	78.1	0.40	5.59	0.33	15	7.11	0.160
120000	Soil			0.77	33.36	75.53	290.8	198	34.4	15.7	443	2.87	44.5	2.7	7.9	2.5	80.6	0.41	3.36	0.38	13	5.67	0.211
120901	Soil			0.94	31.55	37.86	115.0	82	31.1	21.6	2914	4.02	8.4	0.6	1.3	0.4	11.5	0.39	0.65	0.37	31	0.15	0.075
120902	Soil			0.69	31.06	19.94	97.7	59	28.5	14.0	508	4.17	15.2	0.4	1.2	1.3	14.9	0.15	0.49	0.41	26	0.09	0.044
120903	Soil			1.09	23.61	26.56	79.0	58	17.1	11.8	986	3.50	11.9	0.5	0.8	0.1	13.3	0.13	0.57	0.36	32	0.17	0.081
120904	Soil			0.99	32.19	22.76	95.0	57	22.8	13.7	679	3.77	14.6	0.7	1.2	1.0	7.9	0.19	0.59	0.35	30	0.06	0.103
120905	Soil			0.97	26.03	40.62	124.0	91	26.1	23.5	1294	4.76	18.6	1.1	1.4	2.7	11.2	0.37	0.48	0.36	26	0.08	0.088
120906	Soil			0.82	25.76	20.21	93.3	72	23.2	12.4	622	3.26	11.4	1.8	0.8	1.9	49.3	0.21	0.43	0.34	37	0.68	0.093
120907	Soil			0.36	25.48	12.90	64.7	99	19.3	8.1	215	1.65	17.7	2.4	3.3	5.4	180.6	0.35	0.71	0.14	12	9.92	0.059
120908	Soil			1.54	31.71	17.83	61.8	165	22.4	9.8	279	1.98	24.4	2.8	4.7	4.6	292.4	0.35	1.21	0.21	12	11.31	0.064
120909	Soil			0.56	41.49	24.98	77.8	193	22.8	11.7	508	2.66	14.8	4.4	2.4	1.1	91.4	0.19	0.58	0.30	18	1.35	0.084
120910	Soil			1.05	37.22	37.17	112.8	130	32.1	19.8	747	4.20	25.8	0.9	1.9	1.9	24.5	0.15	1.53	0.39	24	0.19	0.083
120911	Soil			0.89	28.65	26.39	77.7	429	13.8	9.0	612	3.42	13.2	0.6	1.0	0.7	11.2	0.24	0.54	0.32	30	0.09	0.086
120912	Soil			1.14	55.28	59.61	144.4	335	56.7	30.1	638	4.97	38.4	1.0	1.8	2.1	114.7	0.12	0.76	0.40	16	1.67	0.056
120913	Soil			0.75	41.14	49.72	132.5	207	42.7	24.4	750	4.28	25.7	1.3	1.0	2.4	50.6	0.10	0.53	0.38	19	0.61	0.063



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
119969	Soil	10.2	12.1	0.15	143.6	0.002	3	0.69	0.007	0.09	<0.1	4.5	0.17	0.07	138	0.7	0.06	1.5	2.51	<0.1	0.08
119970	Soil	6.7	12.9	0.21	155.7	0.001	5	0.70	0.008	0.09	<0.1	4.3	0.18	0.10	137	0.8	0.02	1.6	2.02	<0.1	0.08
119971	Soil	7.2	16.2	0.25	107.1	0.001	4	0.76	0.009	0.08	<0.1	5.1	0.16	0.10	76	0.6	0.05	1.7	2.29	<0.1	0.08
119972	Soil	4.6	13.5	0.16	109.3	0.001	3	0.79	0.007	0.08	<0.1	4.6	0.15	0.09	112	0.5	0.05	1.8	2.38	<0.1	0.11
119973	Soil	3.1	14.0	0.17	99.4	0.002	2	0.93	0.005	0.09	<0.1	4.6	0.12	0.06	48	0.5	0.07	2.2	2.85	<0.1	0.08
119974	Soil	3.4	23.0	0.16	98.6	0.004	3	0.93	0.017	0.09	<0.1	3.6	0.24	0.08	35	0.3	<0.02	2.5	5.36	<0.1	0.04
119975	Soil	4.1	24.3	0.24	97.9	0.004	5	1.06	0.008	0.09	<0.1	3.7	0.15	0.10	18	0.4	0.07	2.8	3.73	<0.1	<0.02
119976	Soil	5.3	20.2	0.22	151.7	0.002	2	1.20	0.006	0.07	<0.1	4.1	0.14	0.06	42	0.5	0.07	2.8	3.93	<0.1	0.07
119977	Soil	5.5	23.5	0.31	70.0	0.007	3	1.18	0.003	0.06	<0.1	3.0	0.11	0.03	32	0.2	0.06	3.2	4.16	<0.1	<0.02
119978	Soil	7.8	17.1	0.23	110.6	0.002	2	0.85	0.003	0.06	<0.1	7.5	0.09	0.05	80	0.6	0.08	2.2	2.37	<0.1	0.09
119979	Soil	5.4	21.6	0.26	155.5	0.005	1	1.30	0.005	0.06	<0.1	2.4	0.16	0.06	31	0.3	0.07	4.7	5.46	<0.1	0.04
119980	Soil	8.1	20.2	0.24	156.6	0.004	2	1.11	0.004	0.05	<0.1	3.2	0.12	0.08	40	0.5	0.05	3.3	2.41	<0.1	0.07
119996	Soil	10.4	9.5	0.09	143.1	0.002	2	0.65	0.004	0.06	<0.1	4.0	0.21	0.04	382	0.5	0.05	1.5	1.54	<0.1	0.05
119997	Soil	3.8	13.9	0.18	144.5	0.002	2	0.93	0.015	0.11	<0.1	4.5	0.23	0.17	259	0.4	0.04	2.1	4.16	<0.1	0.08
119998	Soil	4.1	19.6	0.34	106.8	0.002	3	1.01	0.005	0.09	<0.1	7.6	0.16	0.06	161	0.5	0.05	2.7	6.06	<0.1	0.09
119999	Soil	9.6	11.2	2.77	69.0	0.005	3	0.65	0.007	0.08	0.1	3.4	0.13	<0.02	363	0.6	0.09	1.8	1.71	<0.1	0.07
120000	Soil	10.5	11.2	2.70	74.3	0.003	4	0.64	0.008	0.11	0.1	3.7	0.12	0.05	455	0.5	0.11	1.7	2.23	<0.1	0.10
120901	Soil	6.7	35.2	0.70	96.5	0.007	2	1.90	0.002	0.08	<0.1	2.0	0.10	0.04	47	0.4	0.05	6.4	14.80	<0.1	<0.02
120902	Soil	4.2	25.6	0.35	59.3	0.003	2	1.12	0.002	0.07	<0.1	2.6	0.07	0.03	60	0.2	0.06	4.1	3.50	<0.1	<0.02
120903	Soil	5.7	19.6	0.15	76.0	0.003	2	0.94	0.002	0.07	<0.1	0.6	0.09	0.05	59	0.3	0.10	4.6	4.17	<0.1	<0.02
120904	Soil	11.1	28.2	0.35	89.5	0.003	3	1.37	0.001	0.07	<0.1	1.3	0.11	0.05	168	0.7	0.06	4.7	2.27	<0.1	<0.02
120905	Soil	6.1	26.5	0.31	59.6	0.006	2	1.88	0.001	0.06	<0.1	3.2	0.09	0.04	432	0.5	0.07	3.8	5.29	<0.1	0.02
120906	Soil	13.1	42.0	0.62	265.7	0.005	2	1.63	0.003	0.08	<0.1	3.9	0.12	0.05	54	0.5	0.06	6.1	3.26	<0.1	0.06
120907	Soil	17.8	14.1	1.95	39.4	0.002	2	0.35	0.004	0.06	<0.1	3.8	0.07	<0.02	224	0.8	0.03	1.2	1.40	<0.1	0.05
120908	Soil	13.4	11.8	2.28	39.3	0.002	3	0.37	0.005	0.06	<0.1	3.8	0.10	<0.02	317	1.0	0.05	1.2	1.15	<0.1	0.06
120909	Soil	9.2	21.8	0.35	126.4	0.002	2	1.14	0.004	0.08	<0.1	4.1	0.13	0.09	328	0.9	0.06	3.3	6.45	<0.1	0.04
120910	Soil	7.5	26.3	0.42	65.9	0.005	3	1.21	0.002	0.11	<0.1	3.3	0.10	0.03	199	0.3	0.14	3.9	7.98	<0.1	0.02
120911	Soil	5.8	22.0	0.18	43.9	0.004	2	1.19	0.003	0.08	<0.1	1.2	0.11	0.06	131	0.3	0.10	5.4	6.07	<0.1	<0.02
120912	Soil	6.7	19.4	0.35	89.9	0.002	2	1.26	0.005	0.06	<0.1	8.8	0.15	0.08	171	0.9	0.10	3.1	5.51	<0.1	0.10
120913	Soil	7.0	24.6	0.40	78.7	0.002	3	1.49	0.003	0.07	<0.1	8.2	0.10	0.05	184	0.6	0.10	4.0	7.46	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 24, 2011

Page: 9 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
119969	Soil			0.10	7.4	4.8	<0.05	2.8	21.14	22.5	0.04	<1	1.0	9.6	<10	<2
119970	Soil			0.08	6.5	8.6	<0.05	2.6	15.75	16.0	0.04	2	1.0	14.8	16	<2
119971	Soil			0.07	6.5	8.0	<0.05	3.0	17.26	19.1	0.03	2	1.2	20.4	12	<2
119972	Soil			0.06	7.2	4.5	<0.05	4.0	14.21	10.1	0.05	2	1.0	17.7	<10	<2
119973	Soil			0.10	7.5	3.1	<0.05	2.4	11.48	7.4	0.05	<1	0.8	19.7	<10	<2
119974	Soil			0.11	10.2	14.5	<0.05	1.0	4.31	7.2	0.03	3	0.6	19.0	<10	5
119975	Soil			0.14	9.9	24.6	<0.05	0.8	7.67	12.0	<0.02	<1	0.6	28.5	<10	<2
119976	Soil			0.19	10.3	6.6	<0.05	2.4	13.17	10.8	0.06	<1	1.2	28.3	<10	<2
119977	Soil			0.30	8.6	5.1	<0.05	0.6	7.85	18.4	0.04	<1	0.9	29.7	<10	<2
119978	Soil			0.17	6.5	1.7	<0.05	3.2	23.19	17.9	0.05	<1	1.2	16.8	<10	<2
119979	Soil			0.38	14.3	2.1	<0.05	1.3	7.20	11.8	0.04	<1	0.9	20.6	<10	<2
119980	Soil			0.38	10.1	1.9	<0.05	1.8	9.35	20.3	0.04	1	1.0	12.4	<10	<2
119996	Soil			0.16	7.7	1.4	<0.05	1.9	17.42	30.5	0.03	<1	0.8	7.1	<10	<2
119997	Soil			0.04	9.1	5.0	<0.05	4.4	11.66	15.1	0.04	2	0.8	18.5	<10	<2
119998	Soil			0.04	8.1	7.7	<0.05	5.6	16.40	15.3	0.04	<1	1.1	33.7	<10	<2
119999	Soil			0.16	4.9	0.9	<0.05	2.4	13.78	18.6	0.03	1	1.0	7.5	23	<2
120000	Soil			0.13	5.6	2.7	<0.05	2.8	16.72	19.8	0.03	<1	0.7	5.7	20	<2
120901	Soil			0.24	12.6	3.6	<0.05	0.3	4.91	18.0	0.03	<1	1.1	39.6	<10	<2
120902	Soil			0.32	8.3	2.3	<0.05	0.4	3.21	9.2	0.03	<1	0.5	20.9	<10	<2
120903	Soil			0.20	12.6	5.5	<0.05	<0.1	3.49	11.6	<0.02	<1	0.8	8.6	<10	<2
120904	Soil			0.24	14.2	1.4	<0.05	0.8	3.48	23.8	0.04	<1	0.8	19.2	<10	<2
120905	Soil			0.55	10.0	4.5	<0.05	1.4	4.64	21.2	0.04	<1	1.4	25.6	<10	<2
120906	Soil			0.36	13.6	2.0	<0.05	1.5	8.78	28.6	0.03	<1	0.6	30.3	<10	<2
120907	Soil			0.08	3.9	0.5	<0.05	3.9	9.48	34.3	0.03	<1	0.3	8.4	<10	<2
120908	Soil			0.06	3.8	0.9	<0.05	4.2	9.35	27.2	0.02	<1	0.4	8.9	<10	<2
120909	Soil			0.25	10.8	3.0	<0.05	1.6	14.58	16.7	0.04	1	0.8	21.2	<10	<2
120910	Soil			0.22	13.3	5.8	<0.05	0.7	5.74	18.8	0.04	1	1.5	28.2	<10	2
120911	Soil			0.39	11.7	4.7	<0.05	0.4	2.32	11.4	<0.02	1	0.7	10.1	<10	<2
120912	Soil			0.23	7.0	5.5	<0.05	3.4	25.10	16.7	0.04	1	1.1	28.9	10	2
120913	Soil			0.23	8.6	4.5	<0.05	1.9	18.45	19.3	0.04	2	1.3	39.4	11	2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 24, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
120914	Soil			0.73	56.11	55.19	133.5	339	47.9	25.5	673	4.31	25.4	1.0	1.0	3.1	83.8	0.14	0.92	0.46	21	1.25	0.072
120915	Soil			0.67	47.88	44.69	128.9	73	40.3	23.8	899	4.60	28.6	0.8	1.3	2.5	23.1	0.13	0.80	0.43	20	0.19	0.051
119871	Soil			0.61	21.47	19.27	84.5	58	19.8	8.4	297	3.08	6.7	0.7	<0.2	2.0	35.5	0.11	0.29	0.32	24	0.29	0.079
119872	Soil			0.94	23.08	22.93	77.2	78	22.9	10.2	437	3.19	10.6	0.8	0.7	0.4	28.0	0.13	0.58	0.33	38	0.29	0.100
119873	Soil			0.85	17.64	20.16	64.1	87	15.6	7.2	301	2.68	8.1	0.5	1.5	0.2	19.4	0.13	0.44	0.32	38	0.20	0.069
119874	Soil			0.96	23.32	22.26	73.7	48	20.2	9.6	326	3.25	9.8	0.6	0.5	0.4	6.7	0.11	0.57	0.29	33	0.03	0.044
119875	Soil			0.77	25.53	127.1	79.4	40	23.7	11.7	553	3.17	10.8	0.5	0.4	0.5	11.9	0.12	0.40	0.29	23	0.09	0.069
119876	Soil			0.71	34.36	33.78	85.8	85	26.4	15.2	668	3.69	14.1	0.6	0.3	1.5	12.4	0.10	0.44	0.37	24	0.07	0.065
119877	Soil			0.48	29.01	25.39	85.1	47	27.5	14.2	309	3.72	12.0	0.5	1.1	2.5	9.6	0.05	0.30	0.31	21	0.06	0.025
119878	Soil			0.62	16.88	19.37	83.7	157	19.1	10.9	363	2.65	7.9	3.5	1.3	1.4	78.1	0.20	0.23	0.26	34	1.00	0.092
119879	Soil			0.66	39.42	65.95	122.4	180	26.5	12.5	544	3.25	11.5	4.5	2.4	1.6	101.5	0.23	0.37	0.30	21	1.43	0.119
119880	Soil			0.97	21.66	28.16	69.7	41	17.9	14.3	814	3.90	11.4	0.4	1.5	0.3	20.4	0.10	0.47	0.40	35	0.16	0.065
119881	Soil			1.26	25.52	31.31	66.4	60	19.2	11.3	880	3.15	14.7	0.9	2.6	0.8	42.9	0.10	0.61	0.43	38	0.39	0.062
119882	Soil			0.71	24.51	19.18	85.8	63	23.2	9.6	337	2.83	11.0	2.9	2.5	1.7	24.4	0.13	0.40	0.34	29	0.18	0.079
119883	Soil			1.26	24.34	28.31	116.8	38	18.9	13.8	1061	3.55	14.7	1.2	1.3	0.6	36.1	0.25	0.68	0.39	32	0.47	0.101
119884	Soil			0.72	41.14	30.22	104.1	145	32.5	13.7	507	3.44	23.5	3.4	2.7	3.7	45.7	0.17	0.83	0.35	24	0.85	0.073
119885	Soil			0.82	35.04	26.32	89.9	114	36.5	15.6	489	3.41	24.6	1.3	3.4	4.9	28.8	0.15	0.89	0.34	26	0.39	0.050
119886	Soil			0.61	41.39	33.18	144.3	100	43.1	15.7	298	3.52	26.3	1.1	2.5	6.3	22.3	0.14	0.80	0.42	21	0.26	0.049
119981	Soil			0.77	23.24	28.75	79.3	91	27.0	9.6	297	3.20	9.2	0.8	2.1	2.7	31.3	0.11	0.49	0.34	27	0.26	0.047
119982	Soil			0.70	20.22	20.31	65.6	104	15.7	8.0	499	2.54	5.7	0.5	0.4	1.0	74.3	0.13	0.33	0.36	26	0.81	0.121
119983	Soil			0.85	27.64	29.89	100.6	48	26.7	12.5	464	3.75	8.5	0.6	0.2	1.5	31.1	0.12	0.50	0.37	27	0.29	0.066
119984	Soil			0.70	27.38	44.32	82.7	434	29.2	9.0	221	3.03	11.9	1.7	3.9	3.0	50.5	0.11	0.39	0.35	21	0.44	0.059
119985	Soil			0.63	29.18	36.37	93.3	67	27.4	13.2	496	3.80	12.3	0.6	0.6	2.0	24.1	0.09	0.44	0.36	23	0.19	0.064
119986	Soil			0.59	41.20	41.86	112.1	107	39.0	21.0	701	4.11	14.8	0.7	2.0	2.5	23.6	0.06	0.43	0.46	23	0.09	0.032
119987	Soil			0.73	34.26	51.15	124.1	32	34.6	20.2	620	5.42	17.2	0.6	0.5	3.2	13.7	0.14	0.48	0.44	26	0.03	0.042
119988	Soil			1.24	23.13	24.14	73.7	35	15.3	12.9	1202	3.20	9.7	0.5	1.1	1.8	9.7	0.07	0.63	0.43	46	0.03	0.038
119989	Soil			1.40	24.39	33.64	80.8	34	21.6	13.8	738	3.70	15.1	0.6	1.3	0.6	11.2	0.14	0.75	0.37	42	0.05	0.050
119990	Soil			1.06	23.18	20.25	97.1	54	18.8	9.7	650	3.20	12.2	0.7	0.2	0.4	60.8	0.16	0.58	0.40	44	0.70	0.058
119991	Soil			1.02	26.35	26.97	65.8	44	17.1	13.3	836	3.83	14.7	0.5	0.2	1.1	12.9	0.07	0.48	0.39	40	0.07	0.076
119992	Soil			1.36	45.42	26.70	103.0	263	28.5	13.7	573	3.13	18.8	2.2	2.2	1.5	109.6	0.24	0.84	0.34	21	1.52	0.123



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 24, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
120914	Soil	9.4	27.6	0.47	135.6	0.003	3	1.57	0.004	0.08	<0.1	8.1	0.13	0.06	315	0.5	0.10	4.6	5.78	<0.1	0.08
120915	Soil	6.1	23.9	0.37	77.2	0.002	3	1.47	0.003	0.06	<0.1	5.5	0.08	<0.02	103	0.3	0.09	3.9	4.54	<0.1	0.03
119871	Soil	6.8	18.2	0.24	149.8	0.002	2	1.39	0.002	0.07	<0.1	3.7	0.12	0.03	14	0.3	0.04	4.0	2.03	<0.1	0.05
119872	Soil	7.7	23.8	0.32	148.4	0.004	2	1.42	0.003	0.06	0.1	1.1	0.14	0.06	50	0.2	0.09	4.6	2.54	<0.1	<0.02
119873	Soil	7.3	18.8	0.20	146.2	0.005	1	1.09	0.002	0.06	<0.1	0.6	0.11	0.05	31	0.2	0.11	4.7	2.10	<0.1	<0.02
119874	Soil	6.4	20.1	0.16	51.0	0.006	2	1.10	0.001	0.05	<0.1	1.1	0.11	0.03	37	0.3	0.08	4.1	1.84	<0.1	<0.02
119875	Soil	5.1	15.2	0.14	66.3	0.003	<1	0.86	<0.001	0.06	<0.1	1.6	0.11	0.02	35	0.2	0.07	3.0	2.84	<0.1	<0.02
119876	Soil	5.0	17.7	0.20	74.7	0.002	2	1.15	0.002	0.07	<0.1	2.9	0.12	0.04	53	0.3	0.05	3.5	4.94	<0.1	0.02
119877	Soil	5.4	15.1	0.14	94.6	0.001	2	0.93	0.001	0.06	<0.1	3.4	0.08	<0.02	46	0.1	0.04	2.9	1.74	<0.1	<0.02
119878	Soil	7.9	24.7	0.36	202.0	0.004	2	1.49	0.004	0.06	<0.1	3.0	0.12	0.12	104	0.3	0.05	4.5	1.88	<0.1	0.05
119879	Soil	11.5	18.8	0.28	186.2	0.002	3	1.25	0.004	0.10	<0.1	4.9	0.11	0.12	172	0.8	0.08	3.2	3.64	<0.1	0.08
119880	Soil	6.8	21.6	0.20	93.5	0.004	1	1.19	0.002	0.07	<0.1	1.0	0.12	0.03	53	0.3	0.05	4.4	7.31	<0.1	<0.02
119881	Soil	6.8	17.9	0.17	154.2	0.004	1	1.10	0.002	0.07	<0.1	1.7	0.13	0.05	114	0.2	0.07	4.7	6.15	<0.1	<0.02
119882	Soil	14.5	28.0	0.49	83.2	0.005	3	1.52	0.001	0.07	<0.1	2.5	0.11	0.03	131	0.4	0.04	4.3	2.48	<0.1	0.03
119883	Soil	6.5	24.5	0.22	98.5	0.006	2	1.08	0.002	0.07	<0.1	1.3	0.09	0.06	139	0.4	0.06	4.6	4.04	<0.1	<0.02
119884	Soil	17.2	32.3	0.45	95.6	0.002	2	1.16	0.002	0.08	<0.1	6.1	0.11	0.05	482	0.6	0.04	3.3	2.12	<0.1	0.10
119885	Soil	19.0	32.9	0.61	79.5	0.003	2	1.05	0.002	0.08	<0.1	5.7	0.10	0.02	311	0.5	0.06	3.1	1.11	<0.1	0.08
119886	Soil	16.1	36.5	0.89	80.7	0.003	2	1.44	0.001	0.06	<0.1	7.0	0.11	<0.02	352	0.3	<0.02	4.0	4.81	<0.1	0.09
119881	Soil	9.1	21.7	0.30	129.8	0.004	2	1.31	0.003	0.06	0.1	3.3	0.14	<0.02	44	0.2	0.05	3.4	3.42	<0.1	0.04
119882	Soil	4.7	17.1	0.18	167.4	0.005	<1	0.97	0.003	0.07	<0.1	1.9	0.11	0.08	40	<0.1	0.06	4.0	1.91	<0.1	0.05
119883	Soil	6.0	21.0	0.25	116.7	0.004	1	1.16	0.004	0.07	<0.1	2.2	0.09	0.03	32	0.2	<0.02	3.6	2.37	<0.1	0.02
119884	Soil	7.4	24.1	0.27	124.8	0.002	2	1.29	0.005	0.11	<0.1	4.6	0.14	0.04	350	0.3	0.03	3.1	9.12	<0.1	0.12
119885	Soil	6.4	18.7	0.20	108.4	0.003	<1	1.07	0.002	0.07	<0.1	2.8	0.10	0.03	71	0.1	0.05	3.3	3.80	<0.1	0.04
119886	Soil	7.9	19.2	0.27	68.6	0.004	3	0.99	0.002	0.07	<0.1	3.9	0.10	<0.02	86	0.1	0.08	3.1	6.45	<0.1	<0.02
119887	Soil	6.4	28.0	0.38	53.7	0.005	3	1.76	0.002	0.07	<0.1	3.4	0.10	<0.02	49	0.3	0.04	5.0	6.26	<0.1	0.04
119888	Soil	9.2	19.7	0.14	66.5	0.009	1	1.14	0.002	0.07	<0.1	1.9	0.14	0.03	52	0.3	0.07	6.2	4.26	<0.1	<0.02
119889	Soil	9.4	24.6	0.28	54.6	0.020	2	1.29	0.002	0.07	0.1	1.4	0.08	0.03	58	0.3	0.05	4.5	5.05	<0.1	<0.02
119990	Soil	7.5	22.1	0.25	115.8	0.011	2	1.20	0.004	0.10	0.1	1.5	0.13	0.04	72	0.3	0.06	6.4	6.89	<0.1	<0.02
119991	Soil	6.1	22.3	0.23	62.0	0.007	<1	1.48	0.003	0.08	<0.1	1.7	0.11	0.03	280	0.2	0.05	5.9	5.33	<0.1	<0.02
119992	Soil	9.1	19.4	0.30	118.3	0.003	4	1.18	0.008	0.09	<0.1	4.5	0.14	0.11	410	0.6	0.05	3.2	5.85	<0.1	0.07



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: August 24, 2011

Page: 10 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
120914	Soil	0.30	9.0	9.8	<0.05	2.5	21.44	23.1	0.03	<1	1.3	42.8	<10	<2
120915	Soil	0.19	7.8	8.2	<0.05	1.4	8.86	17.0	0.02	<1	1.4	40.9	<10	<2
119871	Soil	0.21	15.0	2.9	<0.05	1.5	8.14	20.4	0.04	<1	0.7	25.7	<10	<2
119872	Soil	0.32	11.3	3.5	<0.05	0.2	5.90	23.7	0.03	2	0.6	19.0	<10	<2
119873	Soil	0.22	10.8	9.6	<0.05	<0.1	4.27	16.1	<0.02	<1	0.5	11.5	<10	<2
119874	Soil	0.32	9.4	3.8	<0.05	0.2	3.78	17.5	0.02	2	0.5	12.9	<10	<2
119875	Soil	0.11	12.4	>100	<0.05	0.4	4.63	15.0	<0.02	2	0.7	11.6	<10	<2
119876	Soil	0.17	11.1	6.4	<0.05	0.8	6.21	13.0	0.03	2	1.0	23.2	<10	<2
119877	Soil	0.10	8.2	2.2	<0.05	0.6	5.13	13.2	<0.02	<1	1.2	19.2	<10	<2
119878	Soil	0.63	9.2	3.8	<0.05	1.6	5.96	18.4	0.03	2	0.9	21.9	<10	<2
119879	Soil	0.35	12.2	79.9	<0.05	2.7	20.83	16.3	<0.02	1	1.3	18.1	<10	<2
119880	Soil	0.32	12.2	8.5	<0.05	<0.1	2.75	14.1	0.02	1	0.6	14.9	<10	<2
119881	Soil	0.32	11.4	8.9	<0.05	0.3	3.89	12.3	0.04	<1	0.7	9.5	<10	<2
119882	Soil	0.23	12.1	3.6	<0.05	0.9	8.51	28.4	0.03	<1	1.0	28.5	<10	<2
119883	Soil	0.27	13.6	3.5	<0.05	0.4	4.03	14.4	0.02	<1	1.2	13.7	<10	<2
119884	Soil	0.39	7.5	8.0	<0.05	3.2	17.82	27.1	0.02	<1	0.8	22.0	<10	<2
119885	Soil	0.19	5.5	5.4	<0.05	2.5	13.84	40.1	0.03	2	0.7	22.0	<10	<2
119886	Soil	0.17	6.8	3.2	<0.05	3.1	14.82	33.6	0.04	<1	1.0	36.1	13	<2
119981	Soil	0.26	11.2	6.4	<0.05	1.1	7.87	23.1	<0.02	<1	1.1	25.0	<10	<2
119982	Soil	0.32	11.0	2.3	<0.05	1.4	3.91	10.0	0.03	<1	0.3	11.7	<10	<2
119983	Soil	0.22	11.3	3.3	<0.05	0.7	6.82	19.7	0.03	<1	0.8	22.5	<10	<2
119984	Soil	0.28	15.9	24.1	<0.05	3.9	15.96	16.2	<0.02	<1	1.1	27.6	<10	2
119985	Soil	0.19	10.9	4.2	<0.05	1.1	8.31	17.4	0.03	<1	0.9	21.5	<10	<2
119986	Soil	0.14	8.9	4.3	<0.05	0.4	8.67	17.4	0.04	<1	0.8	22.5	10	<2
119987	Soil	0.33	10.3	3.9	<0.05	1.5	4.84	16.0	0.04	<1	0.6	40.2	11	<2
119988	Soil	0.53	15.7	4.7	<0.05	0.3	2.67	17.1	0.03	<1	0.7	11.1	<10	<2
119989	Soil	0.45	10.5	13.0	<0.05	0.1	3.01	18.8	<0.02	<1	0.4	13.2	<10	<2
119990	Soil	0.53	15.3	4.5	<0.05	<0.1	3.37	13.7	0.03	<1	0.3	14.6	<10	<2
119991	Soil	0.41	12.1	6.1	<0.05	0.4	2.74	12.0	<0.02	<1	0.9	17.5	<10	<2
119992	Soil	0.33	11.9	4.6	<0.05	2.8	16.74	14.8	0.04	<1	0.8	17.0	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
119993	Soil	1.42	24.81	25.82	75.8	109	20.5	8.1	394	2.86	18.9	5.8	2.9	0.9	47.7	0.22	0.70	0.31	36	0.58	0.079
119994	Soil	0.63	37.84	23.14	110.7	44	37.1	17.7	325	3.01	24.6	1.5	2.3	8.0	13.1	0.13	0.86	0.28	26	0.15	0.031
119995	Soil	0.89	33.50	23.17	95.1	123	31.9	12.9	475	3.41	150.8	1.4	2.5	2.1	39.2	0.19	1.64	0.29	28	0.36	0.063
612329	Soil	0.75	40.03	33.48	81.2	52	28.7	20.0	838	4.76	18.0	0.7	<0.2	2.3	12.7	0.06	0.47	0.46	28	0.02	0.047
612330	Soil	0.70	54.50	31.06	98.6	93	47.4	26.4	1273	4.64	21.0	0.6	1.2	2.9	37.8	0.06	0.66	0.40	14	0.18	0.022
612331	Soil	2.56	81.99	31.75	98.4	198	45.9	20.8	312	4.02	98.0	0.8	2.6	2.8	33.1	0.06	1.22	0.48	15	0.25	0.018
612332	Soil	1.24	38.55	21.60	120.3	227	29.5	14.1	683	2.94	51.4	12.8	2.6	1.0	91.5	0.35	1.11	0.33	24	1.52	0.119
612333	Soil	0.75	30.26	20.04	93.6	122	26.9	12.0	371	2.93	32.0	4.1	1.5	2.1	55.5	0.17	0.64	0.26	24	0.87	0.081
612334	Soil	0.88	22.68	19.19	70.2	170	17.4	8.4	494	2.74	11.6	5.6	1.3	1.2	72.7	0.36	0.39	0.28	25	1.01	0.129
612335	Soil	0.93	45.38	27.49	80.3	182	34.2	16.5	602	3.57	23.6	2.0	1.5	3.1	117.3	0.19	0.62	0.32	17	2.07	0.072
612336	Soil	1.15	23.02	23.58	99.5	116	20.6	15.3	1148	2.70	9.1	2.3	1.3	1.0	52.5	0.43	0.53	0.29	35	0.78	0.117
612337	Soil	1.01	23.79	22.53	105.0	114	21.2	11.5	573	2.83	10.3	2.2	1.0	1.3	57.9	0.37	0.51	0.31	34	0.80	0.108
612338	Soil	1.02	18.41	21.79	95.4	46	18.5	10.1	471	2.89	9.9	2.8	1.0	1.1	35.0	0.50	0.43	0.28	33	0.38	0.101
612339	Soil	0.76	24.12	20.65	100.6	184	25.7	10.4	485	2.60	11.9	3.1	2.6	2.0	95.6	0.46	0.49	0.26	20	1.26	0.089
612340	Soil	0.94	21.67	21.59	79.5	85	18.9	10.8	704	2.88	12.6	1.8	0.9	1.8	55.2	0.30	0.69	0.31	31	0.63	0.078
612341	Soil	0.78	16.82	18.26	72.2	24	20.6	9.1	366	3.16	9.9	1.3	<0.2	2.9	18.4	0.11	0.34	0.28	39	0.15	0.029
612342	Soil	0.53	28.96	23.80	105.1	77	25.2	10.2	280	2.95	10.0	2.2	1.0	2.2	69.6	0.18	0.37	0.35	17	1.06	0.088
612343	Soil	0.60	22.60	13.95	43.2	102	14.4	6.7	408	1.61	5.9	2.1	1.1	0.8	188.0	0.27	0.34	0.18	12	3.29	0.133
612301	Soil	0.47	29.94	39.42	112.2	296	35.8	16.6	426	3.51	13.0	0.6	3.3	3.5	103.8	0.14	0.35	0.43	6	1.05	0.064
612302	Soil	0.54	31.03	47.44	163.3	220	37.9	18.3	711	3.58	199.8	0.8	4.7	6.3	63.8	0.18	4.48	0.43	9	1.84	0.085
612303	Soil	0.52	25.42	36.37	113.8	217	31.6	16.2	606	2.92	42.3	0.8	2.9	4.8	44.4	0.13	1.50	0.32	9	4.65	0.087
612304	Soil	0.49	22.44	42.67	204.1	131	23.5	10.8	627	2.70	50.9	1.5	5.1	2.0	84.9	0.33	2.15	0.29	11	6.09	0.104
612305	Soil	0.59	20.01	39.74	203.2	140	19.2	6.4	608	1.63	21.1	2.1	3.3	0.8	75.6	0.39	2.75	0.20	9	10.80	0.121
612306	Soil	0.56	27.21	91.32	151.6	254	39.0	13.0	318	2.79	32.6	1.7	2.8	5.4	86.4	0.14	3.67	0.38	7	1.59	0.112
612307	Soil	0.60	34.32	42.20	154.6	328	38.6	15.9	450	3.90	14.1	0.8	0.8	4.5	82.5	0.16	0.55	0.41	11	0.95	0.073
612308	Soil	0.53	34.20	40.26	143.0	364	41.4	15.6	375	4.09	12.3	0.7	0.8	4.0	73.5	0.14	0.42	0.42	12	0.75	0.064
612309	Soil	0.56	35.74	41.46	137.6	392	38.4	14.4	323	4.21	8.5	0.7	1.3	3.4	94.6	0.12	0.34	0.46	13	1.19	0.072
612310	Soil	0.59	35.76	44.06	153.8	304	36.6	15.5	477	4.13	18.7	0.8	1.0	4.6	78.4	0.16	0.86	0.48	13	1.16	0.073
612311	Soil	1.05	31.33	55.54	111.3	271	36.8	16.8	843	4.09	9.1	1.2	1.7	1.8	44.1	0.18	0.61	0.39	23	0.39	0.090
612312	Soil	0.91	31.87	52.52	110.5	238	39.4	16.3	613	4.03	7.2	0.5	0.7	3.8	18.4	0.11	0.34	0.39	10	0.11	0.039



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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
119993	Soil	9.3	21.5	0.15	141.2	0.005	1	0.99	0.005	0.07	<0.1	2.6	0.16	0.05	344	0.6	0.03	3.8	1.20	<0.1	0.03
119994	Soil	36.9	42.3	0.31	213.7	0.001	<1	0.79	0.002	0.06	<0.1	4.7	0.07	<0.02	326	0.9	<0.02	2.2	0.75	<0.1	<0.02
119995	Soil	18.1	28.6	0.32	134.2	0.004	1	1.01	0.004	0.06	<0.1	5.1	0.12	0.03	1705	0.6	0.06	2.6	1.41	<0.1	0.02
612329	Soil	5.0	20.0	0.25	77.7	0.003	1	1.33	0.001	0.06	<0.1	4.1	0.12	<0.02	85	0.2	0.07	3.9	6.57	<0.1	0.03
612330	Soil	4.8	11.7	0.08	56.0	<0.001	2	0.29	0.002	0.07	<0.1	9.0	0.11	<0.02	150	0.2	0.06	0.9	2.11	<0.1	0.02
612331	Soil	7.8	11.5	0.04	76.0	<0.001	<1	0.40	0.001	0.05	<0.1	6.1	0.25	<0.02	2135	0.7	0.12	1.0	1.02	<0.1	0.02
612332	Soil	11.6	25.2	0.33	239.4	0.005	2	1.00	0.004	0.06	<0.1	3.4	0.14	0.13	729	1.5	0.05	2.5	2.51	<0.1	0.06
612333	Soil	17.0	33.7	0.57	181.1	0.004	2	1.07	0.004	0.06	<0.1	4.6	0.08	0.07	386	1.0	0.05	3.2	1.08	<0.1	0.07
612334	Soil	21.1	20.9	0.23	192.9	0.006	<1	1.16	0.003	0.06	<0.1	2.9	0.07	0.09	215	0.4	0.03	2.9	0.93	<0.1	0.05
612335	Soil	16.6	19.4	0.42	66.6	0.002	2	1.01	0.003	0.06	<0.1	6.5	0.09	0.05	936	0.2	0.05	2.5	1.43	<0.1	0.06
612336	Soil	13.9	30.2	0.44	230.8	0.008	2	1.28	0.003	0.07	<0.1	2.2	0.12	0.07	170	0.4	<0.02	4.6	3.45	<0.1	0.02
612337	Soil	15.4	30.2	0.49	165.9	0.009	2	1.27	0.003	0.08	<0.1	2.7	0.10	0.06	93	0.3	0.03	4.5	2.87	<0.1	0.04
612338	Soil	12.1	27.1	0.43	106.9	0.009	2	1.41	0.003	0.06	<0.1	1.9	0.09	0.06	127	0.2	0.02	4.1	2.02	<0.1	<0.02
612339	Soil	14.7	22.0	0.50	132.3	0.005	2	1.22	0.004	0.06	<0.1	2.8	0.09	0.05	278	0.3	0.06	3.3	1.18	<0.1	0.05
612340	Soil	10.5	23.0	0.33	131.1	0.004	2	1.43	0.003	0.06	<0.1	2.2	0.13	0.03	205	0.3	0.02	4.6	1.68	<0.1	0.04
612341	Soil	9.4	27.3	0.54	125.3	0.005	1	1.86	0.002	0.05	<0.1	2.2	0.12	<0.02	45	0.1	0.06	5.0	1.33	<0.1	0.03
612342	Soil	15.5	20.7	0.44	69.7	0.004	3	1.32	0.006	0.06	<0.1	4.9	0.06	0.07	233	0.3	0.07	3.2	1.27	<0.1	0.06
612343	Soil	10.5	13.7	0.22	93.2	0.004	4	0.88	0.011	0.04	<0.1	1.9	0.05	0.19	118	0.5	<0.02	2.1	0.63	<0.1	0.05
612301	Soil	11.0	6.1	0.10	273.8	0.001	6	0.42	0.004	0.10	<0.1	4.3	0.30	0.11	203	0.7	0.06	1.0	5.63	0.1	0.05
612302	Soil	7.5	9.1	0.60	222.7	0.001	4	0.62	0.009	0.14	<0.1	5.3	0.35	0.08	1343	0.4	0.06	1.6	4.80	<0.1	0.07
612303	Soil	5.4	8.6	2.70	149.7	0.001	4	0.59	0.006	0.11	<0.1	4.5	0.18	<0.02	364	0.4	0.04	1.4	4.35	<0.1	0.05
612304	Soil	6.8	9.8	3.10	73.1	0.002	4	0.63	0.006	0.12	<0.1	3.2	0.18	0.06	616	0.4	0.07	1.7	2.38	<0.1	0.04
612305	Soil	7.3	7.1	5.21	57.2	0.003	2	0.33	0.009	0.07	<0.1	1.3	0.10	0.02	300	0.6	0.07	0.9	0.64	<0.1	0.04
612306	Soil	10.0	7.8	0.13	184.0	0.002	5	0.48	0.006	0.16	<0.1	4.3	0.30	0.10	424	0.8	0.04	1.3	4.13	<0.1	0.08
612307	Soil	9.3	11.8	0.20	165.5	0.001	5	0.76	0.008	0.12	<0.1	5.4	0.18	0.09	141	0.7	0.04	2.0	3.12	<0.1	0.08
612308	Soil	9.3	11.8	0.19	189.6	<0.001	4	0.87	0.005	0.11	<0.1	5.8	0.18	0.08	137	0.8	0.03	1.9	2.38	<0.1	0.10
612309	Soil	7.1	13.2	0.24	153.3	<0.001	4	0.91	0.006	0.10	<0.1	5.7	0.16	0.07	87	0.8	0.04	2.2	2.64	<0.1	0.08
612310	Soil	7.9	13.5	0.31	149.9	0.002	4	0.86	0.007	0.12	<0.1	6.2	0.18	0.06	219	0.8	0.04	2.1	2.63	<0.1	0.07
612311	Soil	5.9	22.1	0.24	134.1	0.004	3	1.39	0.005	0.11	<0.1	3.8	0.14	0.06	69	0.6	0.08	3.3	7.67	<0.1	0.05
612312	Soil	3.9	15.4	0.15	84.5	0.002	2	0.75	0.003	0.08	<0.1	5.3	0.14	0.02	40	0.5	0.06	1.8	3.01	<0.1	0.02



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 11 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
119993	Soil	0.39	12.1	11.1	<0.05	0.8	8.76	17.1	0.02	<1	0.6	8.4	<10	<2
119994	Soil	0.13	6.8	3.4	<0.05	0.9	8.69	81.4	0.03	<1	0.8	10.3	<10	<2
119995	Soil	0.16	7.9	3.1	<0.05	0.7	19.22	40.9	0.03	<1	1.3	12.8	<10	<2
612329	Soil	0.23	10.2	2.7	<0.05	1.0	5.60	12.2	0.04	<1	0.8	22.3	<10	<2
612330	Soil	<0.02	4.1	3.4	<0.05	1.2	19.48	9.4	0.05	<1	0.9	2.1	<10	<2
612331	Soil	<0.02	4.9	2.2	<0.05	1.1	16.84	11.7	0.05	1	1.0	2.2	<10	<2
612332	Soil	0.33	10.4	1.4	<0.05	1.8	14.75	23.9	0.02	<1	0.7	8.5	<10	<2
612333	Soil	0.22	7.6	1.8	<0.05	2.2	15.95	29.8	0.03	<1	0.7	15.9	10	<2
612334	Soil	0.37	8.7	0.8	<0.05	1.2	16.68	39.0	0.04	<1	1.0	11.2	<10	<2
612335	Soil	0.13	6.2	2.9	<0.05	2.5	21.25	31.2	0.04	<1	1.5	20.2	<10	<2
612336	Soil	0.37	15.9	2.5	<0.05	0.8	7.97	31.1	0.03	<1	0.5	20.4	<10	<2
612337	Soil	0.46	16.4	2.6	<0.05	1.3	9.68	32.0	0.03	<1	1.2	19.3	<10	<2
612338	Soil	0.37	11.9	2.8	<0.05	0.7	7.03	28.9	0.03	<1	0.9	22.5	<10	<2
612339	Soil	0.30	9.9	3.1	<0.05	2.4	9.38	26.1	<0.02	<1	1.0	26.3	<10	<2
612340	Soil	0.34	11.8	1.3	<0.05	1.3	4.81	24.7	0.03	<1	0.8	22.1	<10	<2
612341	Soil	0.36	9.3	1.7	<0.05	1.1	3.50	25.1	0.04	<1	0.5	31.9	<10	<2
612342	Soil	0.26	7.9	2.6	<0.05	2.0	23.87	26.8	0.03	<1	1.2	25.7	<10	<2
612343	Soil	0.27	4.0	3.7	<0.05	2.5	14.54	16.4	<0.02	<1	0.7	9.9	<10	<2
612301	Soil	0.08	8.9	2.8	<0.05	2.6	14.59	29.0	0.05	1	0.9	5.9	<10	<2
612302	Soil	0.05	9.4	6.6	<0.05	4.6	12.69	23.2	0.03	<1	0.7	7.5	<10	<2
612303	Soil	0.05	8.2	2.7	<0.05	2.9	11.74	15.5	0.02	<1	0.9	9.9	<10	<2
612304	Soil	0.09	6.3	3.5	<0.05	1.6	10.97	16.4	0.02	<1	0.8	9.0	<10	<2
612305	Soil	0.11	3.3	2.8	<0.05	1.2	10.21	14.9	<0.02	<1	0.3	3.4	<10	<2
612306	Soil	0.09	9.7	2.8	<0.05	3.6	15.35	28.7	0.02	<1	0.9	5.5	<10	<2
612307	Soil	0.12	9.9	3.9	<0.05	3.5	16.92	23.6	0.04	1	1.1	14.3	<10	<2
612308	Soil	0.09	8.3	2.1	<0.05	3.2	20.30	22.0	0.04	2	1.5	17.9	13	<2
612309	Soil	0.09	8.0	2.6	<0.05	3.2	18.75	16.9	0.04	1	1.0	24.4	<10	<2
612310	Soil	0.11	9.2	3.6	<0.05	2.9	16.71	20.9	0.05	<1	1.1	23.0	<10	<2
612311	Soil	0.24	11.9	5.9	<0.05	1.0	12.14	14.1	0.03	2	0.9	30.0	<10	<2
612312	Soil	0.09	7.2	11.8	<0.05	1.0	11.35	10.8	<0.02	<1	1.0	19.9	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
612313	Soil		0.01	1.09	23.54	30.54	96.2	84	24.7	11.7	450	3.54	10.9	0.6	1.8	1.2	10.6	0.15	0.64	0.40	33	0.04	0.061
612314	Soil		0.01	1.07	46.92	31.01	100.9	213	39.0	15.8	893	4.94	14.4	1.4	1.1	7.8	53.7	0.20	0.37	0.45	19	0.60	0.119
612315	Soil		0.01	0.88	33.36	52.72	103.5	274	34.4	15.6	549	4.15	11.4	1.0	1.0	4.5	35.7	0.13	0.41	0.42	14	0.27	0.060
612316	Soil		0.01	0.95	34.19	37.33	107.4	512	34.3	13.5	484	3.92	12.0	3.3	1.4	3.0	80.9	0.23	0.65	0.41	29	1.09	0.103
612317	Soil		0.01	0.80	28.37	26.58	100.6	212	25.1	11.4	539	3.57	10.3	1.6	1.2	1.5	82.5	0.22	0.53	0.36	25	0.96	0.123
612318	Soil		0.01	0.63	27.68	25.11	89.5	186	26.2	10.2	313	3.34	8.1	1.0	1.2	2.5	79.3	0.17	0.41	0.32	17	0.68	0.152
612319	Soil		0.01	0.97	24.07	25.98	85.3	67	27.8	11.8	385	3.84	12.6	0.7	0.5	2.7	37.1	0.10	0.59	0.35	39	0.33	0.058
612320	Soil		0.01	0.69	22.54	25.72	92.9	64	21.3	9.7	373	3.18	9.9	0.5	0.3	1.6	62.4	0.16	0.43	0.36	27	0.63	0.100
612321	Soil		0.01	0.82	20.89	23.12	73.3	86	17.7	8.1	509	3.08	7.8	0.6	<0.2	1.0	55.8	0.09	0.41	0.39	33	0.46	0.123
612322	Soil		0.01	0.68	25.00	30.50	94.8	84	26.1	12.0	423	3.88	14.8	0.7	0.9	1.8	16.7	0.15	0.46	0.34	25	0.11	0.066
612323	Soil		0.01	0.68	26.25	33.99	98.3	208	23.0	11.5	499	4.15	13.8	0.7	0.7	0.3	12.7	0.14	0.51	0.40	25	0.07	0.099
612324	Soil		0.01	0.69	33.58	32.18	97.5	88	34.5	15.7	514	4.09	16.2	0.7	8.6	2.5	28.5	0.07	0.53	0.44	28	0.05	0.037
612325	Soil		0.01	1.43	22.20	28.67	70.8	41	14.6	11.8	672	3.59	11.4	0.6	1.7	2.8	14.4	0.08	0.61	0.46	43	0.03	0.049
612326	Soil		0.01	1.18	28.27	32.06	78.4	52	22.0	12.8	622	4.20	17.5	0.7	1.0	1.7	15.0	0.07	0.65	0.51	42	0.03	0.053
612327	Soil		0.01	0.59	50.75	41.84	111.0	154	37.6	30.5	1277	4.86	27.0	0.9	1.1	4.7	31.0	0.07	0.48	0.68	24	0.13	0.053
612328	Soil		0.01	0.89	24.27	28.25	77.4	29	22.1	15.8	702	4.92	17.2	0.4	0.5	3.1	13.1	0.12	0.57	0.44	33	0.03	0.041
119675	Soil		0.01	0.62	36.11	46.31	115.1	350	43.1	22.3	523	4.10	9.3	1.0	0.2	8.2	236.4	0.11	0.27	0.44	13	3.24	0.060
119676	Soil		0.01	0.56	40.27	50.44	127.0	310	42.6	19.8	450	4.43	9.7	0.8	0.7	6.9	77.8	0.13	0.32	0.56	12	1.04	0.061
119677	Soil		0.01	0.20	6.91	19.51	151.5	48	6.0	3.0	758	1.15	28.1	1.1	13.2	0.9	67.2	0.30	1.83	0.07	4	16.61	0.094
119678	Soil		0.01	0.37	32.71	75.83	245.2	100	29.9	15.7	424	3.00	58.3	2.1	6.7	3.7	97.7	0.26	2.35	0.37	10	4.09	0.151



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
612313	Soil	7.0	21.5	0.26	67.5	0.006	1	1.42	0.004	0.07	0.1	2.2	0.13	0.04	20	0.4	0.05	4.2	3.51	<0.1	<0.02
612314	Soil	9.7	13.0	0.20	130.9	0.002	3	0.76	0.004	0.10	<0.1	9.3	0.17	0.02	91	0.5	0.13	2.1	1.89	0.1	0.08
612315	Soil	5.5	15.1	0.21	103.2	0.002	3	0.85	0.007	0.09	<0.1	5.3	0.13	0.06	86	0.3	0.07	2.1	3.79	<0.1	0.05
612316	Soil	10.2	24.0	0.36	177.9	0.006	3	1.40	0.008	0.11	<0.1	5.8	0.18	0.08	124	1.0	0.05	3.7	4.42	<0.1	0.09
612317	Soil	10.1	18.6	0.25	145.6	0.005	3	1.21	0.004	0.07	<0.1	3.8	0.12	0.09	69	0.7	0.03	3.3	2.55	<0.1	0.05
612318	Soil	16.5	15.1	0.15	97.3	0.002	1	0.96	0.003	0.06	<0.1	4.5	0.09	0.06	62	0.4	0.05	2.2	1.84	<0.1	0.06
612319	Soil	8.3	26.4	0.37	169.1	0.004	1	1.78	0.003	0.07	0.1	3.0	0.18	0.02	31	0.3	0.05	4.8	3.31	<0.1	0.05
612320	Soil	4.6	17.9	0.19	198.5	0.003	<1	1.17	0.002	0.08	<0.1	2.6	0.13	0.05	34	0.3	0.05	4.0	2.38	<0.1	0.06
612321	Soil	7.0	20.3	0.20	164.8	0.004	2	1.25	0.003	0.09	<0.1	2.0	0.14	0.05	46	0.2	0.07	4.9	3.50	<0.1	0.03
612322	Soil	6.7	19.0	0.17	101.7	0.003	3	1.23	0.002	0.07	<0.1	2.7	0.12	0.02	63	0.2	0.05	3.2	3.31	<0.1	<0.02
612323	Soil	4.8	17.2	0.13	60.8	0.004	2	0.95	0.003	0.08	<0.1	0.9	0.10	0.07	62	0.4	0.07	3.1	3.26	<0.1	<0.02
612324	Soil	7.9	18.0	0.20	60.2	0.006	<1	0.83	0.002	0.07	<0.1	3.5	0.08	<0.02	68	0.3	0.06	2.6	7.11	<0.1	<0.02
612325	Soil	10.0	20.0	0.14	53.4	0.007	<1	1.34	0.002	0.08	<0.1	2.1	0.12	0.02	33	0.3	0.08	6.6	6.27	<0.1	0.02
612326	Soil	8.0	22.5	0.23	76.1	0.007	2	1.42	0.002	0.08	<0.1	2.6	0.14	0.03	69	0.4	0.08	5.5	9.18	<0.1	<0.02
612327	Soil	7.1	18.9	0.36	83.3	0.004	2	1.14	0.002	0.08	<0.1	6.2	0.17	<0.02	503	0.3	0.10	3.4	10.25	<0.1	0.04
612328	Soil	5.3	25.6	0.42	49.2	0.005	<1	1.87	<0.001	0.09	<0.1	3.0	0.08	<0.02	114	0.4	0.07	6.5	6.57	<0.1	0.04
119675	Soil	5.1	14.0	0.27	272.7	0.002	3	0.95	0.007	0.15	<0.1	5.9	0.29	0.15	255	0.6	0.02	2.4	8.91	<0.1	0.10
119676	Soil	5.7	12.2	0.24	118.7	0.001	3	0.86	0.005	0.14	<0.1	6.4	0.23	0.04	162	0.5	0.05	2.2	4.50	<0.1	0.06
119677	Soil	3.1	3.5	8.70	36.8	0.002	1	0.18	0.009	0.04	<0.1	1.1	0.05	<0.02	315	0.3	0.03	0.5	0.63	<0.1	0.03
119678	Soil	9.5	11.1	0.76	73.5	0.002	4	0.62	0.004	0.19	<0.1	4.4	0.19	<0.02	688	0.5	0.14	2.0	2.00	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 12 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000918.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
612313	Soil	0.26	12.6	2.2	<0.05	0.3	3.68	15.1	0.03	<1	0.7	24.3	<10	<2
612314	Soil	0.08	8.0	1.6	<0.05	4.9	25.63	28.3	0.05	1	1.2	15.2	<10	<2
612315	Soil	0.12	7.5	8.1	<0.05	1.9	12.32	14.3	0.03	<1	1.0	26.6	11	<2
612316	Soil	0.58	13.8	2.4	<0.05	2.8	20.07	20.9	0.05	<1	1.7	26.9	<10	<2
612317	Soil	0.32	12.0	1.4	<0.05	1.4	16.20	25.1	0.05	<1	0.9	20.5	<10	<2
612318	Soil	0.14	10.2	2.5	<0.05	1.2	24.27	42.4	0.04	<1	1.3	19.2	<10	<2
612319	Soil	0.47	13.4	2.1	<0.05	1.5	5.12	22.4	0.03	<1	1.1	23.5	<10	<2
612320	Soil	0.34	13.7	1.2	<0.05	1.5	3.73	13.1	0.04	<1	0.8	18.3	<10	<2
612321	Soil	0.25	19.5	2.5	<0.05	0.7	5.54	16.2	0.03	<1	1.3	18.3	<10	<2
612322	Soil	0.19	12.2	2.3	<0.05	0.6	6.27	26.7	0.03	<1	1.1	18.9	<10	<2
612323	Soil	0.20	12.5	2.9	<0.05	0.2	3.24	12.3	0.02	<1	0.7	11.8	<10	<2
612324	Soil	0.14	7.9	5.9	<0.05	0.2	5.48	16.5	0.04	<1	1.0	18.8	<10	<2
612325	Soil	0.57	15.2	4.8	<0.05	0.7	2.75	20.1	0.02	<1	0.5	14.3	<10	<2
612326	Soil	0.44	13.2	5.2	<0.05	0.2	5.70	17.0	0.02	1	0.5	18.6	<10	<2
612327	Soil	0.11	8.7	3.2	<0.05	1.3	11.17	22.4	0.03	2	1.1	27.9	<10	<2
612328	Soil	0.39	12.3	2.6	<0.05	2.3	2.64	11.0	0.03	<1	0.7	40.3	<10	<2
119675	Soil	0.05	14.2	3.2	<0.05	5.3	15.37	19.5	0.03	2	1.0	25.4	<10	<2
119676	Soil	0.05	11.1	3.7	<0.05	3.2	15.17	19.5	0.04	2	1.2	19.9	<10	3
119677	Soil	0.05	2.2	2.5	<0.05	0.9	4.65	6.2	<0.02	<1	0.2	1.8	<10	<2
119678	Soil	0.13	8.4	2.4	<0.05	1.3	14.31	19.9	0.02	<1	1.1	6.7	16	<2



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000918.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
121956	Soil	0.90	38.10	46.11	230.9	123	38.3	12.2	519	2.68	52.3	2.9	5.1	3.1	79.8	0.34	2.84	0.34	12	4.88	0.206
REP 121956	QC	0.96	38.56	47.81	244.8	143	39.1	12.9	520	2.77	54.7	3.0	8.5	3.2	83.7	0.35	2.93	0.37	13	5.07	0.214
121979	Soil	0.74	26.11	30.82	83.2	45	24.7	12.8	715	3.34	11.7	0.9	0.6	1.5	48.8	0.12	0.35	0.38	19	0.69	0.069
REP 121979	QC	0.67	23.77	28.36	76.6	40	22.0	11.9	644	3.14	10.6	0.8	0.5	1.6	44.2	0.12	0.33	0.34	19	0.63	0.070
121987	Soil	0.95	15.36	15.91	55.5	116	9.5	5.1	692	1.62	4.2	0.9	<0.2	0.2	11.3	0.25	0.44	0.33	25	0.10	0.117
REP 121987	QC	0.88	14.63	15.43	47.7	121	9.4	5.3	689	1.59	4.4	0.9	0.3	0.2	11.3	0.20	0.41	0.31	24	0.10	0.119
120679	Soil	0.56	35.20	48.70	118.1	300	36.4	14.2	322	4.11	7.8	0.8	0.6	2.7	85.9	0.13	0.36	0.45	11	1.15	0.071
REP 120679	QC	0.58	34.44	48.43	118.3	301	36.2	14.2	323	4.04	7.6	0.8	0.8	2.9	88.2	0.13	0.34	0.43	11	1.15	0.068
120697	Soil	1.93	30.23	29.16	73.0	259	22.9	9.4	366	2.94	28.7	1.3	4.7	1.6	40.8	0.28	2.18	0.30	23	0.66	0.075
REP 120697	QC	1.88	30.52	29.23	74.2	267	22.7	9.2	357	2.94	28.3	1.3	4.2	1.7	40.1	0.30	2.10	0.29	23	0.66	0.073
120719	Soil	0.97	40.71	28.09	143.6	112	34.6	16.2	436	3.33	12.2	0.8	5.4	4.1	75.2	0.16	0.64	0.22	17	0.87	0.057
REP 120719	QC	1.00	42.16	28.76	142.9	116	35.8	16.1	439	3.37	12.5	0.8	5.4	4.3	79.3	0.18	0.65	0.23	17	0.88	0.061
120725	Soil	0.70	27.31	29.58	71.9	126	24.1	9.3	417	2.47	13.2	4.6	2.7	1.4	103.8	0.22	0.54	0.28	15	1.65	0.070
REP 120725	QC	0.73	26.73	30.02	69.7	130	23.8	9.3	417	2.47	13.1	4.6	2.7	1.4	102.8	0.26	0.50	0.27	16	1.64	0.070
120826	Soil	0.85	45.85	27.56	113.5	117	35.3	15.1	371	3.57	11.1	1.2	2.6	3.8	44.8	0.17	0.61	0.30	20	0.81	0.065
REP 120826	QC	0.90	46.62	27.68	121.6	114	35.4	15.5	395	3.79	12.0	1.3	2.8	3.9	47.1	0.17	0.66	0.31	20	0.79	0.066
612458	Soil	0.88	35.45	33.41	133.1	140	36.9	13.7	578	3.03	54.2	1.6	6.1	2.8	39.1	0.32	1.71	0.25	25	0.75	0.083
REP 612458	QC	0.90	34.01	31.98	124.5	136	36.2	13.1	550	2.96	50.9	1.5	5.9	2.7	36.6	0.33	1.60	0.23	24	0.75	0.078
119815	Soil	0.84	36.70	27.04	93.5	120	34.9	15.4	262	3.28	15.2	1.1	2.2	4.4	53.4	0.19	0.59	0.35	21	0.59	0.046
REP 119815	QC	0.82	36.84	28.32	91.2	117	34.7	14.9	266	3.30	15.4	1.2	3.0	4.5	53.7	0.22	0.60	0.37	21	0.59	0.046
119835	Soil	0.96	27.67	21.63	71.4	81	22.8	9.8	429	2.92	13.5	1.8	1.8	1.4	58.8	0.12	0.49	0.33	24	0.66	0.082
REP 119835	QC	0.88	27.02	19.92	72.0	83	22.3	8.8	410	2.79	12.9	1.6	1.3	1.4	55.9	0.12	0.43	0.32	22	0.63	0.078
119843	Soil	1.11	33.97	54.29	109.4	84	36.3	21.7	800	4.21	18.3	0.9	1.9	2.8	42.4	0.11	0.76	0.31	23	0.10	0.043
REP 119843	QC	1.03	33.74	53.21	109.7	80	35.2	20.8	782	4.15	18.1	0.9	1.5	2.8	41.3	0.11	0.77	0.30	23	0.10	0.043
119978	Soil	0.82	39.44	28.42	98.7	294	31.9	15.3	637	4.32	10.4	1.4	1.6	3.2	42.9	0.19	0.50	0.35	19	0.72	0.090
REP 119978	QC	0.84	38.96	28.52	98.7	272	32.0	14.5	616	4.24	10.0	1.4	1.5	3.0	41.7	0.21	0.50	0.34	19	0.71	0.087
120910	Soil	1.05	37.22	37.17	112.8	130	32.1	19.8	747	4.20	25.8	0.9	1.9	1.9	24.5	0.15	1.53	0.39	24	0.19	0.083
REP 120910	QC	0.97	35.35	34.29	106.5	123	29.9	19.0	718	3.99	24.6	0.9	1.5	1.9	22.8	0.17	1.48	0.37	23	0.17	0.079

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: August 24, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000918.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
121956	Soil	10.8	13.6	1.18	122.3	0.004	3	0.76	0.007	0.08	0.2	2.8	0.17	0.03	628	0.8	0.14	1.7	0.64	<0.1	0.06
REP 121956	QC	11.3	13.7	1.23	126.5	0.004	3	0.79	0.007	0.09	0.2	3.1	0.18	0.03	677	0.8	0.15	1.9	0.70	<0.1	0.06
121979	Soil	4.8	21.4	0.36	97.4	0.004	2	1.16	0.002	0.06	<0.1	2.8	0.08	0.06	86	0.4	0.06	4.0	2.51	<0.1	0.03
REP 121979	QC	4.9	19.7	0.35	89.0	0.004	2	1.10	0.002	0.06	<0.1	2.9	0.08	0.05	76	0.2	0.06	3.8	2.57	<0.1	0.04
121987	Soil	6.6	21.9	0.14	71.2	0.003	3	0.82	0.005	0.08	<0.1	0.5	0.10	0.12	42	0.5	<0.02	3.6	5.33	0.1	<0.02
REP 121987	QC	6.5	20.8	0.13	68.8	0.003	3	0.81	0.005	0.08	<0.1	0.4	0.09	0.12	55	0.4	<0.02	3.4	5.39	<0.1	<0.02
120679	Soil	6.8	11.9	0.20	149.0	0.001	5	0.74	0.013	0.11	<0.1	4.9	0.18	0.12	150	0.9	0.08	1.8	2.51	<0.1	0.06
REP 120679	QC	6.7	11.9	0.20	147.7	0.001	3	0.74	0.013	0.11	<0.1	4.7	0.18	0.12	126	0.6	0.08	1.9	2.51	<0.1	0.06
120697	Soil	12.2	14.1	0.16	118.6	0.002	2	0.87	0.002	0.05	<0.1	4.4	0.17	0.03	1740	0.4	0.08	2.4	1.04	<0.1	0.03
REP 120697	QC	11.9	14.1	0.16	114.6	0.002	1	0.87	0.002	0.05	<0.1	4.5	0.16	0.04	1728	0.4	0.08	2.3	0.94	<0.1	0.04
120719	Soil	19.8	24.8	0.72	320.5	<0.001	2	0.84	0.003	0.08	<0.1	7.8	0.10	0.02	251	1.2	0.02	2.0	2.57	<0.1	0.06
REP 120719	QC	21.4	25.1	0.74	350.4	<0.001	3	0.87	0.003	0.08	<0.1	7.9	0.12	0.02	253	1.2	0.03	2.1	2.79	<0.1	0.06
120725	Soil	16.3	18.6	0.41	68.1	0.003	3	0.90	0.007	0.05	<0.1	3.3	0.08	0.08	411	0.8	0.04	2.5	1.14	<0.1	0.07
REP 120725	QC	16.3	18.5	0.41	70.7	0.003	3	0.91	0.007	0.05	<0.1	3.2	0.08	0.08	316	0.5	0.03	2.2	1.16	<0.1	0.05
120826	Soil	20.2	30.2	0.67	168.0	0.003	4	1.09	0.006	0.08	<0.1	7.5	0.10	0.06	167	1.7	0.05	3.1	3.19	<0.1	0.10
REP 120826	QC	23.9	30.3	0.67	183.1	0.005	3	1.09	0.006	0.10	<0.1	7.6	0.12	0.06	186	2.0	0.08	3.0	4.94	<0.1	0.09
612458	Soil	22.4	36.3	0.30	153.7	0.002	3	0.44	0.004	0.07	<0.1	5.9	0.13	0.05	926	1.5	<0.02	1.4	0.79	<0.1	0.11
REP 612458	QC	20.7	34.6	0.28	146.7	0.002	3	0.42	0.004	0.07	<0.1	5.6	0.12	0.05	863	1.4	<0.02	1.3	0.69	<0.1	0.08
119815	Soil	14.0	17.1	0.42	108.3	0.007	2	1.05	0.006	0.06	<0.1	5.9	0.07	0.03	99	0.4	0.05	3.0	1.09	<0.1	0.07
REP 119815	QC	14.3	18.3	0.41	103.5	0.007	2	1.05	0.006	0.06	<0.1	5.8	0.07	0.03	92	0.2	0.10	2.9	1.09	<0.1	0.07
119835	Soil	8.7	22.1	0.33	110.1	0.003	3	1.20	0.004	0.08	<0.1	3.0	0.11	0.06	113	0.5	0.06	3.6	2.06	<0.1	0.06
REP 119835	QC	8.1	20.0	0.30	103.6	0.003	2	1.10	0.004	0.06	<0.1	2.7	0.11	0.05	98	0.5	0.05	3.5	1.79	<0.1	0.05
119843	Soil	5.8	28.4	0.44	54.4	0.003	3	1.55	0.003	0.08	<0.1	3.3	0.11	0.03	179	0.3	0.05	3.5	7.00	<0.1	0.03
REP 119843	QC	5.7	28.9	0.43	54.2	0.003	2	1.52	0.002	0.07	<0.1	3.2	0.11	0.03	160	0.4	0.06	3.4	6.72	<0.1	0.05
119978	Soil	7.8	17.1	0.23	110.6	0.002	2	0.85	0.003	0.06	<0.1	7.5	0.09	0.05	80	0.6	0.08	2.2	2.37	<0.1	0.09
REP 119978	QC	7.6	16.7	0.23	106.6	0.002	2	0.86	0.003	0.06	<0.1	7.3	0.09	0.05	81	0.7	0.09	2.3	2.50	<0.1	0.09
120910	Soil	7.5	26.3	0.42	65.9	0.005	3	1.21	0.002	0.11	<0.1	3.3	0.10	0.03	199	0.3	0.14	3.9	7.98	<0.1	0.02
REP 120910	QC	6.8	24.6	0.40	61.8	0.005	3	1.17	0.002	0.10	<0.1	3.1	0.09	0.03	169	0.2	0.13	3.7	7.48	<0.1	0.02

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 1 of 2 Part 3

QUALITY CONTROL REPORT

WHI11000918.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
121956	Soil	0.19	4.0	2.5	<0.05	3.4	17.24	25.1	0.02	<1	0.7	6.8	<10	<2
REP 121956	QC	0.22	4.4	2.8	<0.05	3.3	17.56	26.4	0.02	<1	0.8	7.1	<10	<2
121979	Soil	0.39	7.4	4.7	<0.05	2.0	4.88	16.8	0.03	<1	1.0	26.4	<10	<2
REP 121979	QC	0.36	7.4	4.8	<0.05	1.8	4.63	16.6	0.04	<1	0.9	25.1	<10	<2
121987	Soil	0.12	14.4	5.2	<0.05	0.1	2.39	12.4	<0.02	<1	<0.1	5.1	<10	<2
REP 121987	QC	0.13	14.7	4.7	<0.05	0.5	2.28	12.1	<0.02	<1	0.7	5.6	<10	<2
120679	Soil	0.09	8.1	2.4	<0.05	2.3	18.15	15.8	0.05	<1	1.1	17.8	10	<2
REP 120679	QC	0.09	8.2	2.2	<0.05	2.4	18.24	15.8	0.07	<1	1.0	19.5	<10	<2
120697	Soil	0.18	7.3	10.0	<0.05	1.8	14.26	27.9	0.04	<1	0.9	9.1	<10	<2
REP 120697	QC	0.19	6.9	10.9	<0.05	1.7	14.29	27.7	0.04	<1	1.0	9.4	<10	<2
120719	Soil	0.08	5.6	7.9	<0.05	4.1	18.75	44.1	0.03	<1	0.9	16.5	<10	<2
REP 120719	QC	0.09	6.0	7.9	<0.05	4.2	19.47	46.3	0.04	<1	0.9	17.1	<10	<2
120725	Soil	0.20	6.3	8.1	<0.05	1.8	17.98	29.6	<0.02	<1	1.0	19.9	<10	<2
REP 120725	QC	0.24	6.0	8.2	<0.05	1.7	17.93	29.0	0.02	<1	1.6	19.6	<10	<2
120826	Soil	0.19	7.0	3.7	<0.05	3.6	20.61	34.6	0.03	<1	1.0	20.6	11	<2
REP 120826	QC	0.19	9.3	3.5	<0.05	3.6	21.88	41.4	0.03	<1	1.0	24.4	<10	<2
612458	Soil	0.09	4.7	8.7	<0.05	3.1	20.46	43.7	0.04	<1	1.1	6.0	<10	<2
REP 612458	QC	0.11	4.1	8.3	<0.05	3.0	19.28	40.2	0.03	<1	0.9	5.7	<10	<2
119815	Soil	0.30	5.8	1.7	<0.05	2.4	18.65	25.6	0.03	<1	1.0	27.1	<10	<2
REP 119815	QC	0.30	5.7	2.0	<0.05	2.6	18.45	26.0	0.04	1	0.9	27.0	<10	<2
119835	Soil	0.24	10.8	5.5	<0.05	1.5	7.47	17.9	<0.02	<1	0.8	21.0	<10	<2
REP 119835	QC	0.27	10.2	4.6	<0.05	1.3	7.10	16.3	0.03	<1	0.9	17.1	<10	<2
119843	Soil	0.18	8.6	7.6	<0.05	1.5	5.88	14.0	0.02	<1	1.4	39.1	<10	<2
REP 119843	QC	0.19	8.5	7.5	<0.05	1.4	5.72	13.3	0.03	<1	1.0	39.3	<10	<2
119978	Soil	0.17	6.5	1.7	<0.05	3.2	23.19	17.9	0.05	<1	1.2	16.8	<10	<2
REP 119978	QC	0.18	6.8	2.0	<0.05	2.9	22.45	17.5	0.05	<1	1.0	17.0	<10	2
120910	Soil	0.22	13.3	5.8	<0.05	0.7	5.74	18.8	0.04	1	1.5	28.2	<10	2
REP 120910	QC	0.22	12.7	5.5	<0.05	0.8	5.45	17.8	0.03	4	1.2	25.8	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000918.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
119985	Soil	0.63	29.18	36.37	93.3	67	27.4	13.2	496	3.80	12.3	0.6	0.6	2.0	24.1	0.09	0.44	0.36	23	0.19	0.064
REP 119985	QC	0.60	28.90	37.15	88.8	69	26.7	13.3	493	3.72	12.1	0.6	0.4	1.9	24.6	0.08	0.43	0.36	23	0.19	0.064
612339	Soil	0.76	24.12	20.65	100.6	184	25.7	10.4	485	2.60	11.9	3.1	2.6	2.0	95.6	0.46	0.49	0.26	20	1.26	0.089
REP 612339	QC	0.76	24.27	20.60	100.7	183	25.1	10.6	492	2.66	12.1	3.2	2.6	2.1	96.6	0.46	0.50	0.26	21	1.28	0.090
612314	Soil	1.07	46.92	31.01	100.9	213	39.0	15.8	893	4.94	14.4	1.4	1.1	7.8	53.7	0.20	0.37	0.45	19	0.60	0.119
REP 612314	QC	1.01	45.48	31.30	103.1	200	38.2	15.8	843	4.85	14.1	1.4	1.1	7.7	54.2	0.19	0.37	0.43	18	0.59	0.112
612324	Soil	0.69	33.58	32.18	97.5	88	34.5	15.7	514	4.09	16.2	0.7	8.6	2.5	28.5	0.07	0.53	0.44	28	0.05	0.037
REP 612324	QC	0.66	33.51	31.86	98.5	90	35.2	16.1	503	4.08	15.9	0.7	3.4	2.5	30.5	0.09	0.54	0.45	28	0.05	0.037
Reference Materials																					
STD DS8	Standard	12.98	112.3	129.1	325.7	1665	38.5	7.7	585	2.42	22.9	2.9	100.4	7.3	64.7	2.14	5.13	6.85	41	0.72	0.070
STD DS8	Standard	13.04	112.0	121.2	319.8	1664	38.0	7.7	592	2.38	22.9	2.5	101.3	6.7	62.9	2.17	5.46	6.41	39	0.69	0.073
STD DS8	Standard	13.47	111.5	128.8	321.6	1663	39.0	7.4	587	2.39	23.0	2.9	102.9	7.5	68.3	2.22	5.46	6.72	40	0.70	0.072
STD DS8	Standard	13.43	112.4	125.1	316.1	1769	38.0	7.8	610	2.49	25.9	2.9	120.8	7.3	72.3	2.26	5.35	6.76	42	0.75	0.081
STD DS8	Standard	11.29	101.7	129.3	299.8	1673	35.0	6.5	577	2.34	22.7	2.4	111.6	6.1	52.2	2.10	4.80	6.17	34	0.63	0.075
STD DS8	Standard	12.12	102.7	124.3	306.8	1732	35.9	6.9	603	2.35	22.7	2.5	108.8	6.4	56.9	2.19	5.30	5.86	38	0.68	0.076
STD DS8	Standard	13.71	111.3	130.4	327.8	1661	38.7	7.3	588	2.43	23.8	2.9	107.2	7.1	68.1	2.24	5.70	6.92	40	0.72	0.073
STD DS8	Standard	12.53	111.3	113.6	314.2	1727	38.4	8.0	586	2.37	24.0	2.4	104.1	6.0	61.7	2.36	4.97	6.08	40	0.69	0.074
STD DS8	Standard	13.75	110.9	138.7	325.0	1947	39.5	7.8	637	2.55	27.1	3.2	127.9	8.3	75.2	2.63	6.25	7.65	44	0.78	0.083
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000918.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
119985	Soil	6.4	18.7	0.20	108.4	0.003	<1	1.07	0.002	0.07	<0.1	2.8	0.10	0.03	71	0.1	0.05	3.3	3.80	<0.1	0.04
REP 119985	QC	6.5	18.8	0.20	111.2	0.003	1	1.05	0.002	0.07	<0.1	2.8	0.10	0.03	66	<0.1	0.03	3.5	3.84	<0.1	0.03
612339	Soil	14.7	22.0	0.50	132.3	0.005	2	1.22	0.004	0.06	<0.1	2.8	0.09	0.05	278	0.3	0.06	3.3	1.18	<0.1	0.05
REP 612339	QC	15.5	22.8	0.51	134.2	0.006	3	1.27	0.004	0.06	<0.1	3.0	0.09	0.05	292	0.4	<0.02	3.5	1.25	<0.1	0.05
612314	Soil	9.7	13.0	0.20	130.9	0.002	3	0.76	0.004	0.10	<0.1	9.3	0.17	0.02	91	0.5	0.13	2.1	1.89	0.1	0.08
REP 612314	QC	10.0	12.7	0.20	133.6	0.002	3	0.76	0.004	0.10	<0.1	8.7	0.17	0.02	88	0.4	0.09	2.3	1.99	<0.1	0.07
612324	Soil	7.9	18.0	0.20	60.2	0.006	<1	0.83	0.002	0.07	<0.1	3.5	0.08	<0.02	68	0.3	0.06	2.6	7.11	<0.1	<0.02
REP 612324	QC	7.9	17.3	0.20	62.0	0.006	<1	0.83	0.002	0.07	<0.1	3.6	0.08	<0.02	69	0.2	0.03	2.6	7.21	<0.1	<0.02
Reference Materials																					
STD DS8	Standard	15.5	120.4	0.61	266.1	0.121	2	0.93	0.089	0.42	2.8	2.1	5.27	0.16	187	5.0	4.80	4.6	2.32	<0.1	0.08
STD DS8	Standard	15.5	122.4	0.60	268.6	0.121	2	0.92	0.092	0.41	2.7	2.1	5.04	0.15	201	5.1	4.80	4.5	2.34	0.1	0.06
STD DS8	Standard	16.8	118.4	0.58	263.6	0.119	2	0.94	0.110	0.42	2.6	2.2	5.31	0.15	209	5.0	4.87	4.4	2.37	<0.1	0.08
STD DS8	Standard	17.2	119.8	0.62	287.3	0.124	2	0.96	0.096	0.42	3.0	2.3	5.61	0.16	212	5.0	5.11	4.6	2.50	<0.1	0.10
STD DS8	Standard	11.9	116.0	0.57	227.6	0.087	2	0.90	0.100	0.42	2.7	2.0	5.56	0.15	200	5.1	4.78	4.3	2.16	<0.1	0.05
STD DS8	Standard	14.5	124.4	0.59	240.3	0.097	2	0.88	0.086	0.40	2.9	2.1	5.65	0.15	212	4.9	4.98	4.5	2.26	<0.1	0.04
STD DS8	Standard	16.8	118.9	0.61	268.0	0.120	4	0.95	0.103	0.42	3.0	2.2	5.49	0.16	225	5.1	5.35	4.7	2.40	<0.1	0.07
STD DS8	Standard	14.9	116.1	0.60	256.3	0.119	3	0.90	0.088	0.41	2.7	2.1	5.07	0.16	171	4.9	5.00	4.5	2.40	<0.1	0.08
STD DS8	Standard	18.4	119.8	0.66	309.7	0.121	2	1.01	0.095	0.44	3.2	2.5	5.83	0.17	230	5.1	5.41	5.1	2.60	0.1	0.11
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 24, 2011

Page: 2 of 2 Part 3

QUALITY CONTROL REPORT

WHI11000918.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
119985	Soil	0.19	10.9	4.2	<0.05	1.1	8.31	17.4	0.03	<1	0.9	21.5	<10	<2
REP 119985	QC	0.17	11.2	4.8	<0.05	1.1	8.24	18.1	0.03	<1	0.8	21.2	<10	<2
612339	Soil	0.30	9.9	3.1	<0.05	2.4	9.38	26.1	<0.02	<1	1.0	26.3	<10	<2
REP 612339	QC	0.33	10.5	3.4	<0.05	2.0	9.99	27.0	0.04	<1	1.1	27.7	<10	<2
612314	Soil	0.08	8.0	1.6	<0.05	4.9	25.63	28.3	0.05	1	1.2	15.2	<10	<2
REP 612314	QC	0.07	8.0	1.9	<0.05	4.9	24.78	28.6	0.05	2	1.7	15.2	<10	<2
612324	Soil	0.14	7.9	5.9	<0.05	0.2	5.48	16.5	0.04	<1	1.0	18.8	<10	<2
REP 612324	QC	0.15	8.1	5.8	<0.05	0.2	5.53	16.9	0.04	<1	0.9	17.9	<10	<2
Reference Materials														
STD DS8	Standard	1.31	36.1	6.5	<0.05	1.8	5.92	26.7	2.12	44	5.6	24.1	122	350
STD DS8	Standard	1.22	37.6	6.4	<0.05	1.8	5.80	26.4	2.24	49	4.6	24.8	117	319
STD DS8	Standard	1.39	36.8	6.6	<0.05	2.1	6.11	28.7	2.11	59	4.5	26.3	115	326
STD DS8	Standard	1.33	38.8	6.8	<0.05	2.3	6.37	30.1	2.22	48	5.8	26.5	117	357
STD DS8	Standard	1.02	37.4	6.2	<0.05	1.6	4.70	23.7	1.97	58	4.9	25.2	118	344
STD DS8	Standard	1.25	37.1	6.1	<0.05	1.9	5.81	29.4	2.10	50	5.1	26.4	115	327
STD DS8	Standard	1.28	38.2	6.7	<0.05	1.8	6.29	28.3	2.26	72	5.5	25.1	112	347
STD DS8	Standard	1.30	37.4	6.2	<0.05	2.0	5.81	26.4	2.08	49	4.8	26.9	105	331
STD DS8	Standard	1.50	40.2	7.5	<0.05	2.4	6.86	33.1	2.13	70	4.9	28.7	123	402
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: July 28, 2011
Report Date: August 27, 2011
Page: 1 of 10

CERTIFICATE OF ANALYSIS

WHI11000919.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-15
P.O. Number: NA-10337
Number of Samples: 246

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	246	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	246	Dry at 60C			WHI
1F05	244	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
RJSV	246	Saving all or part of Soil Reject			WHI

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: David Clark
database backup
Simon Ridgway
Scott Turton



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 2 of 10 Part 1

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
119679	Soil	1.10	45.20	117.1	375.8	290	40.8	13.8	421	2.88	42.7	4.3	11.6	2.7	76.7	0.62	2.77	0.53	14	4.00	0.285
119680	Soil	0.63	20.30	74.92	225.8	132	27.8	12.9	857	2.11	62.2	2.1	15.9	1.7	53.0	0.54	3.62	0.28	10	6.80	0.109
119681	Soil	1.00	32.71	143.1	227.7	174	38.2	14.5	410	2.73	23.1	1.2	3.1	4.2	98.6	0.29	1.34	0.43	9	2.74	0.080
119682	Soil	0.99	29.99	70.84	205.8	162	32.8	11.1	467	2.80	29.6	1.1	2.7	3.8	77.6	0.40	1.44	0.38	13	1.97	0.095
119683	Soil	0.82	34.92	82.84	229.2	222	42.9	16.3	620	3.37	32.2	1.0	2.3	4.9	70.5	0.30	1.51	0.41	12	1.10	0.093
119684	Soil	1.05	35.90	90.43	137.2	236	42.8	16.2	549	3.73	12.6	0.9	1.8	4.4	135.1	0.19	0.56	0.42	10	1.89	0.076
119685	Soil	0.87	38.42	76.74	129.9	313	39.7	15.1	425	4.07	9.4	0.7	1.3	5.1	84.6	0.15	0.41	0.47	13	0.97	0.069
119685	Soil	0.67	33.55	50.72	95.7	221	28.0	13.9	451	3.91	5.7	0.6	0.9	3.0	19.8	0.11	0.41	0.29	13	0.05	0.053
119686	Soil	0.89	33.34	72.31	105.8	210	28.9	21.2	1195	3.99	9.4	0.7	1.3	2.9	15.9	0.10	0.53	0.43	17	0.08	0.074
119687	Soil	1.11	40.27	38.43	101.7	225	29.1	17.4	843	3.89	9.4	1.1	1.3	4.9	36.2	0.22	0.50	0.36	19	0.31	0.109
119688	Soil	0.83	33.32	43.09	86.3	290	23.8	11.9	430	3.72	8.6	1.6	0.8	2.5	49.0	0.14	0.56	0.36	18	0.83	0.095
119689	Soil	0.65	38.43	38.43	102.0	236	32.6	14.0	426	4.09	11.1	1.0	0.7	4.7	43.9	0.10	0.48	0.39	17	0.43	0.056
119870	Soil	0.53	35.95	42.88	96.2	266	29.5	12.2	524	4.19	10.4	2.2	1.8	2.9	85.5	0.14	0.50	0.35	21	0.95	0.094
120658	Soil	0.75	17.52	18.40	56.1	49	20.3	8.4	403	2.28	9.2	1.8	0.8	2.5	64.4	0.13	0.36	0.23	27	0.92	0.149
120659	Soil	0.83	36.01	31.68	110.2	122	35.3	15.3	452	3.31	27.5	1.1	2.9	4.7	29.3	0.22	1.08	0.32	27	0.39	0.066
120660	Soil	0.70	29.17	23.41	74.5	77	28.3	11.1	293	2.30	21.4	1.3	3.3	6.3	249.4	0.16	0.80	0.24	17	7.07	0.094
120661	Soil	0.71	36.29	30.69	99.7	74	37.5	13.4	295	2.64	20.7	1.2	2.8	6.3	69.3	0.19	0.88	0.32	16	2.39	0.100
120662	Soil	0.82	28.60	27.92	82.4	101	25.1	10.7	426	3.12	23.8	1.6	1.6	2.1	56.4	0.27	0.60	0.29	18	0.77	0.076
119686	Soil	0.56	32.46	44.19	104.8	169	34.2	14.7	459	3.76	7.9	0.5	0.5	4.5	39.6	0.11	0.37	0.39	10	0.40	0.052
119687	Soil	0.65	30.52	49.60	93.2	248	26.6	8.7	283	3.51	6.7	0.9	1.0	1.9	64.3	0.11	0.34	0.41	11	0.71	0.078
119688	Soil	0.68	25.40	45.43	89.8	168	23.1	10.4	394	3.41	5.4	0.7	0.6	2.0	19.0	0.12	0.37	0.38	14	0.09	0.077
119689	Soil	0.69	36.50	63.80	111.1	221	35.8	19.1	513	4.01	12.8	0.7	0.9	2.7	25.3	0.09	0.47	0.40	13	0.13	0.054
119690	Soil	0.91	36.10	110.1	100.3	144	29.7	19.6	740	3.37	10.6	0.8	1.1	1.9	26.3	0.16	0.52	0.41	16	0.23	0.084
119691	Soil	1.74	33.81	105.9	103.9	346	29.9	18.5	1012	3.96	13.3	0.9	2.6	0.5	10.7	0.16	0.87	0.36	22	0.08	0.118
119692	Soil	1.01	41.67	49.45	105.7	290	33.8	15.0	520	4.53	9.2	1.2	1.1	4.3	38.3	0.12	0.49	0.37	18	0.44	0.098
119693	Soil	1.24	26.19	36.63	105.2	115	23.9	16.5	758	4.28	12.4	1.2	0.5	3.1	36.0	0.26	0.49	0.33	24	0.48	0.097
119694	Soil	0.63	29.71	38.13	87.2	248	25.4	11.7	578	3.55	8.7	1.8	1.0	1.9	113.1	0.16	0.44	0.33	20	1.49	0.113
119695	Soil	0.92	25.19	24.08	79.1	27	26.7	10.8	269	3.23	10.1	0.5	<0.2	2.0	33.6	0.09	0.58	0.27	28	0.30	0.038
119696	Soil	0.72	28.25	26.53	93.1	205	23.3	8.5	343	2.74	7.9	1.0	1.5	1.5	72.6	0.18	0.42	0.32	21	0.77	0.110
119697	Soil	1.04	20.91	24.87	69.1	51	16.4	6.7	273	2.72	7.7	0.6	0.5	0.4	8.1	0.10	0.58	0.32	31	0.04	0.083



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 2 of 10 Part 2

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
119679	Soil	13.0	11.9	1.26	75.2	0.002	3	0.66	0.006	0.10	<0.1	1.9	0.17	0.07	725	0.9	0.35	1.9	0.80	<0.1	0.12
119680	Soil	6.0	12.0	3.37	158.4	0.002	3	0.47	0.007	0.07	0.1	2.7	0.24	0.08	894	0.5	0.03	1.2	0.98	<0.1	0.09
119681	Soil	7.3	12.6	0.45	175.2	0.002	3	0.43	0.003	0.11	<0.1	4.0	0.22	0.06	293	0.6	0.05	1.3	3.05	<0.1	0.08
119682	Soil	11.7	18.5	0.70	125.4	0.003	5	0.72	0.005	0.11	<0.1	4.1	0.18	0.04	288	0.6	0.07	2.0	2.29	<0.1	0.06
119683	Soil	9.0	17.2	0.29	160.5	0.002	3	0.79	0.009	0.13	<0.1	4.1	0.22	0.06	364	0.5	0.04	2.0	2.12	<0.1	0.11
119684	Soil	7.8	16.8	0.23	159.9	<0.001	3	0.61	0.010	0.09	<0.1	5.0	0.16	0.14	126	0.8	0.05	1.4	1.37	<0.1	0.11
119685	Soil	8.1	18.0	0.27	128.6	<0.001	3	0.75	0.005	0.07	<0.1	6.1	0.14	0.09	72	0.6	0.07	2.0	1.68	<0.1	0.09
119865	Soil	2.7	13.3	0.12	63.1	0.002	1	0.77	0.005	0.06	<0.1	3.9	0.14	0.06	44	0.4	0.05	2.1	5.70	<0.1	0.04
119866	Soil	3.9	16.2	0.21	89.9	0.003	1	1.02	0.006	0.07	<0.1	5.2	0.20	0.04	50	0.5	0.07	2.7	5.17	<0.1	0.02
119867	Soil	6.8	14.1	0.17	95.1	0.002	2	0.66	0.005	0.07	<0.1	6.2	0.08	0.02	44	0.5	0.07	2.0	2.38	<0.1	0.03
119868	Soil	7.0	16.6	0.16	100.8	0.002	1	0.73	0.002	0.05	<0.1	5.9	0.09	0.06	55	0.6	0.06	2.2	3.34	<0.1	0.05
119869	Soil	10.5	18.4	0.27	109.1	0.001	1	1.05	0.001	0.06	<0.1	8.0	0.08	0.03	58	0.7	0.07	2.9	2.43	<0.1	0.08
119870	Soil	14.5	19.6	0.28	176.9	0.002	2	1.20	0.002	0.06	<0.1	7.3	0.10	0.07	80	0.8	0.07	3.3	1.94	<0.1	0.09
120658	Soil	16.0	44.1	1.03	195.7	0.004	<1	1.43	0.001	0.04	<0.1	2.8	0.10	0.09	49	0.7	0.04	5.0	0.64	<0.1	0.10
120659	Soil	20.8	34.2	0.71	135.2	0.005	1	1.18	0.002	0.06	<0.1	5.4	0.09	0.02	460	0.6	0.03	3.5	1.63	<0.1	0.07
120660	Soil	16.2	26.6	1.75	52.3	0.004	2	0.63	0.007	0.06	<0.1	4.8	0.07	<0.02	335	0.9	0.04	2.1	1.33	<0.1	0.06
120661	Soil	18.7	27.0	1.32	50.4	0.002	2	0.73	0.005	0.07	<0.1	5.5	0.08	0.02	472	0.7	0.02	2.5	1.75	<0.1	0.06
120662	Soil	17.9	16.0	0.26	70.1	0.002	1	0.83	0.003	0.05	<0.1	5.0	0.06	0.05	676	0.5	0.02	2.0	0.62	<0.1	0.07
119686	Soil	4.6	9.1	0.18	70.5	0.001	2	0.59	0.005	0.07	<0.1	4.3	0.13	0.05	90	0.5	0.06	1.5	1.56	<0.1	0.05
119687	Soil	4.3	13.0	0.14	108.1	<0.001	1	0.73	0.007	0.07	<0.1	3.9	0.13	0.10	81	0.6	0.06	1.9	2.34	<0.1	0.08
119688	Soil	2.6	13.5	0.13	91.7	0.001	2	0.84	0.003	0.08	<0.1	3.6	0.13	0.05	41	0.3	0.05	2.5	3.33	<0.1	0.04
119689	Soil	2.9	14.3	0.17	105.8	0.002	1	0.87	0.008	0.07	<0.1	4.7	0.12	0.06	50	0.4	0.05	2.4	4.37	<0.1	0.05
119690	Soil	4.4	20.1	0.25	129.5	0.003	3	1.15	0.005	0.10	<0.1	4.8	0.16	0.07	55	0.4	0.09	2.9	5.78	<0.1	0.03
119691	Soil	3.9	28.5	0.22	78.4	0.005	2	0.91	0.005	0.08	<0.1	2.3	0.11	0.09	93	0.5	0.03	3.0	5.87	<0.1	0.03
119692	Soil	8.2	17.8	0.17	100.0	0.002	3	0.70	0.002	0.07	<0.1	8.7	0.08	0.03	78	0.7	0.04	2.1	3.70	<0.1	0.08
119693	Soil	8.7	20.9	0.28	110.7	0.002	1	1.24	0.002	0.05	<0.1	5.3	0.08	0.04	31	0.4	0.06	3.5	1.61	<0.1	0.05
119694	Soil	10.5	18.5	0.25	180.6	0.002	2	1.18	0.004	0.05	<0.1	5.0	0.10	0.11	64	0.5	0.05	3.1	2.25	<0.1	0.07
119695	Soil	5.2	19.7	0.29	122.3	0.003	<1	1.23	0.002	0.05	<0.1	2.6	0.11	<0.02	11	0.2	0.05	3.5	1.97	<0.1	0.04
119696	Soil	8.0	18.7	0.23	130.1	0.002	1	1.10	0.003	0.07	<0.1	2.7	0.11	0.07	80	0.6	0.05	3.2	5.80	<0.1	0.08
119697	Soil	5.2	16.2	0.12	65.1	0.004	1	0.99	0.001	0.06	<0.1	0.9	0.10	0.06	33	0.2	0.05	4.1	2.15	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 2 of 10 Part 3

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
119679	Soil	0.14	4.4	12.3	<0.05	3.6	19.26	21.0	0.02	1	0.9	5.5	33	<2
119680	Soil	0.10	3.5	12.7	<0.05	3.1	12.01	13.7	<0.02	<1	0.4	4.2	18	<2
119681	Soil	0.09	8.8	>100	<0.05	2.3	10.84	20.7	<0.02	1	0.7	5.3	18	<2
119682	Soil	0.16	9.0	34.2	<0.05	3.0	14.19	25.8	<0.02	1	0.8	12.7	15	<2
119683	Soil	0.11	8.4	55.7	<0.05	3.7	12.95	23.0	<0.02	<1	1.0	10.9	18	<2
119684	Soil	0.06	5.5	52.9	<0.05	3.9	18.17	21.8	<0.02	<1	0.6	12.8	<10	<2
119685	Soil	0.07	5.6	41.6	<0.05	4.0	19.73	20.4	<0.02	<1	1.3	24.1	<10	<2
119865	Soil	0.09	6.5	6.0	<0.05	1.2	6.98	6.4	0.05	1	0.9	21.9	<10	<2
119866	Soil	0.08	9.1	6.1	<0.05	0.8	9.63	11.3	0.04	2	0.8	25.4	12	<2
119867	Soil	0.06	5.9	6.8	<0.05	1.4	16.23	17.8	0.03	<1	1.0	12.3	<10	<2
119868	Soil	0.19	8.1	14.4	<0.05	2.1	28.37	11.8	0.02	<1	0.9	11.6	<10	<2
119869	Soil	0.13	6.2	5.0	<0.05	3.3	24.30	23.3	0.05	<1	1.0	30.4	<10	<2
119870	Soil	0.27	7.3	13.0	<0.05	2.6	29.32	26.5	0.02	<1	1.4	24.5	<10	<2
120658	Soil	0.33	7.1	4.9	<0.05	2.8	9.52	36.4	<0.02	<1	1.0	30.9	<10	<2
120659	Soil	0.25	6.1	11.4	<0.05	3.0	13.64	41.7	<0.02	<1	0.8	23.0	<10	<2
120660	Soil	0.11	4.0	7.3	<0.05	4.0	13.22	33.1	<0.02	1	0.6	15.4	<10	<2
120661	Soil	0.10	4.6	13.6	<0.05	3.1	13.47	36.8	<0.02	<1	1.1	17.8	<10	<2
120662	Soil	0.15	5.0	9.1	<0.05	1.8	20.86	31.4	0.02	1	1.1	13.3	<10	<2
119686	Soil	0.03	5.1	11.3	<0.05	2.8	11.74	14.0	<0.02	<1	0.9	16.1	<10	<2
119687	Soil	0.09	7.0	11.8	<0.05	2.9	14.51	9.2	<0.02	<1	0.8	14.5	<10	<2
119688	Soil	0.08	8.7	12.9	<0.05	1.4	6.47	6.7	0.02	<1	0.9	15.4	<10	<2
119689	Soil	0.06	6.9	9.1	<0.05	1.9	9.41	7.9	0.02	<1	1.2	28.6	10	<2
119690	Soil	0.14	11.4	87.9	<0.05	1.1	9.32	11.3	<0.02	<1	1.0	32.2	10	<2
119691	Soil	0.12	11.8	70.9	<0.05	0.5	6.63	9.5	<0.02	<1	0.9	15.1	<10	<2
119692	Soil	0.10	6.7	21.2	<0.05	2.2	30.25	14.6	<0.02	<1	1.4	13.6	<10	<2
119693	Soil	0.14	10.4	7.1	<0.05	1.2	17.93	36.0	0.05	<1	1.2	30.4	<10	<2
119694	Soil	0.33	7.9	13.0	<0.05	2.3	21.98	20.6	0.03	<1	1.5	19.6	<10	<2
119695	Soil	0.25	8.9	5.8	<0.05	1.6	3.88	12.2	0.02	<1	0.9	21.5	<10	<2
119696	Soil	0.31	14.9	10.0	<0.05	2.1	14.32	15.5	<0.02	<1	1.1	20.6	<10	<2
119697	Soil	0.28	13.7	8.2	<0.05	0.4	2.95	11.5	<0.02	<1	0.4	7.9	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 3 of 10 Part 1

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
119698	Soil	0.85	22.79	24.97	79.1	42	20.1	8.7	414	3.26	9.7	0.6	0.7	0.7	14.2	0.17	0.54	0.32	27	0.11	0.072
119699	Soil	0.75	21.68	24.95	66.1	66	18.5	7.9	307	2.77	9.1	0.5	0.6	1.1	6.2	0.09	0.44	0.28	21	0.03	0.063
119700	Soil	1.04	39.53	64.69	99.3	120	33.4	17.6	799	4.18	19.3	0.6	0.8	3.0	18.4	0.08	0.55	0.37	20	0.10	0.032
119851	Soil	0.59	35.38	44.50	124.8	263	47.4	23.5	586	3.88	8.9	0.8	0.5	5.6	33.8	0.12	0.30	0.37	11	0.28	0.056
119852	Soil	0.60	36.25	46.41	110.1	254	41.0	18.4	467	3.63	10.0	0.6	1.3	5.7	43.1	0.12	0.56	0.42	11	0.37	0.050
119853	Soil	0.14	5.13	14.32	119.0	29	4.1	1.8	537	0.79	19.9	0.6	6.4	0.5	59.0	0.23	1.16	0.08	3	10.93	0.060
119854	Soil	0.18	5.59	18.91	83.1	33	5.3	2.6	679	0.93	44.6	1.4	18.9	0.6	67.9	0.13	2.60	0.06	4	18.65	0.106
119855	Soil	0.50	15.70	54.55	248.3	91	17.9	9.9	719	2.11	122.3	1.5	15.4	1.4	51.1	0.34	2.77	0.22	12	8.96	0.154
119856	Soil	0.45	18.26	34.86	282.0	92	21.4	6.7	581	1.86	57.5	2.8	11.1	1.4	162.1	0.42	2.74	0.17	12	14.46	0.174
119857	Soil	0.84	28.38	54.57	236.5	223	32.4	8.2	216	2.52	24.8	1.7	4.5	3.6	164.2	0.35	1.38	0.31	11	4.01	0.107
119858	Soil	0.65	18.67	34.34	370.2	139	21.2	6.4	567	2.09	34.1	1.7	3.1	1.7	110.4	0.70	1.57	0.20	14	9.20	0.139
119859	Soil	0.43	23.23	32.43	204.6	103	30.7	12.5	556	2.69	29.1	1.1	1.6	3.7	252.1	0.29	1.13	0.28	11	6.83	0.077
119860	Soil	0.55	26.02	37.24	215.8	136	35.0	13.3	558	3.04	29.0	1.2	1.4	4.5	174.9	0.24	1.02	0.33	12	4.64	0.079
119861	Soil	0.58	34.47	43.27	141.0	248	45.0	17.6	522	4.39	9.1	0.8	0.9	6.6	51.8	0.15	0.36	0.44	12	0.36	0.073
119862	Soil	0.74	35.74	48.86	134.6	284	43.9	16.3	519	3.89	11.8	0.8	1.1	6.5	66.8	0.15	0.43	0.43	9	0.78	0.064
119863	Soil	0.70	37.92	57.98	128.2	299	37.7	14.8	621	4.82	8.4	1.1	0.8	3.2	31.5	0.15	0.40	0.48	16	0.28	0.083
120651	Soil	1.05	22.00	37.15	73.6	150	20.4	9.3	574	3.63	12.4	0.7	0.8	0.5	14.8	0.10	0.43	0.36	34	0.13	0.107
120652	Soil	0.65	30.40	31.95	101.4	62	30.7	13.1	370	4.69	14.3	0.6	1.1	2.2	10.2	0.11	0.39	0.40	28	0.02	0.041
120653	Soil	0.88	23.11	22.90	79.0	29	15.8	11.9	869	3.29	12.2	0.4	0.9	1.6	36.0	0.09	0.39	0.40	36	0.38	0.046
120654	Soil	0.84	26.62	25.66	83.4	25	19.4	11.0	967	4.15	19.4	0.5	1.2	1.8	19.2	0.06	0.44	0.42	33	0.12	0.052
120655	Soil	1.39	19.54	53.62	59.1	58	14.4	12.1	1379	3.56	11.6	1.2	1.2	0.2	33.3	0.08	0.60	0.37	42	0.35	0.093
120656	Soil	0.97	26.88	16.82	83.4	283	21.1	7.6	361	2.83	13.0	3.6	6.3	2.6	65.4	0.19	0.41	0.21	20	0.92	0.086
120657	Soil	1.19	35.71	23.92	73.2	353	22.3	9.2	540	2.64	17.6	39.1	4.6	0.6	128.7	0.17	0.83	0.24	25	1.99	0.161
120663	Soil	0.77	23.77	22.54	72.1	128	22.5	9.5	527	3.22	13.8	4.9	1.3	1.5	60.6	0.18	0.40	0.27	26	0.90	0.099
120664	Soil	1.20	26.03	27.13	73.9	81	22.8	9.9	450	3.33	26.9	2.2	1.5	1.5	19.7	0.08	0.70	0.29	29	0.24	0.089
120665	Soil	1.22	20.98	19.00	78.6	79	21.1	8.2	435	3.09	32.3	3.1	0.9	1.4	43.9	0.14	0.61	0.31	32	0.69	0.185
118357	Soil	0.74	37.58	51.19	137.0	345	42.9	16.0	406	4.53	8.4	0.8	0.9	4.4	83.8	0.11	0.30	0.45	14	1.21	0.064
118358	Soil	0.60	38.24	51.89	115.0	270	37.5	14.3	562	4.47	8.4	0.7	0.6	2.8	96.6	0.11	0.36	0.46	14	1.10	0.064
118359	Soil	0.85	32.53	72.48	111.5	248	38.7	15.7	951	4.57	6.8	0.9	0.8	2.7	44.4	0.10	0.33	0.36	12	0.31	0.053
118360	Soil	1.02	43.39	71.28	116.6	252	39.6	20.6	870	4.47	14.3	1.3	1.4	4.5	24.9	0.10	0.52	0.38	18	0.25	0.056



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 3 of 10 Part 2

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
119698	Soil	5.3	17.6	0.17	89.5	0.003	<1	0.98	0.001	0.06	<0.1	1.4	0.10	0.04	20	0.3	0.04	3.4	2.56	<0.1	<0.02
119699	Soil	4.1	14.7	0.12	54.5	0.002	1	0.88	0.002	0.05	<0.1	1.8	0.09	0.05	39	0.3	0.05	2.9	2.24	<0.1	0.03
119700	Soil	5.4	15.7	0.24	64.4	0.002	1	0.88	0.002	0.05	<0.1	4.3	0.09	<0.02	59	0.2	0.05	2.6	3.49	<0.1	0.03
119851	Soil	5.6	11.1	0.20	145.0	0.001	3	0.79	0.004	0.09	<0.1	4.9	0.21	0.05	67	0.5	0.05	1.8	3.47	<0.1	0.05
119852	Soil	5.0	11.8	0.22	108.0	<0.001	2	0.73	0.005	0.09	<0.1	4.7	0.18	0.05	179	0.4	0.04	1.9	3.28	<0.1	0.07
119853	Soil	2.3	2.7	5.16	26.4	0.002	<1	0.12	0.005	0.02	<0.1	0.5	<0.02	<0.02	205	0.2	<0.02	0.3	0.24	<0.1	<0.02
119854	Soil	2.4	4.0	9.87	32.8	0.002	3	0.16	0.016	0.03	<0.1	0.8	0.07	<0.02	258	0.3	0.02	0.4	0.39	<0.1	0.03
119855	Soil	6.1	9.7	4.79	79.0	0.002	6	0.59	0.011	0.12	<0.1	1.7	0.19	0.04	349	0.3	0.04	1.4	1.59	<0.1	0.07
119856	Soil	6.3	10.4	5.42	79.5	0.003	3	0.45	0.013	0.07	0.1	1.7	0.14	<0.02	903	0.4	0.05	1.3	0.75	<0.1	0.03
119857	Soil	7.4	11.5	0.49	200.6	0.003	4	0.48	0.005	0.12	<0.1	2.5	0.28	0.04	895	0.8	0.04	1.4	2.15	<0.1	0.06
119858	Soil	7.8	10.9	4.10	98.4	0.005	5	0.62	0.012	0.09	<0.1	2.0	0.20	0.02	652	0.6	0.02	1.5	1.63	<0.1	0.05
119859	Soil	6.9	10.7	1.00	121.9	0.003	3	0.74	0.006	0.14	<0.1	3.1	0.17	0.03	475	0.4	<0.02	2.0	1.72	<0.1	0.04
119860	Soil	7.0	12.1	0.84	162.0	0.002	3	0.82	0.005	0.14	<0.1	3.6	0.20	0.04	371	0.5	0.02	2.2	1.92	<0.1	0.06
119861	Soil	7.0	10.4	0.17	145.0	0.001	3	0.73	0.014	0.12	<0.1	5.5	0.21	0.10	57	0.5	0.05	1.6	2.28	<0.1	0.05
119862	Soil	9.5	8.4	0.11	117.4	0.001	3	0.51	0.006	0.12	<0.1	4.8	0.23	0.05	255	0.4	0.03	1.1	1.65	<0.1	0.05
119863	Soil	6.1	13.7	0.19	128.2	<0.001	2	1.02	0.010	0.11	<0.1	5.7	0.21	0.08	93	0.5	0.04	2.3	3.55	<0.1	0.05
120651	Soil	6.9	21.5	0.16	110.3	0.002	1	1.28	0.002	0.07	<0.1	1.5	0.21	0.04	85	0.2	0.06	4.7	4.82	<0.1	<0.02
120652	Soil	5.5	24.4	0.29	65.6	0.001	1	1.84	0.002	0.07	<0.1	2.9	0.18	<0.02	34	0.2	0.05	5.0	4.35	<0.1	0.05
120653	Soil	7.6	17.1	0.17	94.4	0.005	1	1.05	0.003	0.08	<0.1	2.2	0.12	<0.02	52	0.1	0.06	4.9	4.92	<0.1	<0.02
120654	Soil	6.2	18.0	0.14	51.6	0.003	1	1.15	0.002	0.07	<0.1	2.6	0.13	0.02	82	0.2	0.07	4.7	4.59	<0.1	<0.02
120655	Soil	7.0	25.5	0.20	65.1	0.005	1	1.37	0.002	0.09	<0.1	0.7	0.16	0.06	110	0.4	0.07	5.5	5.01	<0.1	<0.02
120656	Soil	23.1	20.0	0.45	92.4	0.002	2	1.05	0.002	0.09	<0.1	4.0	0.12	0.06	199	0.7	<0.02	2.9	1.01	<0.1	0.08
120657	Soil	10.1	22.8	0.38	196.7	0.003	3	1.15	0.005	0.08	<0.1	2.0	0.17	0.19	697	2.4	0.03	3.1	3.00	<0.1	0.04
120663	Soil	17.0	23.0	0.45	129.2	0.002	<1	1.50	0.002	0.07	<0.1	3.3	0.12	0.06	276	0.4	0.04	3.8	1.16	<0.1	0.05
120664	Soil	12.4	22.9	0.21	123.5	0.002	<1	1.22	0.004	0.07	<0.1	3.1	0.16	0.05	552	0.4	0.06	3.6	1.82	<0.1	0.04
120665	Soil	13.8	27.2	0.36	203.4	0.004	<1	1.42	0.003	0.08	<0.1	2.8	0.18	0.11	301	0.4	0.06	4.1	1.96	<0.1	0.06
118357	Soil	6.9	14.5	0.26	127.6	<0.001	4	0.95	0.008	0.14	<0.1	6.6	0.23	0.08	174	0.7	0.06	2.2	2.84	<0.1	0.08
118358	Soil	4.3	14.3	0.28	122.7	<0.001	3	0.98	0.012	0.12	<0.1	5.5	0.18	0.16	112	0.5	0.05	2.4	3.06	<0.1	0.06
118359	Soil	3.5	16.4	0.16	124.7	<0.001	2	0.90	0.017	0.10	<0.1	4.7	0.19	0.12	78	0.3	0.03	2.3	4.26	<0.1	0.03
118360	Soil	7.3	20.1	0.32	101.5	0.005	3	1.18	0.007	0.13	<0.1	7.2	0.15	0.03	63	0.4	0.08	3.1	5.01	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 3 of 10 Part 3

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
119698	Soil	0.19	10.6	3.5	<0.05	0.4	4.23	13.2	0.04	2	1.0	14.2	<10	<2
119699	Soil	0.25	9.1	7.4	<0.05	1.0	3.52	10.9	0.03	<1	0.6	11.4	<10	<2
119700	Soil	0.08	6.1	6.3	<0.05	1.3	8.64	15.5	0.03	<1	1.1	20.4	<10	<2
119851	Soil	0.03	7.9	6.4	<0.05	3.2	14.42	18.7	0.05	<1	0.6	16.2	10	<2
119852	Soil	0.02	7.4	8.4	<0.05	4.8	12.05	16.7	0.03	<1	1.0	16.9	<10	<2
119853	Soil	0.04	1.1	3.1	<0.05	0.7	3.25	3.8	<0.02	<1	0.3	1.6	<10	<2
119854	Soil	0.04	1.5	5.1	<0.05	0.9	4.20	5.7	<0.02	<1	0.2	2.2	<10	<2
119855	Soil	0.10	5.3	5.4	<0.05	1.9	9.16	15.2	0.02	<1	0.6	6.1	<10	<2
119856	Soil	0.11	3.3	3.9	<0.05	1.4	10.12	14.3	<0.02	<1	0.4	5.5	<10	<2
119857	Soil	0.13	5.7	15.2	<0.05	3.0	9.99	20.2	0.02	<1	0.6	5.1	<10	<2
119858	Soil	0.18	5.0	1.8	<0.05	1.8	9.27	19.6	0.02	<1	0.6	5.3	<10	<2
119859	Soil	0.17	8.4	1.4	<0.05	1.7	8.89	19.9	0.03	<1	0.8	12.2	<10	<2
119860	Soil	0.15	9.0	7.3	<0.05	2.4	9.79	20.3	0.03	<1	1.0	13.1	<10	<2
119861	Soil	0.05	7.7	2.7	<0.05	3.6	16.27	22.0	0.05	<1	1.1	15.8	<10	<2
119862	Soil	0.06	7.1	10.0	<0.05	3.8	15.09	28.5	0.04	<1	0.9	6.8	<10	<2
119863	Soil	0.11	8.6	2.8	<0.05	2.2	20.36	19.4	0.05	<1	1.1	18.9	<10	<2
120651	Soil	0.21	11.9	18.7	<0.05	0.3	5.68	18.9	0.05	<1	0.7	13.6	<10	<2
120652	Soil	0.34	11.7	4.5	<0.05	1.7	3.67	15.5	0.04	<1	0.8	36.1	<10	<2
120653	Soil	0.43	12.3	3.7	<0.05	0.4	3.92	16.2	0.02	<1	0.5	11.7	<10	<2
120654	Soil	0.36	11.2	4.3	<0.05	0.3	3.51	13.8	0.03	<1	0.6	11.1	<10	<2
120655	Soil	0.29	12.5	50.6	<0.05	<0.1	2.72	15.5	0.06	<1	0.5	9.0	<10	<2
120656	Soil	0.25	8.7	2.1	<0.05	2.4	12.64	48.5	0.03	<1	1.1	19.7	<10	<2
120657	Soil	0.48	10.4	11.1	<0.05	1.4	14.43	20.5	0.04	<1	1.1	11.3	<10	<2
120663	Soil	0.28	9.4	4.6	<0.05	1.3	14.39	37.7	0.04	<1	1.3	22.9	<10	<2
120664	Soil	0.25	8.2	10.0	<0.05	1.0	9.47	33.0	0.04	<1	1.0	11.1	<10	<2
120665	Soil	0.46	12.9	2.0	<0.05	1.5	11.89	32.5	0.04	<1	0.9	15.1	<10	<2
118357	Soil	0.06	9.2	6.4	<0.05	2.6	19.09	20.5	0.06	2	1.0	23.5	<10	<2
118358	Soil	0.08	8.4	5.7	<0.05	2.9	16.19	12.4	0.05	<1	1.2	30.7	<10	<2
118359	Soil	0.07	7.9	21.6	<0.05	2.0	13.18	10.6	0.05	<1	1.1	24.2	<10	<2
118360	Soil	0.10	10.8	25.3	<0.05	3.4	17.32	22.2	0.04	<1	1.0	35.9	<10	2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 27, 2011

Page: 4 of 10 Part 1

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
118361	Soil	1.16	52.02	59.05	133.2	311	40.8	21.8	1230	5.21	9.8	1.5	2.1	5.8	32.6	0.20	0.47	0.39	23	0.61	0.116
118362	Soil	0.79	29.80	40.36	87.0	284	29.7	17.1	941	3.77	10.3	0.8	1.2	3.3	17.6	0.10	0.45	0.28	16	0.17	0.053
118363	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
118364	Soil	1.06	42.09	68.58	118.4	257	37.9	16.1	673	4.95	12.5	1.3	1.9	3.9	46.4	0.17	0.54	0.38	18	0.82	0.074
118365	Soil	0.55	28.50	29.89	115.0	134	26.4	10.7	478	3.60	6.5	1.3	0.8	1.4	229.9	0.24	0.29	0.29	16	1.78	0.083
118366	Soil	0.60	30.64	30.24	97.1	192	27.5	10.4	359	3.78	7.7	1.3	1.3	2.1	119.3	0.16	0.33	0.30	19	1.45	0.083
118367	Soil	0.59	21.09	17.22	67.8	44	21.4	7.4	268	3.07	5.7	0.7	0.5	1.6	33.1	0.06	0.23	0.26	23	0.27	0.067
118368	Soil	0.82	27.23	25.17	81.4	61	27.6	10.7	408	3.27	9.4	0.9	1.2	1.8	24.4	0.12	0.44	0.27	27	0.22	0.053
118369	Soil	0.60	28.00	29.44	93.8	46	29.7	12.0	576	3.94	9.7	0.7	0.8	2.9	22.5	0.20	0.36	0.29	19	0.19	0.054
118370	Soil	0.88	27.37	20.26	80.6	35	27.7	10.1	355	3.15	9.6	0.8	1.6	1.5	16.4	0.19	0.50	0.26	31	0.17	0.061
118371	Soil	1.15	19.25	25.58	68.7	57	20.0	7.1	377	3.12	8.6	0.9	0.9	0.6	18.4	0.12	0.51	0.30	44	0.19	0.090
118372	Soil	0.72	25.50	26.95	90.6	100	24.2	9.9	576	3.36	9.7	1.0	1.1	1.5	76.0	0.18	0.44	0.30	26	1.15	0.123
118373	Soil	0.87	31.66	32.01	87.5	140	28.9	13.0	643	3.66	11.2	2.4	2.7	2.3	43.1	0.17	0.62	0.44	27	0.47	0.095
118374	Soil	0.88	34.94	34.22	91.0	127	29.0	14.2	491	3.44	11.7	2.1	3.2	2.4	68.9	0.19	0.49	0.46	20	0.96	0.080
118375	Soil	0.71	31.62	30.40	86.6	151	25.3	13.2	680	3.22	10.5	6.1	2.2	1.3	107.9	0.19	0.63	0.39	23	1.52	0.120
118376	Soil	0.88	34.84	30.85	86.4	149	28.5	11.7	349	3.16	15.3	2.5	3.1	1.2	135.4	0.16	0.71	0.38	16	1.86	0.110
118377	Soil	1.03	31.05	29.87	82.9	99	26.3	13.0	530	3.27	17.5	3.8	2.0	1.6	49.4	0.37	0.78	0.42	21	0.85	0.092
118378	Soil	0.70	34.37	29.82	107.1	16	27.0	15.9	645	4.43	16.0	0.6	1.3	1.2	15.9	0.11	0.51	0.50	28	0.07	0.051
118379	Soil	0.69	33.48	37.10	100.7	57	29.6	17.2	712	4.38	22.9	1.5	1.6	1.9	30.8	0.11	0.83	0.51	27	0.42	0.061
118380	Soil	0.97	28.41	22.11	77.4	185	21.3	10.6	656	2.61	12.7	3.4	2.4	1.6	85.8	0.28	0.61	0.32	21	1.57	0.097
118381	Soil	0.88	24.52	22.43	93.9	52	23.7	12.6	778	3.46	17.0	0.9	1.5	2.1	34.5	0.14	0.70	0.38	31	0.56	0.077
118382	Soil	0.69	28.85	18.37	79.9	70	25.7	8.6	304	3.33	17.1	1.3	1.2	2.3	31.5	0.08	0.50	0.40	24	0.33	0.087
118383	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
118384	Soil	0.78	49.82	46.00	100.3	94	25.2	19.1	1523	2.85	12.3	1.0	3.3	1.4	72.2	0.46	0.63	0.39	19	1.37	0.105
118385	Soil	0.89	56.88	39.49	108.5	101	38.4	16.5	673	3.93	23.2	1.5	2.6	3.7	20.0	0.19	0.79	0.46	24	0.17	0.070
118386	Soil	0.60	40.15	58.58	131.7	309	45.0	23.7	629	4.32	7.7	0.8	0.9	6.8	43.6	0.11	0.37	0.42	8	0.41	0.057
118387	Soil	0.57	38.41	49.04	139.2	273	48.6	20.7	501	4.38	10.0	1.0	0.9	6.2	50.4	0.12	0.37	0.42	10	0.41	0.079
118388	Soil	0.48	23.95	38.29	107.6	162	27.9	9.8	254	2.82	8.0	1.0	2.1	1.2	105.7	0.19	0.58	0.35	10	1.95	0.092
118389	Soil	0.57	22.45	32.31	199.3	181	25.0	7.4	334	3.10	9.8	1.6	1.3	1.4	79.9	0.43	0.65	0.32	19	1.44	0.116
118390	Soil	0.58	29.88	36.64	115.2	273	32.5	11.2	343	3.43	9.6	1.0	1.5	2.4	81.6	0.22	0.65	0.38	15	1.21	0.081



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 4 of 10 Part 2

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
118361	Soil	10.1	27.4	0.47	128.1	0.007	5	1.54	0.008	0.14	<0.1	11.7	0.16	0.03	61	0.7	0.07	4.5	7.63	<0.1	0.10
118362	Soil	5.4	14.8	0.22	70.8	0.003	1	0.80	0.003	0.07	<0.1	4.8	0.12	<0.02	62	0.3	0.03	2.2	6.05	<0.1	0.04
118363	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
118364	Soil	10.4	20.7	0.25	109.5	0.003	3	0.95	0.004	0.10	<0.1	8.6	0.13	0.05	80	0.2	0.13	2.7	4.62	<0.1	0.05
118365	Soil	13.1	15.5	0.19	120.1	0.002	3	0.86	0.010	0.07	<0.1	3.9	0.09	0.10	75	0.5	0.04	2.2	1.05	<0.1	0.03
118366	Soil	12.1	18.0	0.22	155.6	0.002	2	1.05	0.006	0.07	<0.1	5.7	0.10	0.09	79	0.4	0.06	2.7	1.68	<0.1	0.05
118367	Soil	4.4	18.4	0.23	111.5	0.001	<1	1.31	0.002	0.06	<0.1	2.6	0.13	0.03	18	0.1	0.05	3.7	2.91	<0.1	0.04
118368	Soil	7.2	19.8	0.25	95.7	0.004	1	1.03	0.003	0.07	<0.1	2.7	0.11	<0.02	39	0.2	0.04	3.3	3.57	<0.1	<0.02
118369	Soil	6.6	16.8	0.23	101.4	0.002	1	1.13	0.003	0.07	<0.1	4.1	0.08	0.02	38	0.1	0.09	2.8	1.99	<0.1	0.03
118370	Soil	8.9	21.6	0.29	93.3	0.008	1	1.18	0.003	0.07	<0.1	2.6	0.11	<0.02	27	0.2	0.03	3.6	1.83	<0.1	<0.02
118371	Soil	8.8	26.8	0.27	130.2	0.004	<1	1.78	0.003	0.08	<0.1	1.1	0.22	0.04	31	0.2	0.07	5.9	3.22	<0.1	0.02
118372	Soil	7.3	21.9	0.26	179.9	0.002	1	1.42	0.004	0.08	<0.1	2.9	0.14	0.09	94	0.4	0.06	4.0	2.68	<0.1	0.07
118373	Soil	11.0	22.0	0.29	194.4	0.003	<1	1.46	0.003	0.06	<0.1	3.5	0.13	0.06	75	0.5	0.04	3.7	2.63	<0.1	0.07
118374	Soil	12.9	16.8	0.30	134.8	0.003	<1	1.07	0.005	0.06	<0.1	4.8	0.09	0.07	94	0.5	0.06	2.9	2.26	<0.1	0.15
118375	Soil	21.1	21.5	0.45	268.8	0.006	2	1.37	0.006	0.05	<0.1	2.9	0.08	0.11	107	0.6	0.05	3.5	1.19	<0.1	0.05
118376	Soil	15.2	16.2	0.28	169.7	0.002	3	0.90	0.007	0.06	<0.1	2.6	0.08	0.10	141	0.9	0.08	2.2	1.22	<0.1	0.06
118377	Soil	9.7	16.9	0.29	136.1	0.003	1	0.99	0.003	0.06	<0.1	2.7	0.09	0.07	183	0.6	0.06	2.7	1.45	<0.1	0.07
118378	Soil	5.9	21.2	0.31	70.3	0.004	1	1.41	0.002	0.06	<0.1	2.3	0.09	<0.02	102	0.3	0.04	3.7	4.02	<0.1	<0.02
118379	Soil	7.9	24.6	0.37	215.7	0.003	2	1.23	0.002	0.07	<0.1	3.6	0.08	0.03	272	0.6	0.05	3.5	3.90	<0.1	0.03
118380	Soil	16.2	21.4	0.40	104.7	0.003	3	0.97	0.005	0.06	<0.1	3.1	0.09	0.09	351	0.9	0.04	2.9	2.16	<0.1	0.06
118381	Soil	9.3	25.3	0.40	117.6	0.003	1	1.31	0.003	0.07	<0.1	3.2	0.11	0.04	267	0.5	0.05	4.4	2.83	<0.1	0.06
118382	Soil	8.9	28.1	0.50	100.4	0.002	<1	1.44	0.003	0.07	<0.1	3.6	0.13	0.04	131	0.5	0.04	4.2	4.16	<0.1	0.07
118383	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
118384	Soil	6.6	22.5	0.60	94.8	0.006	6	1.23	0.005	0.09	<0.1	3.1	0.11	0.10	149	0.6	0.05	3.7	5.06	<0.1	0.09
118385	Soil	10.0	35.4	0.77	95.2	0.002	2	1.81	0.002	0.09	<0.1	5.5	0.11	0.04	203	0.6	0.03	4.6	7.70	<0.1	0.08
118386	Soil	5.4	9.0	0.09	178.7	0.001	3	0.49	0.008	0.12	<0.1	4.8	0.20	0.07	164	0.4	<0.02	1.2	2.99	<0.1	0.06
118387	Soil	5.6	12.1	0.19	169.6	0.001	4	0.78	0.010	0.13	<0.1	5.3	0.20	0.11	233	0.4	0.03	1.7	3.88	<0.1	0.06
118388	Soil	10.8	9.2	0.17	184.4	0.002	5	0.66	0.007	0.09	<0.1	2.3	0.12	0.10	251	0.6	0.04	1.5	1.10	<0.1	0.03
118389	Soil	14.4	14.9	0.21	161.4	0.003	4	1.04	0.005	0.06	<0.1	2.5	0.10	0.08	323	0.7	0.03	2.3	0.86	<0.1	0.04
118390	Soil	11.9	12.7	0.20	169.9	0.003	3	0.86	0.004	0.08	<0.1	3.9	0.14	0.05	323	0.5	0.05	1.8	1.27	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 4 of 10 Part 3

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
118361	Soil			0.22	13.3	19.4	<0.05	3.1	35.99	25.4	0.05	1	1.6	48.5	<10	3
118362	Soil			0.09	6.9	10.1	<0.05	1.0	14.67	17.6	0.04	<1	0.9	22.0	<10	<2
118363	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
118364	Soil			0.15	9.4	37.8	<0.05	1.8	25.95	25.2	0.07	<1	1.1	23.7	<10	<2
118365	Soil			0.20	6.5	5.7	<0.05	1.1	18.10	40.2	0.05	<1	0.9	17.2	<10	<2
118366	Soil			0.25	6.5	4.4	<0.05	1.5	20.56	29.0	0.05	<1	1.1	18.0	<10	<2
118367	Soil			0.21	13.8	1.4	<0.05	1.2	5.27	14.9	0.03	<1	0.9	27.2	<10	<2
118368	Soil			0.23	8.8	3.5	<0.05	0.4	6.53	18.7	0.03	<1	0.9	19.1	<10	<2
118369	Soil			0.12	8.4	2.2	<0.05	0.8	10.97	34.3	0.04	<1	1.0	24.8	<10	<2
118370	Soil			0.22	7.5	2.7	<0.05	0.5	6.23	23.1	0.02	<1	0.8	18.9	<10	<2
118371	Soil			0.42	13.6	6.4	<0.05	0.5	4.39	21.0	0.04	<1	0.8	17.4	<10	<2
118372	Soil			0.41	12.2	3.5	<0.05	1.7	10.76	26.1	0.05	<1	1.1	19.4	<10	<2
118373	Soil			0.28	11.7	3.9	<0.05	2.0	15.23	27.4	0.04	<1	1.6	20.0	11	<2
118374	Soil			0.29	6.7	5.9	<0.05	2.4	24.84	26.9	0.04	<1	0.9	20.0	<10	<2
118375	Soil			0.38	6.7	4.2	<0.05	1.6	27.95	36.3	0.03	<1	1.4	22.7	<10	<2
118376	Soil			0.25	5.1	4.4	<0.05	1.5	16.70	28.8	0.03	<1	1.3	13.9	<10	<2
118377	Soil			0.29	6.3	4.2	<0.05	2.0	9.28	22.3	0.04	<1	1.1	13.3	<10	<2
118378	Soil			0.25	9.2	3.2	<0.05	0.4	4.20	12.1	0.04	<1	1.0	20.6	18	<2
118379	Soil			0.23	8.0	6.9	<0.05	1.2	7.89	14.0	0.05	<1	1.2	23.1	<10	<2
118380	Soil			0.36	7.5	2.4	<0.05	2.1	16.75	29.0	0.04	<1	0.9	15.6	<10	<2
118381	Soil			0.38	9.5	2.5	<0.05	1.6	5.98	21.2	0.04	<1	0.5	25.8	10	<2
118382	Soil			0.20	10.6	2.1	<0.05	2.0	7.35	18.7	0.03	1	1.1	24.7	<10	<2
118383	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
118384	Soil			0.23	9.6	16.8	<0.05	2.4	7.78	14.3	<0.02	<1	1.3	26.8	<10	<2
118385	Soil			0.22	10.9	3.8	<0.05	2.4	12.25	25.1	0.06	<1	1.7	44.7	<10	<2
118386	Soil			0.02	7.0	16.1	<0.05	5.5	13.30	18.0	0.03	<1	0.8	10.4	17	<2
118387	Soil			0.04	8.5	5.3	<0.05	3.6	18.29	18.4	0.03	<1	1.0	17.5	12	<2
118388	Soil			0.18	6.9	1.6	<0.05	1.4	16.20	19.0	0.03	<1	0.9	5.1	11	<2
118389	Soil			0.25	8.1	1.4	<0.05	1.4	17.07	24.3	0.04	<1	0.9	10.3	14	<2
118390	Soil			0.18	7.3	2.4	<0.05	1.8	18.54	26.4	0.05	<1	1.3	9.0	11	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 5 of 10 Part 1

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
118391	Soil			0.56	29.07	36.04	117.7	275	30.8	10.9	308	3.94	6.2	0.9	1.4	2.2	86.2	0.18	0.35	0.41	15	1.32	0.066
118392	Soil			0.58	33.66	38.46	113.9	49	44.0	22.3	477	3.61	10.2	0.7	1.0	2.8	13.4	0.13	0.36	0.42	16	0.09	0.030
118393	Soil			0.90	29.72	39.24	88.1	100	29.1	12.6	459	3.78	8.7	0.7	<0.2	2.2	20.8	0.13	0.47	0.37	21	0.24	0.080
118394	Soil			0.86	32.68	39.63	97.6	170	27.0	12.9	607	4.02	7.8	1.0	2.2	2.9	28.6	0.17	0.45	0.36	23	0.39	0.106
118395	Soil			1.25	29.56	41.17	86.4	153	23.3	11.1	512	3.55	6.6	0.8	1.6	0.9	22.4	0.13	0.47	0.34	24	0.27	0.110
118396	Soil			0.63	26.45	26.51	80.9	146	25.1	9.7	349	3.31	7.8	1.2	1.6	2.1	36.6	0.12	0.39	0.32	20	0.63	0.105
118397	Soil			0.52	25.62	19.52	83.5	55	23.8	7.7	218	3.23	7.6	0.8	0.9	2.6	40.6	0.07	0.25	0.34	23	0.37	0.075
118398	Soil			0.84	26.58	28.27	80.4	48	21.9	9.7	467	3.76	8.0	0.8	1.5	1.2	16.5	0.11	0.39	0.32	25	0.17	0.098
118399	Soil			0.88	28.17	23.05	87.6	36	29.8	12.8	375	3.17	11.5	0.6	2.1	2.2	12.5	0.23	0.57	0.25	26	0.11	0.058
118400	Soil			0.81	27.31	19.19	84.6	41	28.4	10.7	293	2.93	8.7	0.9	3.0	4.3	13.5	0.16	0.63	0.24	29	0.15	0.056
612401	Soil			0.72	16.60	39.92	337.4	133	16.6	5.9	710	1.87	11.9	1.3	2.4	0.3	126.0	0.76	1.02	0.17	12	5.49	0.124
612402	Soil			0.55	13.76	43.19	317.8	134	14.5	5.2	871	1.67	13.0	1.4	1.9	0.3	239.6	1.06	1.04	0.13	11	9.33	0.154
612403	Soil			0.75	29.95	55.17	393.6	106	38.3	15.0	1650	3.35	79.9	1.5	5.0	3.0	49.5	0.72	6.79	0.28	22	2.28	0.109
612404	Soil			0.80	24.52	29.28	138.3	174	29.2	9.0	247	3.06	8.7	1.3	1.5	2.2	108.7	0.26	0.51	0.31	16	1.51	0.083
612405	Soil			0.74	26.14	68.27	205.5	219	34.6	12.1	703	3.32	12.1	0.7	2.2	2.0	75.9	0.39	0.50	0.29	16	3.20	0.053
612406	Soil			0.68	31.51	39.94	112.0	223	32.9	13.8	406	3.74	6.7	0.9	0.7	2.1	123.2	0.15	0.31	0.36	11	2.07	0.082
612407	Soil			0.70	34.57	41.93	107.7	276	28.1	11.1	319	3.77	6.6	0.9	1.5	2.5	86.7	0.15	0.36	0.38	14	1.14	0.074
612408	Soil			0.47	28.99	39.16	94.2	111	25.2	11.6	211	3.42	6.8	0.6	0.4	3.3	24.3	0.05	0.30	0.35	11	0.11	0.029
612409	Soil			0.71	32.51	35.73	102.4	151	33.6	13.6	262	3.62	13.0	0.7	5.0	2.8	25.8	0.21	0.54	0.50	14	0.30	0.025
612410	Soil			0.69	36.92	34.48	101.4	211	32.0	14.7	312	3.74	10.7	1.0	2.7	4.1	47.0	0.19	0.51	0.39	18	0.79	0.087
612411	Soil			0.64	31.92	27.00	74.8	237	23.0	10.8	394	3.30	5.9	1.8	1.6	1.6	67.9	0.16	0.33	0.31	18	1.29	0.077
612412	Soil			1.03	24.02	34.75	76.8	91	15.6	7.9	299	3.45	5.9	0.7	1.4	0.7	6.4	0.15	0.45	0.36	27	0.05	0.104
612413	Soil			0.95	29.92	31.68	102.9	42	24.6	9.7	327	3.38	14.0	0.6	1.5	0.6	23.9	0.18	0.59	0.36	26	0.23	0.065
612414	Soil			1.08	22.74	37.14	81.5	51	18.7	8.7	446	2.97	7.6	0.6	4.4	0.4	30.8	0.21	0.65	0.38	36	0.34	0.109
612415	Soil			0.78	28.53	27.40	88.0	64	25.2	10.0	326	3.36	7.7	0.8	1.5	1.2	23.6	0.13	0.46	0.33	25	0.18	0.067
612416	Soil			0.88	29.56	24.47	92.5	60	27.8	12.6	394	3.20	11.9	0.7	1.4	1.8	13.4	0.20	0.57	0.31	26	0.11	0.056
612417	Soil			0.67	34.44	29.26	94.1	189	31.1	10.9	396	3.21	7.6	1.1	2.3	2.3	27.2	0.17	0.40	0.39	24	0.22	0.065
612418	Soil			1.01	23.18	22.27	66.6	149	18.6	8.0	363	2.59	7.9	0.9	1.6	0.5	32.9	0.15	0.55	0.33	33	0.35	0.116
612419	Soil			0.92	24.14	21.46	73.7	50	21.5	8.7	345	2.64	11.8	0.7	1.3	1.2	44.5	0.14	0.62	0.33	32	0.57	0.112
612420	Soil			1.25	33.00	41.36	108.7	60	24.0	16.1	1768	3.25	12.1	1.0	1.6	1.2	71.6	0.39	0.76	0.49	27	0.96	0.173



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 5 of 10 Part 2

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	Analyte	Unit	MDL	1F15 La	1F15 Cr	1F15 Mg	1F15 Ba	1F15 Ti	1F15 B	1F15 Al	1F15 Na	1F15 K	1F15 W	1F15 Sc	1F15 Ti	1F15 S	1F15 Hg	1F15 Se	1F15 Te	1F15 Ga	1F15 Cs	1F15 Ge	1F15 Hf
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
118391	Soil			8.2	11.0	0.10	130.4	0.001	2	0.66	0.004	0.06	<0.1	4.6	0.16	0.06	261	0.6	0.04	1.3	0.85	<0.1	0.07
118392	Soil			5.3	16.4	0.26	81.7	0.002	1	1.16	0.003	0.06	<0.1	3.0	0.09	0.02	39	0.3	0.07	2.7	2.07	<0.1	0.03
118393	Soil			5.0	19.2	0.25	99.9	0.003	2	1.20	0.004	0.07	<0.1	3.3	0.06	0.05	41	0.4	0.03	3.0	2.17	<0.1	0.05
118394	Soil			6.2	21.4	0.27	157.2	0.003	2	1.31	0.003	0.07	<0.1	5.3	0.11	0.06	47	0.4	0.04	3.4	3.54	<0.1	0.05
118395	Soil			3.8	20.2	0.13	110.1	0.003	1	0.93	0.004	0.07	<0.1	2.4	0.11	0.08	42	0.4	0.05	3.1	3.25	<0.1	0.02
118396	Soil			8.7	17.3	0.22	142.8	0.003	2	1.07	0.003	0.06	<0.1	4.6	0.11	0.06	33	0.3	0.08	2.9	4.34	<0.1	0.05
118397	Soil			6.4	19.8	0.26	128.8	0.002	2	1.40	0.003	0.07	<0.1	4.7	0.13	0.03	28	0.3	0.06	3.9	4.58	<0.1	0.07
118398	Soil			5.1	19.9	0.23	67.0	0.003	1	1.26	0.003	0.06	<0.1	1.9	0.09	0.05	23	0.3	0.04	3.3	2.38	<0.1	0.03
118399	Soil			7.5	20.4	0.30	61.1	0.008	1	1.12	0.003	0.05	<0.1	2.7	0.08	<0.02	19	0.4	0.03	3.0	1.81	<0.1	<0.02
118400	Soil			13.4	22.0	0.36	80.0	0.020	2	1.13	0.003	0.05	<0.1	3.2	0.08	<0.02	29	0.3	0.02	3.3	2.62	<0.1	<0.02
612401	Soil			8.1	10.9	1.82	96.0	0.004	5	0.56	0.007	0.05	<0.1	0.6	0.08	0.12	425	0.8	0.02	1.3	1.01	<0.1	<0.02
612402	Soil			9.8	11.1	2.22	111.5	0.003	5	0.50	0.010	0.04	<0.1	0.5	0.06	0.09	457	0.6	0.03	1.1	0.47	<0.1	0.03
612403	Soil			12.8	21.8	1.05	189.5	0.005	1	1.14	0.007	0.09	0.3	3.3	0.19	0.03	847	0.5	0.04	3.6	2.02	<0.1	0.06
612404	Soil			14.8	11.7	0.15	177.5	0.003	4	0.88	0.005	0.10	<0.1	3.2	0.13	0.08	120	0.7	0.05	2.2	1.28	<0.1	0.09
612405	Soil			9.1	11.3	1.48	111.3	0.004	4	0.70	0.005	0.08	<0.1	2.9	0.07	0.03	185	0.5	0.03	1.7	0.61	<0.1	0.04
612406	Soil			6.3	10.3	0.17	124.8	0.002	3	0.64	0.005	0.08	<0.1	3.9	0.15	0.11	227	0.6	0.03	1.4	1.36	<0.1	0.06
612407	Soil			5.9	14.0	0.18	148.7	0.001	4	0.84	0.015	0.09	<0.1	4.5	0.17	0.13	138	0.7	<0.02	2.0	1.95	0.1	0.10
612408	Soil			3.5	10.5	0.09	64.3	0.001	<1	0.48	0.009	0.07	<0.1	3.4	0.10	0.06	53	0.3	0.03	1.6	2.64	<0.1	0.04
612409	Soil			3.8	9.8	0.09	62.4	0.002	2	0.41	0.005	0.05	<0.1	3.4	0.11	0.03	112	0.3	0.02	1.1	1.95	<0.1	0.09
612410	Soil			7.0	14.2	0.20	68.0	0.003	3	0.64	0.004	0.07	<0.1	5.1	0.08	0.06	63	0.5	0.07	1.8	3.47	<0.1	0.08
612411	Soil			8.3	15.8	0.18	84.2	0.002	2	0.67	0.005	0.06	<0.1	4.5	0.07	0.10	78	0.4	0.05	1.8	2.10	<0.1	0.07
612412	Soil			2.8	20.3	0.13	46.3	0.004	1	0.92	0.002	0.06	<0.1	1.3	0.08	0.08	68	0.3	0.03	3.4	3.26	<0.1	0.03
612413	Soil			4.8	19.6	0.18	61.2	0.005	<1	0.81	0.003	0.07	<0.1	1.6	0.10	0.04	44	0.3	0.05	2.8	5.60	<0.1	<0.02
612414	Soil			6.5	20.7	0.22	136.0	0.007	2	1.14	0.003	0.07	<0.1	0.9	0.16	0.08	26	0.2	0.04	4.4	4.41	<0.1	<0.02
612415	Soil			6.4	20.7	0.25	92.1	0.004	2	1.08	0.002	0.07	<0.1	2.0	0.09	0.04	53	0.2	0.06	3.0	4.69	<0.1	<0.02
612416	Soil			6.2	17.3	0.22	61.2	0.006	2	0.93	0.002	0.06	<0.1	2.4	0.08	0.02	49	0.2	0.05	2.4	2.49	<0.1	<0.02
612417	Soil			8.2	24.3	0.27	127.2	0.004	1	1.20	0.002	0.09	<0.1	3.1	0.11	0.04	94	0.3	0.03	3.3	16.22	<0.1	0.04
612418	Soil			10.5	20.7	0.23	140.2	0.007	2	1.25	0.003	0.07	<0.1	1.1	0.14	0.08	59	0.4	0.03	4.0	5.91	<0.1	0.03
612419	Soil			6.6	20.5	0.26	152.6	0.006	1	1.18	0.003	0.06	<0.1	1.8	0.11	0.06	51	0.3	0.05	3.7	2.22	<0.1	0.04
612420	Soil			6.1	20.5	0.14	192.6	0.011	3	0.93	0.004	0.08	<0.1	2.6	0.14	0.11	66	0.4	0.12	3.2	5.17	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 5 of 10 Part 3

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
118391	Soil	0.15	6.0	1.4	<0.05	2.2	19.98	18.4	0.05	1	0.8	5.6	<10	<2
118392	Soil	0.10	6.1	3.1	<0.05	1.2	7.05	11.3	0.04	1	0.9	43.2	<10	<2
118393	Soil	0.22	8.6	6.9	<0.05	2.1	7.40	17.8	0.04	<1	0.8	31.8	<10	<2
118394	Soil	0.20	10.3	9.9	<0.05	1.9	14.59	19.5	0.04	1	0.9	28.3	<10	<2
118395	Soil	0.20	10.6	10.8	<0.05	0.8	7.10	10.3	0.04	<1	0.4	11.1	<10	<2
118396	Soil	0.24	10.4	2.2	<0.05	1.8	16.36	21.2	0.04	<1	0.8	20.2	<10	<2
118397	Soil	0.17	13.0	2.0	<0.05	2.0	10.72	16.3	0.05	<1	1.1	27.4	<10	<2
118398	Soil	0.17	9.9	5.6	<0.05	0.9	6.70	18.3	0.05	<1	0.8	21.0	<10	<2
118399	Soil	0.22	7.1	2.9	<0.05	0.9	5.89	23.3	0.03	<1	0.8	21.8	<10	<2
118400	Soil	0.35	6.6	2.4	<0.05	0.7	8.16	28.3	<0.02	<1	0.6	19.8	<10	<2
612401	Soil	0.21	4.7	6.8	<0.05	0.8	9.23	18.5	<0.02	<1	0.6	4.4	22	<2
612402	Soil	0.14	3.4	6.3	<0.05	0.8	10.25	23.7	<0.02	<1	0.5	3.5	23	<2
612403	Soil	0.28	7.0	4.1	<0.05	2.3	12.13	28.4	0.02	<1	0.8	15.0	29	<2
612404	Soil	0.27	9.2	1.6	<0.05	2.6	14.91	28.1	0.05	<1	1.1	7.6	<10	<2
612405	Soil	0.21	5.4	1.9	<0.05	1.6	11.52	18.6	0.02	<1	0.9	6.9	13	<2
612406	Soil	0.14	6.1	3.3	<0.05	1.9	16.74	18.5	0.05	<1	1.1	12.0	<10	<2
612407	Soil	0.15	7.2	3.2	<0.05	3.2	14.07	13.4	0.05	<1	0.7	15.8	<10	<2
612408	Soil	0.03	5.0	2.8	<0.05	2.8	5.60	8.1	0.05	<1	0.6	11.0	<10	<2
612409	Soil	0.11	4.6	2.1	<0.05	2.6	6.82	9.4	0.08	1	1.0	7.5	<10	<2
612410	Soil	0.14	6.0	7.7	<0.05	3.0	14.96	14.6	0.03	<1	0.8	15.9	<10	<2
612411	Soil	0.12	6.1	6.6	<0.05	1.7	21.57	17.6	0.06	<1	1.0	13.0	<10	<2
612412	Soil	0.22	9.2	8.7	<0.05	0.6	3.16	6.3	0.02	<1	0.4	8.3	<10	<2
612413	Soil	0.16	9.3	9.9	<0.05	0.3	3.76	11.2	0.03	<1	0.5	13.7	<10	<2
612414	Soil	0.24	13.9	12.3	<0.05	0.2	4.07	14.0	<0.02	<1	0.8	13.0	<10	<2
612415	Soil	0.15	10.2	4.7	<0.05	0.4	7.39	16.3	0.03	<1	1.2	25.0	<10	<2
612416	Soil	0.16	6.8	2.0	<0.05	0.3	5.64	16.2	0.03	<1	0.7	15.8	<10	<2
612417	Soil	0.21	13.6	5.3	<0.05	1.4	11.28	19.0	<0.02	<1	1.2	23.7	<10	<2
612418	Soil	0.35	13.6	3.6	<0.05	0.4	11.97	17.7	0.02	<1	0.7	12.9	<10	<2
612419	Soil	0.34	10.4	2.3	<0.05	1.3	5.20	14.0	0.03	<1	0.5	13.5	<10	<2
612420	Soil	0.27	13.4	10.4	<0.05	1.3	6.80	14.8	0.03	<1	0.8	5.8	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 6 of 10 Part 1

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612421	Soil			0.66	37.97	27.77	103.5	110	28.9	13.2	439	3.33	16.6	3.0	1.1	2.3	67.6	0.13	0.71	0.38	20	1.04	0.070
612422	Soil			0.56	33.57	27.18	102.7	94	26.6	14.3	651	3.04	9.1	3.1	1.5	1.3	82.5	0.19	0.39	0.35	16	1.32	0.067
612423	Soil			0.65	30.61	31.59	100.1	97	21.5	11.5	522	2.64	7.7	3.1	1.5	1.3	144.8	0.25	0.40	0.31	17	2.41	0.111
612424	Soil			1.25	41.86	25.50	101.6	258	28.4	11.3	391	2.66	47.1	5.2	6.2	2.7	66.7	0.44	2.16	0.29	21	1.22	0.090
612425	Soil			0.97	30.70	18.04	101.6	398	24.7	10.2	315	2.48	17.4	4.4	6.3	2.0	76.4	0.36	1.29	0.21	18	1.35	0.086
612426	Soil			0.66	33.70	29.61	130.7	88	32.2	12.1	392	2.98	23.1	4.4	2.2	3.8	30.7	0.39	1.19	0.23	35	0.64	0.055
612427	Soil			0.65	30.77	23.44	102.7	110	28.7	11.5	513	3.06	19.3	2.3	2.1	2.6	38.1	0.26	0.92	0.27	22	0.74	0.072
612428	Soil			0.52	30.45	18.49	85.2	74	25.2	10.1	467	2.63	4.6	1.8	0.9	3.7	48.9	0.23	0.40	0.28	18	1.35	0.089
612429	Soil			0.57	15.12	17.49	52.6	41	16.3	5.6	198	2.74	9.5	0.8	0.3	1.3	28.1	0.04	0.32	0.32	35	0.30	0.073
612430	Soil			0.83	21.77	22.24	96.1	89	18.6	10.9	949	2.86	10.1	1.2	0.7	1.4	40.9	0.26	0.47	0.34	36	0.41	0.072
612431	Soil			1.25	27.15	18.80	57.1	218	18.1	8.2	447	2.48	8.9	3.7	2.1	1.6	61.8	0.16	0.49	0.27	36	0.75	0.141
612432	Soil			0.87	44.56	37.31	87.6	77	40.1	23.7	1405	4.21	21.3	1.7	1.6	6.0	14.1	0.28	0.71	0.61	28	0.06	0.037
612433	Soil			0.84	50.73	46.83	108.1	63	27.7	19.5	1826	3.82	12.1	0.9	1.9	1.3	20.5	0.21	0.55	0.44	30	0.15	0.081
612434	Soil			0.89	52.68	34.85	140.5	148	50.3	23.6	589	3.89	18.1	1.1	3.9	8.0	49.1	0.20	0.90	0.38	26	0.56	0.103
612435	Soil			1.01	43.34	33.39	135.8	128	39.4	17.2	556	2.91	16.5	1.3	4.9	5.1	90.8	0.22	2.52	0.23	17	3.64	0.083
612436	Soil			0.87	33.57	27.40	84.3	62	22.9	11.2	437	3.74	8.7	0.9	1.0	1.4	6.5	0.09	0.48	0.31	25	0.04	0.086
612437	Soil			0.91	35.16	32.15	91.2	185	31.6	13.1	437	3.78	11.9	1.1	1.1	3.3	32.3	0.12	0.49	0.30	22	0.45	0.081
612438	Soil			0.78	30.15	27.47	91.0	155	27.3	11.3	370	3.35	14.7	0.9	0.8	2.2	21.1	0.13	0.48	0.28	25	0.22	0.062
612439	Soil			0.66	18.73	22.89	65.6	59	17.1	5.8	207	2.63	5.7	0.6	0.2	1.4	25.1	0.07	0.31	0.28	20	0.27	0.074
612440	Soil			0.66	26.98	26.95	78.8	111	22.8	9.6	305	2.90	6.3	0.9	1.0	2.5	55.5	0.15	0.32	0.29	16	0.61	0.091
612441	Soil			0.68	25.60	23.57	75.9	27	20.3	10.1	378	3.28	6.1	0.5	0.3	1.4	11.8	0.07	0.38	0.28	23	0.09	0.077
612442	Soil			0.72	22.30	20.68	70.3	51	16.9	8.3	328	2.82	6.0	0.5	0.4	0.8	9.9	0.07	0.30	0.24	21	0.07	0.084
612443	Soil			0.84	24.00	26.04	68.8	55	18.1	7.8	368	3.82	6.9	0.7	0.8	0.7	11.3	0.13	0.47	0.33	28	0.12	0.083
612444	Soil			0.91	24.86	27.80	81.6	85	21.8	8.5	283	3.78	7.4	0.8	0.9	1.4	7.9	0.15	0.49	0.31	29	0.05	0.077
612445	Soil			0.80	22.34	18.70	71.9	54	19.9	8.3	311	2.82	7.9	0.6	3.6	1.0	7.8	0.17	0.52	0.27	27	0.07	0.063
118251	Soil			0.70	30.40	40.37	98.5	267	33.7	15.1	435	3.56	8.5	0.6	1.3	3.9	66.8	0.10	0.32	0.37	10	0.73	0.067
118252	Soil			0.66	32.63	46.63	105.4	216	30.9	13.7	493	3.92	9.1	0.9	0.7	1.9	51.1	0.11	0.34	0.41	13	0.66	0.096
118253	Soil			0.68	25.34	71.50	329.9	133	29.4	11.4	480	2.29	57.4	2.3	10.7	2.8	235.6	0.35	4.92	0.31	8	13.00	0.144
118254	Soil			0.56	19.65	62.59	233.5	116	22.7	8.5	468	2.00	36.1	1.7	10.4	3.2	155.7	0.32	3.60	0.22	4	12.18	0.112
118255	Soil			0.59	31.35	80.02	268.3	150	42.4	17.8	460	3.39	20.0	1.1	1.2	4.3	43.8	0.30	1.00	0.39	9	2.14	0.078



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 27, 2011

Page: 6 of 10 Part 2

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
612421	Soil	19.5	16.6	0.16	110.1	0.003	3	0.82	0.003	0.06	<0.1	5.0	0.13	0.06	469	0.5	0.09	1.8	2.28	<0.1	0.05
612422	Soil	18.9	12.8	0.14	140.0	0.002	2	0.74	0.004	0.05	<0.1	2.8	0.09	0.08	83	0.5	0.06	1.6	1.57	<0.1	0.03
612423	Soil	21.9	16.5	0.33	134.0	0.005	4	1.02	0.011	0.05	<0.1	3.2	0.08	0.15	203	0.5	0.07	2.6	2.39	<0.1	0.05
612424	Soil	16.1	14.1	0.16	108.1	0.002	3	0.73	0.005	0.08	<0.1	3.5	0.24	0.06	695	0.5	0.04	2.0	1.20	<0.1	0.11
612425	Soil	25.1	15.9	0.38	97.7	0.003	3	0.74	0.004	0.07	<0.1	2.6	0.12	0.08	285	1.5	0.04	1.7	2.05	<0.1	0.06
612426	Soil	10.9	42.2	0.21	26.9	0.002	1	0.27	0.003	0.03	<0.1	4.5	0.10	0.02	529	3.0	0.03	1.0	0.29	<0.1	0.05
612427	Soil	19.5	22.9	0.23	126.9	0.004	3	0.78	0.003	0.06	<0.1	4.6	0.09	0.05	636	0.9	<0.02	2.0	0.96	<0.1	0.06
612428	Soil	28.0	27.1	0.41	121.4	0.003	2	0.78	0.005	0.06	<0.1	4.1	0.07	0.10	148	0.9	0.03	2.0	0.96	<0.1	0.05
612429	Soil	8.4	21.5	0.28	142.3	0.004	<1	1.47	0.003	0.07	<0.1	2.1	0.14	0.04	194	0.1	0.03	4.6	3.02	<0.1	0.03
612430	Soil	6.6	20.7	0.32	153.2	0.007	3	1.20	0.005	0.09	<0.1	2.3	0.10	0.07	105	0.4	0.07	4.3	5.48	<0.1	0.03
612431	Soil	15.5	21.9	0.20	175.9	0.004	<1	1.15	0.004	0.05	<0.1	2.5	0.14	0.10	125	0.4	0.08	3.7	2.03	<0.1	0.05
612432	Soil	8.5	26.8	0.48	87.0	0.003	2	1.99	<0.001	0.08	<0.1	4.6	0.12	<0.02	118	0.3	0.06	3.7	5.12	<0.1	0.08
612433	Soil	6.4	27.7	0.63	97.4	0.006	3	1.76	0.004	0.10	<0.1	3.3	0.10	0.05	61	0.4	0.03	4.8	8.19	<0.1	0.02
612434	Soil	28.8	45.1	0.87	123.9	0.004	3	1.22	0.004	0.10	<0.1	6.6	0.10	0.04	210	1.1	0.05	3.6	4.64	<0.1	0.10
612435	Soil	18.5	27.9	1.64	95.7	0.002	3	0.48	0.008	0.07	<0.1	6.0	0.12	0.05	797	2.2	0.06	1.5	2.08	<0.1	0.08
612436	Soil	3.6	18.2	0.18	61.1	0.003	1	1.12	0.003	0.07	<0.1	2.5	0.13	0.07	37	0.3	0.03	2.7	7.80	<0.1	0.04
612437	Soil	7.3	18.3	0.18	112.3	0.003	2	0.84	0.004	0.06	<0.1	5.3	0.14	0.04	80	0.4	0.07	2.0	6.78	<0.1	0.06
612438	Soil	7.5	18.0	0.18	90.0	0.005	<1	0.80	0.004	0.06	<0.1	4.0	0.14	<0.02	94	0.3	0.06	2.0	5.01	<0.1	<0.02
612439	Soil	5.2	14.3	0.15	112.1	0.003	2	1.04	0.003	0.05	<0.1	2.0	0.12	0.04	35	0.3	0.03	2.5	2.36	<0.1	0.03
612440	Soil	6.3	14.7	0.15	114.4	0.002	<1	0.79	0.004	0.05	<0.1	3.8	0.08	0.06	42	0.2	0.05	2.1	1.84	<0.1	0.09
612441	Soil	4.0	19.0	0.21	77.8	0.003	1	1.19	0.002	0.06	<0.1	1.7	0.09	0.04	20	0.2	0.06	3.3	2.58	<0.1	0.03
612442	Soil	3.0	17.6	0.16	69.1	0.002	1	1.02	0.002	0.06	<0.1	1.1	0.09	0.05	22	0.3	0.05	3.0	1.89	<0.1	<0.02
612443	Soil	4.8	24.1	0.18	67.2	0.004	1	1.36	0.002	0.06	<0.1	0.9	0.10	0.06	44	0.4	0.07	3.6	1.76	<0.1	<0.02
612444	Soil	6.7	24.6	0.27	66.7	0.006	1	1.53	0.002	0.06	<0.1	1.4	0.11	0.07	30	0.2	0.08	3.7	2.21	<0.1	<0.02
612445	Soil	6.2	16.7	0.23	74.2	0.005	<1	1.17	0.002	0.04	<0.1	1.4	0.11	0.03	18	<0.1	0.06	3.5	1.52	<0.1	0.02
118251	Soil	4.8	9.4	0.14	158.2	0.002	4	0.65	0.008	0.10	<0.1	4.6	0.22	0.09	205	0.4	0.05	1.8	2.38	<0.1	0.08
118252	Soil	4.7	12.3	0.17	138.0	0.002	3	0.83	0.005	0.09	<0.1	3.9	0.19	0.07	90	0.2	0.07	2.0	5.04	<0.1	0.08
118253	Soil	5.3	6.3	2.36	109.8	0.002	4	0.37	0.006	0.09	0.1	2.1	0.18	<0.02	428	0.4	0.08	1.1	1.81	<0.1	0.05
118254	Soil	4.3	4.6	3.19	52.2	0.002	3	0.23	0.006	0.06	<0.1	2.2	0.09	<0.02	252	0.3	0.05	0.6	1.49	<0.1	0.03
118255	Soil	6.6	6.9	1.00	132.9	0.002	4	0.46	0.004	0.11	<0.1	4.7	0.16	0.03	198	0.3	0.04	1.2	2.22	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 6 of 10 Part 3

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
612421	Soil	0.21	7.6	1.6	<0.05	1.8	29.54	29.6	0.04	<1	0.7	7.2	<10	<2
612422	Soil	0.14	6.2	1.7	<0.05	1.2	22.06	37.5	0.03	<1	1.5	6.3	<10	<2
612423	Soil	0.27	6.1	4.9	<0.05	1.9	28.96	45.4	0.03	<1	0.9	17.8	<10	<2
612424	Soil	0.16	6.6	2.3	<0.05	3.3	15.84	32.0	0.03	<1	1.0	8.4	<10	<2
612425	Soil	0.20	6.1	1.0	<0.05	2.3	14.65	39.1	0.03	<1	0.7	13.1	10	<2
612426	Soil	0.06	3.4	12.9	<0.05	1.8	11.45	22.0	<0.02	<1	0.6	2.2	<10	<2
612427	Soil	0.21	7.0	2.5	<0.05	1.9	17.16	34.2	0.03	<1	0.8	7.5	<10	<2
612428	Soil	0.20	7.1	2.6	<0.05	1.9	19.30	47.2	<0.02	<1	1.0	10.5	<10	<2
612429	Soil	0.27	12.8	3.5	<0.05	0.9	5.11	14.5	<0.02	<1	0.8	13.4	<10	<2
612430	Soil	0.41	14.1	2.5	<0.05	1.0	5.11	14.5	<0.02	<1	0.9	17.6	<10	<2
612431	Soil	0.30	8.3	1.1	<0.05	1.6	9.54	28.8	0.03	<1	1.0	11.8	<10	<2
612432	Soil	0.17	9.6	1.9	<0.05	2.4	6.92	29.8	0.08	<1	1.9	42.6	<10	<2
612433	Soil	0.15	11.1	5.0	<0.05	0.8	8.25	15.2	0.04	<1	1.5	36.5	<10	<2
612434	Soil	0.11	7.3	3.7	<0.05	3.2	15.25	52.9	0.03	<1	1.0	31.5	14	<2
612435	Soil	0.07	4.3	9.7	<0.05	3.0	14.21	34.8	0.02	<1	0.5	10.0	<10	<2
612436	Soil	0.14	11.1	2.8	<0.05	0.9	5.61	9.4	0.02	<1	0.8	15.2	<10	<2
612437	Soil	0.17	8.4	3.8	<0.05	2.2	17.70	17.1	0.03	<1	1.1	14.9	<10	<2
612438	Soil	0.10	7.8	2.6	<0.05	0.5	14.87	17.4	0.03	<1	0.8	11.8	<10	<2
612439	Soil	0.15	10.8	1.7	<0.05	1.1	5.28	11.4	0.03	<1	0.7	13.2	<10	<2
612440	Soil	0.12	7.8	4.2	<0.05	1.8	13.42	15.9	0.02	<1	0.7	11.4	<10	<2
612441	Soil	0.12	11.5	2.7	<0.05	1.0	4.32	12.7	0.03	<1	0.3	21.5	<10	<2
612442	Soil	0.12	10.9	3.1	<0.05	0.5	2.99	7.4	<0.02	<1	0.8	15.1	<10	<2
612443	Soil	0.23	9.6	5.0	<0.05	0.4	4.73	12.3	0.03	<1	0.7	13.0	<10	<2
612444	Soil	0.33	9.2	4.4	<0.05	0.3	6.52	20.1	0.02	<1	0.9	22.5	<10	<2
612445	Soil	0.25	8.1	2.0	<0.05	0.7	4.47	14.8	0.04	1	0.8	20.7	<10	<2
118251	Soil	0.10	7.6	3.2	<0.05	3.2	13.57	17.8	0.04	<1	0.7	15.3	<10	5
118252	Soil	0.10	8.9	4.5	<0.05	2.7	14.17	14.1	0.03	<1	1.1	19.8	11	4
118253	Soil	0.08	4.4	4.2	<0.05	1.9	8.43	13.2	<0.02	<1	0.6	4.4	28	4
118254	Soil	0.05	3.0	4.6	<0.05	2.6	8.05	11.1	<0.02	<1	0.5	2.2	20	4
118255	Soil	0.07	6.6	1.7	<0.05	1.8	12.71	18.3	0.03	2	0.8	7.4	22	2



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 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 7 of 10 Part 1

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
118256	Soil	0.98	29.69	58.75	86.2	133	38.4	13.4	279	3.32	14.2	1.1	1.6	3.0	28.7	0.16	0.56	0.38	11	0.63	0.063
118257	Soil	0.60	39.83	71.70	728.7	104	38.7	14.2	1073	3.59	360.8	1.6	8.9	3.9	144.8	0.57	18.99	0.34	21	6.00	0.144
118258	Soil	0.63	23.78	35.81	94.6	123	29.6	10.4	384	3.25	10.2	0.9	0.5	2.7	57.4	0.20	0.47	0.33	12	0.74	0.074
118259	Soil	0.72	34.18	44.37	132.3	315	39.8	16.6	711	3.94	14.9	0.9	0.9	3.2	64.5	0.22	0.43	0.35	11	0.75	0.095
118260	Soil	0.81	36.20	81.31	79.6	249	38.5	16.5	660	4.11	9.6	0.7	0.5	3.6	68.0	0.11	0.35	0.40	13	0.81	0.079
118261	Soil	1.16	32.36	71.95	98.7	208	25.4	12.2	376	3.73	8.0	0.7	<0.2	3.9	38.1	0.10	0.40	0.37	13	0.26	0.043
118262	Soil	0.53	29.74	35.39	96.8	133	30.1	14.6	513	3.71	6.8	0.6	<0.2	3.0	27.0	0.08	0.27	0.32	9	0.12	0.036
118263	Soil	0.69	35.57	34.49	105.8	153	37.4	15.8	344	3.78	16.8	0.7	<0.2	3.4	35.5	0.10	0.39	0.35	11	0.27	0.060
118264	Soil	0.98	14.74	20.24	44.8	111	11.4	6.5	327	2.12	5.1	0.5	<0.2	0.2	6.4	0.07	0.35	0.19	18	0.04	0.082
118265	Soil	0.68	31.04	23.87	83.2	240	24.3	10.8	572	3.61	7.1	1.5	0.2	2.0	63.5	0.15	0.31	0.26	19	0.93	0.100
118266	Soil	0.85	34.86	29.65	87.0	305	27.8	13.5	597	3.69	8.7	1.7	0.8	2.5	50.5	0.18	0.43	0.28	19	0.66	0.107
118267	Soil	0.59	26.42	22.19	78.5	155	20.8	8.9	420	3.62	6.5	1.1	0.2	2.1	41.1	0.18	0.28	0.29	21	0.37	0.110
118268	Soil	0.73	30.78	21.20	66.0	34	18.4	9.5	393	3.51	6.1	0.5	<0.2	0.3	5.4	0.08	0.35	0.26	23	0.03	0.067
118269	Soil	0.87	28.39	25.20	83.4	40	25.0	10.4	353	3.42	11.5	0.7	0.2	0.7	24.9	0.08	0.41	0.32	25	0.23	0.088
118270	Soil	0.82	31.01	24.70	67.5	113	23.1	8.7	310	3.18	6.1	0.8	0.6	1.2	37.2	0.07	0.30	0.33	29	0.31	0.142
118271	Soil	0.86	24.97	21.15	82.2	70	21.6	9.5	477	2.89	10.6	0.6	0.7	0.6	24.0	0.22	0.41	0.26	25	0.25	0.095
118272	Soil	0.77	24.87	21.01	74.3	52	22.7	9.7	360	2.94	12.1	0.6	0.2	0.8	17.2	0.17	0.47	0.27	29	0.12	0.070
118273	Soil	0.82	21.53	24.08	58.7	64	18.9	8.0	315	2.59	10.8	0.7	0.3	0.4	24.0	0.10	0.40	0.30	26	0.19	0.097
118274	Soil	0.94	22.42	19.49	70.1	52	20.5	8.4	333	2.85	14.0	0.5	0.3	0.4	34.6	0.11	0.55	0.30	30	0.40	0.088
118275	Soil	0.65	31.02	21.26	97.3	127	25.4	10.4	298	3.26	17.5	1.6	1.3	1.9	38.5	0.13	0.53	0.31	27	0.37	0.090
118276	Soil	0.74	36.96	26.35	89.4	143	33.9	17.5	732	3.94	16.4	1.6	1.6	2.8	35.3	0.16	0.54	0.28	22	0.41	0.053
118277	Soil	0.64	36.41	26.33	108.5	124	30.3	13.9	404	3.57	12.2	1.8	1.7	1.9	77.1	0.22	0.45	0.34	20	1.09	0.086
118278	Soil	0.63	23.46	22.90	84.6	109	21.9	10.7	530	2.91	9.8	2.6	2.3	1.2	88.0	0.22	0.46	0.38	19	1.18	0.087
118279	Soil	4.57	67.60	30.68	100.7	790	36.6	13.2	348	2.83	47.0	1.3	12.5	3.7	45.6	1.19	3.07	0.38	17	1.75	0.077
118280	Soil	0.70	29.96	19.82	102.4	205	18.3	8.8	551	2.59	13.2	4.9	3.6	0.7	91.5	0.55	1.45	0.29	19	1.64	0.103
118281	Soil	0.61	32.26	20.61	120.6	160	26.8	10.5	412	3.31	24.8	2.5	3.0	1.9	48.1	0.42	1.53	0.28	23	0.91	0.090
118282	Soil	1.15	24.78	22.70	94.7	44	29.0	12.0	520	3.56	18.3	1.7	1.4	1.2	27.4	0.13	0.93	0.36	40	0.45	0.058
118283	Soil	1.01	19.39	18.14	84.6	42	20.5	9.4	575	3.49	24.2	0.7	0.7	0.7	25.3	0.14	1.34	0.38	40	0.42	0.086
118284	Soil	0.93	32.80	27.28	131.8	73	27.6	16.1	943	3.78	14.8	0.8	0.3	1.0	38.3	0.21	0.56	0.35	36	0.37	0.121
118285	Soil	0.85	31.12	31.57	73.6	74	25.5	19.5	1073	3.71	20.3	1.0	0.3	2.3	12.3	0.20	0.53	0.30	27	0.08	0.071



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 7 of 10 Part 2

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
118256	Soil	11.2	8.4	0.11	121.8	0.004	5	0.58	0.004	0.08	<0.1	4.5	0.36	0.04	829	0.2	0.04	1.3	5.39	<0.1	0.06
118257	Soil	8.3	19.0	0.86	195.6	0.004	3	1.27	0.009	0.16	0.4	3.7	0.37	<0.02	770	0.2	0.04	4.7	4.43	<0.1	0.07
118258	Soil	14.2	8.1	0.10	141.7	0.002	5	0.70	0.004	0.12	<0.1	4.2	0.13	0.05	101	0.3	0.04	1.5	1.17	<0.1	0.07
118259	Soil	13.7	8.1	0.11	146.8	0.003	4	0.57	0.006	0.12	<0.1	4.4	0.31	0.09	239	0.4	0.06	1.2	2.18	<0.1	0.07
118260	Soil	7.4	9.6	0.14	141.7	0.002	4	0.55	0.018	0.13	<0.1	5.2	0.15	0.19	158	0.4	0.06	1.2	2.76	<0.1	0.05
118261	Soil	4.8	18.8	0.18	85.5	0.004	4	0.79	0.008	0.11	<0.1	4.5	0.13	0.06	59	<0.1	<0.02	2.5	3.39	<0.1	0.04
118262	Soil	3.0	7.8	0.06	87.3	0.001	1	0.48	0.012	0.07	<0.1	3.8	0.15	0.07	40	<0.1	0.03	1.2	2.34	<0.1	0.04
118263	Soil	5.5	7.2	0.06	71.0	0.002	2	0.41	0.005	0.07	<0.1	3.8	0.13	0.03	101	0.4	0.05	1.2	2.22	<0.1	0.04
118264	Soil	3.3	9.9	0.05	38.8	0.003	1	0.42	0.002	0.04	<0.1	0.5	0.07	0.07	61	<0.1	0.08	2.3	1.71	<0.1	<0.02
118265	Soil	8.6	14.1	0.20	117.1	0.002	4	0.88	0.003	0.08	<0.1	6.0	0.09	0.09	82	0.4	0.03	2.1	1.72	<0.1	0.06
118266	Soil	8.9	16.4	0.21	109.4	0.003	2	1.01	0.002	0.07	<0.1	6.7	0.11	0.07	91	0.4	0.03	2.9	3.27	<0.1	0.06
118267	Soil	7.1	16.5	0.21	101.9	0.003	3	1.12	0.002	0.08	<0.1	5.2	0.09	0.07	61	0.1	<0.02	2.8	2.43	<0.1	0.06
118268	Soil	3.7	15.5	0.06	36.4	0.003	1	0.77	0.001	0.06	<0.1	1.3	0.12	0.04	33	0.2	0.03	2.6	3.46	<0.1	<0.02
118269	Soil	6.9	16.4	0.14	100.7	0.003	2	1.01	0.004	0.05	<0.1	1.4	0.11	0.05	29	<0.1	<0.02	3.4	4.77	<0.1	<0.02
118270	Soil	9.5	24.1	0.24	208.2	0.002	2	1.62	0.002	0.10	<0.1	2.1	0.19	0.07	50	0.2	<0.02	5.0	11.71	<0.1	0.04
118271	Soil	6.8	16.0	0.18	127.0	0.004	2	1.06	0.002	0.07	<0.1	1.8	0.11	0.05	51	0.2	0.04	3.2	3.68	<0.1	0.02
118272	Soil	7.1	19.5	0.22	141.3	0.006	<1	1.05	0.002	0.06	<0.1	1.7	0.10	0.03	37	0.2	0.02	3.9	4.50	<0.1	<0.02
118273	Soil	6.2	16.2	0.15	116.9	0.004	2	0.94	0.003	0.07	<0.1	1.0	0.13	0.05	31	<0.1	0.05	3.8	4.36	<0.1	0.03
118274	Soil	6.4	17.2	0.20	138.2	0.005	1	1.02	0.002	0.05	<0.1	1.1	0.12	0.04	30	<0.1	<0.02	3.9	2.01	<0.1	<0.02
118275	Soil	8.9	18.9	0.22	153.9	0.003	<1	1.22	0.003	0.07	<0.1	4.6	0.14	0.04	170	0.1	0.07	3.4	2.43	<0.1	0.07
118276	Soil	13.5	16.7	0.24	149.3	0.005	2	1.02	0.003	0.07	<0.1	7.0	0.13	0.03	107	0.1	<0.02	3.0	9.23	<0.1	0.04
118277	Soil	19.0	17.2	0.29	139.8	0.004	3	1.09	0.004	0.07	<0.1	5.2	0.08	0.07	101	0.3	0.08	2.8	2.46	<0.1	0.06
118278	Soil	13.4	15.1	0.30	110.5	0.004	3	0.99	0.004	0.05	<0.1	2.7	0.08	0.08	77	0.6	0.06	2.7	1.35	<0.1	0.04
118279	Soil	8.8	6.9	0.88	59.4	0.001	3	0.31	0.003	0.07	<0.1	6.1	0.21	0.02	813	1.8	0.09	0.8	0.62	<0.1	0.06
118280	Soil	15.1	11.9	0.17	134.9	0.004	4	0.68	0.003	0.05	<0.1	1.8	0.09	0.12	177	0.7	0.03	1.7	0.56	<0.1	0.04
118281	Soil	19.8	17.6	0.22	96.3	0.002	3	0.63	0.003	0.07	<0.1	3.5	0.10	0.07	811	1.4	0.04	1.7	0.64	<0.1	0.06
118282	Soil	8.9	27.2	0.38	151.3	0.005	2	1.35	0.002	0.07	0.1	2.1	0.18	0.03	100	0.6	0.05	4.6	2.79	<0.1	<0.02
118283	Soil	6.4	23.0	0.28	145.4	0.006	2	1.14	0.003	0.06	0.1	2.0	0.12	0.05	535	0.4	0.03	4.3	1.49	<0.1	<0.02
118284	Soil	6.9	25.5	0.42	167.8	0.004	2	1.84	0.003	0.13	<0.1	2.5	0.15	0.07	102	0.3	0.03	5.8	12.80	<0.1	0.03
118285	Soil	7.5	24.9	0.31	81.3	0.003	1	1.40	0.002	0.08	<0.1	3.1	0.12	0.04	164	0.1	<0.02	4.8	4.43	<0.1	0.03



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 7 of 10 Part 3

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
118256	Soil	0.17	6.7	6.7	<0.05	2.2	13.70	25.1	<0.02	<1	0.5	5.2	<10	3
118257	Soil	0.24	11.8	8.8	<0.05	3.5	8.99	20.7	<0.02	2	1.1	16.6	61	4
118258	Soil	0.11	7.6	2.8	<0.05	2.4	16.57	30.0	0.04	1	1.0	6.2	<10	4
118259	Soil	0.09	8.1	2.9	<0.05	2.4	18.18	36.6	0.04	1	1.0	6.3	10	2
118260	Soil	0.08	8.6	5.4	<0.05	2.3	17.25	21.9	0.04	<1	0.9	8.7	<10	3
118261	Soil	0.08	8.7	23.4	<0.05	3.0	8.73	13.3	<0.02	2	1.1	23.3	11	4
118262	Soil	0.05	5.3	2.5	<0.05	2.1	7.31	8.2	0.02	<1	1.0	9.3	<10	3
118263	Soil	0.06	5.2	1.6	<0.05	2.3	11.08	15.1	0.03	2	0.6	7.0	<10	3
118264	Soil	0.14	7.7	5.4	<0.05	0.1	2.13	6.8	<0.02	<1	0.2	3.6	<10	3
118265	Soil	0.16	6.7	1.9	<0.05	1.6	24.33	20.9	0.05	1	1.2	16.7	<10	3
118266	Soil	0.17	8.7	1.4	<0.05	1.7	27.63	21.1	0.04	<1	0.9	24.1	<10	<2
118267	Soil	0.16	9.9	3.4	<0.05	1.2	17.44	19.5	0.05	1	1.2	22.5	<10	<2
118268	Soil	0.15	9.7	4.4	<0.05	0.3	3.75	10.2	0.02	<1	0.4	4.6	<10	<2
118269	Soil	0.25	12.2	2.5	<0.05	0.5	6.00	14.3	0.04	<1	0.6	13.4	<10	3
118270	Soil	0.40	19.1	3.2	<0.05	1.3	11.40	20.6	0.04	<1	1.3	21.2	<10	3
118271	Soil	0.22	11.9	2.9	<0.05	0.5	9.26	16.1	0.02	<1	0.7	15.0	<10	3
118272	Soil	0.24	10.9	1.8	<0.05	0.3	6.17	15.7	0.03	<1	0.8	17.2	<10	3
118273	Soil	0.21	11.1	8.7	<0.05	0.5	5.06	12.3	<0.02	<1	0.7	9.5	<10	4
118274	Soil	0.24	11.0	2.1	<0.05	0.4	4.37	13.0	0.03	<1	0.8	10.9	<10	2
118275	Soil	0.28	9.9	3.5	<0.05	1.6	14.16	19.0	0.04	1	0.7	13.3	<10	3
118276	Soil	0.25	9.8	2.2	<0.05	1.7	22.23	25.3	0.03	<1	1.1	15.7	<10	3
118277	Soil	0.30	7.2	1.9	<0.05	1.6	24.42	39.2	0.04	<1	1.2	18.4	<10	<2
118278	Soil	0.25	5.6	1.0	<0.05	1.3	16.75	34.9	0.05	<1	0.9	17.8	<10	<2
118279	Soil	0.04	3.0	3.0	<0.05	2.5	16.12	25.8	0.05	1	0.8	3.0	<10	<2
118280	Soil	0.25	5.1	3.0	<0.05	1.2	12.39	30.8	0.04	<1	0.9	6.2	<10	<2
118281	Soil	0.17	4.8	3.5	<0.05	1.9	16.03	40.4	0.03	<1	1.0	7.2	<10	<2
118282	Soil	0.52	10.7	1.5	<0.05	0.5	6.12	22.8	0.04	<1	0.8	16.1	<10	<2
118283	Soil	0.37	10.0	3.5	<0.05	0.2	4.67	17.8	0.04	<1	0.6	12.6	<10	<2
118284	Soil	0.58	19.8	5.9	<0.05	0.9	7.54	15.1	<0.02	<1	1.1	30.5	12	<2
118285	Soil	0.28	10.8	8.0	<0.05	0.9	3.93	22.2	0.03	<1	1.0	28.5	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 27, 2011

Page: 8 of 10 Part 1

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
118286	Soil			0.62	40.18	30.81	92.4	63	31.4	22.9	1391	4.04	17.7	1.7	1.7	2.8	15.6	0.08	0.47	0.36	22	0.11	0.061
118287	Soil			0.84	76.65	56.96	131.5	79	39.7	28.8	1945	4.39	15.8	1.6	1.9	3.0	17.6	0.26	0.57	0.42	25	0.11	0.072
118288	Soil			0.92	33.82	24.41	78.0	72	22.6	13.0	612	3.92	14.8	0.6	1.0	1.4	10.8	0.11	0.59	0.36	29	0.08	0.055
118289	Soil			0.70	36.73	21.16	108.7	117	33.9	14.0	243	3.26	12.8	1.9	3.7	2.7	47.2	0.15	0.83	0.24	18	0.99	0.065
118290	Soil			0.41	31.47	35.64	109.8	169	37.4	15.8	330	3.97	7.3	0.4	0.5	4.7	103.2	0.09	0.23	0.37	7	1.44	0.032
118291	Soil			0.59	33.24	35.41	110.6	222	34.9	13.6	291	3.90	8.0	0.6	0.6	2.2	52.3	0.14	0.38	0.35	14	0.85	0.067
118292	Soil			0.58	29.85	39.73	137.9	229	33.5	13.4	353	3.53	8.7	0.7	1.9	2.0	52.2	0.24	0.54	0.32	14	1.11	0.079
118293	Soil			0.89	24.56	31.36	109.3	162	28.3	9.9	348	3.09	10.4	1.1	1.4	1.2	55.4	0.32	0.62	0.26	17	0.90	0.087
118294	Soil			0.70	26.59	26.87	94.9	76	24.5	9.1	274	3.26	8.1	0.6	0.3	0.9	28.6	0.15	0.36	0.33	18	0.37	0.070
118295	Soil			0.74	30.53	30.07	87.7	303	28.1	10.9	300	3.48	8.9	0.9	0.7	1.9	70.6	0.17	0.37	0.28	16	1.03	0.098
118296	Soil			0.91	27.98	27.83	95.1	144	23.3	13.5	630	3.32	6.2	0.6	0.6	1.6	48.3	0.31	0.37	0.25	15	0.81	0.124
118297	Soil			0.71	28.17	25.29	88.8	58	26.8	12.8	444	3.62	8.1	0.8	2.2	2.0	35.9	0.16	0.42	0.27	23	0.43	0.100
118298	Soil			0.72	26.71	25.73	81.9	104	20.3	10.3	482	3.29	6.5	0.6	0.4	0.5	26.7	0.18	0.36	0.29	23	0.33	0.124
118299	Soil			0.80	27.07	27.35	82.2	71	20.9	10.6	608	3.68	6.6	0.8	1.2	0.4	12.7	0.16	0.41	0.29	27	0.14	0.103
118300	Soil			0.83	31.51	21.99	84.6	39	33.8	14.3	374	3.39	9.8	0.7	1.3	2.7	11.4	0.12	0.54	0.26	29	0.13	0.052
120951	Soil			0.83	32.04	23.21	85.2	76	29.6	12.6	531	3.52	18.4	2.0	1.4	0.8	41.2	0.09	0.61	0.35	31	0.53	0.095
120952	Soil			1.04	30.38	23.84	82.1	79	23.0	15.8	1020	3.10	14.6	1.9	1.2	1.2	58.0	0.14	0.57	0.32	33	0.69	0.166
120953	Soil			0.57	25.52	21.24	67.1	107	24.5	13.6	430	3.49	14.1	1.3	0.8	2.4	18.5	0.05	0.42	0.30	28	0.15	0.044
120954	Soil			0.80	89.36	83.39	139.3	93	43.6	35.9	906	4.67	21.6	1.2	1.3	3.4	23.0	0.08	0.51	0.49	22	0.17	0.056
120955	Soil			1.01	42.22	28.00	86.7	49	30.2	17.9	1197	4.57	24.7	1.0	1.0	1.1	18.6	0.13	0.73	0.37	30	0.20	0.088
120956	Soil			1.50	55.43	54.69	104.0	135	42.0	25.1	619	3.72	30.3	1.2	2.9	3.2	40.0	0.16	0.79	0.32	20	0.56	0.054
120957	Soil			0.73	47.80	24.72	87.3	154	29.8	12.5	448	3.19	20.8	2.5	2.0	2.0	47.6	0.14	0.64	0.30	20	0.80	0.066
120958	Soil			0.73	44.69	22.61	102.2	160	33.9	13.7	522	3.29	16.7	2.3	3.0	3.0	41.0	0.15	0.55	0.27	22	0.71	0.069
120959	Soil			0.90	30.66	23.81	86.7	53	23.0	13.5	678	3.46	17.0	0.7	0.6	0.5	13.8	0.15	0.51	0.31	25	0.12	0.095
120960	Soil			0.46	27.01	13.27	51.6	54	22.3	10.7	366	2.35	15.2	1.4	0.8	3.5	450.2	0.12	0.35	0.18	12	10.32	0.041
120961	Soil			0.46	21.00	15.98	71.7	79	16.6	8.7	349	2.07	10.7	3.0	1.4	0.9	136.5	0.41	0.35	0.17	14	2.32	0.062
120962	Soil			0.82	22.66	29.77	65.4	85	19.9	14.0	771	3.28	10.1	2.3	0.7	1.8	43.5	0.21	0.40	0.29	26	0.66	0.063
120963	Soil			0.44	44.82	11.69	31.4	139	16.8	6.3	455	1.27	5.3	3.8	0.6	0.2	200.4	0.11	0.38	0.12	10	3.50	0.094
120964	Soil			0.79	32.63	42.73	89.3	103	35.0	23.7	601	4.87	27.0	0.7	0.6	2.8	34.9	0.12	0.53	0.40	23	0.34	0.044
120965	Soil			0.52	29.62	30.99	87.2	90	31.3	15.7	528	3.75	13.2	1.0	0.6	3.7	63.4	0.09	0.31	0.28	23	1.03	0.033



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: August 27, 2011

Page: 8 of 10 Part 2

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
118286	Soil	6.7	24.3	0.51	82.5	0.002	2	1.55	0.003	0.09	<0.1	4.3	0.10	0.03	77	0.1	0.08	4.2	4.22	<0.1	0.06
118287	Soil	7.2	32.4	0.88	87.1	0.004	2	2.03	0.006	0.09	<0.1	5.8	0.13	0.04	79	0.4	0.06	5.5	10.67	<0.1	0.04
118288	Soil	6.0	25.0	0.31	67.2	0.005	2	1.18	0.004	0.07	<0.1	2.4	0.09	0.03	92	0.2	0.05	5.4	3.96	<0.1	<0.02
118289	Soil	17.3	32.5	0.79	126.2	0.002	3	1.02	0.003	0.07	<0.1	5.3	0.12	0.08	214	1.7	<0.02	2.8	2.79	<0.1	0.07
118290	Soil	3.2	10.3	0.18	91.8	0.001	2	0.61	0.005	0.07	<0.1	5.4	0.17	0.05	63	0.3	0.04	1.7	2.38	<0.1	0.06
118291	Soil	7.2	13.5	0.21	130.2	0.002	2	0.85	0.005	0.07	<0.1	4.2	0.10	0.05	131	0.4	0.04	2.0	1.11	<0.1	0.07
118292	Soil	8.7	12.1	0.37	143.5	0.002	3	0.78	0.007	0.09	<0.1	3.4	0.12	0.05	219	0.3	0.03	1.9	1.06	<0.1	0.06
118293	Soil	8.2	16.2	0.20	140.6	0.003	2	0.96	0.007	0.07	<0.1	2.5	0.09	0.08	114	0.4	0.03	2.3	1.22	<0.1	0.05
118294	Soil	4.9	14.6	0.16	101.8	0.002	<1	0.81	0.004	0.07	<0.1	2.3	0.08	0.04	33	0.2	0.06	2.6	3.68	<0.1	0.02
118295	Soil	6.0	15.2	0.16	111.1	0.002	2	0.80	0.008	0.08	<0.1	4.9	0.11	0.10	65	0.2	0.04	2.0	3.83	<0.1	0.08
118296	Soil	4.0	17.4	0.23	115.6	0.003	2	0.97	0.009	0.08	<0.1	3.4	0.07	0.12	37	0.2	0.04	2.9	1.30	<0.1	0.06
118297	Soil	6.7	21.7	0.31	133.6	0.003	1	1.29	0.005	0.06	<0.1	3.7	0.10	0.04	20	0.2	0.06	3.6	2.36	<0.1	0.05
118298	Soil	4.2	20.7	0.23	120.3	0.002	1	1.17	0.005	0.08	<0.1	1.0	0.10	0.07	19	0.2	0.05	3.8	1.76	<0.1	0.03
118299	Soil	4.6	23.3	0.24	99.4	0.003	<1	1.41	0.004	0.07	<0.1	1.1	0.12	0.08	32	0.2	0.06	4.6	2.23	<0.1	<0.02
118300	Soil	8.5	23.9	0.39	79.5	0.007	1	1.40	0.004	0.06	<0.1	3.1	0.11	<0.02	21	0.3	0.05	4.0	2.51	<0.1	<0.02
120951	Soil	6.9	27.7	0.39	138.5	0.003	1	1.41	0.004	0.10	<0.1	2.4	0.16	0.05	291	0.4	0.07	5.1	7.66	<0.1	0.03
120952	Soil	8.3	25.5	0.41	156.6	0.006	2	1.51	0.005	0.10	<0.1	2.5	0.13	0.10	174	0.4	0.05	4.8	7.23	<0.1	0.06
120953	Soil	6.2	27.8	0.45	83.4	0.001	2	1.57	0.004	0.10	<0.1	3.5	0.11	0.03	161	0.3	0.05	5.1	3.55	<0.1	0.04
120954	Soil	7.0	29.7	0.72	87.6	0.002	2	1.80	0.003	0.11	<0.1	5.5	0.14	0.03	128	0.2	0.13	4.9	10.93	<0.1	0.07
120955	Soil	8.3	32.1	0.39	94.9	0.003	1	1.55	0.003	0.09	<0.1	2.1	0.12	0.04	182	0.4	0.11	5.3	4.79	<0.1	0.03
120956	Soil	10.9	32.7	0.58	64.1	0.002	1	1.29	0.004	0.08	<0.1	4.0	0.11	0.04	406	0.3	0.03	3.3	3.90	<0.1	0.04
120957	Soil	10.8	25.9	0.50	114.8	0.003	2	1.36	0.005	0.10	<0.1	4.2	0.12	0.06	297	0.5	0.04	3.8	4.71	<0.1	0.07
120958	Soil	13.3	32.2	0.65	110.7	0.003	2	1.42	0.004	0.08	<0.1	6.0	0.09	0.05	268	0.6	0.04	3.7	3.19	<0.1	0.09
120959	Soil	6.2	26.7	0.40	73.6	0.002	1	1.24	0.003	0.08	<0.1	1.2	0.10	0.06	101	0.2	0.05	4.3	4.01	<0.1	<0.02
120960	Soil	6.7	12.2	0.97	48.3	0.003	1	0.64	0.005	0.05	<0.1	3.5	0.04	<0.02	499	0.2	0.04	1.8	1.26	<0.1	0.06
120961	Soil	8.7	13.6	0.31	81.9	0.002	2	0.75	0.005	0.05	<0.1	2.6	0.06	0.10	267	0.4	0.04	1.8	0.60	<0.1	0.05
120962	Soil	9.7	19.5	0.33	84.6	0.003	<1	1.30	0.005	0.08	<0.1	3.1	0.08	0.05	102	0.2	0.07	3.8	1.69	<0.1	0.04
120963	Soil	6.1	10.1	0.17	96.5	0.003	2	0.77	0.007	0.04	<0.1	0.9	0.06	0.18	247	0.7	<0.02	1.8	1.28	<0.1	0.05
120964	Soil	5.9	24.5	0.36	77.5	0.002	1	1.59	0.004	0.09	<0.1	4.8	0.10	0.04	93	0.2	0.09	4.9	2.99	<0.1	0.05
120965	Soil	9.8	27.9	0.43	99.6	0.001	2	1.64	0.005	0.07	<0.1	5.3	0.11	0.03	103	0.2	0.04	4.5	1.69	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 8 of 10 Part 3

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppm	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
118286	Soil	0.13	9.8	2.1	<0.05	1.5	7.17	20.0	0.05	<1	1.3	40.8	<10	<2
118287	Soil	0.15	11.1	9.4	<0.05	1.7	10.86	23.4	0.05	<1	2.0	57.7	<10	<2
118288	Soil	0.51	10.9	4.7	<0.05	0.4	2.96	14.7	0.03	<1	0.8	24.0	<10	<2
118289	Soil	0.20	6.2	4.5	<0.05	2.9	12.86	35.6	0.04	1	0.8	22.9	<10	<2
118290	Soil	0.05	5.8	1.1	<0.05	3.2	10.90	11.5	0.04	<1	0.9	17.0	<10	<2
118291	Soil	0.12	5.9	2.2	<0.05	2.2	16.33	18.0	0.06	<1	1.0	18.2	<10	<2
118292	Soil	0.12	5.5	2.2	<0.05	1.9	14.96	22.5	0.04	<1	0.9	13.1	<10	<2
118293	Soil	0.27	8.7	7.1	<0.05	1.3	11.21	22.1	0.04	<1	1.0	14.6	<10	<2
118294	Soil	0.16	9.6	2.7	<0.05	0.7	7.05	11.3	0.04	<1	0.7	13.8	<10	<2
118295	Soil	0.21	9.3	5.4	<0.05	2.2	18.06	12.8	0.04	<1	0.9	13.4	<10	<2
118296	Soil	0.21	7.3	3.7	<0.05	1.8	8.72	16.8	0.03	<1	0.8	22.5	<10	<2
118297	Soil	0.18	11.1	1.9	<0.05	1.5	10.68	20.8	0.03	<1	1.0	32.3	<10	<2
118298	Soil	0.16	12.7	7.2	<0.05	0.5	5.32	15.2	0.05	<1	0.7	19.8	<10	<2
118299	Soil	0.25	13.0	4.9	<0.05	0.4	5.04	13.2	0.04	<1	0.9	23.3	<10	<2
118300	Soil	0.30	9.8	1.5	<0.05	0.7	6.29	25.6	0.03	<1	0.8	30.1	<10	<2
120951	Soil	0.35	14.6	4.1	<0.05	1.0	9.02	13.0	0.03	<1	1.0	22.8	<10	<2
120952	Soil	0.47	17.1	1.4	<0.05	1.7	7.47	21.9	0.03	<1	1.5	20.0	<10	<2
120953	Soil	0.22	11.1	4.2	<0.05	1.1	4.20	14.9	0.04	<1	0.9	33.3	<10	<2
120954	Soil	0.08	10.9	7.1	<0.05	2.5	10.12	26.7	0.04	<1	2.4	52.3	<10	<2
120955	Soil	0.20	14.8	1.4	<0.05	1.0	5.40	20.9	0.04	<1	1.0	27.0	<10	<2
120956	Soil	0.21	7.0	13.4	<0.05	1.8	10.49	33.9	0.05	<1	1.4	33.6	<10	<2
120957	Soil	0.28	13.3	4.5	<0.05	2.2	12.38	22.7	0.04	<1	1.1	28.6	<10	<2
120958	Soil	0.29	8.2	3.1	<0.05	2.8	14.37	30.3	0.03	<1	1.2	29.9	<10	<2
120959	Soil	0.18	13.0	4.1	<0.05	0.5	3.39	15.3	0.03	<1	0.8	21.3	<10	<2
120960	Soil	0.04	3.4	0.3	<0.05	3.8	7.21	16.0	<0.02	<1	0.5	19.0	<10	<2
120961	Soil	0.24	5.1	3.7	<0.05	2.1	8.46	20.5	0.02	<1	0.6	13.4	<10	<2
120962	Soil	0.37	8.2	5.4	<0.05	1.1	10.01	29.6	0.04	<1	1.0	28.5	<10	<2
120963	Soil	0.30	3.9	4.0	<0.05	2.4	8.83	8.9	<0.02	<1	0.7	9.4	<10	<2
120964	Soil	0.39	10.2	3.5	<0.05	1.6	8.60	19.0	0.05	<1	1.2	38.6	<10	<2
120965	Soil	0.31	7.5	2.6	<0.05	2.3	13.34	28.9	0.05	<1	1.4	37.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 9 of 10 Part 1

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
120966	Soil			0.43	39.26	29.91	88.4	84	33.5	18.2	419	3.52	8.5	1.2	1.1	3.4	50.2	0.12	0.25	0.32	22	0.60	0.048
120967	Soil			0.72	55.34	53.31	152.3	357	66.0	32.4	846	5.47	10.6	0.7	0.3	6.3	34.0	0.12	0.32	0.44	13	0.44	0.055
120968	Soil			0.49	45.07	45.22	128.7	278	49.2	22.0	411	4.80	8.1	0.8	0.3	7.0	85.0	0.12	0.23	0.47	10	1.44	0.065
120969	Soil			0.81	41.18	50.90	180.4	244	62.0	23.9	919	6.81	7.9	0.6	0.5	7.8	50.5	0.10	0.21	0.43	9	0.43	0.051
120970	Soil			0.58	45.86	51.01	130.0	273	44.6	19.2	473	5.58	7.9	0.8	0.4	5.5	48.3	0.08	0.24	0.46	10	0.52	0.045
120971	Soil			0.66	55.85	57.68	187.5	179	114.2	42.5	1848	6.23	9.3	1.5	1.1	6.4	48.9	0.28	0.37	0.38	13	0.43	0.063
120972	Soil			0.55	30.58	45.15	154.0	206	34.8	12.2	266	3.38	13.7	1.1	2.4	2.9	109.4	0.19	0.91	0.33	9	3.58	0.085
120973	Soil			0.48	36.25	47.35	129.9	202	43.9	22.6	572	4.77	5.9	0.4	<0.2	4.2	23.9	0.10	0.26	0.37	11	0.22	0.037
120974	Soil			0.45	25.36	29.78	114.2	192	24.2	7.9	234	2.63	6.1	1.7	1.0	0.7	134.0	0.21	0.45	0.29	14	2.35	0.118
120975	Soil			0.56	22.49	34.58	162.0	158	24.0	8.5	494	2.87	10.8	0.8	1.4	1.4	67.8	0.42	0.71	0.25	19	2.45	0.101
120976	Soil			0.61	23.27	28.66	81.6	217	25.0	8.8	493	2.99	11.8	1.3	2.3	1.2	161.7	0.29	1.05	0.26	21	3.08	0.116
120977	Soil			0.54	23.65	28.83	100.4	158	23.6	8.2	248	3.24	6.8	0.9	<0.2	1.9	52.1	0.15	0.33	0.34	18	0.66	0.084
120978	Soil			0.70	40.45	30.63	100.8	431	35.2	17.0	556	4.44	11.3	1.0	1.0	4.2	29.1	0.18	0.42	0.30	21	0.48	0.081
120979	Soil			0.73	27.37	27.79	81.8	135	24.5	11.6	408	3.49	7.9	0.9	0.4	2.5	42.5	0.14	0.39	0.27	22	0.39	0.090
120980	Soil			0.71	27.49	24.42	77.1	72	21.8	10.2	427	3.11	6.3	0.7	0.4	1.8	46.7	0.10	0.36	0.29	22	0.66	0.115
120981	Soil			0.65	29.28	25.68	78.0	140	27.7	12.0	450	3.40	8.7	1.1	<0.2	2.8	39.7	0.12	0.43	0.26	25	0.56	0.087
120982	Soil			0.58	26.05	22.62	76.0	75	21.4	9.4	345	3.29	6.2	0.8	0.3	2.4	25.2	0.11	0.30	0.30	24	0.29	0.133
120983	Soil			0.74	23.94	17.81	60.8	31	14.2	6.9	365	2.86	6.5	0.5	<0.2	0.4	13.1	0.09	0.33	0.28	31	0.13	0.084
120984	Soil			0.97	27.90	19.32	70.0	72	22.5	9.4	339	3.17	7.5	0.7	<0.2	0.9	8.8	0.12	0.51	0.27	32	0.07	0.101
120985	Soil			1.13	24.75	16.41	67.6	58	21.2	7.9	189	2.65	8.5	0.7	1.6	0.6	10.3	0.10	0.54	0.26	33	0.07	0.075
120986	Soil			1.25	28.27	21.89	80.9	53	25.2	9.2	332	3.12	9.7	0.7	0.8	0.5	13.6	0.16	0.64	0.28	40	0.10	0.068
120987	Soil			0.81	36.60	26.70	92.8	163	32.6	14.8	621	3.48	11.5	1.4	2.5	3.9	51.4	0.23	0.62	0.29	27	0.71	0.068
120988	Soil			0.73	33.47	23.40	83.0	134	29.6	11.5	499	3.06	10.7	1.7	1.3	2.6	69.0	0.19	0.50	0.29	24	0.98	0.086
120989	Soil			0.69	39.50	27.64	92.2	86	32.7	15.1	369	3.16	14.5	1.3	1.3	3.1	68.2	0.18	0.44	0.32	19	1.05	0.066
120990	Soil			0.63	36.44	25.15	95.7	94	27.4	12.0	321	2.92	15.4	1.2	1.5	2.0	65.8	0.18	0.69	0.30	19	0.91	0.067
120991	Soil			0.66	46.38	30.62	107.0	127	34.2	16.9	444	2.84	205.5	0.8	11.4	1.3	59.6	0.25	6.01	0.34	22	1.13	0.045
120992	Soil			3.01	36.08	21.36	97.8	217	24.7	10.7	663	3.18	269.6	1.1	7.4	1.0	42.5	0.74	17.22	0.20	33	1.57	0.037
120993	Soil			2.23	62.94	25.60	111.4	681	31.9	13.5	348	2.94	54.1	4.7	27.3	1.4	93.2	0.60	3.09	0.27	24	1.81	0.074
120994	Soil			1.36	24.00	16.75	59.2	322	21.7	7.9	320	2.30	214.4	4.2	9.6	2.2	88.6	0.34	5.77	0.18	12	4.66	0.039
120995	Soil			0.79	34.54	28.29	105.7	274	35.6	14.5	417	2.68	43.7	1.4	6.8	3.3	27.9	0.36	2.33	0.31	21	0.43	0.053



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 9 of 10 Part 2

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
120966	Soil	8.5	31.7	0.53	118.5	0.002	1	1.74	0.004	0.09	<0.1	5.1	0.11	0.04	100	0.2	0.04	5.6	3.13	<0.1	0.06
120967	Soil	3.7	17.2	0.34	169.9	0.001	2	1.04	0.005	0.10	<0.1	8.2	0.20	0.05	119	0.3	0.05	2.7	3.90	<0.1	0.09
120968	Soil	4.3	10.6	0.23	103.7	<0.001	2	0.72	0.005	0.11	<0.1	5.8	0.21	0.07	208	0.4	0.06	1.7	2.42	<0.1	0.09
120969	Soil	4.4	14.5	0.21	126.9	<0.001	2	0.94	0.007	0.11	<0.1	10.4	0.42	0.07	99	0.2	0.04	2.4	5.57	<0.1	0.05
120970	Soil	3.5	16.7	0.23	113.7	<0.001	2	0.96	0.005	0.10	<0.1	6.6	0.27	0.05	108	0.4	0.07	2.5	4.01	<0.1	0.06
120971	Soil	6.4	19.6	0.25	103.2	0.002	2	1.25	0.007	0.10	<0.1	7.4	0.38	0.08	171	0.2	0.03	2.4	4.83	<0.1	0.07
120972	Soil	5.0	10.1	0.88	72.2	<0.001	3	0.64	0.005	0.09	<0.1	4.4	0.15	0.06	174	0.7	0.02	1.4	2.01	<0.1	0.08
120973	Soil	3.3	13.2	0.18	71.8	<0.001	2	0.96	0.002	0.09	<0.1	6.2	0.17	0.03	48	0.3	0.05	2.1	4.37	<0.1	0.05
120974	Soil	7.6	10.7	0.15	272.6	0.002	6	0.82	0.006	0.08	<0.1	1.5	0.14	0.14	165	0.6	0.04	1.8	1.40	<0.1	0.04
120975	Soil	10.8	13.3	0.79	161.5	0.003	3	0.89	0.005	0.08	<0.1	2.5	0.08	0.06	210	0.2	0.02	2.1	0.78	<0.1	0.05
120976	Soil	14.1	14.7	0.17	142.2	0.004	2	1.02	0.005	0.07	<0.1	2.4	0.09	0.09	202	0.5	0.05	2.1	0.95	<0.1	0.05
120977	Soil	7.0	13.7	0.14	143.2	0.002	1	1.03	0.003	0.08	<0.1	3.6	0.14	0.06	82	0.4	0.05	2.5	1.45	<0.1	0.07
120978	Soil	9.3	17.1	0.18	114.1	0.003	3	0.97	0.004	0.08	<0.1	9.7	0.12	0.04	88	0.4	0.07	2.0	3.88	<0.1	0.06
120979	Soil	6.1	18.7	0.21	114.2	0.003	1	1.18	0.002	0.07	<0.1	4.3	0.10	0.04	38	0.5	0.06	3.2	2.71	<0.1	0.06
120980	Soil	4.7	17.6	0.20	145.9	0.003	1	1.14	0.003	0.07	<0.1	3.2	0.10	0.05	26	0.3	0.05	3.5	1.99	<0.1	0.07
120981	Soil	10.6	20.6	0.28	159.0	0.004	2	1.34	0.003	0.06	<0.1	4.9	0.10	0.04	34	0.4	0.06	3.5	2.50	<0.1	0.09
120982	Soil	4.8	20.4	0.23	128.9	0.003	1	1.36	0.002	0.07	<0.1	3.9	0.11	0.06	22	0.2	0.05	3.7	2.66	<0.1	0.09
120983	Soil	4.4	16.7	0.09	99.3	0.003	<1	1.10	0.001	0.07	<0.1	1.1	0.14	0.05	9	0.5	0.10	4.8	2.60	<0.1	<0.02
120984	Soil	6.3	24.0	0.24	79.6	0.006	1	1.35	0.002	0.07	<0.1	1.8	0.12	0.05	29	0.4	0.03	4.0	2.37	<0.1	<0.02
120985	Soil	8.5	22.2	0.24	72.2	0.007	<1	1.32	0.003	0.07	<0.1	1.3	0.13	0.03	19	0.3	0.09	4.0	3.10	<0.1	<0.02
120986	Soil	9.7	23.2	0.22	126.2	0.010	1	1.33	0.003	0.09	<0.1	1.6	0.13	0.04	32	<0.1	0.08	4.5	3.12	<0.1	<0.02
120987	Soil	23.1	21.7	0.46	123.5	0.010	2	1.38	0.006	0.08	<0.1	8.9	0.07	0.04	96	0.3	0.07	3.5	1.44	<0.1	0.07
120988	Soil	18.8	21.4	0.38	124.7	0.007	3	1.32	0.005	0.07	<0.1	5.7	0.08	0.06	72	0.4	0.06	3.6	1.54	<0.1	0.09
120989	Soil	14.3	16.5	0.26	76.8	0.004	3	0.93	0.004	0.08	<0.1	5.8	0.06	0.04	75	0.3	0.09	2.3	1.70	<0.1	0.06
120990	Soil	16.1	15.2	0.15	74.0	0.003	2	0.76	0.004	0.08	<0.1	5.7	0.10	0.05	96	0.3	0.13	1.8	1.56	<0.1	0.06
120991	Soil	8.9	18.4	0.09	59.4	0.002	2	0.48	0.003	0.07	<0.1	5.6	0.75	0.04	10715	0.4	0.14	1.5	1.19	<0.1	0.02
120992	Soil	7.3	12.4	0.62	67.4	0.001	2	0.33	0.003	0.06	<0.1	4.3	1.25	0.03	3704	0.9	0.08	1.1	0.24	<0.1	0.03
120993	Soil	16.0	13.7	0.39	101.7	0.003	5	0.64	0.004	0.08	<0.1	3.4	0.17	0.05	345	1.0	0.05	1.6	0.42	<0.1	0.05
120994	Soil	12.7	8.6	0.75	31.6	0.002	3	0.23	0.004	0.04	<0.1	3.3	0.65	<0.02	6354	1.5	<0.02	0.6	0.40	<0.1	0.03
120995	Soil	22.6	21.4	0.27	73.2	0.007	4	0.64	0.004	0.06	<0.1	7.6	0.23	0.04	2609	1.3	0.03	1.8	1.57	<0.1	0.08



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 9 of 10 Part 3

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
120966	Soil	0.37	11.1	2.8	<0.05	2.4	13.05	23.6	0.05	<1	1.5	46.3	<10	<2
120967	Soil	0.03	8.4	3.3	<0.05	4.8	18.13	14.0	0.07	<1	1.2	41.5	<10	<2
120968	Soil	<0.02	7.1	2.1	<0.05	6.5	15.01	16.9	0.06	<1	1.1	20.8	<10	<2
120969	Soil	<0.02	9.8	5.3	<0.05	3.7	18.10	18.8	0.08	1	1.2	26.5	<10	<2
120970	Soil	0.02	8.3	1.3	<0.05	3.1	11.46	11.7	0.07	<1	1.1	27.6	<10	<2
120971	Soil	0.06	9.6	3.0	<0.05	5.6	19.55	20.0	0.05	<1	2.2	47.9	<10	<2
120972	Soil	0.05	6.3	5.5	<0.05	2.7	11.55	12.6	<0.02	<1	1.3	15.7	<10	<2
120973	Soil	0.05	6.9	4.0	<0.05	2.1	10.26	9.5	0.04	<1	1.1	33.9	<10	<2
120974	Soil	0.23	8.0	1.2	<0.05	1.6	12.16	15.4	0.04	<1	1.1	9.2	<10	<2
120975	Soil	0.19	6.7	2.8	<0.05	1.3	12.68	22.2	0.03	<1	1.0	9.4	12	<2
120976	Soil	0.24	8.3	1.8	<0.05	1.1	15.81	36.2	0.03	<1	1.0	10.1	<10	<2
120977	Soil	0.18	10.9	1.6	<0.05	1.9	12.05	16.3	0.04	<1	1.1	14.3	<10	<2
120978	Soil	0.13	10.6	1.6	<0.05	1.9	25.42	18.8	0.02	<1	1.1	22.3	<10	<2
120979	Soil	0.18	10.7	2.3	<0.05	1.5	12.83	19.1	0.04	<1	1.1	27.6	<10	<2
120980	Soil	0.18	10.9	0.8	<0.05	1.6	7.45	13.3	0.04	1	0.9	25.5	<10	<2
120981	Soil	0.21	11.2	2.2	<0.05	2.0	17.82	26.8	0.04	1	1.6	31.3	<10	<2
120982	Soil	0.17	12.3	2.0	<0.05	2.1	8.21	13.9	0.03	<1	0.9	27.9	<10	<2
120983	Soil	0.18	11.0	4.8	<0.05	0.4	2.88	9.3	0.03	<1	0.5	7.7	<10	<2
120984	Soil	0.22	12.1	2.2	<0.05	0.6	4.83	17.1	0.02	<1	0.7	21.1	<10	<2
120985	Soil	0.21	11.4	1.7	<0.05	0.3	4.11	19.1	0.03	1	0.4	19.7	<10	<2
120986	Soil	0.26	11.3	3.7	<0.05	0.1	5.73	22.3	<0.02	<1	0.5	14.6	<10	<2
120987	Soil	0.32	7.3	3.3	<0.05	2.2	33.98	38.5	0.04	<1	1.1	31.1	<10	<2
120988	Soil	0.33	8.4	1.7	<0.05	2.0	25.42	39.2	0.03	<1	1.5	28.5	<10	<2
120989	Soil	0.20	5.8	3.1	<0.05	1.8	19.83	25.8	0.03	<1	0.5	18.4	<10	<2
120990	Soil	0.12	6.3	3.2	<0.05	1.4	24.31	27.4	0.06	<1	0.9	9.9	<10	<2
120991	Soil	0.13	5.1	3.6	<0.05	0.9	17.77	17.7	0.04	<1	0.6	6.2	<10	<2
120992	Soil	0.05	3.2	1.6	<0.05	0.9	14.68	17.1	0.04	<1	1.0	2.2	10	<2
120993	Soil	0.10	5.8	3.4	<0.05	1.4	15.20	31.4	0.04	<1	1.2	6.8	12	<2
120994	Soil	0.05	2.7	1.0	<0.05	1.0	9.27	26.5	0.04	<1	0.9	2.3	<10	<2
120995	Soil	0.25	5.6	2.4	<0.05	2.2	20.18	39.8	0.04	<1	0.9	6.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 10 of 10 Part 1

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
120996	Soil	0.57	24.54	21.33	84.5	148	24.3	10.6	478	2.46	28.6	1.6	2.7	1.1	34.0	0.32	0.85	0.20	21	0.67	0.059
120997	Soil	0.67	35.22	21.17	117.8	153	33.1	12.4	323	3.44	36.0	1.7	5.5	3.7	35.3	0.28	1.20	0.27	27	0.59	0.068
120998	Soil	0.84	42.44	26.81	108.3	118	50.5	17.0	510	3.76	81.6	1.0	4.1	2.3	38.8	0.18	2.21	0.43	27	0.77	0.078
120999	Soil	0.58	42.43	29.10	114.5	68	50.8	15.9	393	3.09	58.1	1.1	4.0	4.0	75.5	0.18	1.65	0.43	15	0.37	0.047
121000	Soil	0.36	54.42	36.04	106.7	176	54.6	16.5	1196	5.64	27.4	1.4	6.1	4.3	54.0	0.15	0.57	0.42	18	0.40	0.061
119864	Soil	0.49	28.54	36.29	83.7	204	25.1	9.7	276	3.29	6.5	0.9	1.1	1.3	74.9	0.08	0.28	0.36	9	0.89	0.054



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 10 of 10 Part 2

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	
120996	Soil	19.5	26.5	0.20	108.5	0.003	3	0.52	0.003	0.05	<0.1	3.1	0.10	0.05	397	1.1	0.03	1.5	0.90	<0.1	0.04
120997	Soil	26.0	38.7	0.48	175.7	0.003	3	0.77	0.003	0.08	<0.1	5.5	0.20	0.04	284	1.3	<0.02	2.6	1.16	<0.1	0.07
120998	Soil	16.0	34.9	0.29	82.1	0.003	3	0.73	0.003	0.06	<0.1	7.4	0.13	0.05	999	1.6	<0.02	2.3	1.17	<0.1	0.10
120999	Soil	12.2	30.3	0.26	49.1	0.002	3	0.42	0.002	0.06	<0.1	7.0	0.18	0.02	337	1.1	<0.02	1.7	2.14	<0.1	0.06
121000	Soil	13.6	30.1	0.57	83.5	0.002	2	1.23	0.002	0.06	<0.1	13.1	0.16	0.03	305	0.5	0.02	2.9	19.82	<0.1	0.12
119864	Soil	3.9	10.1	0.13	111.3	<0.001	3	0.59	0.009	0.07	<0.1	3.2	0.13	0.10	80	0.5	0.04	1.6	2.07	<0.1	0.07



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: August 27, 2011

Page: 10 of 10 Part 3

CERTIFICATE OF ANALYSIS

WHI11000919.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
120996	Soil	0.09	5.4	1.2	<0.05	1.0	14.91	39.1	0.04	<1	1.0	6.2	<10	<2
120997	Soil	0.11	7.7	1.6	<0.05	2.4	16.72	47.9	0.04	<1	0.6	13.7	13	<2
120998	Soil	0.19	7.7	4.5	<0.05	2.7	22.26	34.2	0.04	<1	1.2	8.9	<10	<2
120999	Soil	0.05	4.7	5.2	<0.05	2.2	17.52	24.6	0.04	<1	0.9	8.2	<10	<2
121000	Soil	0.12	8.1	6.1	<0.05	3.4	28.52	24.0	0.03	<1	1.5	30.7	15	<2
119864	Soil	0.06	6.7	1.8	<0.05	2.3	12.32	7.5	0.04	<1	0.8	14.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000919.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
120661	Soil	0.71	36.29	30.69	99.7	74	37.5	13.4	295	2.64	20.7	1.2	2.8	6.3	69.3	0.19	0.88	0.32	16	2.39	0.100
REP 120661	QC	0.68	36.22	29.62	95.8	66	37.2	13.2	292	2.63	20.2	1.2	3.1	6.5	69.2	0.19	0.86	0.32	16	2.36	0.092
119695	Soil	0.92	25.19	24.08	79.1	27	26.7	10.8	269	3.23	10.1	0.5	<0.2	2.0	33.6	0.09	0.58	0.27	28	0.30	0.038
REP 119695	QC	1.00	26.12	24.45	85.2	33	27.0	10.8	285	3.25	10.6	0.5	1.0	2.1	35.1	0.09	0.57	0.29	28	0.30	0.039
118358	Soil	0.60	38.24	51.89	115.0	270	37.5	14.3	562	4.47	8.4	0.7	0.6	2.8	96.6	0.11	0.36	0.46	14	1.10	0.064
REP 118358	QC	0.59	36.25	49.95	111.0	255	35.2	14.0	550	4.25	7.9	0.7	0.9	2.6	91.7	0.10	0.33	0.44	13	1.04	0.060
118391	Soil	0.56	29.07	36.04	117.7	275	30.8	10.9	308	3.94	6.2	0.9	1.4	2.2	86.2	0.18	0.35	0.41	15	1.32	0.066
REP 118391	QC	0.51	28.80	36.40	119.5	270	31.4	10.7	313	3.91	6.6	0.9	1.0	2.2	87.0	0.21	0.38	0.44	15	1.31	0.067
118394	Soil	0.86	32.68	39.63	97.6	170	27.0	12.9	607	4.02	7.8	1.0	2.2	2.9	28.6	0.17	0.45	0.36	23	0.39	0.106
REP 118394	QC	0.83	32.06	39.04	95.1	169	27.1	12.9	589	3.92	7.6	1.0	1.4	3.0	28.2	0.18	0.44	0.33	22	0.38	0.103
612420	Soil	1.25	33.00	41.36	108.7	60	24.0	16.1	1768	3.25	12.1	1.0	1.6	1.2	71.6	0.39	0.76	0.49	27	0.96	0.173
REP 612420	QC	1.24	33.88	40.89	111.9	65	23.5	16.3	1829	3.40	11.7	1.0	1.1	1.2	71.3	0.39	0.76	0.44	28	0.97	0.173
612434	Soil	0.89	52.68	34.85	140.5	148	50.3	23.6	589	3.89	18.1	1.1	3.9	8.0	49.1	0.20	0.90	0.38	26	0.56	0.103
REP 612434	QC	0.91	52.97	36.00	140.8	155	49.4	23.6	602	3.87	18.4	1.1	3.3	7.9	49.3	0.20	0.87	0.39	26	0.56	0.100
612445	Soil	0.80	22.34	18.70	71.9	54	19.9	8.3	311	2.82	7.9	0.6	3.6	1.0	7.8	0.17	0.52	0.27	27	0.07	0.063
REP 612445	QC	0.77	23.41	18.54	68.9	58	21.1	8.2	315	2.75	8.3	0.6	2.9	1.0	7.5	0.13	0.50	0.26	27	0.06	0.063
118283	Soil	1.01	19.39	18.14	84.6	42	20.5	9.4	575	3.49	24.2	0.7	0.7	0.7	25.3	0.14	1.34	0.38	40	0.42	0.086
REP 118283	QC	0.94	19.57	18.41	89.1	41	21.2	10.1	589	3.58	24.6	0.6	0.6	0.7	25.5	0.18	1.40	0.37	41	0.41	0.091
118285	Soil	0.85	31.12	31.57	73.6	74	25.5	19.5	1073	3.71	20.3	1.0	0.3	2.3	12.3	0.20	0.53	0.30	27	0.08	0.071
REP 118285	QC	0.87	33.23	34.14	80.1	84	25.9	21.8	1194	4.04	21.5	1.1	0.5	2.4	13.8	0.22	0.55	0.33	30	0.08	0.075
118300	Soil	0.83	31.51	21.99	84.6	39	33.8	14.3	374	3.39	9.8	0.7	1.3	2.7	11.4	0.12	0.54	0.26	29	0.13	0.052
REP 118300	QC	0.83	30.49	21.78	84.0	36	33.0	14.0	365	3.39	9.7	0.7	1.6	2.7	11.3	0.13	0.52	0.27	29	0.12	0.051
120970	Soil	0.58	45.86	51.01	130.0	273	44.6	19.2	473	5.58	7.9	0.8	0.4	5.5	48.3	0.08	0.24	0.46	10	0.52	0.045
REP 120970	QC	0.58	43.61	49.71	124.7	269	43.7	18.8	468	5.47	7.5	0.7	0.6	5.4	45.4	0.08	0.23	0.44	10	0.50	0.044
120986	Soil	1.25	28.27	21.89	80.9	53	25.2	9.2	332	3.12	9.7	0.7	0.8	0.5	13.6	0.16	0.64	0.28	40	0.10	0.068
REP 120986	QC	1.28	28.87	22.77	83.9	54	25.2	10.3	330	3.17	10.0	0.7	2.0	0.5	13.8	0.16	0.68	0.29	39	0.10	0.067
120996	Soil	0.57	24.54	21.33	84.5	148	24.3	10.6	478	2.46	28.6	1.6	2.7	1.1	34.0	0.32	0.85	0.20	21	0.67	0.059
REP 120996	QC	0.66	27.28	23.20	92.6	154	26.0	11.6	529	2.69	31.4	1.8	3.7	1.3	37.4	0.35	0.95	0.21	22	0.75	0.065

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
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Project: Scarlet
 Report Date: August 27, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000919.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
120661	Soil	18.7	27.0	1.32	50.4	0.002	2	0.73	0.005	0.07	<0.1	5.5	0.08	0.02	472	0.7	0.02	2.5	1.75	<0.1	0.06
REP 120661	QC	19.4	27.9	1.30	50.5	0.003	2	0.75	0.005	0.07	<0.1	5.5	0.07	0.02	448	0.7	0.03	2.5	1.90	<0.1	0.07
119695	Soil	5.2	19.7	0.29	122.3	0.003	<1	1.23	0.002	0.05	<0.1	2.6	0.11	<0.02	11	0.2	0.05	3.5	1.97	<0.1	0.04
REP 119695	QC	5.3	18.7	0.31	125.3	0.003	1	1.23	0.002	0.05	<0.1	2.7	0.11	<0.02	26	0.3	0.04	3.6	1.97	<0.1	0.05
118358	Soil	4.3	14.3	0.28	122.7	<0.001	3	0.98	0.012	0.12	<0.1	5.5	0.18	0.16	112	0.5	0.05	2.4	3.06	<0.1	0.06
REP 118358	QC	4.0	13.9	0.26	113.3	<0.001	3	0.91	0.011	0.11	<0.1	5.3	0.17	0.15	109	0.5	0.03	2.3	2.78	<0.1	0.07
118391	Soil	8.2	11.0	0.10	130.4	0.001	2	0.66	0.004	0.06	<0.1	4.6	0.16	0.06	261	0.6	0.04	1.3	0.85	<0.1	0.07
REP 118391	QC	8.7	10.9	0.10	138.7	0.001	2	0.67	0.004	0.07	<0.1	4.6	0.17	0.06	271	0.5	0.02	1.4	0.94	<0.1	0.04
118394	Soil	6.2	21.4	0.27	157.2	0.003	2	1.31	0.003	0.07	<0.1	5.3	0.11	0.06	47	0.4	0.04	3.4	3.54	<0.1	0.05
REP 118394	QC	5.9	20.0	0.25	149.4	0.003	1	1.27	0.003	0.07	<0.1	4.9	0.10	0.06	41	0.3	0.02	3.4	3.31	<0.1	0.07
612420	Soil	6.1	20.5	0.14	192.6	0.011	3	0.93	0.004	0.08	<0.1	2.6	0.14	0.11	66	0.4	0.12	3.2	5.17	<0.1	0.04
REP 612420	QC	6.2	21.5	0.14	189.7	0.010	1	0.97	0.004	0.08	<0.1	2.4	0.16	0.11	64	0.3	0.08	3.4	5.01	<0.1	0.02
612434	Soil	28.8	45.1	0.87	123.9	0.004	3	1.22	0.004	0.10	<0.1	6.6	0.10	0.04	210	1.1	0.05	3.6	4.64	<0.1	0.10
REP 612434	QC	28.0	45.4	0.87	122.2	0.004	3	1.22	0.004	0.10	<0.1	6.6	0.10	0.04	182	1.2	0.04	3.5	4.40	<0.1	0.08
612445	Soil	6.2	16.7	0.23	74.2	0.005	<1	1.17	0.002	0.04	<0.1	1.4	0.11	0.03	18	<0.1	0.06	3.5	1.52	<0.1	0.02
REP 612445	QC	5.9	17.2	0.23	72.7	0.005	2	1.13	0.002	0.04	<0.1	1.6	0.10	0.02	19	<0.1	0.04	3.5	1.48	<0.1	0.02
118283	Soil	6.4	23.0	0.28	145.4	0.006	2	1.14	0.003	0.06	0.1	2.0	0.12	0.05	535	0.4	0.03	4.3	1.49	<0.1	<0.02
REP 118283	QC	6.6	23.7	0.28	144.7	0.007	1	1.19	0.003	0.06	0.1	2.1	0.12	0.05	595	0.3	0.04	4.5	1.64	<0.1	<0.02
118285	Soil	7.5	24.9	0.31	81.3	0.003	1	1.40	0.002	0.08	<0.1	3.1	0.12	0.04	164	0.1	<0.02	4.8	4.43	<0.1	0.03
REP 118285	QC	7.8	27.8	0.33	90.3	0.003	2	1.55	0.002	0.08	<0.1	3.1	0.13	0.04	274	0.3	0.08	4.9	5.01	<0.1	0.03
118300	Soil	8.5	23.9	0.39	79.5	0.007	1	1.40	0.004	0.06	<0.1	3.1	0.11	<0.02	21	0.3	0.05	4.0	2.51	<0.1	<0.02
REP 118300	QC	8.4	24.2	0.39	78.7	0.008	1	1.41	0.004	0.06	<0.1	3.2	0.12	<0.02	19	0.2	0.04	4.0	2.48	<0.1	<0.02
120970	Soil	3.5	16.7	0.23	113.7	<0.001	2	0.96	0.005	0.10	<0.1	6.6	0.27	0.05	108	0.4	0.07	2.5	4.01	<0.1	0.06
REP 120970	QC	3.3	15.4	0.22	109.2	<0.001	2	0.95	0.005	0.10	<0.1	6.5	0.27	0.05	99	0.3	0.04	2.4	3.98	<0.1	0.07
120986	Soil	9.7	23.2	0.22	126.2	0.010	1	1.33	0.003	0.09	<0.1	1.6	0.13	0.04	32	<0.1	0.08	4.5	3.12	<0.1	<0.02
REP 120986	QC	9.6	25.1	0.23	128.5	0.009	1	1.32	0.003	0.09	<0.1	1.6	0.13	0.04	20	0.2	0.04	4.5	3.27	<0.1	<0.02
120996	Soil	19.5	26.5	0.20	108.5	0.003	3	0.52	0.003	0.05	<0.1	3.1	0.10	0.05	397	1.1	0.03	1.5	0.90	<0.1	0.04
REP 120996	QC	21.7	28.9	0.22	120.5	0.004	3	0.57	0.003	0.05	<0.1	3.4	0.10	0.05	427	1.1	0.03	1.7	1.07	<0.1	0.03

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 1 of 2 Part 3

QUALITY CONTROL REPORT

WHI11000919.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
120661	Soil	0.10	4.6	13.6	<0.05	3.1	13.47	36.8	<0.02	<1	1.1	17.8	<10	<2
REP 120661	QC	0.11	5.1	13.2	<0.05	3.2	13.40	38.8	<0.02	<1	0.6	18.0	<10	<2
119695	Soil	0.25	8.9	5.8	<0.05	1.6	3.88	12.2	0.02	<1	0.9	21.5	<10	<2
REP 119695	QC	0.26	9.2	5.7	<0.05	1.8	4.00	12.4	0.04	<1	1.0	21.8	<10	<2
118358	Soil	0.08	8.4	5.7	<0.05	2.9	16.19	12.4	0.05	<1	1.2	30.7	<10	<2
REP 118358	QC	0.07	7.8	4.7	<0.05	3.0	15.60	11.7	0.05	<1	1.0	29.7	<10	<2
118391	Soil	0.15	6.0	1.4	<0.05	2.2	19.98	18.4	0.05	1	0.8	5.6	<10	<2
REP 118391	QC	0.14	6.5	1.9	<0.05	1.9	19.75	18.6	0.06	<1	0.9	5.8	<10	<2
118394	Soil	0.20	10.3	9.9	<0.05	1.9	14.59	19.5	0.04	1	0.9	28.3	<10	<2
REP 118394	QC	0.22	10.0	9.6	<0.05	2.0	14.23	18.8	0.04	<1	1.0	25.7	<10	<2
612420	Soil	0.27	13.4	10.4	<0.05	1.3	6.80	14.8	0.03	<1	0.8	5.8	<10	<2
REP 612420	QC	0.24	13.8	9.9	<0.05	1.1	6.90	14.6	<0.02	<1	0.6	6.1	<10	4
612434	Soil	0.11	7.3	3.7	<0.05	3.2	15.25	52.9	0.03	<1	1.0	31.5	14	<2
REP 612434	QC	0.12	7.2	3.8	<0.05	3.3	15.11	51.9	0.03	<1	1.1	31.2	<10	<2
612445	Soil	0.25	8.1	2.0	<0.05	0.7	4.47	14.8	0.04	1	0.8	20.7	<10	<2
REP 612445	QC	0.21	8.0	2.0	<0.05	0.4	4.39	14.4	0.03	1	0.5	21.0	<10	<2
118283	Soil	0.37	10.0	3.5	<0.05	0.2	4.67	17.8	0.04	<1	0.6	12.6	<10	<2
REP 118283	QC	0.35	10.5	3.8	<0.05	0.2	4.67	18.4	0.04	<1	0.6	13.0	<10	<2
118285	Soil	0.28	10.8	8.0	<0.05	0.9	3.93	22.2	0.03	<1	1.0	28.5	<10	<2
REP 118285	QC	0.32	12.7	9.7	<0.05	1.1	4.20	23.4	0.03	3	1.1	30.8	<10	<2
118300	Soil	0.30	9.8	1.5	<0.05	0.7	6.29	25.6	0.03	<1	0.8	30.1	<10	<2
REP 118300	QC	0.32	9.5	1.6	<0.05	0.7	6.17	25.3	0.03	<1	0.9	30.8	<10	<2
120970	Soil	0.02	8.3	1.3	<0.05	3.1	11.46	11.7	0.07	<1	1.1	27.6	<10	<2
REP 120970	QC	0.03	8.0	1.6	<0.05	2.9	11.07	11.2	0.05	<1	1.0	26.4	<10	<2
120986	Soil	0.26	11.3	3.7	<0.05	0.1	5.73	22.3	<0.02	<1	0.5	14.6	<10	<2
REP 120986	QC	0.25	12.1	5.0	<0.05	0.3	5.97	20.9	0.03	<1	0.6	14.7	<10	<2
120996	Soil	0.09	5.4	1.2	<0.05	1.0	14.91	39.1	0.04	<1	1.0	6.2	<10	<2
REP 120996	QC	0.14	6.0	1.3	<0.05	1.1	16.59	43.5	0.02	<1	0.6	6.8	<10	<2

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000919.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Reference Materials																					
STD DS8	Standard	12.72	111.2	114.8	312.7	1647	37.9	7.6	573	2.33	25.2	2.5	98.7	6.1	65.5	2.31	5.23	6.44	38	0.68	0.075
STD DS8	Standard	13.21	111.9	120.0	319.5	1666	39.5	7.8	598	2.49	25.0	2.6	99.7	6.6	66.0	2.32	5.43	6.36	42	0.74	0.077
STD DS8	Standard	13.87	117.5	117.8	327.0	1741	41.2	8.1	607	2.60	24.5	2.8	119.3	7.1	68.1	2.30	5.62	6.78	42	0.76	0.078
STD DS8	Standard	12.88	114.2	124.0	322.0	1600	38.6	8.1	569	2.41	21.7	2.7	105.9	6.9	60.5	2.07	5.32	6.60	41	0.70	0.069
STD DS8	Standard	14.70	107.9	135.2	314.2	1832	39.3	6.9	632	2.55	23.7	2.9	119.3	7.4	68.6	2.21	5.23	6.51	42	0.77	0.082
STD DS8	Standard	13.98	119.3	128.0	323.1	1789	40.7	8.1	634	2.49	25.3	2.9	114.8	7.3	68.4	2.38	5.69	7.19	39	0.71	0.080
STD DS8	Standard	13.10	106.6	128.3	316.0	1846	36.1	7.1	620	2.59	26.9	2.6	121.3	6.5	64.8	2.35	5.85	6.83	43	0.74	0.082
STD DS8	Standard	12.79	101.4	117.0	300.4	1692	37.0	7.1	588	2.43	25.9	2.6	103.5	5.9	60.4	2.08	5.14	6.25	40	0.68	0.078
STD DS8	Standard	14.49	114.5	130.3	318.4	1801	41.5	8.6	628	2.58	25.4	2.6	111.9	6.9	60.3	2.18	5.09	6.09	41	0.74	0.075
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000919.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Reference Materials																					
STD DS8	Standard	14.6	111.6	0.59	249.0	0.103	2	0.93	0.103	0.42	2.5	2.1	4.90	0.15	166	5.2	4.61	4.7	2.43	<0.1	0.07
STD DS8	Standard	15.0	118.0	0.63	273.4	0.120	3	0.97	0.101	0.44	2.9	2.2	5.34	0.16	158	5.5	4.94	4.7	2.38	<0.1	0.09
STD DS8	Standard	16.2	124.0	0.65	259.1	0.123	2	1.00	0.096	0.44	2.6	2.3	5.43	0.17	205	4.9	4.84	4.9	2.43	0.1	0.07
STD DS8	Standard	14.8	124.5	0.61	242.9	0.120	1	0.91	0.089	0.41	2.7	1.9	5.10	0.16	200	4.5	4.46	4.1	2.28	<0.1	0.08
STD DS8	Standard	16.9	131.1	0.64	266.2	0.123	2	1.00	0.103	0.44	3.0	2.3	5.85	0.16	221	5.4	5.30	4.8	2.41	0.1	0.10
STD DS8	Standard	17.3	125.1	0.62	282.6	0.133	2	0.90	0.082	0.41	3.2	2.3	5.63	0.15	213	5.3	4.74	4.7	2.53	<0.1	0.09
STD DS8	Standard	14.4	120.8	0.64	296.0	0.109	3	0.98	0.102	0.44	3.2	2.2	5.85	0.17	217	5.1	5.17	4.5	2.57	0.1	0.07
STD DS8	Standard	13.4	113.3	0.59	253.2	0.105	3	0.91	0.096	0.41	2.9	1.9	5.22	0.16	198	4.9	4.58	4.6	2.36	0.1	0.05
STD DS8	Standard	15.1	129.4	0.63	239.7	0.121	2	0.94	0.089	0.42	2.7	2.2	5.45	0.17	206	5.4	5.00	4.6	2.46	<0.1	0.08
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
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 Vancouver BC V6C 2G8 Canada

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 Report Date: August 27, 2011

Page: 2 of 2 Part 3

QUALITY CONTROL REPORT

WHI11000919.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Reference Materials														
STD DS8	Standard	1.21	39.7	6.9	<0.05	1.9	5.60	24.4	2.24	51	4.5	25.1	119	310
STD DS8	Standard	1.24	37.1	6.7	<0.05	2.1	5.62	27.8	2.16	51	6.0	26.3	112	337
STD DS8	Standard	1.20	37.8	7.0	<0.05	1.8	6.06	28.7	2.36	68	5.5	26.2	119	339
STD DS8	Standard	1.14	34.5	6.7	<0.05	1.7	5.52	24.8	2.23	55	4.9	24.4	111	325
STD DS8	Standard	1.37	37.7	6.6	<0.05	2.2	6.51	33.3	2.05	67	5.2	27.0	124	372
STD DS8	Standard	1.36	38.1	7.3	<0.05	2.3	6.27	28.7	2.42	53	4.8	26.2	124	366
STD DS8	Standard	1.29	39.1	6.7	<0.05	1.8	5.80	29.7	2.17	45	5.4	29.4	118	357
STD DS8	Standard	1.22	35.6	6.2	<0.05	1.2	5.41	26.5	1.98	56	4.9	26.2	113	332
STD DS8	Standard	1.16	37.7	6.3	<0.05	1.8	5.57	29.3	2.07	52	5.4	25.7	118	358
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	0.07	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: July 29, 2011
Report Date: August 27, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11000949.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-16
P.O. Number: NA-10337
Number of Samples: 320

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	319	Dry at 60C			WHI
SS80	319	Dry at 60C sieve 100g to -80 mesh			WHI
RJSV	319	Saving all or part of Soil Reject			WHI
1F05	318	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: Scott Turton
Simon Ridgway
database backup
David Clark



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
118312	Soil			0.56	49.75	32.56	100.5	97	33.0	20.4	1032	3.95	12.4	1.6	2.5	5.1	72.1	0.16	0.51	0.50	19	0.90	0.072
118313	Soil			0.98	39.75	36.68	83.6	126	30.1	20.7	1456	4.10	13.3	0.9	1.3	1.8	51.2	0.25	0.60	0.46	23	0.64	0.083
118401	Soil			1.11	38.87	31.47	106.6	102	44.2	18.9	513	2.96	41.0	1.5	10.0	4.6	123.3	0.17	1.63	0.31	8	4.20	0.111
118402	Soil			1.17	55.25	54.00	132.1	99	62.2	21.8	499	3.95	39.8	1.4	5.0	3.2	66.6	0.10	1.50	0.51	15	1.04	0.059
118403	Soil			1.00	53.58	38.49	107.8	97	46.8	19.1	630	3.88	42.4	1.1	13.2	3.3	35.9	0.12	1.75	0.44	11	0.46	0.046
118404	Soil			0.67	56.52	49.64	114.5	80	35.6	24.8	2108	4.14	20.2	0.7	2.0	1.4	16.5	0.16	0.81	0.51	13	0.04	0.058
118405	Soil			0.47	49.04	33.01	116.9	75	52.2	14.3	371	3.36	27.4	1.0	2.4	3.3	49.0	0.20	0.75	0.49	20	0.36	0.063
118406	Soil			1.72	46.13	74.53	147.5	121	49.8	16.8	723	3.75	64.5	1.0	5.8	1.5	55.8	0.28	3.78	0.32	31	0.99	0.071
118407	Soil			1.45	47.31	32.88	88.1	216	31.8	12.7	363	2.71	35.3	1.7	6.3	1.8	102.8	0.54	4.72	0.29	17	2.49	0.095
118408	Soil			1.60	49.67	88.75	123.8	186	38.8	25.9	1657	7.32	39.6	0.9	1.8	3.1	69.6	0.10	0.99	0.62	30	0.03	0.133
118409	Soil			1.17	48.27	54.27	105.9	153	38.4	20.5	1115	5.19	36.9	0.6	1.4	0.9	12.4	0.08	0.90	0.44	19	0.03	0.080
118410	Soil			1.16	36.90	34.33	84.4	157	32.4	14.8	427	4.11	27.8	0.9	2.4	3.6	16.3	0.05	0.66	0.39	25	0.08	0.037
118411	Soil			1.10	25.62	32.49	75.7	110	19.9	8.5	271	2.55	14.8	0.4	1.2	0.4	15.2	0.12	0.47	0.30	23	0.13	0.075
118412	Soil			1.44	37.18	85.95	85.9	376	23.5	13.3	1803	4.23	11.2	0.8	0.8	0.3	15.5	0.24	0.45	0.43	36	0.07	0.159
118413	Soil			0.85	38.56	29.20	93.7	317	40.5	12.8	440	3.45	18.3	2.4	3.1	4.0	60.8	0.17	0.65	0.35	24	0.54	0.086
118414	Soil			0.80	21.40	24.36	63.3	83	24.0	11.7	364	3.10	15.4	1.2	1.2	2.1	77.3	0.06	0.37	0.28	24	0.50	0.063
118415	Soil			0.68	24.86	21.22	94.1	161	26.0	12.5	695	2.96	13.3	1.8	2.1	2.0	109.8	0.28	0.38	0.30	25	1.00	0.070
118416	Soil			0.86	25.18	30.72	82.2	126	25.4	12.2	584	3.34	17.2	1.8	2.0	3.1	56.9	0.17	0.49	0.32	25	0.67	0.050
118417	Soil			0.59	27.51	23.58	66.5	180	26.9	12.6	809	2.66	12.5	1.8	2.5	1.7	102.1	0.23	0.41	0.29	18	1.41	0.077
612251	Soil			0.64	55.45	34.98	123.9	52	52.3	22.5	1287	4.27	22.3	0.9	1.7	2.8	22.4	0.13	1.16	0.45	17	0.08	0.059
612252	Soil			0.65	41.00	21.73	168.3	156	39.6	14.0	271	3.10	63.2	3.5	6.6	2.4	50.3	0.36	1.98	0.28	21	1.05	0.094
612253	Soil			0.66	47.92	30.90	86.2	87	34.0	11.5	250	3.05	30.6	1.4	6.1	2.4	33.5	0.09	1.50	0.40	11	0.45	0.059
612254	Soil			1.16	40.40	39.23	125.6	57	20.8	13.0	1463	3.14	16.5	0.8	1.1	0.2	22.1	0.29	0.93	0.44	23	0.30	0.129
612255	Soil			3.59	38.10	144.3	144.2	69	60.3	16.5	907	3.84	97.6	1.1	5.4	0.8	84.4	0.33	3.28	0.33	37	1.07	0.080
612256	Soil			1.70	30.17	30.08	99.3	68	30.5	12.4	664	3.52	34.4	1.1	1.4	1.6	31.8	0.23	1.28	0.34	38	0.32	0.087
612257	Soil			1.11	30.55	27.52	79.7	42	22.5	11.0	461	3.87	15.1	0.5	0.4	1.0	20.9	0.12	0.53	0.43	29	0.15	0.048
612258	Soil			0.56	36.02	27.46	78.7	104	26.2	12.3	571	3.33	15.3	2.2	0.4	2.1	85.9	0.32	0.89	0.35	19	1.12	0.104
612259	Soil			0.64	52.26	44.08	113.5	66	35.9	30.9	1936	5.81	13.0	0.8	<0.2	3.2	45.8	0.09	0.47	0.57	26	0.06	0.119
612260	Soil			1.24	72.10	124.3	135.2	194	34.5	52.1	4686	5.00	33.2	1.0	0.6	3.3	40.1	0.36	0.75	0.43	28	0.40	0.158
612261	Soil			1.19	45.84	59.07	111.4	85	33.4	25.0	1294	5.15	20.2	0.6	0.8	3.4	18.6	0.10	0.78	0.46	34	0.04	0.063



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
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Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
118312	Soil	14.0	24.0	0.51	133.0	0.002	4	1.65	0.003	0.10	<0.1	13.1	0.09	0.04	43	0.4	0.08	4.3	1.88	<0.1	0.16
118313	Soil	4.6	24.0	0.47	81.0	0.006	3	1.41	0.003	0.12	<0.1	4.2	0.08	0.05	56	0.3	0.06	4.9	3.00	<0.1	0.02
118401	Soil	10.5	16.1	1.83	52.3	0.001	4	0.33	0.007	0.07	<0.1	6.9	0.10	0.04	151	1.3	<0.02	0.7	1.24	<0.1	0.09
118402	Soil	10.3	26.1	0.44	61.7	0.001	3	0.36	0.003	0.08	<0.1	6.8	0.15	0.02	608	0.9	0.07	1.3	2.53	<0.1	0.05
118403	Soil	10.3	19.7	0.20	54.3	<0.001	3	0.36	0.003	0.07	<0.1	6.7	0.12	0.03	458	0.6	0.09	1.1	2.12	<0.1	0.07
118404	Soil	5.6	16.5	0.18	66.2	0.002	1	0.68	0.001	0.08	<0.1	4.2	0.10	0.03	104	0.3	0.11	2.4	3.12	<0.1	<0.02
118405	Soil	11.4	31.3	0.12	71.7	0.001	2	0.37	0.002	0.06	<0.1	10.9	0.08	0.03	641	0.5	0.06	1.3	1.51	<0.1	0.07
118406	Soil	11.9	47.4	0.33	75.7	0.003	4	0.43	0.004	0.06	<0.1	8.0	0.13	0.05	1650	1.6	0.03	1.4	1.04	<0.1	0.09
118407	Soil	20.6	22.3	0.71	90.0	0.003	4	0.87	0.004	0.09	<0.1	4.6	0.13	0.05	677	0.9	0.05	2.2	2.39	<0.1	0.08
118408	Soil	4.2	46.0	0.74	62.9	0.002	2	2.41	<0.001	0.07	<0.1	2.8	0.12	0.06	85	0.5	0.08	6.5	7.63	0.1	0.09
118409	Soil	3.1	20.0	0.12	53.4	0.002	2	0.79	0.001	0.07	<0.1	2.1	0.10	0.03	175	0.4	0.09	2.2	4.97	<0.1	<0.02
118410	Soil	8.1	27.4	0.38	78.3	0.002	2	1.22	<0.001	0.07	<0.1	3.1	0.11	<0.02	207	0.5	0.08	3.2	1.66	<0.1	0.03
118411	Soil	4.3	14.3	0.06	49.9	0.002	3	0.53	0.003	0.07	<0.1	1.0	0.07	0.03	91	0.2	0.06	2.5	2.39	<0.1	<0.02
118412	Soil	7.1	30.6	0.18	86.3	0.003	2	1.41	0.003	0.07	<0.1	0.6	0.14	0.07	60	0.5	0.08	5.2	5.28	<0.1	<0.02
118413	Soil	17.6	29.3	0.58	155.2	0.003	3	1.81	0.003	0.09	<0.1	5.7	0.13	0.03	323	0.6	0.05	4.1	2.87	<0.1	0.07
118414	Soil	7.5	25.6	0.52	98.8	0.004	2	1.34	0.002	0.06	<0.1	2.8	0.10	0.04	165	0.2	0.02	3.8	1.38	<0.1	0.04
118415	Soil	12.3	26.0	0.51	117.7	0.005	3	1.41	0.002	0.07	<0.1	4.3	0.10	0.05	284	0.5	0.06	3.9	1.46	<0.1	0.07
118416	Soil	16.3	23.8	0.42	92.2	0.004	2	1.32	0.001	0.07	<0.1	4.6	0.11	0.02	313	0.5	0.04	3.6	1.32	<0.1	0.05
118417	Soil	12.9	24.7	0.47	92.2	0.004	3	1.21	0.002	0.06	<0.1	3.5	0.07	0.06	382	0.6	0.05	3.2	1.03	<0.1	0.06
612251	Soil	9.1	32.9	0.85	54.5	0.004	2	1.57	<0.001	0.07	<0.1	5.9	0.10	0.02	104	0.5	0.09	4.3	3.27	<0.1	0.03
612252	Soil	13.8	31.2	0.28	93.5	0.002	4	0.60	0.004	0.08	<0.1	6.7	0.19	0.08	1122	1.5	<0.02	1.9	1.15	<0.1	0.14
612253	Soil	9.2	15.6	0.16	43.5	0.001	2	0.45	0.003	0.06	<0.1	5.7	0.08	0.05	325	0.7	0.06	1.3	1.76	<0.1	0.10
612254	Soil	6.0	17.7	0.08	139.7	0.003	2	0.53	0.003	0.07	<0.1	0.9	0.08	0.06	98	0.4	0.08	3.3	3.07	<0.1	<0.02
612255	Soil	10.2	76.0	0.37	79.5	0.003	4	0.43	0.004	0.05	<0.1	7.4	0.10	0.06	885	1.2	0.03	1.5	0.52	<0.1	0.06
612256	Soil	15.6	38.7	0.20	163.6	0.005	2	0.85	0.002	0.07	<0.1	4.2	0.13	0.03	302	0.8	0.08	3.6	0.93	<0.1	0.03
612257	Soil	6.3	21.6	0.18	72.5	0.003	2	1.06	0.002	0.07	<0.1	2.0	0.12	<0.02	84	0.4	0.11	4.5	2.00	<0.1	<0.02
612258	Soil	21.2	22.6	0.49	118.5	0.005	4	1.50	0.004	0.08	<0.1	7.8	0.08	0.06	144	0.7	0.09	3.8	2.08	<0.1	0.06
612259	Soil	4.4	33.3	0.58	76.5	0.006	4	2.16	<0.001	0.11	<0.1	3.4	0.07	0.02	38	0.4	0.08	6.3	9.19	<0.1	0.07
612260	Soil	7.5	29.3	0.59	172.5	0.007	4	2.02	0.002	0.14	<0.1	6.2	0.19	0.06	73	0.6	0.10	5.8	14.90	<0.1	0.05
612261	Soil	6.0	33.0	0.57	64.0	0.005	2	2.06	0.001	0.09	<0.1	3.4	0.11	0.03	51	0.5	0.09	5.8	5.74	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 2 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
118312	Soil			0.21	8.2	2.0	<0.05	4.1	33.32	30.4	0.08	<1	1.9	35.6	<10	<2
118313	Soil			0.36	14.5	7.7	<0.05	0.9	5.77	13.3	0.03	<1	1.4	32.2	<10	<2
118401	Soil			0.05	4.3	6.9	<0.05	2.9	15.25	26.4	0.03	<1	0.7	4.3	13	<2
118402	Soil			0.05	5.2	20.1	<0.05	1.8	10.00	21.1	0.04	<1	1.0	5.4	<10	<2
118403	Soil			0.04	5.2	9.8	<0.05	1.9	11.18	22.2	0.03	<1	1.0	3.7	11	<2
118404	Soil			0.06	8.5	10.5	<0.05	0.4	3.13	13.4	0.04	<1	1.1	10.7	<10	<2
118405	Soil			0.04	5.3	5.2	<0.05	2.1	17.57	27.5	0.04	<1	0.3	2.3	<10	<2
118406	Soil			0.11	4.7	39.9	<0.05	2.4	19.41	23.5	<0.02	<1	0.7	4.4	12	<2
118407	Soil			0.14	6.5	9.4	<0.05	2.2	16.45	39.1	<0.02	<1	1.2	15.4	<10	<2
118408	Soil			0.13	10.6	38.3	<0.05	3.1	6.55	10.4	<0.02	<1	1.2	61.1	<10	2
118409	Soil			0.09	9.2	12.5	<0.05	0.7	3.06	7.7	<0.02	<1	0.7	7.6	<10	<2
118410	Soil			0.17	8.0	6.9	<0.05	1.0	4.33	22.7	0.05	<1	1.0	23.0	<10	<2
118411	Soil			0.17	9.6	14.3	<0.05	0.1	1.80	8.5	<0.02	<1	0.4	3.0	<10	<2
118412	Soil			0.22	12.0	63.9	<0.05	0.3	5.71	15.6	<0.02	<1	1.0	11.6	<10	<2
118413	Soil			0.31	11.8	11.3	<0.05	2.4	17.61	37.4	0.03	<1	1.4	37.6	<10	<2
118414	Soil			0.30	9.3	7.8	<0.05	1.6	4.56	18.8	<0.02	<1	0.6	31.3	<10	<2
118415	Soil			0.38	10.8	4.5	<0.05	2.1	12.06	28.4	<0.02	<1	1.0	31.5	<10	<2
118416	Soil			0.31	9.2	9.3	<0.05	1.8	12.60	40.4	0.03	<1	1.2	31.4	<10	<2
118417	Soil			0.25	6.8	3.6	<0.05	2.1	12.88	32.9	0.03	<1	0.9	29.1	<10	<2
612251	Soil			0.11	7.2	6.4	<0.05	1.2	6.94	22.7	0.04	<1	1.3	51.5	<10	<2
612252	Soil			0.15	6.6	2.6	<0.05	3.8	15.19	26.2	0.04	<1	1.1	8.3	15	<2
612253	Soil			0.06	5.3	11.5	<0.05	2.7	11.91	17.5	0.03	<1	1.2	6.2	<10	<2
612254	Soil			0.06	12.4	7.1	<0.05	0.2	2.99	12.0	0.03	<1	0.8	2.2	<10	<2
612255	Soil			0.09	4.6	88.6	<0.05	1.4	19.27	20.0	<0.02	<1	0.6	2.4	<10	<2
612256	Soil			0.19	12.3	9.9	<0.05	0.8	8.08	29.4	<0.02	<1	0.5	7.8	<10	<2
612257	Soil			0.22	15.8	6.3	<0.05	0.3	2.91	12.8	<0.02	<1	0.6	11.8	<10	<2
612258	Soil			0.16	11.0	6.7	<0.05	1.4	30.25	37.9	0.04	<1	1.6	30.3	<10	<2
612259	Soil			0.17	14.4	7.0	<0.05	1.3	4.75	12.9	0.05	<1	2.6	54.9	<10	<2
612260	Soil			0.23	15.0	57.4	<0.05	2.0	15.38	24.9	<0.02	<1	2.7	47.4	12	2
612261	Soil			0.41	13.7	38.1	<0.05	1.3	3.66	13.8	<0.02	<1	1.8	56.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612262	Soil			0.99	33.74	76.38	99.9	157	22.9	28.4	1995	5.83	15.3	0.6	0.4	1.9	12.2	0.12	0.50	0.51	34	0.06	0.088
612263	Soil			0.76	38.63	39.50	122.7	95	28.6	24.8	1714	4.79	16.3	0.5	0.7	2.1	30.3	0.26	0.48	0.44	31	0.19	0.102
612264	Soil			0.82	30.47	71.50	93.8	166	23.6	13.9	890	3.09	25.9	0.8	0.5	2.0	26.7	0.28	0.63	0.34	30	0.19	0.076
612265	Soil			0.61	45.66	67.15	84.3	183	37.7	16.0	621	3.73	17.0	1.7	0.7	3.9	31.3	0.12	1.21	0.37	19	0.31	0.050
612266	Soil			0.79	30.73	30.54	69.7	96	30.2	13.1	399	3.32	16.1	2.5	1.4	3.4	41.0	0.10	0.40	0.33	25	0.51	0.051
612267	Soil			0.57	27.47	29.37	83.2	136	28.7	11.5	459	2.99	12.4	2.1	1.4	2.6	58.4	0.15	0.38	0.29	20	0.75	0.054
612268	Soil			0.70	19.31	24.36	65.7	62	17.3	8.5	519	2.62	16.6	2.7	2.1	2.0	63.7	0.32	0.43	0.30	25	0.72	0.078
612269	Soil			0.70	27.74	26.97	82.8	219	29.4	11.7	311	2.88	15.8	1.8	3.4	3.5	64.0	0.17	0.63	0.32	22	0.76	0.054
612270	Soil			0.52	40.24	21.71	53.7	234	22.3	8.6	618	2.08	9.8	3.8	1.2	0.8	185.2	0.36	0.51	0.24	16	2.41	0.104
120726	Soil			1.15	41.17	57.31	102.1	395	39.7	21.3	652	4.02	13.2	1.1	0.6	3.7	36.7	0.19	0.73	0.36	14	0.64	0.078
120727	Soil			0.59	46.21	60.05	109.5	150	38.4	23.7	1148	4.49	16.2	1.4	0.7	5.1	32.7	0.09	0.41	0.44	19	0.40	0.095
120728	Soil			0.75	26.55	30.58	79.3	108	20.8	10.8	667	3.29	8.2	0.9	<0.2	1.7	40.0	0.15	0.42	0.31	20	0.39	0.137
120729	Soil			0.76	27.92	24.62	74.0	26	26.5	12.6	354	3.09	9.7	0.7	1.7	2.0	9.3	0.09	0.48	0.27	21	0.07	0.049
120730	Soil			0.89	25.34	18.73	71.7	47	22.2	8.7	248	2.97	8.4	0.7	1.1	1.0	7.6	0.13	0.50	0.27	26	0.06	0.066
120731	Soil			0.97	25.76	22.80	72.2	89	22.0	7.8	235	2.92	8.4	0.8	1.1	0.5	7.0	0.12	0.57	0.25	27	0.05	0.089
120732	Soil			1.40	22.18	24.82	80.1	63	18.8	9.4	880	3.01	10.6	0.6	1.5	0.3	7.9	0.19	0.79	0.31	45	0.05	0.078
120733	Soil			0.72	28.85	23.39	80.2	89	25.5	10.3	424	3.14	9.5	0.7	0.7	1.1	15.4	0.18	0.47	0.29	21	0.15	0.074
120734	Soil			0.88	28.97	23.55	87.4	63	24.1	10.1	450	3.36	8.3	0.7	1.3	0.9	9.8	0.19	0.50	0.29	25	0.07	0.092
120735	Soil			0.98	26.56	25.30	88.3	60	21.4	9.4	602	3.29	8.7	0.7	0.8	0.2	8.0	0.21	0.67	0.32	32	0.05	0.089
120736	Soil			0.86	21.12	17.29	60.6	52	19.5	7.8	234	2.60	8.6	0.5	0.9	0.6	5.6	0.12	0.49	0.23	26	0.03	0.052
120737	Soil			0.80	27.89	17.58	76.4	60	25.3	9.1	243	2.86	10.2	0.6	1.0	1.0	7.8	0.16	0.59	0.25	25	0.05	0.053
120738	Soil			1.03	30.20	29.97	88.9	110	22.6	9.1	606	3.36	10.2	1.3	1.4	0.7	9.7	0.28	0.66	0.32	29	0.08	0.165
120739	Soil			0.64	29.78	20.29	81.6	101	24.3	10.5	663	2.95	12.6	1.6	0.8	1.8	56.7	0.27	0.60	0.27	20	0.81	0.097
120740	Soil			1.32	24.86	30.79	63.9	135	22.0	9.1	681	2.37	12.8	1.2	1.5	1.3	202.4	0.53	0.88	0.21	20	5.35	0.099
120741	Soil			1.35	38.60	17.34	87.0	311	29.6	12.6	341	2.56	17.0	2.8	9.5	2.7	61.2	0.32	0.62	0.21	25	1.08	0.076
120742	Soil			0.83	43.60	20.51	104.0	188	33.9	13.2	267	2.68	48.0	1.9	5.2	2.0	53.4	0.41	1.57	0.25	28	0.83	0.056
120743	Soil			0.75	34.28	22.77	96.3	130	30.4	12.5	255	2.15	39.8	1.6	11.8	3.7	122.4	0.28	2.93	0.23	15	4.05	0.083
120744	Soil			1.09	35.80	18.61	93.0	233	24.3	10.3	402	2.14	15.2	1.9	7.3	2.9	83.2	0.45	1.01	0.20	20	2.26	0.108
120745	Soil			0.71	39.79	24.09	105.0	100	39.4	14.3	288	3.15	30.1	1.1	5.7	4.3	56.8	0.16	1.33	0.28	16	1.19	0.089
120746	Soil			0.80	41.01	46.74	113.2	131	36.8	13.6	384	3.19	22.1	1.1	6.3	4.2	46.7	0.23	1.09	0.28	19	0.94	0.099



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 27, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
612262	Soil	4.2	31.4	0.39	67.3	0.004	2	1.82	0.001	0.08	<0.1	2.4	0.09	0.03	79	0.5	0.09	6.7	5.86	<0.1	0.02
612263	Soil	5.0	28.3	0.46	98.3	0.006	5	1.76	0.001	0.12	<0.1	3.4	0.10	0.03	71	0.6	0.14	5.9	8.76	<0.1	0.03
612264	Soil	9.3	27.0	0.41	166.8	0.008	4	1.33	0.002	0.12	<0.1	2.8	0.14	0.02	128	0.6	0.07	5.0	3.75	<0.1	0.05
612265	Soil	11.9	25.6	0.59	79.1	0.004	5	1.73	0.001	0.11	<0.1	5.0	0.09	0.02	250	0.6	0.10	4.1	2.93	<0.1	0.12
612266	Soil	11.2	27.2	0.53	124.7	0.003	2	1.69	0.002	0.09	<0.1	4.7	0.11	0.02	294	0.4	0.04	4.5	1.41	<0.1	0.07
612267	Soil	9.7	25.6	0.58	119.8	0.003	2	1.47	0.002	0.08	<0.1	4.2	0.08	0.03	263	0.5	0.05	4.0	1.09	<0.1	0.08
612268	Soil	11.7	21.2	0.35	105.1	0.004	2	1.17	0.003	0.05	<0.1	3.6	0.10	0.03	257	0.5	0.02	3.3	1.03	<0.1	0.06
612269	Soil	13.1	24.1	0.49	95.2	0.007	6	1.27	0.003	0.07	<0.1	5.3	0.10	0.03	396	0.6	0.03	3.4	2.35	<0.1	0.06
612270	Soil	9.4	16.7	0.38	122.6	0.007	6	0.92	0.008	0.05	<0.1	2.7	0.08	0.10	218	1.0	<0.02	2.5	1.88	<0.1	0.07
120726	Soil	8.5	17.6	0.31	80.5	0.002	3	0.90	0.003	0.07	<0.1	7.3	0.11	0.05	121	0.8	0.03	2.6	2.50	<0.1	0.13
120727	Soil	8.4	22.8	0.44	167.5	0.004	3	1.53	0.002	0.10	<0.1	9.2	0.15	<0.02	40	0.5	0.09	4.5	6.15	<0.1	0.10
120728	Soil	4.9	17.5	0.19	128.0	0.003	1	1.07	0.003	0.06	<0.1	3.8	0.12	0.06	24	0.4	0.08	3.2	2.65	<0.1	0.05
120729	Soil	6.6	18.4	0.29	68.2	0.006	1	1.07	0.001	0.04	<0.1	3.0	0.09	<0.02	24	0.4	0.02	2.9	2.89	<0.1	<0.02
120730	Soil	6.5	21.3	0.28	57.0	0.006	1	1.24	0.002	0.05	<0.1	1.9	0.10	0.03	17	0.5	<0.02	3.5	2.54	<0.1	<0.02
120731	Soil	6.1	20.8	0.26	52.1	0.005	<1	1.19	0.003	0.05	<0.1	1.2	0.10	0.07	35	0.5	0.03	3.1	2.15	<0.1	<0.02
120732	Soil	8.3	23.7	0.22	83.4	0.015	1	1.19	0.003	0.06	0.1	1.0	0.12	0.05	35	0.6	0.04	5.1	2.12	<0.1	<0.02
120733	Soil	8.1	16.4	0.22	74.0	0.004	<1	0.90	0.002	0.05	<0.1	2.7	0.09	0.02	42	0.4	<0.02	2.6	2.27	<0.1	<0.02
120734	Soil	6.1	22.5	0.30	66.2	0.005	2	1.27	0.002	0.06	<0.1	1.7	0.09	0.04	25	0.4	0.04	3.5	2.23	<0.1	<0.02
120735	Soil	6.8	22.1	0.21	79.8	0.007	2	1.15	0.003	0.07	<0.1	0.9	0.09	0.07	33	0.5	<0.02	4.0	2.30	<0.1	<0.02
120736	Soil	5.4	19.1	0.19	51.6	0.004	1	1.12	0.001	0.04	<0.1	1.1	0.11	0.02	21	0.5	<0.02	3.3	1.66	<0.1	<0.02
120737	Soil	6.7	17.7	0.25	56.0	0.006	<1	1.00	0.002	0.04	<0.1	1.9	0.08	0.03	31	0.4	0.07	2.9	1.43	<0.1	<0.02
120738	Soil	9.1	23.4	0.26	113.8	0.005	2	1.46	0.003	0.06	<0.1	1.9	0.10	0.10	42	0.6	0.04	3.6	1.99	<0.1	0.02
120739	Soil	15.0	16.6	0.25	137.9	0.005	2	0.98	0.005	0.05	<0.1	5.0	0.08	0.06	61	0.6	0.04	2.4	1.33	<0.1	0.03
120740	Soil	19.9	17.1	0.38	127.5	0.007	5	0.93	0.007	0.06	0.1	3.3	0.07	0.07	123	0.7	0.05	2.0	0.58	<0.1	0.04
120741	Soil	21.9	29.1	1.09	87.3	0.006	5	1.17	0.003	0.10	<0.1	3.6	0.21	0.05	106	1.2	0.03	3.4	7.07	<0.1	0.11
120742	Soil	17.1	25.7	0.45	78.8	0.003	3	0.66	0.003	0.08	<0.1	4.5	0.16	0.03	1267	1.5	<0.02	2.0	1.40	<0.1	0.09
120743	Soil	21.7	19.4	1.39	68.7	0.003	2	0.39	0.006	0.06	<0.1	5.2	0.13	0.03	1107	1.3	<0.02	1.1	2.54	<0.1	0.05
120744	Soil	20.2	20.1	1.25	93.9	0.004	6	0.89	0.005	0.14	<0.1	3.8	0.14	0.05	97	0.9	0.02	2.4	1.13	<0.1	0.10
120745	Soil	20.3	26.5	0.75	105.1	0.002	1	0.64	0.004	0.06	<0.1	6.3	0.08	0.03	97	1.1	<0.02	1.8	0.90	<0.1	0.11
120746	Soil	26.2	33.3	0.79	157.4	0.002	2	0.85	0.003	0.07	<0.1	6.1	0.09	0.03	162	1.1	<0.02	2.5	0.99	<0.1	0.09



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 3 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
612262	Soil			0.42	14.3	68.1	<0.05	1.1	2.36	8.7	<0.02	<1	1.0	41.4	<10	<2
612263	Soil			0.23	18.0	14.4	<0.05	1.1	5.24	12.3	0.02	<1	1.0	42.5	<10	<2
612264	Soil			0.31	19.2	95.6	<0.05	1.1	5.68	18.5	<0.02	<1	0.8	26.1	<10	<2
612265	Soil			0.19	10.5	74.5	<0.05	2.9	15.22	33.0	<0.02	<1	1.7	43.7	<10	<2
612266	Soil			0.27	12.0	17.6	<0.05	2.4	9.28	28.9	<0.02	<1	1.1	34.8	<10	<2
612267	Soil			0.21	8.3	21.4	<0.05	2.4	7.67	24.3	<0.02	<1	1.4	35.4	<10	<2
612268	Soil			0.34	7.9	7.2	<0.05	1.4	10.06	27.9	0.05	<1	0.8	18.8	<10	<2
612269	Soil			0.30	10.0	14.3	<0.05	2.3	11.72	30.9	<0.02	<1	1.1	29.5	<10	<2
612270	Soil			0.35	8.1	8.5	<0.05	1.8	10.87	16.2	<0.02	<1	0.6	17.4	<10	<2
120726	Soil			0.10	7.1	15.1	<0.05	3.6	25.79	23.1	<0.02	<1	1.0	27.9	<10	<2
120727	Soil			0.10	11.5	19.3	<0.05	3.9	20.21	24.5	<0.02	<1	1.4	60.6	<10	<2
120728	Soil			0.18	11.3	7.5	<0.05	1.3	8.80	19.0	0.03	<1	0.6	22.0	<10	<2
120729	Soil			0.18	7.1	3.8	<0.05	0.3	6.00	17.9	0.02	<1	0.8	29.3	<10	<2
120730	Soil			0.25	8.8	3.5	<0.05	0.2	4.96	16.3	0.03	2	0.8	25.5	<10	<2
120731	Soil			0.27	8.9	9.3	<0.05	0.3	4.65	14.6	0.02	<1	0.9	17.0	<10	<2
120732	Soil			0.45	12.1	5.6	<0.05	<0.1	3.23	17.7	0.02	<1	0.4	11.3	<10	<2
120733	Soil			0.09	8.1	3.3	<0.05	0.4	11.18	22.8	<0.02	<1	0.9	18.7	<10	<2
120734	Soil			0.19	11.2	4.2	<0.05	0.5	5.88	18.6	0.03	<1	1.2	27.1	<10	<2
120735	Soil			0.20	11.7	3.3	<0.05	<0.1	4.79	17.2	0.03	<1	0.8	15.9	<10	<2
120736	Soil			0.27	8.5	2.7	<0.05	0.3	2.99	12.8	<0.02	<1	0.4	17.2	<10	<2
120737	Soil			0.24	7.2	1.7	<0.05	0.2	4.43	16.8	0.02	<1	0.5	18.6	<10	<2
120738	Soil			0.25	11.8	9.7	<0.05	0.5	10.16	30.8	0.03	<1	1.4	16.4	<10	<2
120739	Soil			0.24	8.0	2.9	<0.05	1.5	20.66	38.2	0.04	2	1.0	17.5	<10	<2
120740	Soil			0.27	5.0	18.4	<0.05	1.4	21.64	41.4	<0.02	<1	1.0	13.8	<10	<2
120741	Soil			0.20	8.3	1.4	<0.05	3.8	13.68	43.3	0.02	<1	0.9	35.7	<10	<2
120742	Soil			0.15	5.7	1.7	<0.05	2.3	14.43	30.5	0.03	<1	0.9	13.4	<10	<2
120743	Soil			0.11	5.5	3.9	<0.05	1.7	12.56	42.6	0.03	<1	0.4	6.4	<10	<2
120744	Soil			0.16	7.4	3.8	<0.05	3.6	13.63	40.7	<0.02	<1	1.0	20.8	<10	<2
120745	Soil			0.09	5.0	5.5	<0.05	3.0	14.78	40.7	0.04	<1	0.8	12.8	<10	<2
120746	Soil			0.10	6.1	42.1	<0.05	2.6	16.13	52.0	<0.02	<1	0.8	18.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
120747	Soil			0.57	35.00	21.93	100.1	87	32.6	13.2	541	2.85	19.4	1.6	4.7	2.0	44.9	0.24	1.03	0.27	16	0.81	0.096
120748	Soil			0.48	44.35	42.25	104.6	72	46.6	18.1	466	3.01	26.7	0.9	5.3	5.1	66.4	0.15	0.93	0.35	10	1.36	0.068
120749	Soil			0.47	34.66	19.73	97.2	102	37.6	10.9	181	2.96	28.7	1.1	4.8	3.4	34.8	0.10	1.15	0.25	17	0.55	0.082
120750	Soil			0.45	46.25	37.43	109.3	89	54.7	15.6	615	3.85	12.6	0.7	1.8	4.8	26.2	0.10	0.71	0.38	17	0.15	0.053
120751	Soil			0.73	39.49	33.17	93.4	137	38.9	15.6	781	3.43	27.0	1.9	2.6	4.7	87.8	0.44	0.70	0.33	18	0.98	0.084
120752	Soil			0.70	35.97	22.89	81.9	54	35.9	16.4	870	3.88	17.0	1.5	0.6	4.9	40.0	0.14	0.91	0.34	22	0.29	0.053
120753	Soil			0.79	36.84	31.04	81.6	111	26.5	19.8	1219	4.75	15.2	0.8	0.7	1.4	24.1	0.09	0.57	0.36	26	0.13	0.105
120754	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
120755	Soil			0.86	35.89	60.94	105.3	78	24.9	38.5	2904	6.02	17.6	0.6	0.5	3.2	36.9	0.19	0.41	0.49	31	0.34	0.134
120756	Soil			0.69	53.84	32.08	100.0	106	39.9	21.3	659	4.81	15.4	1.4	1.5	4.3	56.5	0.09	0.44	0.42	20	0.70	0.073
120757	Soil			0.74	26.68	26.57	89.7	67	18.9	15.5	1053	4.99	17.0	0.3	1.2	1.9	18.4	0.10	0.42	0.47	32	0.19	0.064
120758	Soil			0.79	43.00	35.04	99.7	102	31.8	25.8	1805	3.99	13.7	2.0	1.3	3.5	92.1	0.19	0.51	0.41	24	1.08	0.106
120759	Soil			0.85	40.47	39.24	92.2	102	27.1	25.3	2430	5.07	14.8	0.6	0.4	2.4	10.6	0.20	0.47	0.41	31	0.04	0.089
120760	Soil			0.64	43.77	36.04	80.8	172	27.5	19.5	1300	3.63	14.2	1.1	1.8	3.6	22.0	0.14	0.41	0.42	26	0.11	0.085
120761	Soil			0.73	29.76	27.90	68.4	111	28.7	14.4	417	3.45	17.9	2.1	1.4	5.9	13.5	0.11	0.45	0.37	23	0.06	0.034
612470	Soil			0.51	45.19	30.03	86.1	159	34.8	14.9	484	3.64	14.6	0.7	1.7	3.5	18.1	0.07	0.38	0.40	16	0.25	0.037
612471	Soil			0.51	48.50	41.21	86.2	193	35.9	19.3	841	3.54	9.1	0.9	0.7	3.5	43.7	0.09	0.34	0.37	16	0.82	0.063
612472	Soil			0.68	42.03	32.69	90.1	128	33.7	14.7	592	3.83	13.2	0.9	1.2	3.8	15.5	0.13	0.44	0.44	20	0.18	0.062
612473	Soil			1.08	29.31	26.73	82.4	65	25.0	11.0	414	3.25	11.7	0.8	1.8	1.0	10.7	0.15	0.60	0.37	29	0.09	0.079
612474	Soil			0.99	30.81	21.12	86.5	45	32.4	12.5	311	3.06	12.5	0.8	2.9	3.1	11.9	0.20	0.63	0.29	27	0.10	0.060
612475	Soil			0.85	35.63	31.50	94.4	29	30.5	15.3	703	3.55	18.8	0.6	1.7	1.3	10.5	0.15	0.76	0.34	23	0.04	0.049
612476	Soil			1.22	31.46	31.35	86.7	46	29.3	15.6	713	3.17	13.1	0.8	2.6	1.3	9.6	0.21	0.73	0.32	29	0.06	0.062
612477	Soil			1.31	41.27	42.96	92.7	74	30.4	22.9	1640	4.24	15.8	0.9	3.3	1.6	16.3	0.19	0.71	0.44	33	0.12	0.097
612478	Soil			0.72	31.81	23.40	77.4	75	31.4	12.6	437	3.08	10.7	0.9	1.7	2.0	24.4	0.20	0.59	0.29	19	0.25	0.066
612479	Soil			0.61	36.04	23.07	83.8	54	35.8	13.6	573	3.24	18.3	1.2	2.6	3.8	18.0	0.22	0.86	0.32	15	0.15	0.046
612480	Soil			0.95	30.03	21.38	75.1	93	24.7	9.2	355	2.58	15.5	1.8	2.0	1.5	42.1	0.37	0.72	0.27	20	0.94	0.096
612481	Soil			1.04	34.05	19.99	80.0	190	29.6	11.6	339	2.69	19.6	1.3	6.1	3.3	50.1	0.30	1.32	0.26	19	1.04	0.060
612482	Soil			0.71	32.16	19.39	89.5	139	27.3	10.7	363	2.73	16.9	2.1	3.2	2.0	75.0	0.33	0.78	0.26	22	1.52	0.058
612483	Soil			1.05	34.85	20.75	87.3	133	32.4	12.2	322	2.98	22.1	1.5	3.0	2.7	35.1	0.28	1.41	0.30	24	0.47	0.056
612484	Soil			1.06	29.12	21.00	72.8	161	25.8	10.8	493	2.42	16.2	1.3	2.9	1.2	149.9	0.51	1.23	0.24	23	3.49	0.081



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 27, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	Unit	MDL	1F15 La	1F15 Cr	1F15 Mg	1F15 Ba	1F15 Ti	1F15 B	1F15 Al	1F15 Na	1F15 K	1F15 W	1F15 Sc	1F15 Ti	1F15 S	1F15 Hg	1F15 Se	1F15 Te	1F15 Ga	1F15 Cs	1F15 Ge	1F15 Hf
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
120747	Soil			13.4	25.0	0.43	97.1	0.003	3	0.81	0.005	0.07	<0.1	4.0	0.08	0.05	89	0.8	<0.02	2.3	1.45	<0.1	0.08
120748	Soil			9.7	22.4	1.13	46.4	0.003	<1	0.92	0.003	0.08	<0.1	6.4	0.08	<0.02	112	0.9	<0.02	2.4	2.79	<0.1	0.10
120749	Soil			20.0	29.2	0.54	99.0	0.002	3	0.87	0.003	0.08	<0.1	6.4	0.11	0.04	719	1.2	<0.02	2.4	1.11	<0.1	0.11
120750	Soil			11.7	39.3	1.16	46.9	0.006	2	1.82	<0.001	0.07	<0.1	8.3	0.06	<0.02	74	0.8	<0.02	4.5	5.51	<0.1	0.09
120751	Soil			28.2	22.2	0.19	74.1	0.002	3	1.17	0.002	0.07	<0.1	8.5	0.11	0.03	424	0.7	0.06	2.0	1.23	<0.1	0.08
120752	Soil			10.8	29.0	0.52	77.8	0.003	3	1.88	<0.001	0.09	<0.1	6.9	0.10	<0.02	140	0.6	0.05	4.0	2.42	<0.1	0.03
120753	Soil			6.3	29.7	0.44	64.1	0.003	2	1.72	<0.001	0.09	<0.1	1.8	0.08	0.04	47	0.5	0.05	5.2	3.42	<0.1	0.03
120754	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
120755	Soil			3.8	29.6	0.43	95.2	0.003	3	2.02	0.001	0.12	<0.1	3.6	0.08	0.05	34	0.3	0.08	6.8	6.84	<0.1	0.05
120756	Soil			15.7	20.8	0.32	160.7	0.001	3	1.24	0.002	0.07	<0.1	13.9	0.10	0.04	140	0.6	0.05	3.0	2.02	<0.1	0.09
120757	Soil			3.9	25.9	0.36	93.9	0.002	3	1.90	<0.001	0.11	<0.1	2.9	0.10	0.03	20	0.4	0.05	7.4	3.82	<0.1	0.03
120758	Soil			18.5	23.7	0.42	167.9	0.005	4	1.79	0.005	0.10	<0.1	10.9	0.12	0.07	38	0.7	0.08	4.9	2.41	<0.1	0.12
120759	Soil			5.0	29.8	0.41	104.7	0.003	3	2.00	<0.001	0.10	<0.1	3.3	0.09	0.02	39	0.3	0.05	6.4	4.18	<0.1	0.05
120760	Soil			7.3	28.5	0.48	113.8	0.003	2	1.63	0.004	0.09	<0.1	3.8	0.10	0.03	45	<0.1	0.07	5.2	4.52	<0.1	0.05
120761	Soil			14.3	28.7	0.48	73.5	0.002	3	1.55	0.003	0.06	<0.1	4.9	0.08	0.02	213	0.3	0.04	4.1	0.95	<0.1	0.11
612470	Soil			4.8	15.4	0.10	94.0	<0.001	3	0.45	0.002	0.07	<0.1	6.3	0.11	<0.02	111	0.3	0.04	1.7	3.13	<0.1	0.07
612471	Soil			9.7	20.7	0.34	132.6	0.004	3	1.12	0.004	0.07	<0.1	9.6	0.11	0.04	53	0.4	0.05	3.4	3.37	<0.1	0.10
612472	Soil			6.7	21.3	0.22	114.1	0.003	4	0.95	0.003	0.09	<0.1	5.4	0.14	0.03	57	<0.1	0.08	3.3	4.11	<0.1	0.06
612473	Soil			7.3	24.4	0.26	97.3	0.005	2	1.21	0.004	0.06	0.1	1.8	0.12	0.04	49	0.4	<0.02	4.0	2.37	<0.1	<0.02
612474	Soil			9.0	22.1	0.36	68.2	0.009	2	1.10	0.003	0.04	0.1	2.9	0.08	<0.02	26	0.3	0.05	3.2	1.49	<0.1	0.03
612475	Soil			5.4	17.0	0.23	69.4	0.009	2	0.79	0.003	0.04	<0.1	2.5	0.07	0.02	26	0.2	0.04	2.5	3.35	<0.1	<0.02
612476	Soil			7.6	23.3	0.35	79.9	0.011	1	1.18	0.004	0.05	0.1	2.0	0.10	0.03	40	0.3	0.06	3.4	2.73	<0.1	<0.02
612477	Soil			8.7	27.8	0.43	93.1	0.015	3	1.35	0.005	0.08	<0.1	4.2	0.14	0.03	36	0.6	0.05	4.8	4.17	<0.1	<0.02
612478	Soil			11.6	17.5	0.25	99.3	0.006	1	0.90	0.004	0.05	<0.1	3.6	0.07	<0.02	51	0.2	0.05	2.5	1.60	<0.1	<0.02
612479	Soil			11.9	14.7	0.22	90.7	0.004	1	0.79	0.003	0.04	<0.1	5.7	0.07	<0.02	70	0.2	0.03	1.9	1.24	<0.1	0.03
612480	Soil			11.5	16.1	0.23	145.3	0.005	<1	0.72	0.005	0.05	<0.1	3.3	0.07	0.06	127	0.4	0.05	1.9	0.73	<0.1	0.05
612481	Soil			14.7	14.8	0.46	76.2	0.009	2	0.61	0.006	0.05	0.1	5.4	0.10	0.03	278	0.7	0.05	1.6	0.96	<0.1	0.08
612482	Soil			19.0	19.3	0.20	111.6	0.004	2	0.64	0.005	0.05	<0.1	4.3	0.09	0.05	213	0.7	0.02	1.7	1.66	<0.1	0.05
612483	Soil			15.7	20.8	0.29	165.2	0.008	2	0.87	0.005	0.05	0.1	5.1	0.08	0.03	321	0.5	0.04	2.6	0.89	<0.1	0.07
612484	Soil			17.4	18.5	0.31	111.0	0.008	2	0.83	0.007	0.05	<0.1	3.1	0.07	0.05	250	0.5	0.03	2.0	0.65	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 27, 2011

Page: 4 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
120747	Soil	0.16	6.1	2.6	<0.05	2.3	10.99	28.7	0.04	<1	0.5	19.1	<10	<2
120748	Soil	0.10	4.8	33.5	<0.05	3.9	10.73	22.0	<0.02	<1	0.7	30.4	<10	<2
120749	Soil	0.09	5.9	4.8	<0.05	2.9	16.15	36.5	0.03	<1	1.1	19.8	<10	<2
120750	Soil	0.15	6.9	23.9	<0.05	2.7	15.87	25.1	<0.02	<1	1.7	69.3	12	<2
120751	Soil	0.17	7.1	12.5	<0.05	2.1	27.71	59.7	0.04	<1	1.8	16.9	<10	<2
120752	Soil	0.22	10.0	3.7	<0.05	1.7	12.64	37.7	0.04	<1	1.4	44.4	<10	<2
120753	Soil	0.22	11.4	4.1	<0.05	1.2	4.42	15.2	0.02	<1	1.0	32.2	<10	<2
120754	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
120755	Soil	0.29	14.0	3.1	<0.05	1.5	4.36	10.5	0.06	<1	2.3	45.9	<10	<2
120756	Soil	0.11	6.8	4.2	<0.05	2.9	34.60	26.3	0.05	<1	1.8	22.5	<10	<2
120757	Soil	0.28	19.1	2.0	<0.05	1.3	5.04	7.6	0.05	<1	0.8	38.4	<10	<2
120758	Soil	0.29	11.9	5.3	<0.05	3.2	33.47	40.3	0.05	<1	1.6	34.3	<10	<2
120759	Soil	0.29	17.3	2.4	<0.05	1.5	3.71	11.9	0.05	<1	1.5	44.9	<10	<2
120760	Soil	0.26	13.5	6.3	<0.05	1.2	9.33	19.4	0.04	<1	1.4	42.6	<10	<2
120761	Soil	0.29	7.3	4.3	<0.05	3.5	11.30	36.2	0.04	<1	1.2	33.1	<10	<2
612470	Soil	0.05	5.2	3.5	<0.05	2.0	12.48	10.8	0.04	<1	1.3	9.8	<10	<2
612471	Soil	0.22	6.7	2.8	<0.05	3.6	24.99	22.5	0.04	<1	1.8	38.5	<10	<2
612472	Soil	0.15	10.6	3.7	<0.05	1.7	9.54	17.5	0.04	<1	1.7	24.3	<10	2
612473	Soil	0.29	11.8	7.0	<0.05	0.4	7.24	16.1	0.03	<1	1.1	20.0	<10	<2
612474	Soil	0.29	6.0	1.5	<0.05	0.9	5.83	20.0	0.03	<1	0.7	28.5	10	<2
612475	Soil	0.17	5.8	0.7	<0.05	0.4	4.39	13.4	0.04	<1	0.8	16.5	<10	<2
612476	Soil	0.26	7.7	7.2	<0.05	0.4	4.54	18.9	<0.02	<1	1.1	21.0	<10	<2
612477	Soil	0.21	12.2	6.0	<0.05	0.1	8.51	21.0	0.04	<1	1.0	28.3	<10	<2
612478	Soil	0.14	6.1	2.1	<0.05	0.6	15.39	24.6	0.03	<1	0.9	19.1	<10	<2
612479	Soil	0.10	4.5	1.1	<0.05	1.6	17.30	40.3	0.04	<1	0.9	15.0	<10	<2
612480	Soil	0.23	5.9	5.9	<0.05	1.7	13.70	24.7	0.02	<1	0.8	9.7	<10	<2
612481	Soil	0.24	3.9	2.0	<0.05	2.2	16.20	28.0	0.03	<1	0.6	8.5	<10	<2
612482	Soil	0.18	5.3	2.5	<0.05	1.5	15.11	37.5	0.04	<1	0.8	8.0	<10	<2
612483	Soil	0.29	5.8	1.3	<0.05	1.9	17.77	26.3	0.04	<1	0.9	13.1	10	<2
612484	Soil	0.28	5.1	4.0	<0.05	1.1	18.35	29.3	<0.02	<1	0.8	11.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	MDL	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
612485	Soil	0.82	42.16	25.52	112.2	100	39.1	16.5	419	3.00	23.5	1.2	6.3	6.3	109.1	0.20	1.60	0.30	16	2.32	0.097
612486	Soil	0.77	46.27	46.52	117.9	104	45.4	21.5	1288	3.46	7.8	1.2	2.8	3.7	54.5	0.27	0.74	0.42	17	0.61	0.156
612487	Soil	0.62	57.24	32.61	133.7	105	65.8	22.1	508	4.06	37.5	1.1	7.3	3.7	37.5	0.14	1.98	0.47	18	0.25	0.037
612488	Soil	0.57	62.26	66.76	147.8	104	58.9	37.8	3160	4.43	6.2	1.2	4.2	4.4	41.6	0.40	0.70	0.46	19	0.43	0.071
612489	Soil	0.58	88.26	63.50	140.0	83	56.9	35.8	1048	5.65	15.5	1.0	1.3	3.3	23.8	0.06	0.73	0.70	17	0.06	0.032
612490	Soil	0.81	72.08	48.24	109.3	138	44.7	27.5	989	3.91	23.3	1.3	6.1	4.2	33.4	0.11	1.44	0.47	14	0.18	0.046
612491	Soil	0.68	68.03	63.66	117.5	156	39.7	51.0	3658	4.33	19.4	1.1	2.9	1.3	25.1	0.34	1.45	0.46	14	0.21	0.129
612492	Soil	0.76	29.94	17.44	92.7	94	24.6	9.8	402	2.46	22.0	1.9	1.0	1.4	82.5	0.15	0.98	0.32	15	0.61	0.163
612493	Soil	0.80	42.81	30.11	117.1	17	34.7	20.4	939	3.82	18.7	1.0	1.1	2.3	41.6	0.13	1.06	0.42	24	0.02	0.042
612494	Soil	1.18	37.44	22.71	81.0	62	20.4	8.1	129	2.41	33.6	1.1	1.1	1.5	68.1	0.05	1.27	0.35	22	0.02	0.045
612495	Soil	0.99	24.45	13.46	62.5	181	22.5	7.7	113	1.13	26.4	5.1	6.4	5.1	142.1	0.24	1.07	0.13	11	3.18	0.070
612496	Soil	1.02	22.03	15.25	58.7	52	16.8	9.1	364	2.06	14.0	1.2	0.6	0.5	19.0	0.04	0.63	0.28	21	0.10	0.039
612497	Soil	1.26	25.95	24.51	88.1	74	17.3	10.3	385	2.43	12.5	0.6	0.4	0.6	12.6	0.14	0.74	0.39	36	0.07	0.050
612498	Soil	0.64	29.98	23.89	94.7	86	28.3	13.5	414	3.20	14.4	1.0	1.4	2.9	40.3	0.39	0.45	0.34	19	0.39	0.046
612499	Soil	0.83	27.76	18.48	93.7	61	20.5	9.6	362	3.43	14.2	0.5	<0.2	1.1	19.4	0.19	0.43	0.36	29	0.11	0.058
612500	Soil	0.91	39.01	24.44	91.6	227	30.5	16.6	1428	3.31	13.5	3.5	0.8	1.8	66.3	0.45	0.59	0.36	27	0.58	0.119
120916	Soil	0.53	49.13	30.55	90.8	238	37.3	20.9	768	3.81	7.0	0.6	0.7	3.7	25.6	0.11	0.27	0.30	18	0.49	0.055
120917	Soil	0.65	63.01	56.59	134.1	211	51.6	32.4	1428	5.18	20.2	0.9	1.1	5.2	30.3	0.09	0.43	0.50	21	0.35	0.053
120918	Soil	0.99	50.06	48.47	127.6	318	51.6	24.6	486	4.92	19.5	0.9	1.2	3.2	81.2	0.18	0.66	0.34	15	1.42	0.082
120919	Soil	1.10	38.55	39.41	90.5	267	32.9	17.5	770	3.87	10.3	1.5	1.2	1.7	79.4	0.13	0.44	0.32	15	1.76	0.104
120920	Soil	1.13	38.25	47.70	100.2	475	35.5	19.5	333	4.53	10.4	1.1	1.5	3.9	42.1	0.10	0.53	0.36	14	0.49	0.065
120921	Soil	1.44	38.51	43.42	98.6	305	38.7	20.8	699	4.28	12.9	1.1	1.8	2.8	104.9	0.11	0.55	0.31	15	1.23	0.093
120922	Soil	1.17	34.89	41.02	102.9	383	37.3	20.4	787	4.20	11.6	1.5	1.2	3.0	46.6	0.10	0.52	0.31	16	0.79	0.087
120923	Soil	1.32	40.77	43.16	116.9	693	38.7	32.0	898	4.50	13.4	1.0	2.0	2.5	97.9	0.17	0.54	0.31	18	1.77	0.097
120831	Soil	0.61	35.41	34.82	84.1	190	35.2	17.3	587	4.02	14.6	0.8	1.4	6.4	31.6	0.04	0.33	0.37	16	0.42	0.035
120832	Soil	0.89	27.52	27.91	82.8	67	28.9	12.1	428	3.69	10.6	1.2	0.5	2.2	15.4	0.06	0.44	0.30	21	0.18	0.067
120833	Soil	0.75	30.94	32.70	89.2	29	30.0	14.6	500	3.79	9.5	0.6	0.9	1.9	14.5	0.09	0.44	0.29	20	0.12	0.050
120834	Soil	1.01	24.96	21.10	76.4	23	24.3	9.7	289	3.33	8.8	0.8	1.0	0.8	11.4	0.12	0.56	0.26	30	0.12	0.069
120835	Soil	0.89	23.88	24.66	121.4	49	25.5	8.6	511	3.40	8.7	1.5	1.9	1.7	11.8	0.32	0.51	0.35	28	0.12	0.119
120836	Soil	0.67	26.60	23.11	76.0	45	28.2	11.2	331	2.99	9.2	0.6	0.7	3.1	12.4	0.07	0.39	0.25	16	0.10	0.039



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 27, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
612485	Soil	14.6	21.0	1.14	80.7	0.002	1	0.41	0.006	0.06	<0.1	6.6	0.11	0.04	346	1.1	0.05	1.3	1.71	<0.1	0.06
612486	Soil	10.2	31.2	0.75	91.3	0.009	5	1.45	0.006	0.09	<0.1	8.3	0.15	0.09	95	0.5	0.02	4.1	19.44	<0.1	0.13
612487	Soil	8.5	25.6	0.35	78.2	0.002	2	0.68	0.003	0.07	<0.1	7.6	0.14	<0.02	961	0.7	0.04	2.0	6.24	<0.1	0.07
612488	Soil	7.6	40.4	1.17	161.2	0.004	3	2.14	0.005	0.09	<0.1	9.8	0.20	0.04	95	0.5	<0.02	5.7	25.32	<0.1	0.16
612489	Soil	6.8	22.0	0.61	57.0	0.003	2	1.18	0.002	0.06	<0.1	5.7	0.12	<0.02	56	0.3	0.12	3.8	6.42	<0.1	0.04
612490	Soil	13.7	23.8	0.52	67.8	0.004	2	1.08	0.003	0.09	<0.1	5.7	0.12	<0.02	191	0.4	0.07	3.2	5.04	<0.1	0.08
612491	Soil	6.9	23.1	0.42	96.7	0.005	<1	1.30	0.004	0.09	<0.1	3.4	0.16	0.08	90	0.3	0.11	3.7	4.63	<0.1	0.05
612492	Soil	8.0	19.5	0.45	86.9	0.004	2	0.76	0.005	0.07	<0.1	3.7	0.09	0.10	307	0.6	0.04	2.5	1.85	<0.1	0.10
612493	Soil	7.8	34.4	0.47	71.6	0.008	4	1.33	0.003	0.07	<0.1	3.2	0.11	<0.02	95	0.3	0.03	5.6	3.55	<0.1	<0.02
612494	Soil	13.3	21.4	0.06	66.9	0.004	2	0.47	0.002	0.05	<0.1	1.9	0.14	<0.02	295	0.6	0.03	3.2	1.09	<0.1	<0.02
612495	Soil	15.5	9.4	1.41	35.5	0.001	2	0.19	0.004	0.04	<0.1	2.5	0.18	<0.02	148	1.1	0.03	0.7	0.19	<0.1	0.06
612496	Soil	7.3	14.2	0.07	64.9	0.003	<1	0.56	0.002	0.05	<0.1	1.3	0.09	<0.02	54	0.3	0.03	2.7	1.27	<0.1	<0.02
612497	Soil	9.5	15.8	0.10	66.0	0.011	3	0.65	0.004	0.07	<0.1	1.3	0.12	<0.02	84	0.3	0.05	4.3	2.64	<0.1	<0.02
612498	Soil	8.9	20.5	0.27	65.8	0.003	3	0.96	0.004	0.08	<0.1	4.6	0.08	0.03	132	0.4	0.04	3.1	1.52	<0.1	0.04
612499	Soil	6.7	22.7	0.29	86.1	0.004	<1	1.04	0.003	0.10	<0.1	2.0	0.06	0.03	45	0.2	0.07	5.0	1.72	<0.1	<0.02
612500	Soil	9.6	26.0	0.37	143.7	0.004	2	1.37	0.005	0.08	<0.1	3.1	0.07	0.06	106	0.5	0.06	5.1	1.82	<0.1	0.05
120916	Soil	6.3	23.6	0.34	131.4	0.003	3	1.20	0.003	0.10	<0.1	7.6	0.12	0.04	59	0.5	0.05	4.1	5.00	<0.1	0.11
120917	Soil	8.7	29.0	0.53	196.4	0.005	2	1.71	0.005	0.10	<0.1	11.6	0.16	<0.02	38	0.4	0.09	5.4	8.29	<0.1	0.09
120918	Soil	7.1	15.4	0.19	285.9	0.002	3	0.80	0.004	0.08	<0.1	6.7	0.23	0.08	62	1.1	0.10	2.2	1.97	<0.1	0.11
120919	Soil	7.6	15.8	0.24	136.4	0.002	6	0.79	0.003	0.08	<0.1	4.4	0.14	0.10	89	0.4	0.05	2.2	2.65	<0.1	0.07
120920	Soil	4.3	17.7	0.28	98.2	0.002	4	0.97	0.001	0.08	<0.1	6.0	0.12	0.04	56	0.4	0.06	2.8	3.53	<0.1	0.09
120921	Soil	9.5	16.9	0.27	150.6	0.002	4	0.99	0.002	0.07	<0.1	6.4	0.15	0.09	60	0.5	0.05	2.5	1.15	<0.1	0.11
120922	Soil	8.2	18.2	0.25	119.9	0.002	4	1.01	0.001	0.08	<0.1	6.8	0.13	0.06	62	0.3	0.04	2.7	2.71	<0.1	0.07
120923	Soil	9.9	18.3	0.27	154.2	0.002	5	0.96	0.002	0.08	<0.1	7.0	0.15	0.08	87	0.5	0.05	2.7	1.92	<0.1	0.06
120831	Soil	5.8	18.2	0.28	123.4	0.002	3	0.95	0.001	0.07	<0.1	7.4	0.09	<0.02	38	<0.1	0.09	2.6	3.34	<0.1	0.07
120832	Soil	6.6	18.8	0.24	116.5	0.003	1	1.08	<0.001	0.05	<0.1	3.5	0.12	0.02	24	0.1	0.05	2.9	3.79	<0.1	0.03
120833	Soil	4.4	19.6	0.27	90.2	0.004	1	1.07	<0.001	0.05	<0.1	3.3	0.09	<0.02	10	<0.1	0.04	3.0	6.87	<0.1	0.02
120834	Soil	7.9	23.1	0.25	76.6	0.007	2	1.20	0.001	0.05	0.1	1.6	0.12	0.03	16	0.2	0.03	3.4	3.47	<0.1	<0.02
120835	Soil	12.4	23.9	0.28	138.1	0.004	2	1.45	<0.001	0.06	<0.1	3.3	0.14	0.03	66	<0.1	0.03	3.5	2.64	<0.1	0.04
120836	Soil	5.7	13.6	0.17	66.0	0.004	1	0.74	0.001	0.04	<0.1	3.4	0.09	<0.02	24	0.1	0.05	1.9	2.67	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 27, 2011

Page: 5 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
612485	Soil	0.07	4.5	3.8	<0.05	2.5	13.18	35.4	0.03	<1	0.7	6.8	11	<2
612486	Soil	0.24	10.7	5.5	<0.05	4.2	24.06	29.2	0.04	1	2.1	42.9	<10	<2
612487	Soil	0.11	5.4	4.0	<0.05	2.4	12.71	17.6	0.04	1	1.2	16.1	13	<2
612488	Soil	0.18	10.8	11.0	<0.05	5.8	14.33	21.4	0.03	<1	2.3	68.6	16	<2
612489	Soil	0.02	5.5	2.4	<0.05	2.8	12.98	17.6	0.04	<1	1.5	41.0	15	<2
612490	Soil	0.11	7.5	10.3	<0.05	3.0	12.28	26.9	0.03	1	1.4	36.4	<10	<2
612491	Soil	0.15	9.7	5.7	<0.05	0.9	5.53	18.3	0.04	<1	1.9	31.3	11	<2
612492	Soil	0.22	9.1	2.3	<0.05	2.7	7.19	16.3	0.04	<1	0.7	10.9	<10	<2
612493	Soil	0.26	14.7	6.1	<0.05	0.6	3.59	15.3	0.02	2	0.9	42.8	13	<2
612494	Soil	0.16	8.3	5.6	<0.05	0.1	3.44	24.8	0.04	<1	<0.1	3.2	<10	<2
612495	Soil	0.05	2.8	0.8	<0.05	3.9	7.03	30.6	<0.02	<1	0.3	2.0	<10	<2
612496	Soil	0.11	8.9	2.7	<0.05	<0.1	2.90	14.7	0.03	<1	0.5	4.6	<10	<2
612497	Soil	0.30	14.2	7.7	<0.05	<0.1	2.15	18.5	<0.02	<1	0.4	4.0	<10	2
612498	Soil	0.24	8.0	2.0	<0.05	1.9	8.23	19.8	0.03	<1	1.0	17.9	<10	<2
612499	Soil	0.33	13.1	3.4	<0.05	0.3	2.42	14.0	<0.02	<1	0.5	15.7	<10	<2
612500	Soil	0.36	10.4	1.5	<0.05	1.9	8.78	21.1	0.04	<1	1.0	21.8	<10	<2
120916	Soil	0.16	9.0	0.9	<0.05	3.4	21.19	17.3	0.04	1	0.9	35.7	<10	<2
120917	Soil	0.08	12.1	1.7	<0.05	4.6	19.91	26.1	0.07	<1	1.1	61.0	13	<2
120918	Soil	0.13	6.5	0.4	<0.05	4.5	20.42	18.7	0.06	<1	1.2	15.9	10	<2
120919	Soil	0.12	6.6	2.7	<0.05	1.9	20.98	24.1	0.05	<1	1.2	22.7	<10	<2
120920	Soil	0.19	7.4	1.9	<0.05	2.5	16.64	11.0	0.04	<1	1.1	34.0	<10	<2
120921	Soil	0.11	5.3	1.4	<0.05	3.1	23.80	27.5	0.05	<1	1.2	27.9	<10	<2
120922	Soil	0.12	7.3	0.6	<0.05	2.1	24.52	24.6	0.04	<1	1.2	25.6	<10	<2
120923	Soil	0.11	7.4	1.3	<0.05	1.8	25.74	31.4	0.06	<1	1.2	25.0	<10	<2
120831	Soil	0.16	6.3	0.8	<0.05	3.0	20.04	16.3	0.04	<1	0.9	33.9	<10	<2
120832	Soil	0.15	9.2	0.9	<0.05	1.0	10.72	21.8	0.04	<1	1.0	26.4	<10	<2
120833	Soil	0.14	7.7	1.0	<0.05	0.7	6.00	18.1	0.04	<1	0.9	31.6	<10	<2
120834	Soil	0.23	9.7	0.9	<0.05	0.2	5.58	23.4	0.03	<1	0.7	21.2	<10	<2
120835	Soil	0.19	12.5	1.3	<0.05	1.1	17.37	35.1	0.04	<1	1.2	24.6	<10	<2
120836	Soil	0.15	6.3	0.6	<0.05	0.7	7.35	20.6	0.03	<1	0.8	17.0	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 27, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	MDL	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
120837	Soil	0.61	25.71	21.04	72.4	32	16.9	7.8	390	3.19	5.9	0.5	0.3	0.5	9.6	0.05	0.32	0.32	22	0.09	0.075
120838	Soil	1.28	25.70	29.38	78.9	47	16.8	9.4	816	4.08	8.3	0.8	0.7	0.7	8.8	0.09	0.57	0.35	35	0.07	0.096
120839	Soil	0.84	23.83	19.89	69.3	20	20.4	8.0	262	3.03	8.6	0.7	1.1	1.0	6.2	0.05	0.51	0.30	30	0.04	0.060
120840	Soil	1.06	25.00	22.24	84.4	84	20.8	8.7	470	3.56	9.4	0.9	0.8	0.7	6.5	0.10	0.58	0.32	35	0.04	0.076
120841	Soil	1.03	21.70	26.32	90.7	60	21.4	8.4	481	3.89	9.2	0.7	0.9	0.5	6.8	0.19	0.62	0.31	36	0.05	0.081
120842	Soil	0.98	29.41	20.14	82.1	93	21.3	8.6	352	3.17	12.0	0.8	0.6	0.3	8.4	0.11	0.66	0.32	29	0.07	0.104
120843	Soil	0.84	29.44	20.22	76.7	76	28.8	11.4	706	3.31	9.3	1.7	1.1	2.8	25.5	0.15	0.48	0.31	30	0.36	0.106
120844	Soil	0.83	35.48	21.63	81.6	83	32.1	14.4	358	3.00	10.8	1.0	2.0	3.4	52.0	0.15	0.63	0.30	20	0.73	0.067
120845	Soil	2.20	30.06	21.81	67.4	116	24.2	11.1	584	2.36	25.7	1.5	9.1	1.7	167.8	0.43	2.28	0.22	19	6.68	0.084
120846	Soil	1.72	40.69	21.00	96.1	235	27.7	10.5	227	2.71	22.5	2.1	8.9	2.2	54.1	0.30	1.71	0.26	24	1.30	0.101
120847	Soil	2.45	44.01	24.40	83.9	185	28.1	12.6	351	2.68	27.7	1.8	11.8	3.2	107.5	0.42	2.34	0.29	15	3.05	0.108
120848	Soil	1.07	37.05	20.30	94.0	195	28.1	12.9	401	2.45	25.3	1.9	8.1	4.0	92.4	0.27	1.21	0.20	21	3.03	0.085
120849	Soil	1.10	41.94	27.20	124.1	124	41.3	16.5	484	3.30	29.8	1.2	13.2	4.5	80.1	0.19	1.49	0.30	17	1.46	0.139
120850	Soil	0.97	35.55	20.53	89.4	169	28.9	12.5	346	2.42	26.1	2.0	7.5	4.9	116.9	0.24	1.15	0.20	21	3.73	0.087
120924	Soil	0.74	46.46	31.29	89.9	67	39.1	15.9	737	4.51	15.5	1.2	0.9	5.5	21.5	<0.01	0.62	0.44	22	0.08	0.042
120925	Soil	0.99	30.98	26.06	85.0	58	28.7	12.9	424	3.37	11.8	0.9	1.5	1.8	12.7	0.11	0.55	0.30	26	0.09	0.063
120926	Soil	1.05	25.89	22.19	80.0	32	29.5	11.4	322	3.11	13.4	0.8	1.3	1.8	11.2	0.13	0.64	0.26	30	0.09	0.057
120927	Soil	1.11	27.49	26.13	78.5	47	29.5	11.0	308	3.07	12.5	0.8	1.7	0.8	11.8	0.21	0.62	0.27	32	0.09	0.061
120928	Soil	1.52	22.91	24.35	67.8	95	17.3	7.4	430	3.27	10.4	0.8	2.0	0.3	7.7	0.11	0.68	0.31	39	0.04	0.116
120929	Soil	0.68	28.49	30.43	111.5	113	28.4	13.3	552	3.38	12.7	0.9	5.3	2.1	26.1	0.18	0.51	0.32	21	0.28	0.070
120930	Soil	0.92	23.92	21.75	75.4	62	21.5	8.5	271	3.51	9.1	0.7	1.8	0.5	5.9	0.12	0.54	0.28	27	0.04	0.058
120931	Soil	0.88	24.67	24.26	76.1	59	24.2	10.2	357	3.13	12.1	0.7	1.4	0.6	7.4	0.16	0.72	0.27	27	0.04	0.054
120932	Soil	1.13	25.79	28.39	79.5	39	22.7	10.4	477	3.42	13.7	0.8	1.5	0.4	9.0	0.20	0.82	0.32	32	0.07	0.078
120933	Soil	1.17	25.58	20.51	92.4	113	20.5	8.4	553	2.68	12.1	3.3	1.9	0.8	60.7	0.68	0.83	0.27	32	1.07	0.118
120934	Soil	0.87	31.80	20.46	69.1	153	24.4	10.6	575	2.76	19.9	2.6	3.6	1.2	78.0	0.19	1.16	0.26	17	1.42	0.088
120935	Soil	0.98	28.41	19.20	75.3	168	24.9	10.5	502	2.70	18.2	1.1	6.0	1.0	68.0	0.40	1.20	0.27	20	1.19	0.065
120936	Soil	0.69	33.11	15.87	90.2	158	24.9	12.0	318	2.30	16.2	1.4	6.4	4.3	91.2	0.25	0.57	0.19	15	3.74	0.071
120937	Soil	0.65	31.21	22.24	119.5	143	26.6	9.8	197	2.81	24.7	2.1	6.6	2.7	37.1	0.26	1.27	0.27	15	0.61	0.089
120938	Soil	0.86	33.44	23.59	104.3	125	32.9	13.5	418	2.66	33.1	1.3	6.5	4.5	131.3	0.24	2.57	0.23	14	3.38	0.081
120939	Soil	0.42	47.70	23.26	130.2	40	40.3	18.3	247	2.04	18.9	0.5	3.1	5.4	164.7	0.25	0.21	0.45	6	2.93	0.066



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 27, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
120837	Soil	3.3	16.1	0.14	61.8	0.002	2	0.91	<0.001	0.06	<0.1	1.2	0.10	0.03	15	0.1	0.05	3.3	3.02	<0.1	<0.02
120838	Soil	6.0	27.7	0.14	70.7	0.005	1	1.41	<0.001	0.07	<0.1	1.1	0.13	0.05	47	0.2	0.07	4.7	2.28	<0.1	<0.02
120839	Soil	6.0	21.9	0.23	63.4	0.005	2	1.37	<0.001	0.06	<0.1	1.5	0.15	0.03	25	0.2	0.04	4.3	2.58	<0.1	0.04
120840	Soil	7.2	25.6	0.23	86.3	0.006	2	1.35	0.001	0.06	<0.1	1.5	0.14	0.04	25	0.2	0.05	4.8	2.37	<0.1	0.02
120841	Soil	7.0	27.5	0.26	77.2	0.008	1	1.34	<0.001	0.06	<0.1	1.2	0.11	0.05	42	0.3	0.05	4.4	1.96	<0.1	<0.02
120842	Soil	5.9	18.8	0.19	95.1	0.005	2	1.09	0.002	0.05	<0.1	1.1	0.12	0.07	31	0.2	0.05	3.9	1.67	<0.1	<0.02
120843	Soil	18.5	24.6	0.42	175.2	0.005	2	1.63	0.003	0.06	<0.1	5.1	0.10	0.04	39	0.1	0.05	3.9	1.61	<0.1	0.06
120844	Soil	12.3	17.1	0.37	80.7	0.007	3	1.01	0.005	0.06	<0.1	4.7	0.07	0.03	47	0.2	0.07	2.7	1.09	<0.1	0.05
120845	Soil	12.0	12.8	1.34	72.1	0.002	3	0.45	0.004	0.08	<0.1	3.3	0.12	0.04	95	0.3	0.02	1.1	0.37	<0.1	0.08
120846	Soil	18.2	18.5	0.52	105.1	0.002	4	0.78	0.005	0.11	<0.1	4.0	0.18	0.05	85	0.7	0.04	2.1	0.90	<0.1	0.12
120847	Soil	11.8	10.6	1.21	74.2	0.002	4	0.55	0.005	0.11	<0.1	4.6	0.10	0.02	70	0.4	0.07	1.2	0.90	<0.1	0.04
120848	Soil	22.0	24.3	1.59	93.0	0.003	4	0.69	0.005	0.12	<0.1	4.7	0.14	0.02	140	0.9	0.02	2.0	0.82	<0.1	0.05
120849	Soil	20.3	28.5	0.79	121.5	0.003	4	0.66	0.004	0.10	<0.1	7.3	0.14	0.03	174	0.8	0.03	1.8	2.47	<0.1	0.07
120850	Soil	23.4	25.0	1.54	92.2	0.003	4	0.57	0.005	0.11	<0.1	4.8	0.15	<0.02	305	1.0	<0.02	1.7	1.37	<0.1	0.03
120924	Soil	6.4	18.7	0.08	63.6	0.002	1	0.32	<0.001	0.05	<0.1	6.7	0.15	<0.02	142	<0.1	0.08	1.5	0.99	<0.1	0.03
120925	Soil	8.7	21.4	0.25	65.2	0.008	2	1.07	<0.001	0.06	<0.1	2.8	0.09	<0.02	26	0.2	0.06	3.0	2.11	<0.1	0.02
120926	Soil	9.5	24.2	0.33	65.2	0.013	1	1.23	<0.001	0.05	<0.1	2.3	0.10	<0.02	31	0.3	0.04	3.5	1.56	<0.1	<0.02
120927	Soil	8.9	23.4	0.30	68.8	0.014	2	1.24	0.003	0.05	<0.1	2.0	0.10	0.02	34	0.3	0.05	3.3	1.61	<0.1	<0.02
120928	Soil	7.1	26.1	0.15	67.2	0.006	1	1.10	<0.001	0.07	<0.1	0.6	0.12	0.07	39	0.4	0.05	4.4	3.55	<0.1	<0.02
120929	Soil	8.7	16.2	0.20	119.3	0.004	2	0.93	0.002	0.08	<0.1	3.6	0.11	<0.02	69	0.2	0.04	2.5	3.46	<0.1	0.02
120930	Soil	5.7	23.4	0.23	45.3	0.007	1	1.08	<0.001	0.06	<0.1	1.1	0.07	0.05	27	0.2	0.04	3.6	1.77	<0.1	<0.02
120931	Soil	7.6	20.5	0.23	57.8	0.008	2	1.17	0.001	0.06	<0.1	1.7	0.12	0.03	35	0.2	0.05	3.3	1.88	<0.1	0.03
120932	Soil	8.3	21.2	0.19	86.2	0.006	2	1.16	0.001	0.06	<0.1	1.0	0.10	0.04	34	0.2	0.05	3.5	1.66	<0.1	<0.02
120933	Soil	13.2	21.4	0.13	168.6	0.007	2	0.98	0.002	0.05	<0.1	2.4	0.12	0.09	150	0.3	0.04	2.9	1.40	<0.1	0.03
120934	Soil	13.4	14.6	0.16	170.1	0.003	3	0.77	0.002	0.06	<0.1	3.9	0.11	0.09	323	0.4	0.06	1.8	1.01	<0.1	0.05
120935	Soil	14.5	15.8	0.26	91.8	0.005	3	0.81	0.005	0.05	<0.1	3.0	0.09	0.05	326	0.5	0.04	2.3	0.71	<0.1	0.07
120936	Soil	21.5	15.5	1.15	105.1	0.003	5	0.55	0.006	0.08	<0.1	4.3	0.16	0.03	174	1.3	<0.02	1.8	3.14	<0.1	0.09
120937	Soil	22.5	17.2	0.37	225.8	0.003	4	0.76	0.005	0.07	<0.1	4.7	0.10	0.05	63	1.0	<0.02	2.2	1.83	<0.1	0.11
120938	Soil	21.9	21.5	1.77	85.6	0.003	4	0.44	0.007	0.08	<0.1	5.9	0.10	0.03	539	1.4	0.04	1.5	1.33	0.1	0.09
120939	Soil	6.5	12.6	1.48	66.7	<0.001	5	0.58	0.005	0.10	<0.1	6.6	0.10	<0.02	330	0.4	0.05	1.2	8.02	<0.1	0.10



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 27, 2011

Page: 6 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
120837	Soil	0.13	10.7	1.2	<0.05	0.6	3.55	9.6	0.03	<1	0.7	13.7	<10	<2
120838	Soil	0.29	12.3	1.8	<0.05	0.4	4.54	17.3	0.04	<1	0.9	12.5	<10	<2
120839	Soil	0.34	10.7	1.6	<0.05	1.0	3.82	15.4	0.03	<1	0.6	24.1	<10	<2
120840	Soil	0.33	13.3	1.0	<0.05	0.5	5.05	18.8	0.04	<1	0.6	21.2	<10	<2
120841	Soil	0.34	10.8	1.9	<0.05	0.2	4.42	19.1	0.03	<1	0.5	15.6	<10	<2
120842	Soil	0.23	10.6	1.7	<0.05	0.3	4.58	17.0	0.04	<1	0.7	12.7	<10	<2
120843	Soil	0.31	8.9	1.3	<0.05	1.7	19.80	55.7	0.04	<1	1.3	30.1	<10	<2
120844	Soil	0.27	5.2	0.7	<0.05	2.2	15.58	24.9	0.03	<1	0.8	24.2	<10	<2
120845	Soil	0.08	3.8	3.4	<0.05	2.3	15.17	29.7	0.03	<1	0.8	6.2	<10	<2
120846	Soil	0.14	6.6	1.1	<0.05	3.4	15.33	33.8	0.03	<1	1.0	11.3	<10	<2
120847	Soil	0.09	5.0	2.4	<0.05	1.7	14.45	29.2	0.04	<1	0.8	7.2	<10	<2
120848	Soil	0.09	6.2	2.4	<0.05	2.0	12.57	47.0	0.03	<1	0.8	13.8	<10	<2
120849	Soil	0.11	6.6	3.4	<0.05	2.4	15.22	48.9	0.04	<1	0.7	12.5	<10	<2
120850	Soil	0.08	5.7	2.2	<0.05	1.6	12.33	49.9	0.03	<1	0.8	10.1	<10	<2
120924	Soil	0.05	3.7	0.9	<0.05	2.0	10.95	14.7	0.04	<1	1.0	5.5	<10	<2
120925	Soil	0.22	8.0	1.4	<0.05	0.4	6.72	22.4	0.03	<1	0.8	25.0	<10	<2
120926	Soil	0.31	7.5	2.1	<0.05	0.3	5.32	22.8	0.03	<1	0.7	27.2	<10	<2
120927	Soil	0.32	7.2	3.9	<0.05	0.2	4.64	22.0	0.03	<1	0.6	24.5	<10	<2
120928	Soil	0.25	12.5	4.7	<0.05	0.2	2.85	15.3	0.02	<1	0.5	8.3	<10	<2
120929	Soil	0.15	8.8	1.3	<0.05	0.6	10.56	21.0	0.03	<1	0.8	18.3	<10	<2
120930	Soil	0.32	6.0	1.9	<0.05	0.2	3.65	15.5	0.03	<1	0.5	15.7	<10	<2
120931	Soil	0.27	8.9	2.8	<0.05	0.4	5.02	20.9	0.03	<1	0.5	20.8	<10	<2
120932	Soil	0.21	8.2	2.4	<0.05	0.2	5.63	26.9	0.04	<1	0.8	15.6	<10	<2
120933	Soil	0.49	10.1	2.3	<0.05	0.7	10.31	30.6	0.03	<1	0.7	10.2	<10	<2
120934	Soil	0.25	6.1	1.1	<0.05	1.4	19.70	27.9	0.03	<1	1.0	9.9	<10	<2
120935	Soil	0.19	5.2	1.3	<0.05	1.4	18.41	29.7	0.07	<1	0.8	14.2	<10	<2
120936	Soil	0.09	6.9	1.2	<0.05	2.9	13.75	44.5	0.04	<1	0.6	11.6	<10	<2
120937	Soil	0.16	6.6	2.5	<0.05	3.4	17.00	46.7	0.04	<1	0.8	12.0	<10	<2
120938	Soil	0.08	4.9	4.5	<0.05	2.0	13.99	49.7	0.03	<1	0.2	7.3	<10	<2
120939	Soil	0.03	7.2	9.4	<0.05	5.4	12.05	14.2	<0.02	<1	0.9	12.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
120940	Soil			0.74	39.37	25.03	103.8	72	38.2	12.4	348	3.22	16.0	0.9	3.9	3.8	45.4	0.14	0.84	0.35	14	0.62	0.076
120941	Soil			0.70	82.63	56.63	135.5	100	57.2	37.2	1961	5.42	23.3	0.8	4.6	3.6	24.2	0.07	1.56	0.50	13	0.09	0.024
120942	Soil			0.75	68.13	54.29	129.9	124	49.5	36.8	2114	4.48	25.7	1.0	6.0	4.1	33.7	0.12	1.92	0.43	13	0.33	0.058
120943	Soil			0.70	53.08	37.73	109.7	74	44.7	17.9	554	4.07	38.9	1.3	9.7	3.1	34.2	0.10	1.73	0.47	9	0.41	0.043
120944	Soil			0.60	37.01	21.72	92.6	91	42.9	12.4	207	3.28	19.8	0.8	3.4	2.8	57.9	0.06	0.81	0.36	14	0.37	0.040
120945	Soil			0.76	37.02	34.70	103.9	82	32.6	16.2	929	3.55	14.8	0.7	1.6	0.6	19.9	0.20	0.87	0.45	18	0.12	0.080
120946	Soil			4.52	46.50	23.28	104.5	706	41.5	16.7	443	2.24	70.4	7.6	27.5	3.0	287.8	0.44	2.87	0.25	19	8.65	0.045
120947	Soil			1.03	41.43	33.01	110.4	65	29.5	17.1	1304	3.11	27.8	0.9	1.4	0.3	33.1	0.24	1.38	0.36	19	0.12	0.081
120948	Soil			0.78	32.85	20.78	109.7	63	33.5	10.1	220	3.24	24.0	1.1	2.5	2.9	32.0	0.16	0.96	0.37	17	0.35	0.066
120949	Soil			0.82	28.21	21.15	115.3	49	30.7	11.5	269	3.45	17.5	0.9	1.5	2.1	18.1	0.17	0.68	0.32	24	0.14	0.051
120950	Soil			2.55	49.31	44.78	87.4	428	35.1	12.0	846	3.08	35.9	2.0	6.2	4.0	60.2	0.59	1.11	0.55	23	0.77	0.086
120763	Soil			1.16	33.60	43.99	79.0	286	40.0	16.5	843	4.75	6.9	1.2	1.4	5.1	53.2	0.10	0.27	0.48	21	0.53	0.062
120764	Soil			0.82	57.24	66.66	104.5	274	44.4	26.4	895	4.63	6.8	0.5	2.2	5.3	33.5	0.12	0.30	0.37	19	0.69	0.051
120765	Soil			0.66	41.68	43.66	87.3	283	36.5	18.3	613	4.09	5.7	0.6	0.6	2.9	65.0	0.11	0.28	0.41	16	1.32	0.067
120766	Soil			0.62	39.08	32.76	84.7	177	34.6	12.7	283	3.99	6.9	0.7	1.3	2.7	52.9	0.06	0.27	0.32	17	0.82	0.058
120767	Soil			0.63	34.46	38.81	87.8	176	27.9	17.9	848	3.85	5.0	0.4	0.6	2.8	24.9	0.13	0.22	0.37	18	0.40	0.064
120768	Soil			0.64	43.81	49.05	104.1	158	37.9	22.5	907	4.65	18.4	0.6	0.6	3.7	30.8	0.11	0.37	0.38	21	0.41	0.059
120769	Soil			1.06	36.24	47.22	121.1	112	31.7	21.4	826	5.00	20.7	0.7	0.8	0.3	9.3	0.29	0.62	0.43	23	0.06	0.107
120770	Soil			0.75	39.26	41.85	104.7	352	43.9	20.8	346	3.85	18.3	0.8	2.1	1.5	84.4	0.12	0.49	0.36	12	1.16	0.080
120771	Soil			1.08	25.02	22.50	81.1	147	15.9	9.1	1414	2.56	6.5	0.5	0.4	0.1	10.9	0.24	0.57	0.30	32	0.11	0.082
120772	Soil			0.56	28.16	19.77	74.1	32	25.0	10.5	255	3.23	8.7	0.5	0.9	0.8	8.0	0.07	0.45	0.25	21	0.05	0.042
120773	Soil			0.81	24.09	18.38	66.4	38	20.9	8.4	369	2.89	8.4	0.5	5.0	0.9	7.0	0.12	0.50	0.28	27	0.04	0.048
120774	Soil			1.07	26.33	31.97	86.6	83	22.5	11.0	895	3.10	10.3	0.6	1.3	0.3	17.3	0.19	0.52	0.30	26	0.18	0.084
120775	Soil			0.97	26.41	15.89	69.6	75	13.6	6.8	352	3.67	7.9	0.5	1.5	0.5	9.3	0.13	0.44	0.40	34	0.03	0.056
120776	Soil			0.96	28.61	44.07	94.2	266	28.1	12.8	1400	2.97	11.9	2.0	2.6	1.5	45.4	0.34	0.44	0.27	23	0.45	0.141
120777	Soil			1.01	23.68	18.24	72.2	60	24.5	10.3	486	2.97	10.3	0.6	1.7	1.5	21.8	0.12	0.54	0.23	33	0.21	0.046
120778	Soil			1.43	23.57	25.67	78.9	33	22.8	12.8	594	4.16	10.6	0.6	0.5	1.3	9.2	0.28	0.80	0.37	44	0.07	0.055
120779	Soil			0.99	31.74	28.10	83.7	101	29.8	17.9	1238	3.46	10.0	0.7	1.5	1.6	14.3	0.10	0.58	0.28	32	0.16	0.070
120780	Soil			1.13	37.36	28.03	90.4	207	37.5	17.6	996	3.81	13.6	1.2	1.5	3.4	51.6	0.15	0.55	0.37	32	0.75	0.067
120781	Soil			0.99	45.22	30.29	88.6	196	38.4	18.3	556	3.62	15.9	1.0	2.4	2.6	70.0	0.12	0.77	0.36	16	0.99	0.057



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
120940	Soil	12.0	28.2	0.61	59.7	0.002	2	0.98	0.004	0.05	<0.1	7.0	0.06	0.04	107	0.6	0.03	2.8	1.87	0.1	0.11
120941	Soil	8.1	21.6	0.63	75.9	0.001	2	1.33	0.002	0.07	<0.1	5.8	0.08	<0.02	127	0.1	0.13	4.2	4.61	<0.1	0.04
120942	Soil	13.7	24.6	0.53	74.7	0.002	3	1.09	0.004	0.08	<0.1	5.9	0.15	0.02	142	0.8	0.07	3.4	5.20	<0.1	0.08
120943	Soil	9.9	18.7	0.39	51.1	0.001	2	0.72	0.003	0.06	<0.1	6.1	0.07	0.03	324	0.8	0.03	2.2	2.28	<0.1	0.09
120944	Soil	8.2	28.0	0.63	80.0	0.002	2	1.06	0.003	0.06	<0.1	5.4	0.08	0.03	258	0.3	0.06	3.4	5.97	<0.1	0.06
120945	Soil	5.6	27.5	0.43	46.9	0.003	1	1.09	0.004	0.07	<0.1	1.7	<0.02	0.05	120	0.2	0.06	4.2	3.00	<0.1	<0.02
120946	Soil	10.7	11.5	1.86	61.7	0.001	3	0.30	0.006	0.06	<0.1	3.9	0.28	<0.02	349	0.6	0.11	1.1	0.27	<0.1	0.09
120947	Soil	7.3	19.4	0.07	72.8	0.002	2	0.50	0.004	0.08	<0.1	1.5	0.14	0.04	190	0.4	0.08	2.6	1.87	<0.1	<0.02
120948	Soil	11.0	26.8	0.31	77.7	0.002	2	0.80	0.003	0.07	<0.1	5.5	0.09	0.04	465	<0.1	0.05	2.8	2.27	0.1	0.11
120949	Soil	13.4	29.9	0.31	77.0	0.004	2	0.93	0.003	0.06	<0.1	2.9	0.09	<0.02	160	0.5	0.03	3.3	1.54	<0.1	<0.02
120950	Soil	22.6	25.4	0.33	95.5	0.004	3	0.68	0.004	0.06	<0.1	7.6	0.11	0.02	674	1.3	0.11	1.9	0.94	0.1	0.05
120763	Soil	13.3	31.2	0.39	112.6	0.003	4	1.72	0.005	0.07	<0.1	9.9	0.15	0.04	78	0.7	0.13	4.8	2.95	0.1	0.03
120764	Soil	5.4	31.7	0.46	137.8	0.003	4	1.45	0.004	0.08	<0.1	13.9	0.14	0.05	93	0.8	0.04	5.5	3.76	<0.1	0.15
120765	Soil	6.1	24.7	0.37	146.9	0.006	5	1.16	0.005	0.08	<0.1	10.4	0.11	0.08	95	0.6	0.11	4.4	3.87	0.1	0.06
120766	Soil	7.2	23.8	0.34	140.9	0.003	5	1.23	0.004	0.08	<0.1	6.8	0.10	0.05	89	0.5	0.08	4.3	2.67	<0.1	0.06
120767	Soil	3.8	22.7	0.26	154.5	0.003	3	1.16	0.004	0.09	<0.1	4.5	0.10	0.04	44	0.4	0.04	4.4	3.02	<0.1	0.05
120768	Soil	6.7	25.2	0.33	180.1	0.004	3	1.44	0.004	0.09	<0.1	8.6	0.13	0.04	60	0.5	0.15	5.3	5.17	<0.1	0.06
120769	Soil	3.9	23.7	0.23	82.5	0.005	3	1.46	0.005	0.08	<0.1	1.3	0.13	0.07	50	0.2	0.07	4.3	4.02	<0.1	<0.02
120770	Soil	7.2	12.3	0.18	174.9	0.002	4	0.85	0.004	0.08	<0.1	4.1	0.14	0.07	73	0.7	0.06	2.2	2.07	<0.1	0.07
120771	Soil	5.4	14.2	0.05	132.5	0.004	2	0.58	0.004	0.08	<0.1	0.6	0.09	0.08	64	0.5	<0.02	4.0	2.47	<0.1	<0.02
120772	Soil	4.6	18.2	0.17	54.6	0.005	2	0.84	0.003	0.05	<0.1	1.8	0.09	0.03	28	<0.1	0.06	3.6	2.44	<0.1	<0.02
120773	Soil	5.9	18.9	0.18	59.5	0.005	1	1.09	0.003	0.05	<0.1	1.4	0.12	0.03	15	0.4	0.03	4.3	2.78	<0.1	0.02
120774	Soil	5.3	19.8	0.18	98.6	0.004	2	1.04	0.004	0.07	<0.1	0.9	0.12	0.06	48	0.3	0.04	4.1	2.38	<0.1	<0.02
120775	Soil	6.4	21.3	0.14	61.3	0.008	3	1.08	0.004	0.10	<0.1	1.3	0.08	0.04	18	0.2	0.12	7.4	2.91	<0.1	<0.02
120776	Soil	12.8	28.2	0.32	221.3	0.005	7	1.92	0.006	0.14	<0.1	4.9	0.17	0.08	79	1.2	0.09	4.4	15.59	0.1	0.07
120777	Soil	8.2	24.3	0.41	118.8	0.011	3	1.29	0.005	0.06	0.1	2.5	0.10	<0.02	27	0.4	0.11	4.8	2.84	<0.1	<0.02
120778	Soil	9.6	31.2	0.38	73.7	0.024	2	1.67	0.005	0.06	0.1	2.1	0.10	0.02	32	0.6	0.06	6.0	3.30	<0.1	<0.02
120779	Soil	8.4	29.3	0.55	113.0	0.015	4	1.77	0.007	0.08	<0.1	3.8	0.10	0.05	26	0.4	0.08	5.4	7.83	<0.1	<0.02
120780	Soil	15.5	27.7	0.45	180.5	0.005	4	1.75	0.008	0.08	<0.1	7.2	0.13	0.05	55	0.6	0.09	5.0	1.96	<0.1	0.05
120781	Soil	12.0	15.9	0.29	130.9	0.003	5	0.98	0.005	0.07	<0.1	8.5	0.09	0.06	74	0.8	0.08	2.8	1.26	0.1	0.07



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 27, 2011

Page: 7 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
120940	Soil			0.17	5.0	4.2	<0.05	3.9	18.35	25.7	0.04	<1	0.7	25.3	<10	<2
120941	Soil			0.03	5.9	4.7	<0.05	1.5	6.26	17.3	0.04	<1	1.0	50.9	<10	<2
120942	Soil			0.07	7.8	5.7	<0.05	2.5	10.91	30.7	0.02	<1	1.1	34.6	<10	<2
120943	Soil			0.10	6.3	9.6	<0.05	2.9	9.58	18.0	0.05	<1	1.0	19.2	<10	<2
120944	Soil			0.17	13.5	4.1	<0.05	2.5	8.71	15.9	0.04	<1	0.8	33.1	<10	<2
120945	Soil			0.14	10.2	10.4	<0.05	0.3	3.12	12.9	0.03	<1	1.0	29.0	<10	<2
120946	Soil			0.05	3.6	2.6	<0.05	3.5	10.21	22.2	<0.02	<1	0.5	4.0	<10	<2
120947	Soil			0.06	10.3	7.1	<0.05	0.1	3.49	16.8	0.03	<1	0.7	2.8	<10	<2
120948	Soil			0.13	8.8	4.6	<0.05	1.9	6.84	22.5	0.02	<1	1.2	16.1	<10	<2
120949	Soil			0.16	8.8	4.4	<0.05	0.4	5.44	29.3	0.04	<1	0.5	19.8	<10	<2
120950	Soil			0.17	5.3	2.8	<0.05	1.9	22.24	46.3	0.05	<1	0.9	9.4	<10	<2
120763	Soil			0.28	11.5	3.9	<0.05	1.3	20.46	45.4	0.06	<1	1.9	52.6	<10	<2
120764	Soil			0.18	9.5	26.3	<0.05	3.6	19.58	18.8	<0.02	<1	1.0	54.1	<10	<2
120765	Soil			0.26	10.6	7.8	<0.05	1.8	19.79	20.3	0.04	<1	0.7	41.1	<10	<2
120766	Soil			0.24	9.2	5.9	<0.05	1.8	16.51	15.6	0.03	<1	1.1	38.2	<10	<2
120767	Soil			0.24	11.0	2.8	<0.05	1.1	8.49	15.1	0.03	<1	0.9	34.4	<10	<2
120768	Soil			0.27	14.1	5.7	<0.05	1.3	18.38	23.4	0.05	<1	1.0	43.3	<10	<2
120769	Soil			0.28	12.4	2.7	<0.05	0.8	4.69	9.6	0.03	<1	1.1	21.1	<10	<2
120770	Soil			0.13	8.1	2.7	<0.05	2.2	18.87	20.8	0.04	<1	1.4	15.8	<10	<2
120771	Soil			0.18	14.9	3.3	<0.05	<0.1	2.39	12.2	0.03	<1	0.3	2.7	<10	<2
120772	Soil			0.20	8.9	3.3	<0.05	0.5	3.30	10.8	0.03	<1	0.4	13.4	<10	<2
120773	Soil			0.26	11.5	1.8	<0.05	0.4	3.23	15.0	<0.02	<1	0.7	15.7	<10	<2
120774	Soil			0.20	15.2	12.5	<0.05	0.2	4.72	14.1	0.03	<1	0.5	14.6	<10	<2
120775	Soil			0.46	15.7	2.4	<0.05	0.1	2.94	13.9	0.04	<1	0.4	8.9	<10	<2
120776	Soil			0.38	27.8	31.2	<0.05	1.8	19.22	34.5	<0.02	<1	2.0	49.7	<10	<2
120777	Soil			0.37	10.6	2.9	<0.05	0.5	6.11	19.8	<0.02	<1	1.1	34.2	<10	<2
120778	Soil			0.81	13.0	4.6	<0.05	0.3	3.23	23.7	0.03	<1	0.7	27.7	<10	<2
120779	Soil			0.34	12.9	4.0	<0.05	0.3	8.37	32.3	0.03	<1	1.6	44.9	<10	<2
120780	Soil			0.39	13.1	6.1	<0.05	1.9	22.39	41.9	0.03	<1	1.2	25.6	<10	<2
120781	Soil			0.22	7.1	5.1	<0.05	1.9	26.91	23.8	0.05	<1	1.5	17.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
120782	Soil			1.40	55.62	35.88	111.5	196	40.2	17.2	331	3.89	18.6	1.2	3.1	2.9	57.4	0.12	0.52	0.48	13	0.74	0.060
120783	Soil			3.01	51.51	31.28	91.5	290	32.5	14.1	311	2.82	30.0	2.5	10.7	2.2	100.0	0.40	2.11	0.39	16	2.43	0.123
120784	Soil			0.82	30.97	17.99	93.0	190	27.7	10.6	319	2.55	14.4	2.8	4.0	1.8	74.0	0.32	0.80	0.22	25	1.32	0.080
120785	Soil			1.15	31.82	19.07	68.8	576	24.0	12.3	345	2.24	15.5	3.1	8.4	1.1	273.3	0.31	1.04	0.23	13	4.58	0.097
120786	Soil			1.08	27.44	19.36	72.4	378	20.9	7.5	147	1.96	10.0	7.2	5.6	1.5	143.1	0.45	0.70	0.19	17	2.09	0.123
120787	Soil			0.86	25.86	16.46	85.6	140	21.1	9.8	515	1.98	10.4	3.4	2.4	1.3	103.7	0.64	0.90	0.19	18	2.37	0.163
120788	Soil			1.40	27.75	25.98	82.5	429	20.5	9.0	358	2.23	11.6	4.6	4.9	0.8	126.8	0.50	0.82	0.18	13	1.94	0.107
120789	Soil			0.81	34.93	26.27	84.5	111	28.6	13.8	633	3.17	13.2	1.8	2.0	3.0	46.0	0.19	0.89	0.36	19	0.71	0.067
120790	Soil			0.64	45.11	28.35	98.4	102	29.0	14.2	290	2.76	12.1	1.3	1.4	2.5	89.6	0.18	0.68	0.40	13	1.95	0.069
120791	Soil			0.68	42.94	31.68	105.4	126	36.3	16.6	577	3.92	15.0	1.1	0.5	3.3	25.7	0.12	0.58	0.39	20	0.23	0.047
120792	Soil			0.76	45.23	27.46	98.3	134	35.4	16.7	434	3.56	34.7	0.8	1.2	4.8	38.9	0.13	0.72	0.39	21	0.42	0.062
120793	Soil			0.77	34.24	25.53	91.8	100	31.0	14.6	736	3.26	14.5	1.2	2.6	3.8	61.3	0.20	0.83	0.32	21	0.92	0.095
120794	Soil			0.80	33.12	24.67	89.6	92	36.2	14.2	602	3.28	16.4	1.3	4.0	5.0	27.3	0.21	1.03	0.28	23	0.25	0.062
120795	Soil			0.88	30.89	21.10	75.2	86	27.4	11.2	239	2.21	20.3	3.1	2.9	2.3	130.9	0.15	1.52	0.26	16	2.53	0.088
120796	Soil			1.22	31.46	28.24	98.3	313	27.2	10.3	328	2.78	32.4	2.6	5.1	2.3	78.6	0.36	2.98	0.23	23	1.48	0.074
120797	Soil			1.79	36.09	24.99	100.3	278	31.2	14.2	471	3.15	29.2	3.2	6.8	4.2	125.8	0.52	1.88	0.24	23	1.72	0.106
120798	Soil			0.46	30.76	19.66	101.7	108	24.3	9.2	212	2.33	22.7	2.1	7.2	2.4	51.5	0.35	2.00	0.21	13	1.06	0.079
120799	Soil			0.66	30.56	24.96	107.0	100	25.4	11.4	364	3.00	29.0	1.8	3.5	2.9	41.2	0.33	1.72	0.22	20	0.81	0.080
120800	Soil			0.70	39.77	26.73	89.0	98	38.5	16.4	453	3.29	9.1	1.0	4.5	5.1	40.2	0.23	0.42	0.28	19	0.90	0.095
612101	Soil			0.71	33.52	22.73	78.0	97	29.9	11.8	300	2.87	19.8	2.8	2.9	1.8	49.6	0.12	0.84	0.28	17	0.72	0.050
612102	Soil			0.72	34.70	20.82	87.1	106	31.1	13.3	415	2.57	14.5	1.3	2.9	4.5	93.9	0.17	0.59	0.21	20	4.85	0.069
612103	Soil			1.01	32.11	40.98	75.6	91	29.5	16.7	824	3.83	14.5	1.2	<0.2	2.9	39.5	0.08	0.65	0.34	23	0.44	0.083
612104	Soil			0.95	21.39	22.14	98.1	35	21.1	9.5	317	3.08	12.4	0.5	0.6	1.3	16.6	0.26	0.46	0.33	27	0.16	0.033
612105	Soil			0.70	35.19	42.09	85.0	77	32.9	17.3	601	3.73	11.7	0.7	<0.2	3.7	28.3	0.15	0.46	0.33	21	0.26	0.039
612106	Soil			0.72	46.30	32.31	89.0	244	37.8	16.1	685	3.74	16.2	1.2	0.8	3.8	43.0	0.13	0.60	0.34	20	0.41	0.057
612107	Soil			0.79	40.48	45.12	84.7	108	33.7	17.6	659	3.62	15.5	1.4	1.4	3.5	79.6	0.15	0.60	0.34	18	1.32	0.055
612108	Soil			0.68	39.05	27.02	74.2	112	28.9	15.2	1012	2.85	10.9	1.2	1.9	1.9	149.3	0.25	0.41	0.30	17	2.06	0.089
612109	Soil			0.87	50.78	46.75	90.8	133	36.4	21.5	944	3.70	17.2	1.1	1.1	5.6	41.1	0.18	0.59	0.36	19	0.52	0.051
118314	Soil			0.33	55.72	17.12	85.7	38	27.4	12.1	162	2.66	11.8	0.5	0.7	3.0	15.6	0.05	0.57	0.44	16	0.09	0.018
118315	Soil			0.80	29.43	28.43	88.0	36	20.0	11.7	743	3.14	10.2	0.4	0.8	0.9	7.9	0.11	0.57	0.32	23	0.06	0.053



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	Unit	MDL	1F15 La	1F15 Cr	1F15 Mg	1F15 Ba	1F15 Ti	1F15 B	1F15 Al	1F15 Na	1F15 K	1F15 W	1F15 Sc	1F15 Ti	1F15 S	1F15 Hg	1F15 Se	1F15 Te	1F15 Ga	1F15 Cs	1F15 Ge	1F15 Hf
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
120782	Soil			12.8	17.6	0.43	103.6	0.003	4	1.19	0.005	0.08	<0.1	7.7	0.11	0.05	95	1.1	0.10	3.5	1.90	<0.1	0.08
120783	Soil			8.8	11.6	1.06	110.3	0.002	4	0.62	0.004	0.05	<0.1	3.6	0.11	0.05	349	1.0	0.11	1.8	0.35	<0.1	0.11
120784	Soil			19.5	29.9	0.75	142.2	0.004	4	0.99	0.003	0.05	<0.1	2.6	0.09	0.08	147	1.0	<0.02	3.3	0.53	<0.1	0.10
120785	Soil			17.7	10.1	0.44	156.7	0.002	4	0.57	0.004	0.04	<0.1	1.8	0.02	0.07	189	1.2	0.03	1.4	0.49	<0.1	0.08
120786	Soil			25.0	17.5	0.48	113.2	0.004	5	0.76	0.004	0.04	<0.1	2.2	0.11	0.14	145	1.2	<0.02	2.2	0.76	<0.1	0.14
120787	Soil			14.8	29.3	0.62	207.1	0.005	6	0.90	0.006	0.05	<0.1	2.3	0.11	0.18	156	1.6	0.03	2.8	1.09	<0.1	0.11
120788	Soil			25.6	11.3	0.26	79.3	0.001	4	0.54	0.003	0.03	<0.1	1.5	0.07	0.07	192	1.1	<0.02	1.3	0.58	<0.1	0.08
120789	Soil			17.5	17.7	0.29	83.8	0.004	4	0.93	0.003	0.05	<0.1	6.4	0.09	0.05	857	0.5	0.05	2.6	0.98	<0.1	0.08
120790	Soil			8.7	13.5	0.30	113.5	0.002	3	0.61	0.003	0.06	<0.1	4.6	0.08	0.04	132	0.6	0.10	1.7	1.15	<0.1	0.10
120791	Soil			6.7	19.9	0.29	65.3	0.004	3	0.86	0.002	0.05	<0.1	5.0	0.06	<0.02	672	0.4	0.06	2.9	2.61	<0.1	0.04
120792	Soil			9.9	19.0	0.36	92.8	0.007	3	0.88	0.004	0.05	<0.1	6.9	0.07	<0.02	336	0.4	0.07	2.6	2.20	<0.1	0.06
120793	Soil			13.7	18.9	0.35	103.3	0.005	3	0.90	0.004	0.04	<0.1	5.6	0.07	<0.02	212	0.6	0.04	2.6	1.41	<0.1	0.08
120794	Soil			18.2	22.5	0.35	113.9	0.005	2	1.06	0.003	0.05	0.1	6.0	0.08	<0.02	244	0.7	0.04	2.7	1.47	<0.1	0.05
120795	Soil			11.3	20.1	0.16	106.3	0.002	5	0.57	0.006	0.05	<0.1	4.2	0.11	0.04	588	0.7	0.06	1.7	0.69	<0.1	0.08
120796	Soil			13.9	21.1	0.34	65.7	0.005	3	0.63	0.004	0.05	0.1	4.2	0.10	0.04	724	1.0	0.02	2.0	0.69	<0.1	0.07
120797	Soil			24.2	21.4	0.35	74.4	0.007	3	0.63	0.005	0.04	0.1	6.0	0.14	0.03	677	1.6	0.07	1.9	0.81	<0.1	0.07
120798	Soil			14.9	12.0	0.20	83.1	0.003	3	0.42	0.003	0.05	<0.1	4.1	0.08	0.05	291	1.2	<0.02	1.4	0.72	<0.1	0.06
120799	Soil			15.6	21.0	0.21	69.7	0.004	2	0.54	0.003	0.05	<0.1	5.9	0.08	0.03	582	1.2	<0.02	1.7	0.99	<0.1	0.06
120800	Soil			22.7	31.3	0.40	101.3	0.002	2	0.70	0.003	0.05	<0.1	6.9	0.09	0.05	117	1.5	<0.02	2.2	1.64	<0.1	0.06
612101	Soil			7.7	17.2	0.18	65.3	0.002	2	0.60	0.002	0.04	<0.1	3.7	0.06	0.03	248	0.7	0.02	2.0	0.62	<0.1	0.05
612102	Soil			12.1	24.4	1.52	66.8	0.005	2	0.79	0.005	0.06	<0.1	4.5	0.08	<0.02	426	0.8	0.05	2.6	1.16	<0.1	0.06
612103	Soil			7.2	27.1	0.39	94.2	0.003	2	1.41	0.001	0.06	<0.1	3.7	0.10	0.03	70	0.5	0.03	4.4	1.59	<0.1	0.09
612104	Soil			5.8	20.2	0.21	50.2	0.007	2	0.76	0.002	0.06	0.1	1.8	0.06	<0.02	58	0.2	0.05	4.2	1.23	<0.1	<0.02
612105	Soil			6.2	25.4	0.46	83.8	0.002	2	1.53	0.001	0.07	<0.1	4.0	0.07	<0.02	107	0.4	0.05	4.5	1.42	<0.1	0.06
612106	Soil			10.9	31.7	0.58	84.7	0.004	2	1.36	0.001	0.06	<0.1	6.3	0.07	<0.02	173	0.6	0.07	4.3	2.30	<0.1	0.09
612107	Soil			12.1	23.7	0.54	65.4	0.002	3	1.30	0.002	0.05	<0.1	6.3	0.08	0.03	108	0.7	0.08	4.0	1.62	<0.1	0.08
612108	Soil			12.5	24.8	0.44	154.2	0.003	6	1.20	0.003	0.07	<0.1	6.5	0.07	0.08	122	0.8	0.06	3.6	1.67	<0.1	0.08
612109	Soil			12.4	26.0	0.54	101.7	0.003	3	1.41	0.001	0.09	<0.1	8.2	0.08	0.02	96	0.7	0.06	4.3	2.36	<0.1	0.07
118314	Soil			5.7	17.5	0.29	41.8	0.003	2	0.76	0.002	0.07	<0.1	2.5	0.04	<0.02	32	0.1	0.04	3.2	1.02	<0.1	<0.02
118315	Soil			3.3	16.3	0.12	81.0	0.003	1	0.70	0.002	0.06	<0.1	1.7	0.08	0.03	43	0.3	0.07	3.7	1.43	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
120782	Soil	0.18	7.8	2.7	<0.05	2.2	28.07	26.0	0.04	<1	1.9	28.7	<10	2
120783	Soil	0.13	2.7	6.3	<0.05	3.1	15.65	19.3	0.03	<1	0.7	12.5	<10	<2
120784	Soil	0.26	4.4	3.6	<0.05	2.6	14.87	37.9	0.03	<1	0.9	25.8	<10	<2
120785	Soil	0.12	3.8	5.3	<0.05	2.7	13.45	38.6	0.02	<1	0.6	7.9	<10	<2
120786	Soil	0.23	4.3	8.9	<0.05	4.3	17.92	35.3	<0.02	<1	0.7	15.8	<10	<2
120787	Soil	0.29	5.0	5.6	<0.05	3.2	15.82	26.7	<0.02	<1	0.7	17.6	<10	<2
120788	Soil	0.08	3.1	11.5	<0.05	1.6	16.29	53.2	<0.02	<1	0.6	10.5	<10	<2
120789	Soil	0.18	4.8	2.8	<0.05	2.4	25.74	38.5	0.04	<1	1.3	15.8	<10	<2
120790	Soil	0.12	4.4	7.1	<0.05	2.9	15.25	19.8	0.04	<1	1.0	9.4	<10	<2
120791	Soil	0.14	5.6	8.6	<0.05	1.5	9.82	19.0	0.02	<1	1.1	22.6	<10	<2
120792	Soil	0.15	4.8	3.4	<0.05	2.1	16.89	17.7	0.03	<1	1.0	19.8	<10	<2
120793	Soil	0.21	5.6	4.2	<0.05	1.8	17.32	31.6	0.03	<1	1.0	17.3	<10	<2
120794	Soil	0.23	5.9	4.5	<0.05	1.6	19.78	40.4	0.03	<1	1.3	19.6	<10	<2
120795	Soil	0.25	4.0	4.9	<0.05	2.7	13.41	26.0	0.03	<1	0.6	7.7	<10	<2
120796	Soil	0.26	4.5	8.8	<0.05	2.5	16.44	27.1	0.03	<1	0.9	9.7	<10	<2
120797	Soil	0.25	4.0	3.5	<0.05	2.7	20.36	44.7	0.04	<1	1.2	9.0	<10	<2
120798	Soil	0.20	4.0	5.1	<0.05	2.7	12.07	29.0	0.03	<1	0.4	5.4	<10	<2
120799	Soil	0.24	5.4	5.8	<0.05	1.9	14.84	38.8	0.02	<1	0.6	5.9	<10	<2
120800	Soil	0.16	6.1	6.9	<0.05	2.1	16.60	45.3	0.03	<1	0.8	12.0	<10	<2
612101	Soil	0.17	4.6	6.1	<0.05	2.0	8.21	15.5	0.03	<1	0.8	9.6	<10	<2
612102	Soil	0.12	3.8	8.8	<0.05	2.9	10.07	25.0	<0.02	<1	0.7	18.4	<10	<2
612103	Soil	0.20	9.9	18.2	<0.05	2.5	8.01	23.5	0.03	<1	1.1	31.1	<10	<2
612104	Soil	0.38	8.9	6.8	<0.05	0.3	2.33	11.9	0.02	<1	0.5	11.7	<10	<2
612105	Soil	0.20	6.9	20.7	<0.05	2.6	7.41	17.1	<0.02	<1	0.5	38.3	<10	<2
612106	Soil	0.14	6.1	8.0	<0.05	2.8	17.17	23.4	<0.02	<1	0.9	36.6	<10	<2
612107	Soil	0.16	5.6	19.4	<0.05	2.4	17.66	30.1	<0.02	<1	1.2	34.5	<10	<2
612108	Soil	0.23	7.1	9.6	<0.05	2.0	22.70	28.7	0.03	<1	1.1	28.9	<10	<2
612109	Soil	0.18	7.2	21.9	<0.05	2.3	20.58	30.9	<0.02	<1	1.6	35.7	<10	<2
118314	Soil	0.08	5.8	1.6	<0.05	0.6	4.74	13.3	0.03	<1	0.9	22.5	<10	<2
118315	Soil	0.18	10.1	6.6	<0.05	0.7	2.39	7.6	0.02	<1	0.5	8.1	<10	<2



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 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
118316	Soil	0.88	20.89	16.97	62.4	33	18.4	8.9	401	2.84	12.1	0.5	0.4	0.4	4.0	0.08	0.58	0.22	23	0.02	0.044
118317	Soil	1.00	20.03	17.93	71.4	110	20.9	7.1	188	2.48	11.7	0.6	1.6	0.3	9.1	0.16	0.51	0.24	27	0.11	0.063
118318	Soil	1.19	26.00	22.42	80.5	83	22.4	10.7	556	3.32	11.4	0.7	2.6	0.3	7.5	0.20	0.76	0.31	33	0.05	0.083
118319	Soil	1.22	28.94	24.89	81.7	58	24.1	10.2	478	3.20	12.0	0.9	3.4	0.3	7.3	0.21	0.72	0.30	33	0.04	0.069
118320	Soil	1.29	24.81	22.68	80.9	69	28.0	11.7	408	3.45	12.4	0.8	2.2	0.6	8.4	0.21	0.74	0.29	38	0.07	0.070
118321	Soil	1.54	27.24	22.87	87.7	31	25.2	12.3	592	3.74	14.2	0.7	1.5	0.5	9.1	0.21	0.90	0.34	45	0.05	0.054
118322	Soil	0.99	35.19	24.66	83.0	251	32.9	16.2	625	4.15	17.5	1.4	1.0	3.0	42.3	0.17	0.60	0.28	25	0.52	0.069
118323	Soil	0.88	43.24	35.10	94.0	158	32.1	17.4	834	3.62	13.3	1.0	3.4	3.3	82.1	0.26	0.48	0.36	23	1.33	0.088
118324	Soil	0.79	40.65	29.24	95.7	116	34.1	14.5	265	3.45	14.7	1.0	3.2	3.8	57.7	0.15	0.42	0.38	19	0.72	0.067
118325	Soil	2.48	46.32	25.49	94.9	264	31.8	12.7	251	3.08	31.0	1.2	5.1	2.0	77.9	0.53	2.21	0.32	19	1.85	0.092
118326	Soil	0.55	35.21	21.38	101.9	139	29.6	10.5	226	2.96	21.1	1.4	4.0	2.2	44.1	0.25	1.05	0.21	20	0.67	0.090
118327	Soil	0.54	31.31	14.93	85.8	96	26.8	9.7	238	2.57	11.7	1.3	4.5	3.0	61.9	0.23	0.56	0.18	25	2.02	0.087
118328	Soil	0.92	30.21	20.57	92.3	109	30.1	9.9	279	2.87	12.5	1.6	3.7	3.0	73.9	0.25	0.71	0.21	29	2.24	0.077
118329	Soil	0.67	19.45	20.84	71.1	107	21.1	13.4	529	2.20	8.3	1.8	2.7	1.2	67.3	0.31	0.62	0.16	25	1.42	0.090
118330	Soil	0.79	31.02	21.53	99.9	106	29.8	14.9	718	3.23	9.7	1.3	2.5	2.8	40.5	0.26	0.61	0.21	31	0.89	0.112
118331	Soil	1.16	31.13	23.25	91.5	207	27.1	10.2	229	2.47	15.3	4.7	9.2	1.3	137.1	0.30	0.71	0.19	30	2.39	0.095
118332	Soil	0.59	38.41	25.04	100.4	117	28.3	15.5	560	2.89	10.6	1.6	1.3	1.8	63.2	0.19	0.52	0.33	19	1.02	0.071
118333	Soil	0.68	40.69	27.56	90.1	88	30.1	14.3	547	3.27	15.0	1.3	1.8	3.2	51.2	0.09	0.72	0.35	17	0.76	0.063
118334	Soil	0.96	26.10	22.12	93.6	77	25.9	11.4	396	3.24	25.7	2.1	1.4	1.3	29.1	0.21	1.94	0.28	29	0.35	0.056
118335	Soil	0.99	29.13	24.34	84.9	42	28.3	11.5	452	3.25	23.5	1.3	2.9	1.6	30.4	0.20	1.35	0.24	25	0.35	0.060
118336	Soil	0.85	27.50	19.63	78.2	122	24.5	9.4	383	2.80	18.7	1.8	2.9	1.3	59.7	0.27	1.50	0.24	26	0.77	0.064
118337	Soil	1.23	37.49	24.08	79.9	252	25.6	10.8	264	2.01	31.8	2.7	10.2	3.3	150.1	0.31	17.21	0.20	17	2.61	0.062
118338	Soil	0.86	36.19	23.04	108.1	136	34.0	12.3	314	2.85	25.0	1.6	4.8	1.9	54.9	0.27	2.11	0.26	22	0.90	0.069
118339	Soil	0.84	37.44	23.79	97.2	114	32.4	13.8	345	3.09	23.5	1.0	3.8	3.0	57.6	0.21	1.28	0.26	22	1.00	0.069
118340	Soil	0.99	36.81	21.00	99.4	136	33.6	13.4	376	3.04	20.9	1.2	5.4	4.4	61.7	0.20	1.68	0.24	26	1.12	0.083
118341	Soil	0.80	25.55	22.82	75.0	98	26.8	11.0	364	3.02	16.3	1.0	2.2	2.4	30.2	0.14	1.19	0.22	25	0.28	0.052
118342	Soil	0.74	25.84	19.15	91.8	103	24.5	11.0	404	3.09	25.1	1.7	2.7	2.0	41.1	0.22	0.91	0.24	25	0.63	0.072
118343	Soil	0.60	21.26	16.33	81.8	94	17.8	7.8	149	2.20	11.4	2.4	2.2	1.6	78.2	0.33	0.55	0.18	18	1.87	0.077
118344	Soil	0.58	30.98	19.04	102.0	86	28.3	11.2	251	3.05	21.0	1.3	3.2	3.0	47.6	0.16	0.74	0.22	21	0.97	0.061
118345	Soil	0.81	30.72	34.42	84.7	97	28.0	12.1	387	2.72	17.3	1.2	2.7	2.4	75.7	0.25	0.85	0.25	18	1.39	0.077



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	Unit	MDL	1F15 La	1F15 Cr	1F15 Mg	1F15 Ba	1F15 Ti	1F15 B	1F15 Al	1F15 Na	1F15 K	1F15 W	1F15 Sc	1F15 Ti	1F15 S	1F15 Hg	1F15 Se	1F15 Te	1F15 Ga	1F15 Cs	1F15 Ge	1F15 Hf
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
118316	Soil			4.2	14.2	0.11	31.0	0.007	<1	0.76	0.001	0.03	<0.1	1.2	0.08	0.02	24	0.4	<0.02	3.2	1.39	<0.1	<0.02
118317	Soil			5.3	20.5	0.23	82.5	0.005	1	1.02	0.002	0.04	0.1	0.9	0.08	0.04	33	0.5	0.05	3.7	1.66	<0.1	<0.02
118318	Soil			6.8	24.1	0.27	68.7	0.012	2	1.10	0.002	0.05	0.1	1.1	0.08	0.07	46	0.5	<0.02	4.5	1.87	<0.1	<0.02
118319	Soil			7.1	21.5	0.22	76.4	0.008	1	1.15	0.002	0.05	<0.1	1.0	0.10	0.03	35	0.6	0.05	4.1	1.78	<0.1	<0.02
118320	Soil			10.3	30.9	0.45	73.0	0.014	2	1.63	0.002	0.05	0.2	1.5	0.12	0.04	37	0.8	0.05	5.0	2.53	<0.1	<0.02
118321	Soil			8.4	29.0	0.41	105.1	0.013	2	1.59	0.001	0.06	0.1	1.6	0.13	0.02	16	0.5	0.04	6.1	2.39	<0.1	<0.02
118322	Soil			15.1	22.6	0.45	145.9	0.006	2	1.32	0.003	0.04	<0.1	6.1	0.10	0.03	91	0.8	0.05	4.1	1.17	<0.1	0.09
118323	Soil			17.7	23.3	0.54	130.2	0.005	6	1.38	0.005	0.08	<0.1	8.0	0.10	0.07	118	0.7	0.08	4.0	1.50	<0.1	0.09
118324	Soil			11.3	25.1	0.56	82.3	0.004	4	1.27	0.004	0.08	<0.1	6.7	0.08	0.04	47	0.8	0.07	3.9	1.19	<0.1	0.12
118325	Soil			9.2	17.7	0.87	91.4	0.003	3	0.81	0.004	0.08	<0.1	4.9	0.10	0.04	496	0.9	0.06	2.3	0.93	<0.1	0.07
118326	Soil			17.7	24.5	0.39	119.5	0.003	2	0.73	0.002	0.07	<0.1	5.0	0.09	0.05	132	1.2	<0.02	2.3	0.81	<0.1	0.09
118327	Soil			21.4	37.0	1.39	230.7	0.004	3	0.98	0.004	0.10	<0.1	4.6	0.12	0.03	100	1.2	0.04	3.4	1.99	<0.1	0.08
118328	Soil			23.2	48.1	1.35	448.1	0.005	3	1.28	0.005	0.08	<0.1	5.8	0.10	0.05	184	1.2	<0.02	4.0	1.70	<0.1	0.06
118329	Soil			18.0	38.9	0.90	207.3	0.005	3	1.21	0.005	0.06	<0.1	2.9	0.11	0.10	86	0.9	0.03	3.8	2.42	<0.1	0.09
118330	Soil			22.9	52.8	1.20	248.7	0.005	4	1.66	0.002	0.09	<0.1	5.9	0.15	0.08	89	1.7	0.03	4.7	7.03	<0.1	0.11
118331	Soil			23.2	40.5	1.24	228.9	0.004	3	1.32	0.004	0.09	<0.1	3.0	0.17	0.08	131	1.9	<0.02	4.4	2.59	<0.1	0.07
118332	Soil			14.1	22.9	0.41	219.5	0.002	4	1.01	0.003	0.11	<0.1	5.1	0.11	0.05	49	0.7	0.05	2.9	1.60	<0.1	0.06
118333	Soil			13.3	17.0	0.25	113.5	0.002	3	0.84	0.002	0.07	<0.1	6.1	0.10	<0.02	261	0.5	0.06	2.3	1.02	<0.1	0.05
118334	Soil			10.2	18.6	0.09	90.0	0.003	<1	0.88	0.001	0.05	<0.1	4.0	0.16	0.03	815	0.4	0.06	2.7	0.69	<0.1	0.03
118335	Soil			8.7	25.1	0.34	68.1	0.003	<1	1.10	0.001	0.05	<0.1	3.1	0.11	0.02	286	0.5	0.02	3.1	1.39	<0.1	0.02
118336	Soil			9.9	21.7	0.20	91.1	0.004	2	0.93	0.002	0.06	<0.1	4.0	0.11	0.04	563	0.5	0.04	3.0	1.13	<0.1	<0.02
118337	Soil			9.9	16.1	0.85	64.0	0.003	1	0.43	0.003	0.07	<0.1	3.9	0.18	<0.02	4894	0.8	0.04	1.6	1.32	<0.1	0.06
118338	Soil			11.1	29.3	0.34	93.6	0.004	3	0.75	0.005	0.08	<0.1	4.4	0.14	0.05	742	0.8	<0.02	2.4	1.73	<0.1	0.08
118339	Soil			12.4	23.1	0.64	100.0	0.005	1	0.80	0.004	0.08	<0.1	4.8	0.14	0.03	312	0.8	0.04	2.7	2.11	<0.1	0.05
118340	Soil			13.1	26.8	0.71	96.4	0.012	2	0.93	0.006	0.07	<0.1	5.0	0.12	<0.02	489	0.9	0.03	3.0	1.82	<0.1	0.06
118341	Soil			9.5	23.1	0.38	93.9	0.006	2	1.15	0.003	0.07	0.1	3.8	0.08	0.02	193	0.5	<0.02	3.4	1.22	<0.1	0.05
118342	Soil			12.5	23.0	0.27	130.2	0.004	2	1.03	0.003	0.08	<0.1	5.0	0.12	0.04	633	0.9	0.02	3.1	1.25	<0.1	0.05
118343	Soil			15.0	16.0	0.20	126.0	0.002	2	0.70	0.004	0.06	<0.1	3.4	0.12	0.08	113	1.2	0.03	1.9	0.57	<0.1	0.04
118344	Soil			14.8	26.9	0.31	101.8	0.002	3	0.61	0.004	0.06	<0.1	6.0	0.15	0.07	344	1.4	<0.02	2.0	1.44	<0.1	0.08
118345	Soil			9.0	19.0	0.30	98.7	0.002	4	0.70	0.004	0.06	<0.1	4.1	0.09	0.06	209	0.9	0.04	2.4	1.26	<0.1	0.08



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 9 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
118316	Soil	0.25	8.1	1.2	<0.05	0.6	2.52	9.4	0.02	<1	0.2	8.2	<10	<2
118317	Soil	0.24	9.5	5.5	<0.05	0.1	3.21	10.9	<0.02	<1	0.3	15.5	<10	<2
118318	Soil	0.38	8.8	1.9	<0.05	0.1	3.89	15.8	0.02	<1	0.3	18.2	<10	<2
118319	Soil	0.21	9.9	4.2	<0.05	<0.1	4.83	15.8	0.02	<1	0.5	12.9	<10	<2
118320	Soil	0.47	8.7	2.0	<0.05	0.1	6.44	25.7	0.03	<1	0.6	23.4	<10	<2
118321	Soil	0.35	11.9	3.6	<0.05	0.1	4.15	19.3	0.03	<1	0.8	25.2	<10	<2
118322	Soil	0.25	6.9	1.5	<0.05	2.1	19.26	34.3	0.05	<1	1.1	27.4	<10	<2
118323	Soil	0.33	7.3	8.1	<0.05	2.6	28.38	44.8	0.04	2	1.4	37.3	<10	<2
118324	Soil	0.26	6.0	4.3	<0.05	3.5	18.69	25.0	0.04	<1	0.9	38.1	<10	<2
118325	Soil	0.15	4.7	3.4	<0.05	2.5	15.65	21.6	0.03	1	0.9	18.8	<10	<2
118326	Soil	0.13	5.2	6.4	<0.05	2.9	15.45	40.4	0.02	2	0.8	14.4	<10	<2
118327	Soil	0.21	8.3	1.7	<0.05	2.4	13.85	44.5	0.03	<1	0.8	27.3	<10	<2
118328	Soil	0.34	6.9	5.3	<0.05	2.4	15.84	50.7	0.03	2	0.8	37.2	<10	<2
118329	Soil	0.36	9.1	5.6	<0.05	2.9	12.20	49.1	0.03	1	0.8	29.0	<10	<2
118330	Soil	0.32	11.6	5.4	<0.05	3.4	17.87	69.0	0.04	<1	1.3	45.4	<10	<2
118331	Soil	0.28	9.7	6.0	<0.05	2.3	14.44	51.8	0.03	2	1.0	37.8	<10	<2
118332	Soil	0.14	7.4	1.8	<0.05	1.6	18.70	36.0	0.04	<1	1.5	22.6	<10	<2
118333	Soil	0.13	6.4	6.2	<0.05	1.5	20.81	35.8	0.04	1	1.1	15.0	<10	<2
118334	Soil	0.27	8.8	2.5	<0.05	0.9	15.00	29.5	0.04	<1	0.8	7.4	<10	<2
118335	Soil	0.22	7.0	6.1	<0.05	0.8	7.36	31.7	0.03	<1	0.6	24.5	<10	<2
118336	Soil	0.30	9.0	2.2	<0.05	1.1	11.82	28.3	0.03	1	0.8	16.6	<10	<2
118337	Soil	0.10	4.7	4.6	<0.05	2.9	8.68	24.4	<0.02	<1	0.5	11.7	<10	<2
118338	Soil	0.25	6.4	3.8	<0.05	2.3	12.78	28.3	0.02	<1	0.7	16.5	<10	<2
118339	Soil	0.24	6.1	4.8	<0.05	1.9	10.94	30.7	0.02	<1	0.7	17.2	<10	<2
118340	Soil	0.34	5.8	2.7	<0.05	2.8	11.42	30.7	<0.02	<1	0.9	22.2	<10	<2
118341	Soil	0.31	7.2	6.7	<0.05	2.0	7.87	24.9	<0.02	<1	0.4	23.6	<10	<2
118342	Soil	0.30	8.2	1.8	<0.05	1.3	11.59	30.0	0.03	<1	0.7	16.8	<10	<2
118343	Soil	0.28	6.5	1.9	<0.05	1.8	10.13	34.8	0.02	<1	0.8	6.8	<10	<2
118344	Soil	0.23	6.3	3.3	<0.05	2.7	10.49	34.0	0.03	<1	0.7	9.6	<10	<2
118345	Soil	0.30	6.5	21.9	<0.05	3.1	9.58	22.9	<0.02	<1	1.1	15.8	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
118346	Soil			0.89	38.16	24.34	93.5	168	35.9	14.1	387	3.09	12.8	0.9	3.6	3.5	39.1	0.21	0.61	0.25	24	0.63	0.057
118347	Soil			1.17	35.42	44.40	88.6	129	32.1	14.1	449	3.00	18.1	1.2	3.9	3.4	87.1	0.26	1.24	0.25	20	1.60	0.071
118348	Soil			0.86	36.07	23.31	96.6	122	31.7	12.6	359	2.94	20.6	1.2	3.5	3.0	75.3	0.21	1.33	0.25	20	1.43	0.077
612051	Soil			1.18	19.45	17.09	58.4	65	15.4	7.5	304	2.51	23.7	1.5	4.0	1.1	58.0	0.21	2.63	0.23	30	0.91	0.089
612052	Soil			0.93	38.40	21.73	98.8	170	32.5	13.1	364	2.99	21.6	1.2	5.2	4.3	83.9	0.22	1.16	0.24	24	1.69	0.075
612053	Soil			1.04	26.05	23.70	95.2	78	25.4	10.3	481	2.79	17.5	1.9	1.9	1.5	50.1	0.33	0.82	0.23	26	1.30	0.090
612054	Soil			0.75	36.26	21.25	109.8	137	30.5	12.7	378	2.82	27.4	1.4	5.1	3.9	68.6	0.32	1.10	0.23	19	1.62	0.087
612055	Soil			1.00	30.78	21.18	111.3	116	27.6	10.7	292	3.01	28.5	1.9	4.0	2.6	49.6	0.23	1.34	0.21	20	0.85	0.089
612056	Soil			0.68	32.66	19.76	113.7	99	31.1	12.2	380	3.19	12.8	1.1	3.4	4.2	43.0	0.25	0.53	0.23	21	0.74	0.079
612057	Soil			0.56	41.44	19.19	115.1	181	39.7	13.1	218	3.58	14.8	1.2	6.1	3.6	53.7	0.39	0.39	0.28	19	1.11	0.080
612058	Soil			0.71	33.06	18.66	102.5	124	32.7	11.4	206	3.01	14.1	1.4	3.3	3.7	49.7	0.17	0.50	0.23	23	0.98	0.072
612059	Soil			1.15	34.34	24.86	91.8	252	28.7	14.2	505	2.24	16.8	2.7	6.2	5.2	258.8	0.42	0.70	0.20	19	6.51	0.098
612060	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
612061	Soil			0.38	23.27	16.31	85.5	84	24.8	11.2	343	2.17	7.0	1.7	3.2	4.4	43.3	0.15	0.43	0.21	16	0.99	0.078
612062	Soil			0.62	28.70	17.85	81.4	103	25.1	10.2	363	2.27	9.3	1.6	3.2	3.7	58.1	0.25	0.57	0.22	14	1.31	0.079
612063	Soil			0.37	29.17	20.15	97.1	150	24.6	11.9	385	2.28	10.8	2.1	4.9	2.9	70.6	0.27	0.56	0.22	16	1.42	0.076
118418	Soil			0.75	35.26	27.27	77.7	215	35.1	15.3	912	4.17	7.9	0.9	1.0	5.2	63.1	0.15	0.30	0.34	15	0.75	0.059
118419	Soil			0.92	50.40	42.56	103.3	211	48.3	23.3	847	4.90	11.0	0.7	1.4	5.1	38.5	0.07	0.28	0.36	12	0.47	0.041
118420	Soil			1.27	56.56	34.50	102.5	189	45.9	31.5	985	4.10	9.1	0.5	0.8	1.9	134.0	0.13	0.29	0.29	13	1.77	0.080
118421	Soil			0.72	31.75	33.81	68.5	184	25.7	17.2	945	2.95	4.0	0.6	0.6	1.3	109.3	0.16	0.23	0.20	10	2.07	0.114
118422	Soil			0.79	48.71	35.46	93.4	246	42.4	20.2	579	4.40	9.1	0.6	1.1	3.7	49.1	0.11	0.34	0.33	18	0.63	0.067
118423	Soil			1.09	32.46	31.43	87.5	61	29.8	16.3	561	3.81	16.8	0.6	1.4	0.7	21.1	0.11	0.63	0.32	16	0.27	0.098
118424	Soil			1.42	48.63	35.99	127.6	263	49.6	17.8	744	5.13	21.3	0.6	1.8	3.7	268.2	0.10	0.53	0.37	3	3.76	0.039
118425	Soil			0.99	60.89	74.41	112.3	168	43.3	42.0	1692	4.16	25.1	1.2	1.1	2.3	30.9	0.11	0.48	0.46	11	0.36	0.141
118426	Soil			0.52	59.29	18.99	107.6	21	38.7	15.8	358	4.16	16.3	0.6	1.1	4.2	17.2	0.06	0.64	0.41	18	0.08	0.035
118427	Soil			0.85	22.10	20.48	64.6	26	20.2	9.8	344	2.77	10.1	0.4	1.4	0.6	6.1	0.09	0.51	0.19	20	0.03	0.048
118428	Soil			1.13	22.80	19.17	75.9	30	24.0	13.2	521	3.22	13.0	0.6	1.3	0.8	7.1	0.14	0.79	0.26	35	0.04	0.044
118429	Soil			0.83	31.49	27.49	91.3	31	26.4	14.7	604	3.39	12.8	0.6	1.3	0.5	11.3	0.12	0.55	0.30	24	0.08	0.051
118430	Soil			0.98	26.99	19.87	72.5	47	23.8	11.3	539	3.49	12.2	0.7	0.5	0.4	8.2	0.14	0.62	0.25	26	0.04	0.066
118431	Soil			0.83	32.45	25.01	77.8	33	28.8	14.7	812	3.21	11.7	0.7	1.2	1.1	10.3	0.10	0.54	0.25	24	0.05	0.048



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
118346	Soil	13.0	29.6	0.53	110.8	0.007	3	1.22	0.005	0.11	<0.1	5.3	0.12	0.04	194	0.8	<0.02	3.6	2.41	<0.1	0.09
118347	Soil	12.9	23.6	0.70	104.6	0.006	4	0.77	0.004	0.09	0.1	4.8	0.13	0.03	262	0.7	0.05	2.4	3.40	<0.1	0.05
118348	Soil	12.0	23.2	0.69	94.2	0.005	2	0.78	0.004	0.08	<0.1	4.9	0.11	0.03	347	0.9	0.06	2.6	2.79	<0.1	0.05
612051	Soil	6.2	17.3	0.18	132.5	0.003	<1	0.89	0.002	0.05	0.1	2.5	0.11	0.06	373	0.5	0.06	3.3	0.84	<0.1	0.05
612052	Soil	13.2	23.2	0.74	101.2	0.008	2	0.97	0.005	0.09	<0.1	5.0	0.13	<0.02	464	0.9	0.06	3.3	1.91	<0.1	0.06
612053	Soil	17.0	24.3	0.24	311.8	0.004	3	0.77	0.005	0.07	<0.1	4.9	0.12	0.06	278	1.2	0.04	2.7	2.24	<0.1	0.04
612054	Soil	19.4	18.8	0.82	103.4	0.003	2	0.47	0.004	0.07	<0.1	5.7	0.12	0.03	374	1.2	0.04	1.8	1.45	<0.1	0.05
612055	Soil	16.8	23.8	0.26	102.3	0.003	2	0.65	0.004	0.06	<0.1	6.2	0.13	0.05	396	1.9	0.04	1.9	1.58	<0.1	0.05
612056	Soil	22.7	26.4	0.41	98.1	0.003	2	0.70	0.003	0.07	<0.1	6.6	0.11	0.04	167	1.7	<0.02	2.4	1.71	<0.1	0.06
612057	Soil	30.5	21.6	0.30	183.0	<0.001	3	0.43	0.002	0.09	<0.1	6.5	0.16	0.05	181	2.1	0.04	1.5	1.78	<0.1	0.05
612058	Soil	20.6	32.0	0.38	107.4	0.003	3	0.82	0.003	0.08	<0.1	5.6	0.12	0.05	187	1.5	0.03	2.8	1.58	<0.1	0.07
612059	Soil	19.4	16.5	1.90	101.1	0.006	3	0.62	0.008	0.10	<0.1	4.9	0.25	0.03	246	1.2	<0.02	1.9	2.59	<0.1	0.05
612060	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
612061	Soil	21.9	28.4	0.53	64.3	0.002	3	0.83	0.001	0.06	<0.1	4.9	0.08	0.04	165	0.6	<0.02	2.4	0.61	<0.1	0.10
612062	Soil	21.0	21.2	0.41	95.7	0.003	4	0.74	0.002	0.07	<0.1	4.7	0.10	0.05	228	1.2	<0.02	2.2	0.87	<0.1	0.08
612063	Soil	18.5	21.9	0.42	112.4	0.003	4	0.91	0.002	0.07	<0.1	4.2	0.09	0.05	295	1.3	0.04	2.3	0.88	<0.1	0.11
118418	Soil	18.4	22.4	0.26	157.3	0.002	2	1.27	0.002	0.06	<0.1	8.8	0.12	0.04	114	0.5	0.09	3.2	1.17	<0.1	0.07
118419	Soil	8.6	25.7	0.34	146.8	0.003	4	1.27	0.001	0.10	<0.1	7.6	0.18	0.02	196	0.4	0.03	3.8	4.48	<0.1	0.10
118420	Soil	6.8	21.5	0.32	247.6	0.002	6	1.22	0.003	0.10	<0.1	7.6	0.15	0.08	92	0.7	0.06	3.6	2.90	<0.1	0.08
118421	Soil	7.6	18.2	0.17	253.4	0.004	4	0.93	0.005	0.06	<0.1	5.3	0.09	0.13	77	0.4	0.03	2.5	2.30	<0.1	0.04
118422	Soil	5.2	29.2	0.44	164.1	0.004	2	1.54	0.001	0.11	<0.1	8.3	0.12	0.04	97	0.5	0.05	4.5	4.47	<0.1	0.07
118423	Soil	4.3	13.8	0.14	96.0	0.002	2	0.85	0.002	0.06	<0.1	1.8	0.09	0.04	39	0.4	0.03	2.5	2.15	<0.1	<0.02
118424	Soil	4.6	10.3	0.18	104.8	<0.001	4	0.66	0.004	0.08	<0.1	6.7	0.79	0.07	404	1.0	0.13	1.6	1.23	<0.1	0.07
118425	Soil	5.4	20.8	0.25	154.1	0.003	3	1.46	0.002	0.10	<0.1	9.4	0.12	0.08	55	0.6	0.08	2.8	5.76	<0.1	0.09
118426	Soil	6.5	25.3	0.40	78.0	0.005	2	1.11	0.001	0.08	<0.1	4.0	0.06	<0.02	37	0.2	0.04	4.2	1.80	<0.1	<0.02
118427	Soil	5.3	16.4	0.14	34.9	0.006	1	0.86	<0.001	0.05	<0.1	1.2	0.06	0.03	34	0.4	<0.02	2.6	1.65	<0.1	<0.02
118428	Soil	8.3	24.3	0.31	64.7	0.012	1	1.42	<0.001	0.06	0.1	1.7	0.13	0.03	24	0.4	<0.02	4.1	1.88	<0.1	<0.02
118429	Soil	6.2	19.6	0.21	67.4	0.007	2	1.09	<0.001	0.07	<0.1	1.6	0.07	0.02	28	0.2	0.03	3.5	3.18	<0.1	<0.02
118430	Soil	6.7	22.1	0.22	60.5	0.011	<1	1.17	<0.001	0.06	<0.1	1.4	0.07	0.04	35	0.4	<0.02	3.5	1.78	<0.1	<0.02
118431	Soil	7.6	19.2	0.23	114.7	0.013	2	1.00	<0.001	0.05	<0.1	2.2	0.06	<0.02	18	0.4	<0.02	2.9	2.92	<0.1	<0.02



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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 10 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
118346	Soil	0.38	8.2	8.0	<0.05	3.5	12.72	30.4	0.02	<1	0.9	29.9	<10	<2
118347	Soil	0.22	8.3	24.9	<0.05	1.8	10.58	32.6	<0.02	<1	0.7	20.5	<10	<2
118348	Soil	0.23	7.1	4.1	<0.05	2.0	11.16	29.5	0.03	<1	0.9	21.0	<10	<2
612051	Soil	0.38	8.8	2.9	<0.05	1.9	5.10	18.9	0.04	<1	0.6	11.0	<10	<2
612052	Soil	0.28	7.1	3.4	<0.05	3.0	11.55	31.3	0.04	<1	1.0	24.6	<10	<2
612053	Soil	0.33	8.7	7.5	<0.05	1.0	14.01	40.7	0.03	<1	0.7	11.4	<10	<2
612054	Soil	0.15	5.4	2.4	<0.05	2.1	13.46	47.5	0.03	<1	0.7	9.1	<10	<2
612055	Soil	0.22	6.6	3.8	<0.05	1.8	13.61	40.8	0.04	1	0.8	9.7	<10	<2
612056	Soil	0.18	6.7	2.6	<0.05	1.9	13.57	53.5	0.03	<1	0.8	13.1	<10	<2
612057	Soil	0.08	8.2	2.0	<0.05	1.5	17.47	63.1	0.03	<1	1.0	5.4	12	<2
612058	Soil	0.28	7.2	3.6	<0.05	2.8	12.06	43.9	0.04	<1	0.7	17.1	<10	<2
612059	Soil	0.16	7.1	7.1	<0.05	3.1	10.82	44.8	0.02	2	0.8	11.8	<10	<2
612060	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
612061	Soil	0.21	4.7	3.1	<0.05	3.2	10.24	45.5	0.03	<1	0.6	20.2	<10	<2
612062	Soil	0.25	5.9	2.2	<0.05	2.8	11.09	42.3	0.03	<1	0.6	17.0	<10	<2
612063	Soil	0.30	5.9	3.8	<0.05	3.4	11.21	37.9	0.03	<1	1.3	22.5	<10	<2
118418	Soil	0.23	7.6	1.3	<0.05	1.5	23.34	46.7	0.05	<1	1.5	27.4	<10	<2
118419	Soil	0.14	10.8	12.6	<0.05	2.8	14.87	22.1	0.02	<1	1.6	39.4	<10	<2
118420	Soil	0.16	10.6	2.1	<0.05	2.0	17.76	22.3	0.05	<1	0.9	32.5	<10	<2
118421	Soil	0.28	7.7	11.1	<0.05	1.1	20.83	20.6	0.02	<1	1.2	18.8	<10	<2
118422	Soil	0.28	11.5	4.4	<0.05	2.2	14.79	12.9	0.03	<1	1.2	57.8	<10	<2
118423	Soil	0.18	9.9	4.0	<0.05	0.4	5.63	12.5	0.03	<1	0.8	15.7	<10	<2
118424	Soil	0.07	6.4	3.0	<0.05	2.4	13.33	13.7	0.03	<1	1.0	14.7	<10	<2
118425	Soil	0.18	11.1	12.5	<0.05	2.3	21.57	19.4	0.05	<1	2.0	36.6	<10	2
118426	Soil	0.10	6.5	1.1	<0.05	0.8	6.24	15.9	0.04	<1	1.0	37.8	<10	<2
118427	Soil	0.28	6.4	3.4	<0.05	0.2	2.48	11.5	<0.02	<1	0.3	11.5	<10	<2
118428	Soil	0.58	8.6	1.2	<0.05	0.1	3.33	20.2	0.02	<1	0.4	16.8	<10	<2
118429	Soil	0.17	11.6	3.1	<0.05	0.1	3.83	13.2	0.03	<1	0.5	21.8	<10	<2
118430	Soil	0.27	7.7	1.6	<0.05	0.1	4.50	16.0	0.03	<1	0.6	16.2	<10	<2
118431	Soil	0.17	6.1	1.3	<0.05	0.2	4.67	17.1	0.02	<1	0.8	22.4	<10	<2



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 Report Date: August 27, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
118432	Soil			1.21	27.65	16.78	74.4	37	28.4	13.4	464	3.11	10.5	0.6	1.9	0.8	9.7	0.18	0.65	0.24	34	0.07	0.050
118433	Soil			1.05	23.22	17.86	66.4	32	22.8	12.1	606	3.25	8.7	0.4	1.8	1.0	8.6	0.19	0.55	0.22	30	0.06	0.042
118434	Soil			0.99	30.69	18.46	73.0	100	27.5	11.6	552	2.97	12.0	1.1	0.5	1.6	63.9	0.18	0.52	0.28	28	0.87	0.125
118435	Soil			0.99	44.30	25.27	93.1	163	34.6	15.2	401	3.29	16.1	1.0	2.0	3.1	60.9	0.15	0.55	0.32	22	0.78	0.078
118436	Soil			0.91	51.05	26.70	99.9	150	37.7	17.3	423	3.37	20.0	0.8	2.8	3.1	46.9	0.16	0.64	0.38	14	0.48	0.059
118437	Soil			1.55	48.74	27.20	87.7	238	33.1	13.7	316	2.99	21.4	1.3	4.3	2.5	80.3	0.28	1.12	0.37	13	1.34	0.079
118438	Soil			0.61	32.37	16.92	102.8	105	29.6	10.5	309	2.57	11.6	1.6	2.7	1.2	76.5	0.32	0.45	0.18	21	1.87	0.106
118439	Soil			0.67	32.73	19.14	99.6	132	30.1	10.4	278	2.59	11.5	1.9	3.2	2.0	82.2	0.35	0.70	0.21	25	1.73	0.085
118440	Soil			1.22	23.56	16.20	72.4	112	27.5	10.9	393	2.63	15.2	6.6	2.1	1.0	86.1	0.20	0.66	0.20	40	1.06	0.102
118441	Soil			0.73	33.75	17.16	86.2	114	31.8	11.4	290	2.61	11.2	1.2	2.3	1.6	58.3	0.18	0.57	0.16	21	1.47	0.104
118442	Soil			3.65	61.04	25.16	109.6	884	39.1	16.2	190	2.36	24.8	8.1	27.0	1.8	363.8	0.29	1.42	0.27	13	7.29	0.150
118443	Soil			0.82	44.56	27.35	83.5	135	31.9	18.3	659	3.19	13.4	2.2	1.1	1.6	104.5	0.26	0.52	0.37	13	1.49	0.108
118444	Soil			0.89	40.10	25.23	86.2	131	35.7	16.4	670	3.53	19.3	2.9	1.4	2.4	50.6	0.17	0.97	0.33	19	0.66	0.078
118445	Soil			0.82	44.05	21.57	85.1	82	31.2	14.5	333	2.57	21.9	2.2	2.0	4.3	443.1	0.13	1.68	0.35	8	11.51	0.048
118446	Soil			0.85	22.15	18.93	81.6	104	23.3	10.3	376	2.82	14.2	2.4	0.8	2.0	50.2	0.19	1.09	0.27	25	0.59	0.069
118447	Soil			1.83	41.79	21.96	92.9	66	32.1	12.9	372	2.85	26.3	2.6	9.1	1.9	54.0	0.27	2.74	0.30	21	0.68	0.070
118448	Soil			1.14	39.50	26.63	93.0	111	34.2	14.1	441	3.04	16.4	1.1	2.2	3.1	62.0	0.20	0.63	0.28	15	1.07	0.066
118449	Soil			0.93	37.57	20.80	105.9	225	33.5	13.7	495	3.05	19.5	2.3	3.7	2.8	66.9	0.24	1.17	0.29	23	0.89	0.082
118450	Soil			1.53	34.63	18.85	71.4	287	24.0	10.4	273	2.25	29.6	3.0	7.2	3.3	252.8	0.34	3.90	0.20	24	7.10	0.079
612201	Soil			0.52	30.03	15.92	84.3	119	28.1	11.8	348	2.79	7.9	1.9	8.5	3.0	54.7	0.14	0.46	0.29	20	1.32	0.057
612202	Soil			0.49	25.36	15.77	84.3	83	24.3	9.8	286	2.38	17.0	1.3	4.6	2.9	44.4	0.14	0.63	0.22	18	0.96	0.059
612203	Soil			0.57	33.72	20.51	111.4	98	38.0	12.9	256	3.13	29.5	1.0	4.4	5.9	47.1	0.17	0.55	0.36	21	0.82	0.084
612204	Soil			0.46	28.20	13.85	136.8	35	27.2	10.8	290	3.15	4.9	0.9	1.2	4.1	37.0	0.18	0.20	0.33	21	0.65	0.060
612205	Soil			0.37	22.79	16.22	93.1	93	25.4	11.3	366	2.56	6.1	1.0	<0.2	5.2	64.1	0.15	0.27	0.25	19	1.10	0.084
612206	Soil			0.48	22.06	14.50	93.6	93	23.4	9.9	329	2.46	8.3	1.1	3.3	4.0	45.5	0.17	0.35	0.25	18	0.96	0.065
612207	Soil			0.33	23.83	15.77	95.2	126	22.8	10.4	350	2.30	8.7	2.0	3.6	3.3	63.9	0.23	0.40	0.24	21	1.14	0.066
612208	Soil			0.41	26.40	17.89	89.3	136	24.6	11.1	437	2.59	11.7	2.2	3.9	3.6	68.9	0.17	0.53	0.25	22	1.21	0.066
612271	Soil			0.79	27.11	30.90	77.4	264	22.5	10.4	353	3.52	8.8	1.3	0.8	1.2	152.0	0.14	0.56	0.30	11	2.17	0.121
612272	Soil			1.75	56.17	71.96	136.3	492	41.6	28.2	735	5.69	23.0	0.8	3.9	4.2	63.8	0.19	0.78	0.51	20	0.90	0.069
612273	Soil			0.77	50.47	51.16	143.6	269	43.4	20.5	369	5.02	17.0	0.8	1.5	4.3	52.6	0.13	0.51	0.41	20	0.82	0.066



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
118432	Soil	8.9	23.7	0.38	71.6	0.014	2	1.52	0.002	0.06	0.1	1.8	0.09	0.02	29	0.5	0.03	4.0	2.36	<0.1	<0.02
118433	Soil	7.8	23.9	0.37	64.9	0.016	1	1.34	0.001	0.06	<0.1	2.0	0.06	0.02	22	0.3	<0.02	4.1	2.69	<0.1	<0.02
118434	Soil	10.4	24.6	0.42	144.0	0.007	3	1.48	0.003	0.07	<0.1	4.2	0.11	0.08	46	0.4	0.04	4.1	1.89	<0.1	0.05
118435	Soil	14.4	21.7	0.50	139.3	0.007	3	1.40	0.003	0.08	<0.1	7.0	0.09	0.05	73	0.5	0.08	3.4	2.38	<0.1	0.08
118436	Soil	11.0	18.5	0.36	110.5	0.004	4	1.04	0.003	0.08	<0.1	6.7	0.08	0.03	134	0.5	0.03	2.7	1.76	<0.1	0.06
118437	Soil	10.9	13.8	0.52	101.6	0.003	3	0.77	0.004	0.08	<0.1	6.5	0.10	0.04	374	0.8	0.08	2.1	1.13	<0.1	0.05
118438	Soil	24.4	35.3	0.67	347.8	0.004	4	0.93	0.006	0.08	<0.1	4.2	0.09	0.10	109	1.3	0.02	2.5	2.08	<0.1	0.06
118439	Soil	28.6	39.5	1.10	284.7	0.007	2	1.23	0.004	0.10	<0.1	4.6	0.11	0.06	164	1.0	0.03	4.2	2.19	<0.1	0.05
118440	Soil	19.5	34.6	0.64	247.5	0.011	2	1.68	0.003	0.06	<0.1	2.6	0.12	0.08	82	0.8	0.03	4.2	1.46	<0.1	0.04
118441	Soil	24.9	44.2	1.12	212.6	0.003	4	1.18	0.003	0.07	<0.1	5.3	0.08	0.09	112	2.0	<0.02	3.6	2.78	<0.1	0.05
118442	Soil	18.5	13.1	0.73	222.6	0.002	6	0.69	0.005	0.11	<0.1	2.8	0.16	0.09	162	1.7	0.04	1.4	1.13	<0.1	0.17
118443	Soil	13.3	18.6	0.37	135.6	0.003	4	1.29	0.003	0.09	<0.1	6.9	0.10	0.08	116	0.5	0.07	3.0	3.44	<0.1	0.06
118444	Soil	22.6	23.0	0.37	125.4	0.005	1	1.25	0.004	0.08	<0.1	7.0	0.08	0.04	208	0.8	0.04	2.9	1.50	<0.1	0.05
118445	Soil	6.1	8.7	0.54	46.9	0.002	3	0.32	0.004	0.06	<0.1	5.9	0.11	<0.02	4493	0.3	0.11	1.0	0.98	<0.1	0.06
118446	Soil	13.6	21.8	0.26	94.3	0.006	1	1.06	0.003	0.07	0.1	4.6	0.09	0.04	513	0.3	<0.02	2.7	0.62	<0.1	<0.02
118447	Soil	16.2	18.2	0.21	139.9	0.003	3	0.95	0.001	0.07	<0.1	4.6	0.17	0.03	611	0.9	0.03	2.4	1.16	<0.1	0.06
118448	Soil	11.4	20.5	0.55	101.7	0.004	3	0.78	0.003	0.08	<0.1	4.4	0.09	0.02	131	0.5	0.09	2.4	2.53	<0.1	0.03
118449	Soil	14.3	24.1	0.34	152.5	0.005	3	1.11	0.004	0.08	<0.1	5.8	0.13	0.03	381	0.6	0.03	3.1	2.12	<0.1	0.05
118450	Soil	15.8	16.8	0.95	55.8	0.002	1	0.36	0.004	0.05	<0.1	4.6	0.11	<0.02	918	0.9	0.03	1.3	0.71	<0.1	0.03
612201	Soil	14.6	26.2	0.46	126.3	0.002	3	0.91	0.004	0.07	<0.1	4.8	0.13	0.07	150	1.3	0.03	2.6	1.24	<0.1	0.09
612202	Soil	14.8	23.4	0.23	83.4	0.002	3	0.44	0.003	0.05	<0.1	4.2	0.12	0.05	212	1.2	<0.02	1.5	0.93	<0.1	0.08
612203	Soil	24.2	35.3	0.37	52.0	0.002	3	0.61	0.002	0.06	<0.1	7.6	0.14	0.03	220	1.1	0.04	2.1	1.89	<0.1	0.07
612204	Soil	21.8	25.8	0.25	105.7	0.003	2	0.65	0.003	0.06	<0.1	5.0	0.08	0.04	47	1.2	0.03	2.0	0.37	<0.1	0.04
612205	Soil	22.0	31.5	0.72	106.4	0.003	3	0.96	0.002	0.06	<0.1	4.7	0.03	0.05	115	1.2	0.03	3.0	0.90	<0.1	0.07
612206	Soil	17.6	26.0	0.47	79.9	0.002	2	0.76	0.002	0.06	<0.1	5.0	0.10	0.04	175	1.1	0.03	2.3	0.90	<0.1	0.07
612207	Soil	17.2	27.4	0.66	122.9	0.004	3	1.09	0.003	0.06	<0.1	4.8	0.14	0.04	247	1.1	0.04	3.4	1.54	<0.1	0.07
612208	Soil	18.8	27.0	0.60	130.1	0.003	4	1.12	0.003	0.08	<0.1	4.9	0.12	0.05	286	1.1	0.03	3.4	1.25	<0.1	0.09
612271	Soil	7.5	13.6	0.20	131.8	0.001	4	0.86	0.007	0.06	<0.1	3.5	0.11	0.14	71	0.5	0.05	2.2	1.63	<0.1	0.03
612272	Soil	6.5	25.2	0.37	189.1	0.002	4	1.55	0.003	0.11	<0.1	11.8	0.17	0.06	116	0.7	0.10	4.4	5.75	<0.1	0.10
612273	Soil	8.5	21.6	0.39	221.8	0.002	5	1.49	0.002	0.12	<0.1	9.8	0.19	0.05	54	0.5	0.10	4.2	3.13	<0.1	0.12



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 11 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
118432	Soil	0.30	8.3	1.2	<0.05	0.1	4.01	18.2	0.03	<1	0.6	24.0	<10	<2
118433	Soil	0.43	7.6	1.9	<0.05	0.2	2.80	16.0	0.03	<1	0.5	27.7	<10	<2
118434	Soil	0.48	10.6	2.7	<0.05	1.5	11.82	21.8	0.03	<1	1.0	27.9	<10	<2
118435	Soil	0.36	8.7	2.7	<0.05	2.2	20.24	24.4	0.04	<1	0.9	30.1	<10	<2
118436	Soil	0.19	6.7	2.5	<0.05	2.1	19.17	21.2	0.03	<1	1.0	21.3	<10	<2
118437	Soil	0.17	6.0	3.7	<0.05	1.9	19.85	20.5	0.05	<1	0.8	13.5	<10	<2
118438	Soil	0.25	8.6	3.5	<0.05	1.7	19.53	40.2	0.03	<1	0.9	18.4	<10	<2
118439	Soil	0.34	9.7	4.1	<0.05	1.6	18.11	48.1	0.03	<1	1.1	29.5	<10	<2
118440	Soil	0.60	9.3	1.4	<0.05	1.2	10.67	52.2	0.03	<1	0.9	24.4	<10	<2
118441	Soil	0.24	7.1	5.0	<0.05	2.0	19.59	42.4	0.02	<1	1.1	31.1	<10	<2
118442	Soil	0.14	6.5	1.3	<0.05	5.2	14.53	38.3	0.03	<1	1.0	10.3	14	<2
118443	Soil	0.23	8.6	1.8	<0.05	1.4	25.06	27.9	0.03	<1	1.1	26.2	<10	<2
118444	Soil	0.26	7.8	1.2	<0.05	1.4	28.25	53.1	0.05	<1	1.7	20.5	<10	<2
118445	Soil	0.04	3.7	1.0	<0.05	4.3	11.93	14.0	0.04	<1	0.6	5.5	<10	<2
118446	Soil	0.35	7.4	1.6	<0.05	0.9	13.12	45.3	0.04	<1	0.7	13.9	<10	<2
118447	Soil	0.20	6.4	2.2	<0.05	2.1	16.09	33.8	0.04	<1	1.1	14.0	<10	<2
118448	Soil	0.18	6.9	5.3	<0.05	1.4	10.95	24.2	<0.02	<1	0.8	19.7	<10	<2
118449	Soil	0.40	8.8	1.3	<0.05	1.9	14.26	28.1	0.04	<1	1.0	19.0	<10	<2
118450	Soil	0.11	3.8	1.3	<0.05	1.4	14.68	28.9	<0.02	<1	0.8	4.9	<10	<2
612201	Soil	0.25	5.8	0.8	<0.05	3.2	12.03	33.9	0.04	1	0.9	19.0	<10	<2
612202	Soil	0.13	4.8	0.9	<0.05	2.5	9.82	35.3	0.03	1	0.7	7.7	<10	<2
612203	Soil	0.16	5.5	2.1	<0.05	2.8	15.94	57.5	0.04	<1	0.7	11.1	<10	<2
612204	Soil	0.21	5.9	1.1	<0.05	1.6	10.53	47.1	0.04	<1	0.8	6.4	<10	<2
612205	Soil	0.26	6.3	3.1	<0.05	2.6	11.33	49.7	0.03	<1	0.7	23.3	<10	<2
612206	Soil	0.24	5.6	0.9	<0.05	2.6	10.26	41.4	0.04	<1	0.7	16.0	<10	<2
612207	Soil	0.37	7.4	0.9	<0.05	2.9	12.30	40.2	0.04	<1	0.7	25.5	<10	<2
612208	Soil	0.35	7.1	1.5	<0.05	3.3	13.03	44.3	0.04	<1	0.9	25.0	<10	<2
612271	Soil	0.15	6.6	2.7	<0.05	1.0	24.41	19.1	0.04	<1	1.0	18.5	<10	<2
612272	Soil	0.17	11.3	3.2	<0.05	2.9	32.15	20.0	0.08	<1	1.4	48.7	<10	<2
612273	Soil	0.21	10.3	3.8	<0.05	4.2	25.84	24.0	0.06	<1	1.3	46.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
612274	Soil	0.37	33.81	20.17	81.0	132	25.6	9.5	281	3.13	11.3	0.5	1.6	2.2	32.5	0.06	0.29	0.34	17	0.53	0.066
612275	Soil	0.43	29.81	17.96	84.6	26	26.4	13.4	282	3.04	46.1	0.5	1.7	1.4	11.6	0.05	0.57	0.25	17	0.07	0.025
612276	Soil	0.61	25.19	20.49	67.2	52	23.9	10.6	284	2.95	22.6	0.5	5.4	1.1	11.3	0.09	0.55	0.27	21	0.04	0.033
612277	Soil	0.77	29.98	26.93	87.1	30	29.6	12.6	443	3.68	18.0	0.6	3.0	1.7	12.0	0.12	0.50	0.31	26	0.06	0.049
612278	Soil	1.07	26.87	23.53	87.2	49	28.1	11.1	422	3.30	13.6	0.8	3.1	1.3	14.0	0.20	0.78	0.27	31	0.14	0.071
612279	Soil	0.99	28.89	19.48	90.8	33	29.6	11.2	372	3.20	14.5	0.8	7.7	2.4	16.6	0.22	0.76	0.28	33	0.15	0.067
612280	Soil	1.09	29.33	26.44	87.7	36	29.5	13.6	804	3.44	13.5	0.8	1.9	2.2	15.1	0.14	0.69	0.27	32	0.12	0.063
612281	Soil	1.16	28.16	30.51	86.1	82	25.1	13.8	1052	3.73	12.1	0.9	1.4	0.2	16.2	0.19	0.64	0.31	35	0.16	0.105
612282	Soil	1.02	34.00	28.76	88.6	113	35.5	19.0	650	3.71	14.6	1.1	1.9	3.3	33.1	0.17	0.52	0.27	22	0.37	0.054
612283	Soil	0.82	34.87	25.37	93.0	92	30.5	13.6	515	3.41	13.8	1.0	1.6	2.3	76.8	0.18	0.46	0.33	22	1.02	0.068
612284	Soil	1.18	35.15	25.88	98.9	229	23.6	9.7	519	2.68	23.9	2.8	5.7	0.7	117.3	0.67	1.38	0.23	18	2.92	0.105
612285	Soil	0.93	28.41	17.43	82.6	222	22.7	8.4	294	2.47	18.7	2.7	8.3	0.9	108.4	0.31	1.15	0.21	20	1.57	0.071
612286	Soil	0.63	33.19	19.48	104.1	144	28.3	10.3	309	3.06	14.7	2.0	4.2	2.6	49.0	0.27	0.77	0.23	27	0.90	0.094
612287	Soil	0.63	28.47	23.07	109.9	117	29.1	10.6	330	3.17	42.5	1.8	3.2	2.2	31.8	0.28	1.41	0.24	25	0.47	0.068
612288	Soil	0.90	34.92	25.75	121.7	155	33.1	12.8	516	3.41	33.6	1.1	5.7	2.5	87.8	0.32	1.09	0.26	25	1.62	0.071
612289	Soil	0.48	28.62	13.19	89.6	82	25.7	12.0	382	2.62	7.6	0.9	2.3	5.3	87.4	0.14	0.49	0.22	16	4.36	0.062
612290	Soil	0.68	35.07	27.29	119.1	90	32.8	13.1	447	3.16	26.5	0.9	4.1	4.6	81.4	0.23	1.17	0.25	19	1.38	0.079
612291	Soil	0.63	30.59	19.15	107.8	104	29.7	10.8	311	2.95	19.6	1.0	3.5	3.0	40.9	0.21	0.98	0.22	19	0.81	0.072
612292	Soil	0.53	33.93	19.29	110.8	75	35.2	12.9	312	3.17	22.0	0.9	3.7	5.3	42.7	0.15	1.06	0.27	20	0.76	0.090
612293	Soil	0.84	38.39	22.47	123.0	95	38.9	14.8	507	3.16	33.8	1.2	3.7	6.0	108.8	0.19	1.64	0.30	19	2.33	0.082



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
612274	Soil	5.3	15.3	0.12	120.8	0.001	2	0.70	0.002	0.09	<0.1	4.9	0.11	0.04	63	0.2	0.05	2.4	3.13	<0.1	0.06
612275	Soil	4.1	11.8	0.05	582.7	0.001	<1	0.42	0.002	0.06	<0.1	2.4	0.08	<0.02	38	0.2	0.02	1.7	3.46	<0.1	<0.02
612276	Soil	6.1	14.5	0.14	49.0	0.004	1	0.69	0.002	0.05	<0.1	1.8	0.09	<0.02	36	0.2	0.03	2.5	2.53	<0.1	<0.02
612277	Soil	6.4	20.5	0.26	88.4	0.003	1	1.30	0.002	0.08	<0.1	2.7	0.13	<0.02	28	0.2	0.06	3.6	3.02	<0.1	<0.02
612278	Soil	9.3	21.2	0.30	92.2	0.011	2	1.17	0.003	0.06	<0.1	2.4	0.11	<0.02	39	0.3	0.05	3.6	2.48	<0.1	<0.02
612279	Soil	10.7	20.4	0.32	65.4	0.021	<1	1.12	0.003	0.05	0.1	2.6	0.10	<0.02	30	0.4	0.04	3.4	1.47	<0.1	<0.02
612280	Soil	9.7	22.0	0.36	122.4	0.016	1	1.20	0.003	0.05	<0.1	3.0	0.10	<0.02	22	0.3	0.06	3.7	2.76	<0.1	<0.02
612281	Soil	8.3	26.5	0.37	89.4	0.006	2	1.62	0.004	0.07	<0.1	0.7	0.12	0.06	38	0.3	0.05	4.6	2.89	<0.1	<0.02
612282	Soil	14.2	18.2	0.39	137.2	0.006	2	1.24	0.004	0.05	<0.1	5.4	0.09	<0.02	62	0.3	0.03	3.2	2.23	<0.1	0.03
612283	Soil	11.7	19.7	0.42	122.2	0.005	3	1.28	0.003	0.07	<0.1	4.5	0.10	0.03	127	0.3	0.05	3.6	1.83	<0.1	0.03
612284	Soil	12.7	13.6	0.41	141.5	0.003	4	0.64	0.004	0.06	<0.1	2.2	0.11	0.08	431	0.6	0.04	1.6	0.85	<0.1	0.04
612285	Soil	16.0	14.8	0.32	141.2	0.003	3	0.65	0.004	0.06	<0.1	2.5	0.11	0.06	243	0.9	0.02	1.6	0.80	<0.1	0.02
612286	Soil	26.1	28.0	0.61	138.6	0.005	3	1.05	0.003	0.08	<0.1	5.7	0.14	0.06	230	1.2	0.03	3.1	3.27	<0.1	0.06
612287	Soil	15.3	26.4	0.23	123.1	0.006	4	0.77	0.003	0.07	<0.1	5.4	0.14	0.04	227	0.7	0.04	2.1	0.77	<0.1	0.06
612288	Soil	14.6	23.5	0.66	117.3	0.004	3	0.75	0.004	0.07	<0.1	7.1	0.14	0.04	428	1.1	<0.02	2.0	1.17	<0.1	0.05
612289	Soil	21.6	23.5	2.71	71.9	0.001	2	0.65	0.010	0.07	<0.1	5.3	0.10	<0.02	131	1.4	<0.02	2.0	2.00	<0.1	0.04
612290	Soil	16.1	24.2	0.85	80.8	0.002	3	0.59	0.004	0.08	<0.1	6.4	0.11	0.03	438	1.1	0.02	1.9	1.46	<0.1	0.07
612291	Soil	16.4	26.6	0.48	102.7	0.002	2	0.72	0.003	0.08	<0.1	5.4	0.11	0.04	396	1.2	0.02	2.1	1.44	<0.1	0.07
612292	Soil	20.1	31.2	0.70	81.6	0.002	3	0.77	0.002	0.08	<0.1	5.6	0.13	0.02	222	0.9	0.02	2.5	2.67	<0.1	0.05
612293	Soil	23.8	25.6	1.40	102.1	0.002	3	0.48	0.006	0.08	<0.1	6.6	0.27	0.04	310	1.6	<0.02	1.7	2.69	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 12 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000949.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
612274	Soil	0.14	8.5	1.5	<0.05	1.6	11.48	13.0	0.03	<1	1.0	10.5	<10	<2
612275	Soil	0.08	7.5	1.8	<0.05	0.2	2.81	10.4	0.03	<1	0.5	3.9	<10	<2
612276	Soil	0.19	7.0	2.0	<0.05	0.3	3.39	15.4	0.02	<1	0.4	12.4	<10	<2
612277	Soil	0.22	9.5	2.3	<0.05	0.5	5.18	20.6	0.04	<1	0.9	31.3	<10	<2
612278	Soil	0.30	8.7	2.3	<0.05	<0.1	6.14	24.0	0.03	<1	0.8	23.7	<10	<2
612279	Soil	0.41	6.5	1.4	<0.05	0.3	6.10	26.0	0.02	<1	0.8	21.0	<10	<2
612280	Soil	0.28	6.2	2.2	<0.05	0.2	7.20	25.1	0.03	<1	0.8	27.4	<10	<2
612281	Soil	0.19	9.8	7.1	<0.05	<0.1	6.48	23.8	0.03	<1	1.1	28.6	<10	<2
612282	Soil	0.20	6.4	1.1	<0.05	0.9	17.74	35.8	0.03	<1	1.0	28.0	<10	<2
612283	Soil	0.31	7.7	2.2	<0.05	1.2	16.10	30.5	0.04	1	1.0	29.8	<10	<2
612284	Soil	0.18	5.3	6.6	<0.05	0.8	15.78	30.0	0.03	2	0.8	9.5	<10	<2
612285	Soil	0.17	4.6	1.1	<0.05	0.9	16.99	30.0	0.03	<1	0.7	9.5	<10	3
612286	Soil	0.29	9.0	5.7	<0.05	1.6	23.93	52.2	0.03	<1	1.1	26.4	<10	<2
612287	Soil	0.20	5.6	1.7	<0.05	1.9	21.58	30.9	0.03	1	0.9	10.0	<10	<2
612288	Soil	0.18	5.9	8.2	<0.05	1.5	17.26	36.7	0.04	<1	0.8	10.9	<10	<2
612289	Soil	0.06	5.1	2.0	<0.05	1.6	12.20	49.6	0.03	<1	0.8	20.5	<10	<2
612290	Soil	0.11	4.8	10.9	<0.05	2.2	14.13	41.7	0.03	<1	0.7	14.3	<10	<2
612291	Soil	0.14	5.3	3.3	<0.05	2.4	14.96	40.0	0.03	<1	0.7	17.3	<10	<2
612292	Soil	0.13	6.1	1.5	<0.05	2.2	13.36	51.3	0.04	<1	0.8	21.0	<10	<2
612293	Soil	0.06	5.9	2.3	<0.05	1.9	14.15	57.2	0.03	1	0.9	9.4	<10	<2



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Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: August 27, 2011

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000949.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
118410	Soil	1.16	36.90	34.33	84.4	157	32.4	14.8	427	4.11	27.8	0.9	2.4	3.6	16.3	0.05	0.66	0.39	25	0.08	0.037
REP 118410	QC	1.12	38.57	34.80	88.0	152	33.7	16.2	461	4.27	28.8	0.9	1.6	3.7	17.7	0.06	0.69	0.41	26	0.08	0.039
118417	Soil	0.59	27.51	23.58	66.5	180	26.9	12.6	809	2.66	12.5	1.8	2.5	1.7	102.1	0.23	0.41	0.29	18	1.41	0.077
REP 118417	QC	0.55	27.43	24.00	66.7	181	26.4	12.7	789	2.67	12.8	1.9	2.0	1.7	100.6	0.26	0.39	0.30	19	1.40	0.077
120729	Soil	0.76	27.92	24.62	74.0	26	26.5	12.6	354	3.09	9.7	0.7	1.7	2.0	9.3	0.09	0.48	0.27	21	0.07	0.049
REP 120729	QC	0.76	29.39	24.68	78.0	31	28.3	12.9	369	3.20	9.7	0.7	<0.2	2.2	9.0	0.09	0.48	0.27	21	0.07	0.050
120743	Soil	0.75	34.28	22.77	96.3	130	30.4	12.5	255	2.15	39.8	1.6	11.8	3.7	122.4	0.28	2.93	0.23	15	4.05	0.083
REP 120743	QC	0.73	33.36	21.98	95.5	132	30.2	12.6	263	2.14	39.9	1.6	12.1	3.7	123.3	0.27	2.92	0.22	15	4.04	0.084
612475	Soil	0.85	35.63	31.50	94.4	29	30.5	15.3	703	3.55	18.8	0.6	1.7	1.3	10.5	0.15	0.76	0.34	23	0.04	0.049
REP 612475	QC	0.84	34.87	31.27	98.9	29	31.7	15.3	708	3.57	18.5	0.6	2.0	1.3	10.9	0.14	0.75	0.34	23	0.04	0.048
120916	Soil	0.53	49.13	30.55	90.8	238	37.3	20.9	768	3.81	7.0	0.6	0.7	3.7	25.6	0.11	0.27	0.30	18	0.49	0.055
REP 120916	QC	0.53	49.04	32.59	92.4	242	37.5	22.5	780	3.87	7.2	0.6	0.7	3.9	25.3	0.13	0.25	0.32	18	0.49	0.058
120841	Soil	1.03	21.70	26.32	90.7	60	21.4	8.4	481	3.89	9.2	0.7	0.9	0.5	6.8	0.19	0.62	0.31	36	0.05	0.081
REP 120841	QC	1.07	22.81	25.92	93.6	59	21.7	8.8	497	4.03	9.7	0.8	0.5	0.4	7.9	0.12	0.71	0.33	37	0.05	0.084
120845	Soil	2.20	30.06	21.81	67.4	116	24.2	11.1	584	2.36	25.7	1.5	9.1	1.7	167.8	0.43	2.28	0.22	19	6.68	0.084
REP 120845	QC	2.22	30.56	21.76	65.7	113	23.8	10.9	589	2.32	26.1	1.5	8.5	1.7	173.6	0.43	2.26	0.22	20	6.68	0.081
120949	Soil	0.82	28.21	21.15	115.3	49	30.7	11.5	269	3.45	17.5	0.9	1.5	2.1	18.1	0.17	0.68	0.32	24	0.14	0.051
REP 120949	QC	0.80	28.78	20.44	117.0	45	32.0	11.3	268	3.44	17.4	1.0	1.2	2.2	20.3	0.16	0.65	0.33	25	0.15	0.052
120767	Soil	0.63	34.46	38.81	87.8	176	27.9	17.9	848	3.85	5.0	0.4	0.6	2.8	24.9	0.13	0.22	0.37	18	0.40	0.064
REP 120767	QC	0.81	35.50	41.20	89.3	183	28.3	18.2	866	3.90	5.2	0.4	0.5	3.3	25.6	0.18	0.26	0.43	20	0.40	0.068
120792	Soil	0.76	45.23	27.46	98.3	134	35.4	16.7	434	3.56	34.7	0.8	1.2	4.8	38.9	0.13	0.72	0.39	21	0.42	0.062
REP 120792	QC	0.76	45.36	27.27	99.6	137	35.5	16.6	431	3.51	34.6	0.8	2.2	4.8	39.0	0.14	0.76	0.38	21	0.42	0.064
118318	Soil	1.19	26.00	22.42	80.5	83	22.4	10.7	556	3.32	11.4	0.7	2.6	0.3	7.5	0.20	0.76	0.31	33	0.05	0.083
REP 118318	QC	1.18	24.96	21.85	79.2	81	23.2	10.8	544	3.30	11.2	0.7	<0.2	0.3	6.8	0.19	0.77	0.30	32	0.05	0.078
118328	Soil	0.92	30.21	20.57	92.3	109	30.1	9.9	279	2.87	12.5	1.6	3.7	3.0	73.9	0.25	0.71	0.21	29	2.24	0.077
REP 118328	QC	0.77	29.08	20.49	86.8	101	29.3	9.6	243	2.76	11.9	1.5	3.6	3.1	71.9	0.24	0.65	0.19	27	2.22	0.075
118347	Soil	1.17	35.42	44.40	88.6	129	32.1	14.1	449	3.00	18.1	1.2	3.9	3.4	87.1	0.26	1.24	0.25	20	1.60	0.071
REP 118347	QC	1.13	35.66	43.76	92.4	115	33.0	14.4	458	3.00	19.0	1.2	5.7	3.3	87.0	0.24	1.51	0.26	19	1.59	0.080

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000949.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
118410	Soil	8.1	27.4	0.38	78.3	0.002	2	1.22	<0.001	0.07	<0.1	3.1	0.11	<0.02	207	0.5	0.08	3.2	1.66	<0.1	0.03
REP 118410	QC	8.7	27.8	0.40	85.5	0.002	2	1.27	0.001	0.08	<0.1	3.3	0.13	<0.02	211	0.6	0.04	3.4	1.90	<0.1	0.03
118417	Soil	12.9	24.7	0.47	92.2	0.004	3	1.21	0.002	0.06	<0.1	3.5	0.07	0.06	382	0.6	0.05	3.2	1.03	<0.1	0.06
REP 118417	QC	13.4	24.8	0.48	95.5	0.004	3	1.27	0.002	0.07	<0.1	3.7	0.08	0.06	499	0.7	0.07	3.2	1.14	<0.1	0.05
120729	Soil	6.6	18.4	0.29	68.2	0.006	1	1.07	0.001	0.04	<0.1	3.0	0.09	<0.02	24	0.4	0.02	2.9	2.89	<0.1	<0.02
REP 120729	QC	6.3	18.7	0.29	68.7	0.005	<1	1.08	0.001	0.04	<0.1	3.1	0.07	<0.02	13	0.5	0.02	2.9	2.71	<0.1	<0.02
120743	Soil	21.7	19.4	1.39	68.7	0.003	2	0.39	0.006	0.06	<0.1	5.2	0.13	0.03	1107	1.3	<0.02	1.1	2.54	<0.1	0.05
REP 120743	QC	22.0	20.5	1.37	69.5	0.003	3	0.40	0.006	0.06	<0.1	5.4	0.12	0.03	1193	1.3	<0.02	1.3	2.64	<0.1	0.04
612475	Soil	5.4	17.0	0.23	69.4	0.009	2	0.79	0.003	0.04	<0.1	2.5	0.07	0.02	26	0.2	0.04	2.5	3.35	<0.1	<0.02
REP 612475	QC	5.4	16.9	0.22	66.9	0.009	3	0.80	0.003	0.04	<0.1	2.5	0.07	0.02	23	0.2	0.03	2.7	3.50	<0.1	<0.02
120916	Soil	6.3	23.6	0.34	131.4	0.003	3	1.20	0.003	0.10	<0.1	7.6	0.12	0.04	59	0.5	0.05	4.1	5.00	<0.1	0.11
REP 120916	QC	6.5	23.1	0.35	130.7	0.004	4	1.14	0.003	0.10	<0.1	8.2	0.13	0.04	65	0.4	0.04	4.0	5.73	<0.1	0.09
120841	Soil	7.0	27.5	0.26	77.2	0.008	1	1.34	<0.001	0.06	<0.1	1.2	0.11	0.05	42	0.3	0.05	4.4	1.96	<0.1	<0.02
REP 120841	QC	8.1	29.6	0.28	82.7	0.014	2	1.33	<0.001	0.08	<0.1	1.3	0.13	0.05	41	0.3	0.06	4.8	2.69	<0.1	<0.02
120845	Soil	12.0	12.8	1.34	72.1	0.002	3	0.45	0.004	0.08	<0.1	3.3	0.12	0.04	95	0.3	0.02	1.1	0.37	<0.1	0.08
REP 120845	QC	12.0	12.6	1.33	73.2	0.002	4	0.47	0.004	0.09	<0.1	3.5	0.12	0.04	91	0.3	0.04	1.2	0.42	<0.1	0.07
120949	Soil	13.4	29.9	0.31	77.0	0.004	2	0.93	0.003	0.06	<0.1	2.9	0.09	<0.02	160	0.5	0.03	3.3	1.54	<0.1	<0.02
REP 120949	QC	14.0	30.1	0.32	79.4	0.004	2	0.96	0.003	0.06	<0.1	3.1	0.10	<0.02	136	0.5	0.08	3.5	1.65	<0.1	<0.02
120767	Soil	3.8	22.7	0.26	154.5	0.003	3	1.16	0.004	0.09	<0.1	4.5	0.10	0.04	44	0.4	0.04	4.4	3.02	<0.1	0.05
REP 120767	QC	4.5	23.7	0.28	158.0	0.007	7	1.16	0.004	0.11	<0.1	4.8	0.11	0.04	45	<0.1	0.04	4.3	4.13	0.2	0.04
120792	Soil	9.9	19.0	0.36	92.8	0.007	3	0.88	0.004	0.05	<0.1	6.9	0.07	<0.02	336	0.4	0.07	2.6	2.20	<0.1	0.06
REP 120792	QC	10.1	19.3	0.36	88.9	0.007	3	0.88	0.004	0.05	<0.1	7.1	0.07	<0.02	248	0.5	0.07	2.6	2.21	<0.1	0.05
118318	Soil	6.8	24.1	0.27	68.7	0.012	2	1.10	0.002	0.05	0.1	1.1	0.08	0.07	46	0.5	<0.02	4.5	1.87	<0.1	<0.02
REP 118318	QC	6.0	22.3	0.26	64.9	0.011	1	1.05	0.002	0.05	0.1	1.0	0.07	0.06	39	0.4	0.03	4.3	1.82	<0.1	<0.02
118328	Soil	23.2	48.1	1.35	448.1	0.005	3	1.28	0.005	0.08	<0.1	5.8	0.10	0.05	184	1.2	<0.02	4.0	1.70	<0.1	0.06
REP 118328	QC	22.3	44.8	1.33	427.7	0.006	4	1.21	0.005	0.08	0.1	5.7	0.10	0.05	153	0.8	<0.02	3.9	2.28	<0.1	0.07
118347	Soil	12.9	23.6	0.70	104.6	0.006	4	0.77	0.004	0.09	0.1	4.8	0.13	0.03	262	0.7	0.05	2.4	3.40	<0.1	0.05
REP 118347	QC	12.1	24.7	0.70	104.9	0.006	5	0.76	0.004	0.09	0.1	5.0	0.13	0.03	281	1.1	<0.02	2.7	3.26	<0.1	0.06

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 1 of 2 Part 3

QUALITY CONTROL REPORT

WHI11000949.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
118410	Soil	0.17	8.0	6.9	<0.05	1.0	4.33	22.7	0.05	<1	1.0	23.0	<10	<2
REP 118410	QC	0.18	8.6	6.9	<0.05	1.0	4.58	24.6	0.03	<1	0.9	23.1	<10	<2
118417	Soil	0.25	6.8	3.6	<0.05	2.1	12.88	32.9	0.03	<1	0.9	29.1	<10	<2
REP 118417	QC	0.27	7.3	3.7	<0.05	1.8	12.98	33.2	0.04	<1	1.1	29.8	<10	<2
120729	Soil	0.18	7.1	3.8	<0.05	0.3	6.00	17.9	0.02	<1	0.8	29.3	<10	<2
REP 120729	QC	0.17	7.0	3.4	<0.05	0.5	6.14	17.8	0.02	<1	0.9	29.6	<10	<2
120743	Soil	0.11	5.5	3.9	<0.05	1.7	12.56	42.6	0.03	<1	0.4	6.4	<10	<2
REP 120743	QC	0.12	5.6	3.8	<0.05	1.7	12.34	43.6	0.02	<1	0.5	6.2	<10	<2
612475	Soil	0.17	5.8	0.7	<0.05	0.4	4.39	13.4	0.04	<1	0.8	16.5	<10	<2
REP 612475	QC	0.18	5.9	0.7	<0.05	0.3	4.40	13.1	0.03	<1	1.1	17.8	<10	<2
120916	Soil	0.16	9.0	0.9	<0.05	3.4	21.19	17.3	0.04	1	0.9	35.7	<10	<2
REP 120916	QC	0.17	10.2	1.2	<0.05	3.4	21.21	17.0	0.04	1	0.9	35.1	<10	2
120841	Soil	0.34	10.8	1.9	<0.05	0.2	4.42	19.1	0.03	<1	0.5	15.6	<10	<2
REP 120841	QC	0.31	13.9	1.7	<0.05	<0.1	4.81	21.1	0.04	<1	0.6	16.4	<10	<2
120845	Soil	0.08	3.8	3.4	<0.05	2.3	15.17	29.7	0.03	<1	0.8	6.2	<10	<2
REP 120845	QC	0.08	4.2	3.1	<0.05	1.9	15.06	29.9	0.03	<1	0.9	6.6	<10	<2
120949	Soil	0.16	8.8	4.4	<0.05	0.4	5.44	29.3	0.04	<1	0.5	19.8	<10	<2
REP 120949	QC	0.17	9.5	3.9	<0.05	0.4	5.41	31.2	0.03	<1	0.8	19.7	<10	<2
120767	Soil	0.24	11.0	2.8	<0.05	1.1	8.49	15.1	0.03	<1	0.9	34.4	<10	<2
REP 120767	QC	0.27	14.3	3.4	<0.05	1.0	8.52	17.1	0.03	<1	1.7	36.6	<10	<2
120792	Soil	0.15	4.8	3.4	<0.05	2.1	16.89	17.7	0.03	<1	1.0	19.8	<10	<2
REP 120792	QC	0.16	4.9	3.3	<0.05	2.2	16.65	17.7	0.03	<1	1.0	20.5	<10	<2
118318	Soil	0.38	8.8	1.9	<0.05	0.1	3.89	15.8	0.02	<1	0.3	18.2	<10	<2
REP 118318	QC	0.35	8.1	2.1	<0.05	0.1	3.79	14.3	0.03	1	0.6	16.7	<10	<2
118328	Soil	0.34	6.9	5.3	<0.05	2.4	15.84	50.7	0.03	2	0.8	37.2	<10	<2
REP 118328	QC	0.25	7.6	7.9	<0.05	2.2	14.68	49.0	<0.02	<1	1.1	33.6	<10	<2
118347	Soil	0.22	8.3	24.9	<0.05	1.8	10.58	32.6	<0.02	<1	0.7	20.5	<10	<2
REP 118347	QC	0.22	8.6	24.2	<0.05	2.3	10.66	31.4	<0.02	2	1.0	20.3	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000949.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
612063	Soil	0.37	29.17	20.15	97.1	150	24.6	11.9	385	2.28	10.8	2.1	4.9	2.9	70.6	0.27	0.56	0.22	16	1.42	0.076
REP 612063	QC	0.34	26.82	19.23	90.5	134	23.6	11.1	379	2.24	10.4	2.0	4.7	2.8	69.5	0.21	0.53	0.20	16	1.38	0.071
118437	Soil	1.55	48.74	27.20	87.7	238	33.1	13.7	316	2.99	21.4	1.3	4.3	2.5	80.3	0.28	1.12	0.37	13	1.34	0.079
REP 118437	QC	1.65	49.37	29.62	90.3	252	33.7	13.9	318	3.00	21.6	1.4	3.4	2.7	82.2	0.31	1.17	0.38	13	1.40	0.079
612277	Soil	0.77	29.98	26.93	87.1	30	29.6	12.6	443	3.68	18.0	0.6	3.0	1.7	12.0	0.12	0.50	0.31	26	0.06	0.049
REP 612277	QC	0.74	28.70	25.34	81.6	29	28.0	12.0	416	3.44	17.2	0.6	1.7	1.7	11.5	0.13	0.46	0.29	25	0.06	0.047
Reference Materials																					
STD DS8	Standard	14.42	110.9	127.8	309.5	1653	39.4	7.4	612	2.49	23.3	2.8	105.0	6.6	64.8	2.14	5.22	6.19	41	0.74	0.076
STD DS8	Standard	14.51	121.7	119.1	324.2	1709	42.8	8.3	651	2.60	24.8	2.7	106.4	6.9	65.9	2.37	5.18	6.94	44	0.75	0.082
STD DS8	Standard	12.14	106.5	112.0	287.8	1566	37.2	7.4	544	2.26	22.4	2.6	101.1	6.2	58.0	2.08	5.13	6.11	37	0.63	0.078
STD DS8	Standard	12.90	114.5	124.6	317.2	1744	39.4	7.5	610	2.52	24.4	2.6	113.4	6.7	61.9	2.25	4.99	6.82	40	0.68	0.081
STD DS8	Standard	13.66	109.8	107.0	316.9	1748	39.3	7.1	617	2.55	25.8	2.2	110.8	5.7	65.3	2.34	4.67	5.50	42	0.73	0.082
STD DS8	Standard	14.83	122.9	120.3	325.3	1663	43.0	8.3	627	2.59	30.2	2.4	108.8	6.3	65.3	2.42	5.17	5.99	41	0.76	0.091
STD DS8	Standard	13.98	114.3	137.7	349.1	1991	41.2	8.2	677	2.74	29.3	2.9	153.8	7.0	70.7	2.55	5.93	7.40	45	0.79	0.087
STD DS8	Standard	11.21	108.8	118.8	295.6	1593	37.2	7.3	572	2.43	24.6	2.5	104.0	6.1	57.3	2.39	4.68	6.42	38	0.65	0.083
STD DS8	Standard	12.80	109.9	123.2	305.9	1763	38.7	7.4	622	2.50	24.0	2.6	113.1	6.7	63.1	2.17	4.97	6.51	39	0.71	0.078
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	0.89	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000949.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
612063	Soil	18.5	21.9	0.42	112.4	0.003	4	0.91	0.002	0.07	<0.1	4.2	0.09	0.05	295	1.3	0.04	2.3	0.88	<0.1	0.11
REP 612063	QC	18.1	20.9	0.41	108.7	0.003	3	0.91	0.002	0.07	<0.1	4.0	0.09	0.05	297	1.2	0.02	2.4	0.93	<0.1	0.09
118437	Soil	10.9	13.8	0.52	101.6	0.003	3	0.77	0.004	0.08	<0.1	6.5	0.10	0.04	374	0.8	0.08	2.1	1.13	<0.1	0.05
REP 118437	QC	11.3	14.1	0.52	107.0	0.003	4	0.76	0.004	0.08	<0.1	6.4	0.11	0.04	393	0.6	0.07	2.2	1.08	<0.1	0.05
612277	Soil	6.4	20.5	0.26	88.4	0.003	1	1.30	0.002	0.08	<0.1	2.7	0.13	<0.02	28	0.2	0.06	3.6	3.02	<0.1	<0.02
REP 612277	QC	6.3	19.6	0.24	85.1	0.003	1	1.19	0.002	0.07	<0.1	2.6	0.13	<0.02	34	0.2	0.04	3.3	2.84	<0.1	<0.02
Reference Materials																					
STD DS8	Standard	15.9	128.0	0.61	266.1	0.123	3	1.01	0.112	0.44	2.7	2.3	5.15	0.15	192	4.9	4.97	4.7	2.31	<0.1	0.06
STD DS8	Standard	15.4	128.8	0.64	269.3	0.129	2	0.95	0.091	0.43	2.8	2.3	5.25	0.17	194	5.4	4.96	4.7	2.53	<0.1	0.09
STD DS8	Standard	13.9	109.3	0.55	218.6	0.111	3	0.83	0.074	0.37	2.8	2.0	4.87	0.15	166	4.9	4.46	4.2	2.25	<0.1	0.09
STD DS8	Standard	14.5	116.8	0.62	257.9	0.114	3	0.92	0.080	0.41	3.1	2.0	5.49	0.16	192	5.1	4.82	4.2	2.46	0.1	0.10
STD DS8	Standard	14.3	113.8	0.62	277.1	0.107	2	0.96	0.087	0.41	2.9	2.2	5.08	0.16	169	5.4	4.86	4.8	2.41	<0.1	0.09
STD DS8	Standard	16.3	124.2	0.65	275.6	0.116	3	0.98	0.093	0.44	2.7	2.3	5.19	0.17	173	5.3	4.96	4.6	2.40	<0.1	0.09
STD DS8	Standard	16.2	131.5	0.69	300.2	0.121	3	1.02	0.093	0.45	3.2	2.3	6.72	0.18	231	5.8	5.53	5.2	2.78	0.1	0.08
STD DS8	Standard	11.1	111.9	0.59	217.5	0.097	3	0.85	0.076	0.39	2.8	1.8	5.09	0.15	185	4.9	4.45	4.4	2.26	0.1	0.07
STD DS8	Standard	14.5	119.0	0.61	256.3	0.116	3	0.90	0.084	0.41	3.1	2.1	5.68	0.16	191	5.2	4.86	4.8	2.47	<0.1	0.09
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 27, 2011

Page: 2 of 2 Part 3

QUALITY CONTROL REPORT

WHI11000949.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
612063	Soil	0.30	5.9	3.8	<0.05	3.4	11.21	37.9	0.03	<1	1.3	22.5	<10	<2
REP 612063	QC	0.28	6.1	3.7	<0.05	3.1	10.96	35.7	0.02	<1	0.8	19.7	<10	<2
118437	Soil	0.17	6.0	3.7	<0.05	1.9	19.85	20.5	0.05	<1	0.8	13.5	<10	<2
REP 118437	QC	0.16	5.9	4.5	<0.05	1.8	20.42	21.0	0.04	<1	1.2	14.1	<10	<2
612277	Soil	0.22	9.5	2.3	<0.05	0.5	5.18	20.6	0.04	<1	0.9	31.3	<10	<2
REP 612277	QC	0.21	9.2	2.2	<0.05	0.5	4.81	20.1	0.04	<1	0.9	30.2	<10	<2
Reference Materials														
STD DS8	Standard	1.47	34.9	6.3	<0.05	1.6	6.24	30.0	2.07	55	5.1	25.9	112	326
STD DS8	Standard	1.20	38.2	7.0	<0.05	2.1	5.89	27.4	2.38	70	5.3	25.3	107	346
STD DS8	Standard	1.17	33.8	6.3	<0.05	1.9	5.25	24.7	2.12	44	4.7	25.5	106	308
STD DS8	Standard	0.97	37.4	6.8	<0.05	1.9	5.33	25.6	2.36	61	4.9	27.3	123	338
STD DS8	Standard	1.39	38.5	7.0	<0.05	2.3	6.22	29.0	2.32	52	4.8	26.8	103	339
STD DS8	Standard	1.33	38.5	6.6	<0.05	2.0	5.94	27.9	2.01	57	5.3	26.5	105	326
STD DS8	Standard	1.35	40.9	7.4	<0.05	1.7	6.76	33.1	2.37	64	5.4	29.5	141	382
STD DS8	Standard	0.91	36.8	6.3	<0.05	1.6	4.46	19.6	2.17	57	5.1	26.1	100	301
STD DS8	Standard	1.11	41.4	6.3	<0.05	2.3	5.92	27.5	2.23	47	6.1	27.2	108	334
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: July 29, 2011
Report Date: September 05, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11000950.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-16
P.O. Number: NA-10337
Number of Samples: 321

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include methods like Dry at 60C, SS80, RJSV, and 1F05.

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: Scott Turton
David Clark
database backup
Simon Ridgway



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612294	Soil			1.38	33.22	17.52	74.6	239	32.9	10.3	346	2.05	61.3	4.1	6.5	3.9	333.3	0.36	3.90	0.25	21	8.62	0.044
612295	Soil			1.50	53.48	58.07	120.6	172	44.5	22.4	823	3.61	27.0	1.5	8.6	3.9	42.1	0.22	1.63	0.38	20	0.44	0.062
612296	Soil			1.24	47.93	40.94	118.0	182	44.3	19.3	809	3.59	24.2	1.7	14.0	5.0	47.9	0.21	1.50	0.38	19	0.48	0.069
612297	Soil			1.53	27.29	59.18	89.6	122	34.9	11.5	322	1.85	29.8	2.7	7.2	3.4	140.9	0.21	2.01	0.20	13	4.47	0.047
612298	Soil			0.45	30.74	19.58	96.2	83	26.4	10.2	209	1.87	23.9	2.6	4.5	4.3	66.1	0.39	1.22	0.20	11	0.23	0.059
612299	Soil			0.78	32.59	27.25	97.1	123	31.2	11.3	292	2.47	23.3	3.1	4.4	4.7	43.2	0.21	1.07	0.22	23	0.86	0.059
612300	Soil			0.81	34.20	21.30	128.5	68	27.2	12.7	316	2.62	34.7	2.2	2.6	1.6	44.7	0.63	1.50	0.27	20	0.33	0.051
612501	Soil			0.52	37.53	32.43	89.0	34	30.4	15.9	585	3.58	5.6	0.7	0.9	3.3	11.4	0.10	0.37	0.37	20	0.04	0.033
612502	Soil			0.58	36.56	27.83	77.0	107	27.0	11.5	548	2.85	9.6	0.8	1.4	2.3	23.5	0.15	0.49	0.41	21	0.16	0.048
612503	Soil			0.96	23.81	30.04	52.7	53	18.4	8.2	222	2.27	19.2	0.7	1.7	0.3	29.0	0.04	1.09	0.36	22	0.23	0.069
612504	Soil			0.75	34.83	30.45	101.8	176	29.2	12.8	572	3.80	15.1	0.9	2.1	2.5	47.3	0.12	0.40	0.36	22	0.47	0.064
612505	Soil			0.77	32.24	49.18	99.6	53	25.7	24.3	2230	4.56	19.0	0.7	1.2	2.6	15.2	0.10	0.43	0.44	33	0.04	0.064
612506	Soil			1.14	36.46	53.09	106.8	95	27.3	26.8	2586	5.02	16.4	0.8	0.6	1.3	14.9	0.15	0.61	0.51	37	0.03	0.094
612507	Soil			0.90	31.99	53.00	91.6	88	17.4	23.7	2166	4.86	23.3	0.6	<0.2	1.0	8.4	0.18	0.48	0.40	36	0.04	0.119
612508	Soil			0.61	43.19	25.97	91.1	109	29.3	16.1	709	3.44	14.0	1.2	<0.2	2.3	49.2	0.14	0.51	0.38	20	0.75	0.079
612509	Soil			0.74	28.97	44.53	94.0	98	25.1	27.8	2539	4.75	10.7	0.6	0.2	2.8	11.3	0.21	0.47	0.45	33	0.06	0.070
612510	Soil			0.77	23.66	26.06	69.3	141	14.5	13.6	1383	4.14	8.3	0.5	<0.2	1.1	7.5	0.18	0.44	0.36	31	0.05	0.091
612511	Soil			1.72	80.26	54.65	123.2	274	73.1	44.3	844	5.42	34.1	1.0	2.8	3.3	80.5	0.13	1.11	0.48	19	1.63	0.069
612512	Soil			0.82	40.56	31.87	102.8	112	32.1	20.9	614	3.18	11.0	1.5	<0.2	2.3	136.0	0.17	0.44	0.40	13	2.12	0.064
612513	Soil			0.94	42.15	40.67	112.2	114	36.4	20.8	442	3.71	15.3	1.6	1.1	3.1	94.7	0.19	0.51	0.43	14	1.44	0.069
612514	Soil			0.87	35.81	22.90	105.2	186	27.7	11.4	264	2.72	15.0	2.4	3.6	2.2	99.4	0.30	0.92	0.27	20	1.56	0.096
612515	Soil			0.83	31.03	20.37	103.5	173	23.9	9.1	257	2.23	10.2	4.9	3.9	1.0	171.0	0.36	0.69	0.21	28	2.48	0.108
612516	Soil			0.55	43.75	33.72	107.0	191	35.8	16.2	520	3.82	13.6	1.0	1.7	4.3	45.7	0.09	0.44	0.41	20	0.37	0.042
612517	Soil			0.73	41.54	35.60	104.2	86	36.1	17.0	1161	4.23	13.6	0.7	1.4	2.4	27.1	0.10	0.46	0.41	24	0.15	0.045
612518	Soil			0.49	43.76	30.21	106.0	148	37.4	16.7	392	4.02	13.5	0.7	0.9	4.4	39.5	0.06	0.31	0.43	19	0.38	0.029
612519	Soil			0.70	41.81	35.24	110.0	189	40.1	16.7	468	3.86	14.4	0.9	1.3	3.4	54.0	0.06	0.35	0.43	20	0.68	0.056
612520	Soil			0.66	41.99	39.37	104.6	104	36.1	18.7	585	3.90	15.5	0.5	0.4	2.1	31.2	0.09	0.46	0.42	18	0.21	0.043
612521	Soil			1.13	30.79	31.27	73.6	33	20.6	11.8	658	4.23	15.5	0.4	0.8	0.8	11.0	0.03	0.59	0.36	34	0.02	0.061
612522	Soil			1.35	22.08	16.64	61.9	36	16.2	9.6	556	3.73	10.4	0.6	0.8	1.3	13.2	0.08	0.70	0.33	53	0.05	0.050
612523	Soil			0.62	50.57	32.67	105.2	86	35.7	22.2	970	4.46	14.3	0.6	0.4	3.8	26.7	0.09	0.60	0.39	20	0.08	0.048



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
612294	Soil	9.1	16.3	2.79	47.7	0.002	2	0.23	0.004	0.05	<0.1	3.5	0.16	0.03	516	0.4	0.03	0.9	0.81	<0.1	0.12
612295	Soil	15.7	31.7	0.52	100.5	0.002	2	1.02	0.002	0.09	<0.1	5.4	0.12	0.03	238	0.8	0.05	2.8	3.37	<0.1	0.09
612296	Soil	16.2	29.4	0.59	94.6	0.004	2	1.13	0.003	0.10	<0.1	6.9	0.11	0.03	192	0.6	0.02	3.0	2.72	<0.1	0.11
612297	Soil	11.3	29.2	0.96	45.0	0.001	2	0.35	0.004	0.06	<0.1	3.6	0.15	<0.02	681	0.6	0.04	1.1	1.26	<0.1	0.05
612298	Soil	23.1	13.9	0.11	46.6	0.002	<1	0.39	0.001	0.05	<0.1	3.5	0.10	<0.02	453	0.5	<0.02	1.1	0.66	<0.1	0.02
612299	Soil	25.4	29.7	0.24	83.3	0.001	1	0.53	0.002	0.05	<0.1	6.2	0.15	0.02	302	1.1	<0.02	1.2	0.71	<0.1	0.11
612300	Soil	11.2	19.1	0.22	55.6	0.002	1	0.57	0.002	0.07	<0.1	3.5	0.13	0.03	605	0.7	0.06	1.8	0.74	<0.1	<0.02
612501	Soil	5.8	23.2	0.32	93.1	0.003	<1	1.10	0.001	0.06	<0.1	2.7	0.08	<0.02	29	0.2	0.04	3.9	3.49	<0.1	<0.02
612502	Soil	7.7	20.4	0.19	138.4	0.001	<1	0.94	0.002	0.10	<0.1	3.0	0.13	0.03	49	0.4	0.07	3.0	3.24	<0.1	<0.02
612503	Soil	5.0	13.9	0.05	51.6	0.002	<1	0.38	0.002	0.07	<0.1	0.4	0.08	0.03	30	0.2	0.05	2.4	1.51	<0.1	<0.02
612504	Soil	10.1	20.7	0.31	96.9	0.004	2	1.21	0.004	0.08	<0.1	4.8	0.14	0.05	103	0.4	0.07	3.7	3.34	<0.1	0.03
612505	Soil	7.3	32.0	0.49	102.2	0.006	2	1.90	0.002	0.11	<0.1	3.4	0.10	<0.02	31	0.3	0.09	5.8	4.82	<0.1	0.03
612506	Soil	5.6	31.8	0.44	77.3	0.007	1	1.97	0.002	0.11	<0.1	2.3	0.12	0.05	34	0.4	0.09	5.7	6.13	<0.1	0.03
612507	Soil	3.8	29.6	0.24	106.7	0.005	2	1.86	0.001	0.10	<0.1	1.8	0.11	0.08	43	0.5	0.06	6.2	4.31	<0.1	0.03
612508	Soil	8.2	21.0	0.46	124.3	0.004	3	1.29	0.003	0.10	<0.1	6.1	0.08	0.05	41	0.4	0.06	3.7	1.87	<0.1	0.04
612509	Soil	4.8	30.8	0.47	97.7	0.006	2	2.01	0.002	0.13	<0.1	3.3	0.10	0.03	37	0.3	0.04	6.4	5.45	<0.1	0.03
612510	Soil	3.7	23.6	0.26	56.8	0.004	2	1.62	0.003	0.11	<0.1	2.2	0.10	0.08	75	0.4	0.05	6.0	3.55	<0.1	<0.02
612511	Soil	8.0	21.6	0.76	119.5	0.003	5	1.39	0.005	0.10	<0.1	9.7	0.12	0.06	73	0.8	0.09	4.0	3.13	<0.1	0.09
612512	Soil	10.7	17.1	0.44	102.1	0.003	5	1.11	0.006	0.09	<0.1	4.7	0.08	0.10	59	0.5	0.06	3.2	0.97	<0.1	0.07
612513	Soil	11.4	18.6	0.52	106.4	0.002	4	1.20	0.005	0.10	<0.1	5.3	0.08	0.08	53	0.6	0.08	3.1	1.27	<0.1	0.10
612514	Soil	15.7	18.4	0.61	119.8	0.005	3	0.93	0.005	0.09	<0.1	3.8	0.11	0.05	123	0.6	0.06	2.7	1.77	<0.1	0.05
612515	Soil	24.4	31.3	1.00	154.4	0.007	4	1.17	0.007	0.09	<0.1	2.5	0.10	0.10	133	1.2	0.02	3.7	2.07	<0.1	0.04
612516	Soil	9.7	20.0	0.31	103.1	0.003	1	0.91	0.003	0.12	<0.1	4.9	0.12	<0.02	108	0.4	0.06	3.1	7.31	<0.1	0.06
612517	Soil	8.1	19.1	0.21	95.1	0.003	2	0.88	0.003	0.09	<0.1	3.9	0.10	<0.02	76	0.3	0.03	2.8	4.74	<0.1	<0.02
612518	Soil	7.2	18.7	0.21	65.5	0.002	3	0.80	0.003	0.10	<0.1	5.6	0.09	<0.02	119	0.4	0.06	2.8	5.40	<0.1	0.03
612519	Soil	7.0	19.9	0.16	72.0	0.002	2	0.69	0.003	0.11	<0.1	6.0	0.16	0.04	280	0.4	0.03	2.7	5.54	<0.1	0.06
612520	Soil	5.2	18.2	0.17	53.6	0.002	2	0.67	0.003	0.10	<0.1	4.1	0.10	0.03	116	0.3	0.07	2.3	4.36	<0.1	<0.02
612521	Soil	3.9	18.3	0.08	36.2	0.004	1	0.80	0.002	0.08	<0.1	2.0	0.11	0.03	41	0.4	0.06	4.1	5.27	<0.1	<0.02
612522	Soil	11.1	26.5	0.29	62.0	0.014	1	1.53	0.002	0.09	<0.1	1.9	0.13	<0.02	30	0.5	0.07	6.1	3.72	<0.1	<0.02
612523	Soil	5.8	20.5	0.36	65.8	0.002	2	1.25	0.001	0.09	<0.1	5.4	0.07	<0.02	158	0.3	0.06	3.3	4.43	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 2 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
612294	Soil	0.04	2.9	1.5	<0.05	7.4	8.17	16.8	0.04	<1	0.4	4.9	<10	<2
612295	Soil	0.11	6.6	20.2	<0.05	2.9	11.83	32.1	<0.02	<1	0.8	28.0	<10	<2
612296	Soil	0.20	7.9	7.4	<0.05	3.5	14.11	32.3	0.03	1	1.0	29.2	<10	<2
612297	Soil	0.06	3.5	27.5	<0.05	1.9	8.95	23.3	<0.02	<1	0.4	8.7	<10	<2
612298	Soil	0.09	3.7	1.6	<0.05	1.3	13.29	48.0	0.03	<1	0.4	6.0	<10	<2
612299	Soil	0.09	5.1	5.6	<0.05	1.6	18.21	44.7	0.03	<1	0.6	6.4	<10	<2
612300	Soil	0.14	6.9	2.2	<0.05	0.7	7.04	23.5	0.03	<1	0.6	7.9	<10	<2
612501	Soil	0.14	7.9	3.6	<0.05	0.9	4.52	13.9	0.03	<1	1.0	33.2	<10	<2
612502	Soil	0.12	11.2	2.8	<0.05	0.6	8.06	19.5	<0.02	<1	1.2	15.5	<10	<2
612503	Soil	0.04	6.4	5.3	<0.05	0.2	2.52	9.8	<0.02	<1	0.2	2.1	<10	<2
612504	Soil	0.29	9.8	1.6	<0.05	1.3	16.40	20.5	0.03	<1	1.3	30.5	<10	<2
612505	Soil	0.28	14.7	3.6	<0.05	1.0	5.23	15.9	0.05	<1	1.2	45.3	<10	<2
612506	Soil	0.23	15.7	3.5	<0.05	0.6	4.69	14.3	0.04	<1	1.7	39.5	<10	<2
612507	Soil	0.36	17.1	6.8	<0.05	0.8	3.01	9.0	0.04	<1	1.4	23.3	<10	2
612508	Soil	0.23	8.3	1.1	<0.05	1.5	15.60	15.7	0.04	<1	1.1	30.3	<10	<2
612509	Soil	0.39	17.1	3.9	<0.05	0.9	3.73	12.0	0.05	<1	1.4	42.3	<10	<2
612510	Soil	0.45	14.1	1.3	<0.05	0.7	2.77	8.3	0.04	<1	0.5	22.6	<10	<2
612511	Soil	0.13	8.9	2.8	<0.05	3.4	22.30	18.6	0.05	<1	1.2	38.1	<10	<2
612512	Soil	0.20	6.8	1.1	<0.05	3.4	18.97	27.8	0.04	<1	0.7	26.8	<10	<2
612513	Soil	0.19	6.5	5.3	<0.05	3.7	20.23	28.3	0.04	<1	0.8	29.2	12	<2
612514	Soil	0.19	8.7	1.2	<0.05	1.5	14.17	30.1	0.03	<1	0.7	18.2	<10	<2
612515	Soil	0.33	9.1	5.0	<0.05	1.4	15.53	40.2	<0.02	<1	0.8	30.6	<10	<2
612516	Soil	0.12	10.6	2.1	<0.05	1.6	11.14	20.9	0.03	<1	0.8	20.5	<10	<2
612517	Soil	0.10	8.5	4.1	<0.05	0.5	9.87	18.6	0.03	<1	1.5	16.3	15	<2
612518	Soil	0.14	7.8	1.7	<0.05	2.3	10.70	16.0	0.03	<1	1.0	18.1	<10	<2
612519	Soil	0.12	9.0	4.9	<0.05	1.9	14.08	15.3	0.03	<1	0.9	12.0	<10	<2
612520	Soil	0.08	6.9	4.5	<0.05	0.7	5.54	12.5	0.03	<1	1.3	12.8	<10	<2
612521	Soil	0.21	12.3	6.2	<0.05	0.2	2.44	7.6	<0.02	<1	0.4	4.2	<10	<2
612522	Soil	0.44	16.6	1.3	<0.05	0.2	3.02	21.0	0.03	<1	0.4	16.7	<10	<2
612523	Soil	0.09	8.5	3.3	<0.05	0.9	9.77	14.6	0.04	<1	1.3	30.1	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612524	Soil			0.71	27.24	17.29	83.3	70	30.9	11.5	470	2.99	12.6	1.1	1.8	3.5	28.9	0.14	0.80	0.25	29	0.19	0.039
612525	Soil			0.52	33.22	25.53	91.0	98	25.4	13.2	444	2.98	11.1	1.7	1.2	3.0	83.5	0.17	0.58	0.34	18	1.28	0.059
612526	Soil			0.66	24.54	20.93	83.6	46	18.9	10.5	504	2.82	10.4	1.8	0.6	2.1	66.6	0.16	0.63	0.32	24	0.91	0.044
612527	Soil			0.60	37.64	35.77	106.1	95	28.2	16.4	931	3.08	32.3	2.9	1.3	3.0	64.7	0.20	1.48	0.36	16	0.81	0.063
612528	Soil			0.64	30.96	26.51	98.1	100	26.2	14.9	638	3.01	24.3	2.6	1.0	2.2	72.7	0.17	1.63	0.33	21	1.12	0.047
612529	Soil			0.65	26.90	19.60	68.5	104	21.1	8.6	245	1.87	36.8	2.4	5.7	3.3	155.2	0.25	2.77	0.16	20	4.88	0.044
612530	Soil			0.54	32.72	22.35	92.5	91	28.0	10.5	303	2.86	44.4	1.7	15.5	3.5	22.4	0.46	2.86	0.25	20	0.50	0.040
612531	Soil			1.31	25.07	28.88	87.5	95	28.9	9.0	240	2.43	89.6	1.3	6.0	2.3	66.7	0.21	4.97	0.24	15	0.57	0.057
612532	Soil			0.52	20.85	13.31	79.6	54	24.0	9.1	204	2.41	11.3	0.8	1.8	3.0	39.5	0.16	0.39	0.21	20	0.98	0.082
612533	Soil			0.60	30.83	24.68	78.2	66	26.7	9.1	303	2.74	14.2	1.6	2.0	4.2	36.6	0.14	0.41	0.31	13	0.74	0.064
612534	Soil			0.35	23.38	13.54	72.9	95	22.0	9.1	206	2.32	6.3	1.4	3.0	3.2	56.1	0.12	0.35	0.23	18	1.08	0.068
612535	Soil			0.25	14.93	12.59	76.7	83	17.6	7.6	215	1.88	7.8	1.2	2.5	3.7	48.2	0.16	0.28	0.19	18	0.83	0.066
612536	Soil			0.46	20.00	13.06	82.0	77	20.5	9.7	269	2.23	10.9	1.0	2.2	2.7	51.1	0.19	0.46	0.20	21	0.85	0.057
612537	Soil			0.61	31.11	15.65	67.9	163	21.6	9.5	366	2.33	15.0	2.3	2.0	1.5	88.7	0.13	0.67	0.25	20	1.70	0.081
612538	Soil			0.52	24.85	15.66	103.5	180	17.0	10.0	688	2.17	9.3	2.9	2.3	1.0	94.2	0.47	0.61	0.23	20	1.81	0.082
612539	Soil			0.51	26.52	20.88	87.6	125	21.0	10.6	778	2.55	8.3	1.5	2.0	2.4	68.0	0.23	0.43	0.25	23	1.21	0.063
612540	Soil			0.49	16.49	14.04	62.1	85	14.1	6.3	274	2.16	8.5	1.2	1.1	1.4	81.4	0.11	0.40	0.22	23	1.29	0.060
612541	Soil			0.86	12.75	19.54	55.1	27	10.8	4.8	155	2.05	7.8	0.8	1.4	1.3	14.4	0.17	0.33	0.23	33	0.13	0.038
612542	Soil			0.66	13.50	15.31	49.8	51	12.6	5.6	190	2.18	8.7	1.4	2.2	1.9	44.5	0.12	0.33	0.25	32	0.62	0.039
612543	Soil			0.83	20.16	22.25	71.3	49	19.7	9.7	365	2.94	9.9	0.7	0.7	2.8	11.7	0.14	0.56	0.26	33	0.10	0.041
612544	Soil			0.75	30.80	15.65	107.9	32	24.9	12.8	408	3.07	7.2	0.8	2.4	5.0	23.3	0.18	1.56	0.25	26	0.31	0.082
612545	Soil			0.89	10.46	15.21	53.8	23	13.4	6.2	238	2.43	7.7	1.0	0.9	2.1	21.3	0.15	0.93	0.21	34	0.21	0.019
612110	Soil			0.53	31.18	22.73	80.0	54	27.4	16.0	450	2.57	8.7	0.6	1.1	2.4	10.4	0.07	0.40	0.21	17	0.06	0.024
612111	Soil			0.96	41.66	34.03	92.7	84	34.3	16.0	393	3.23	22.4	0.6	1.6	3.2	18.1	0.08	1.15	0.33	18	0.12	0.034
612112	Soil			0.58	41.58	25.36	97.3	102	30.8	12.6	394	3.27	17.2	0.6	2.4	2.6	18.2	0.09	0.78	0.40	19	0.12	0.040
612113	Soil			0.75	51.02	38.93	116.6	115	43.0	19.4	593	4.03	15.5	0.7	1.1	3.5	23.4	0.08	0.42	0.41	19	0.14	0.030
612114	Soil			0.90	30.04	28.49	92.5	37	30.1	18.8	648	3.62	13.6	0.5	0.9	1.6	10.0	0.14	0.56	0.28	30	0.04	0.042
612115	Soil			1.31	28.45	30.36	86.1	42	28.3	18.0	870	3.66	16.2	0.6	1.9	3.4	10.5	0.22	0.87	0.33	37	0.05	0.047
612116	Soil			1.24	56.48	56.55	122.4	151	36.1	34.7	2783	4.10	20.1	0.9	0.9	2.4	21.5	0.14	0.79	0.47	34	0.13	0.118
612117	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
612524	Soil	12.7	23.8	0.40	89.5	0.008	1	1.16	0.003	0.07	<0.1	3.8	0.08	<0.02	96	0.4	0.07	3.1	2.08	<0.1	0.03
612525	Soil	13.8	17.4	0.25	171.4	0.003	2	0.89	0.003	0.07	<0.1	6.2	0.08	0.05	202	0.4	0.06	2.4	3.30	<0.1	0.03
612526	Soil	10.1	15.4	0.10	77.2	0.003	<1	0.82	0.002	0.07	<0.1	3.0	0.11	0.02	81	0.3	0.08	2.7	1.57	<0.1	<0.02
612527	Soil	21.0	14.4	0.07	83.3	0.002	2	0.62	0.003	0.06	<0.1	8.3	0.26	0.03	1246	0.6	0.09	1.4	1.50	<0.1	0.03
612528	Soil	15.5	15.6	0.11	67.7	0.003	2	0.64	0.003	0.06	<0.1	6.3	0.22	0.02	1405	0.4	0.06	1.8	1.20	<0.1	<0.02
612529	Soil	11.2	13.1	2.51	40.1	0.004	1	0.29	0.006	0.05	<0.1	4.0	0.10	<0.02	731	1.1	0.03	0.8	0.69	<0.1	<0.02
612530	Soil	16.7	17.4	0.16	57.7	0.003	3	0.45	0.002	0.04	<0.1	6.9	0.10	0.02	1267	1.1	0.07	1.1	0.89	<0.1	0.09
612531	Soil	9.7	21.3	0.15	79.2	0.002	2	0.38	0.002	0.05	<0.1	4.3	0.20	0.03	952	0.8	<0.02	1.3	0.81	<0.1	0.08
612532	Soil	12.9	31.6	0.46	75.6	0.003	3	0.74	0.006	0.05	<0.1	4.4	0.09	0.06	111	0.9	0.03	2.3	1.19	<0.1	0.07
612533	Soil	18.4	19.8	0.27	88.2	0.002	3	0.56	0.003	0.05	<0.1	6.7	0.13	0.04	100	1.0	0.05	1.5	2.84	<0.1	0.06
612534	Soil	15.6	26.1	0.66	84.8	0.004	3	0.87	0.003	0.05	<0.1	4.8	0.07	0.05	85	1.2	0.04	2.7	1.25	<0.1	0.05
612535	Soil	16.0	24.2	0.47	89.2	0.003	3	0.82	0.002	0.05	<0.1	3.7	0.08	0.04	325	0.8	<0.02	2.5	1.30	<0.1	0.06
612536	Soil	11.9	25.4	0.57	83.1	0.004	3	0.97	0.004	0.06	<0.1	4.2	0.09	0.05	230	0.7	<0.02	3.1	1.78	<0.1	0.05
612537	Soil	8.3	19.3	0.37	143.3	0.003	4	1.10	0.004	0.08	<0.1	3.2	0.12	0.07	401	0.9	0.09	3.1	1.81	<0.1	0.08
612538	Soil	6.7	18.1	0.35	220.8	0.004	4	0.98	0.006	0.06	<0.1	2.9	0.11	0.09	205	1.9	0.03	2.9	3.52	<0.1	0.06
612539	Soil	11.8	21.6	0.38	398.9	0.003	2	1.18	0.003	0.08	<0.1	4.4	0.10	0.05	197	0.5	0.09	3.5	1.98	<0.1	0.07
612540	Soil	5.4	16.4	0.27	112.8	0.003	3	1.02	0.003	0.05	<0.1	2.3	0.09	0.05	113	0.4	0.06	3.3	1.73	<0.1	0.05
612541	Soil	7.7	15.5	0.16	88.2	0.004	1	1.06	0.003	0.05	<0.1	1.4	0.10	<0.02	57	0.2	0.02	5.0	1.55	<0.1	<0.02
612542	Soil	10.7	17.7	0.24	112.6	0.005	2	1.15	0.004	0.05	<0.1	2.1	0.11	<0.02	159	0.3	0.04	4.5	1.78	<0.1	0.02
612543	Soil	10.9	26.5	0.35	79.6	0.005	2	1.34	0.003	0.06	<0.1	2.7	0.09	<0.02	107	0.4	0.07	4.8	2.07	<0.1	<0.02
612544	Soil	29.2	24.0	0.17	119.6	0.003	1	0.70	0.003	0.06	<0.1	4.2	0.09	0.02	149	1.3	0.05	2.5	1.71	<0.1	0.02
612545	Soil	7.9	18.4	0.27	116.8	0.006	1	1.25	0.001	0.04	<0.1	1.5	0.09	<0.02	73	0.2	0.04	4.1	1.08	<0.1	<0.02
612110	Soil	4.2	16.2	0.14	57.5	0.003	1	0.59	0.002	0.06	<0.1	2.3	0.09	<0.02	52	0.2	0.02	2.4	3.88	<0.1	<0.02
612111	Soil	5.6	19.4	0.08	64.5	0.001	2	0.36	0.002	0.06	<0.1	4.0	0.08	<0.02	412	<0.1	0.07	1.4	2.31	<0.1	<0.02
612112	Soil	6.1	17.1	0.11	85.1	0.001	1	0.59	0.002	0.07	<0.1	4.5	0.10	<0.02	188	0.3	0.05	2.5	3.15	<0.1	<0.02
612113	Soil	7.0	22.0	0.29	78.7	0.003	2	1.00	0.001	0.06	<0.1	5.6	0.10	<0.02	67	<0.1	0.08	3.5	3.54	<0.1	0.02
612114	Soil	6.7	24.7	0.41	69.5	0.009	2	1.69	0.002	0.08	<0.1	2.3	0.09	<0.02	31	0.4	0.06	4.6	3.79	<0.1	<0.02
612115	Soil	8.5	28.7	0.45	66.4	0.017	2	1.59	0.002	0.07	0.1	3.3	0.09	<0.02	45	0.5	0.05	5.5	3.35	<0.1	0.03
612116	Soil	7.8	33.3	0.57	110.2	0.008	3	1.96	0.002	0.10	<0.1	5.6	0.20	0.05	37	0.5	0.13	6.8	10.13	<0.1	0.03
612117	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 3 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
612524	Soil	0.25	8.0	1.1	<0.05	0.6	8.16	31.1	0.02	<1	0.8	21.8	<10	<2
612525	Soil	0.28	8.0	2.1	<0.05	1.6	17.52	29.9	0.04	<1	0.9	16.6	<10	2
612526	Soil	0.24	10.7	1.2	<0.05	0.7	9.00	26.7	0.04	<1	0.6	8.9	<10	<2
612527	Soil	0.11	7.4	6.0	<0.05	1.0	29.49	53.1	0.04	<1	1.2	4.6	<10	<2
612528	Soil	0.20	7.2	2.2	<0.05	0.8	23.38	37.4	0.05	<1	0.6	5.4	<10	<2
612529	Soil	0.13	3.4	2.2	<0.05	1.3	11.33	23.4	0.04	<1	0.4	3.0	<10	<2
612530	Soil	0.18	3.8	2.1	<0.05	2.0	14.74	42.0	0.07	<1	0.7	4.0	<10	<2
612531	Soil	0.12	4.3	9.9	<0.05	2.3	7.88	22.5	0.02	<1	0.7	5.9	<10	<2
612532	Soil	0.20	5.5	1.3	<0.05	2.5	9.30	26.7	0.03	<1	0.5	15.3	<10	<2
612533	Soil	0.13	6.0	8.0	<0.05	1.9	17.12	42.3	<0.02	<1	0.9	9.0	<10	<2
612534	Soil	0.24	5.1	1.1	<0.05	2.3	9.35	32.1	0.03	<1	0.5	19.2	<10	<2
612535	Soil	0.32	6.1	1.5	<0.05	1.8	7.99	32.4	0.02	<1	0.4	18.7	<10	<2
612536	Soil	0.33	6.7	0.6	<0.05	2.4	6.77	24.4	0.03	<1	0.5	20.3	<10	<2
612537	Soil	0.36	7.4	1.3	<0.05	3.1	10.19	17.0	0.02	<1	1.0	19.9	<10	<2
612538	Soil	0.41	11.7	0.8	<0.05	2.1	8.69	14.2	0.03	<1	0.7	20.7	<10	<2
612539	Soil	0.32	8.7	2.5	<0.05	2.6	11.15	23.7	0.03	<1	0.8	22.7	<10	<2
612540	Soil	0.37	8.6	0.7	<0.05	2.0	3.45	13.1	0.03	<1	0.6	19.3	<10	<2
612541	Soil	0.32	9.7	7.4	<0.05	0.5	2.80	17.2	<0.02	<1	0.4	16.5	<10	<2
612542	Soil	0.43	9.3	1.4	<0.05	0.9	5.35	24.5	0.03	<1	0.5	18.2	<10	<2
612543	Soil	0.38	9.5	3.6	<0.05	0.9	4.96	28.7	0.03	<1	0.5	28.8	<10	<2
612544	Soil	0.15	7.7	1.5	<0.05	1.1	9.61	60.4	0.03	<1	0.7	9.8	<10	<2
612545	Soil	0.39	10.5	2.5	<0.05	1.0	2.13	16.8	<0.02	<1	0.6	23.3	<10	<2
612110	Soil	0.08	6.5	2.4	<0.05	0.4	3.97	10.8	<0.02	1	0.7	12.4	<10	<2
612111	Soil	0.05	6.2	8.2	<0.05	1.3	5.81	14.8	0.03	<1	0.9	6.0	<10	<2
612112	Soil	0.09	9.6	2.0	<0.05	0.6	6.68	15.7	0.04	<1	1.2	9.1	<10	2
612113	Soil	0.10	7.9	4.7	<0.05	1.4	8.95	20.3	0.04	<1	0.9	34.0	<10	<2
612114	Soil	0.38	9.5	1.3	<0.05	0.5	3.82	18.7	0.03	<1	1.2	41.6	<10	<2
612115	Soil	0.68	12.7	3.9	<0.05	1.0	3.84	20.4	0.04	<1	1.4	42.1	<10	<2
612116	Soil	0.25	19.5	2.7	<0.05	0.9	14.19	31.4	0.04	<1	2.4	62.6	<10	2
612117	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612118	Soil			0.71	45.34	68.28	108.4	129	33.6	34.6	2239	4.21	16.0	0.7	1.1	2.9	16.9	0.12	0.48	0.41	30	0.08	0.101
612119	Soil			0.74	46.65	63.28	112.3	110	40.4	31.5	2057	4.88	11.8	0.6	2.5	3.4	21.7	0.07	0.29	0.44	24	0.07	0.063
612120	Soil			0.85	46.34	54.18	124.1	130	38.9	30.1	1255	4.15	17.8	1.0	1.5	2.4	16.8	0.12	0.83	0.47	28	0.13	0.089
612121	Soil			0.45	68.50	33.27	115.7	87	46.0	22.2	569	4.15	11.1	0.9	0.3	5.8	24.4	0.09	0.31	0.61	21	0.12	0.048
612122	Soil			0.54	50.98	37.62	102.7	131	41.1	22.4	876	3.77	5.0	0.8	1.4	5.2	30.3	0.07	0.22	0.46	26	0.17	0.058
612123	Soil			0.45	52.95	26.42	99.3	64	39.9	17.9	484	3.51	5.9	0.7	1.7	3.9	23.5	0.05	0.28	0.48	20	0.13	0.042
612124	Soil			0.59	48.48	30.57	97.7	71	38.8	17.4	650	3.63	14.4	0.8	2.4	3.4	21.5	0.15	0.47	0.45	25	0.08	0.044
612125	Soil			1.02	26.17	30.15	84.8	59	17.8	12.5	1382	3.54	10.2	0.5	0.8	0.3	10.6	0.23	0.60	0.33	35	0.04	0.081
612126	Soil			0.59	49.99	36.97	107.9	153	39.1	19.2	875	3.94	16.6	0.7	0.9	3.7	29.7	0.07	0.37	0.48	19	0.18	0.057
612127	Soil			0.55	47.10	36.62	118.6	238	38.9	18.1	650	3.90	14.4	0.8	1.3	4.1	36.5	0.06	0.62	0.45	18	0.38	0.057
612128	Soil			0.62	53.88	38.60	131.7	155	50.3	25.3	527	4.21	17.8	0.7	2.4	5.4	39.3	0.08	0.35	0.51	23	0.40	0.031
612129	Soil			0.92	36.29	33.15	109.5	65	35.3	15.5	605	3.72	14.8	0.7	1.6	2.0	24.0	0.08	0.52	0.43	28	0.23	0.065
612130	Soil			0.73	37.21	36.44	97.2	167	32.1	16.0	594	4.01	15.0	0.8	6.2	1.8	38.6	0.14	0.44	0.49	21	0.34	0.054
612131	Soil			0.64	32.91	33.32	91.4	66	24.3	13.7	646	4.30	15.6	0.6	3.4	1.0	6.9	0.09	0.64	0.39	22	0.02	0.075
612132	Soil			0.79	33.91	23.13	76.8	184	22.8	9.7	374	2.08	37.6	2.8	12.4	2.9	189.0	0.40	3.45	0.23	12	4.43	0.067
612133	Soil			1.66	37.63	27.48	102.1	321	28.6	11.0	354	2.72	32.0	3.7	12.4	2.4	79.1	0.43	3.84	0.31	16	1.39	0.085
612134	Soil			1.51	34.42	24.33	89.2	373	28.4	10.1	274	2.18	35.3	2.8	17.7	3.7	126.8	0.34	4.88	0.21	13	3.43	0.088
612135	Soil			0.37	41.24	28.94	96.2	78	29.0	15.8	1235	3.32	17.5	2.5	2.7	3.8	32.2	0.15	1.27	0.47	10	0.41	0.050
612136	Soil			0.72	42.32	20.52	115.2	165	29.9	11.9	325	2.39	44.8	4.0	16.5	2.9	93.1	0.32	4.90	0.20	15	1.71	0.080
612137	Soil			1.18	19.15	15.80	45.6	217	17.9	6.6	222	1.36	34.2	4.6	8.9	4.4	521.5	0.20	3.11	0.11	11	10.93	0.053
612138	Soil			1.37	36.18	22.91	123.8	103	33.4	12.8	410	2.97	25.8	2.1	6.0	3.6	49.2	0.22	2.57	0.28	20	0.67	0.074
612139	Soil			1.38	32.34	22.52	124.9	194	33.6	12.4	340	2.96	65.6	1.4	5.3	3.1	29.0	0.29	6.13	0.27	23	0.39	0.054
612140	Soil			0.67	38.92	23.86	128.7	101	29.4	11.5	379	3.07	26.5	2.1	0.8	1.7	41.5	0.26	1.05	0.29	19	0.71	0.061
612141	Soil			0.63	28.35	23.29	81.7	20	29.8	13.3	366	3.35	19.9	0.6	1.3	2.5	19.6	0.09	0.55	0.32	19	0.15	0.036
612142	Soil			0.75	21.41	13.07	59.9	17	15.0	6.7	122	2.40	15.4	0.4	0.7	0.5	8.7	0.05	0.62	0.31	27	0.06	0.042
612143	Soil			0.71	24.35	20.52	77.8	27	23.6	10.2	269	3.04	22.5	0.7	1.8	1.9	12.6	0.17	0.92	0.33	22	0.04	0.049
612144	Soil			0.55	22.97	18.45	103.1	63	26.1	10.9	266	2.79	14.1	1.3	1.3	2.9	34.0	0.14	0.52	0.30	16	0.37	0.044
612145	Soil			0.53	20.29	18.54	90.6	71	23.0	10.9	300	2.77	15.4	1.4	2.9	3.2	49.5	0.13	0.58	0.30	21	0.64	0.063
612146	Soil			0.52	21.43	17.70	68.9	92	20.4	10.7	405	2.41	15.9	0.9	1.9	1.8	54.0	0.11	0.49	0.32	18	0.87	0.079
612147	Soil			0.76	23.03	21.46	85.7	115	23.5	12.5	549	3.05	14.0	1.7	2.1	2.3	46.9	0.18	0.64	0.33	32	0.75	0.062



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
612118	Soil	4.1	27.9	0.53	147.6	0.004	3	1.80	<0.001	0.11	<0.1	4.4	0.18	0.03	54	0.3	0.16	6.1	13.20	<0.1	0.04
612119	Soil	6.5	33.1	0.62	188.0	0.006	5	1.90	0.002	0.14	<0.1	4.3	0.14	0.03	35	0.3	0.13	6.3	16.61	<0.1	0.02
612120	Soil	9.8	26.2	0.41	86.4	0.005	3	1.59	0.002	0.09	<0.1	4.9	0.20	0.02	69	0.5	0.09	5.4	8.60	<0.1	0.04
612121	Soil	8.2	25.7	0.30	104.6	0.004	2	0.87	0.002	0.09	<0.1	4.8	0.10	<0.02	58	0.1	0.08	4.2	8.29	<0.1	<0.02
612122	Soil	8.1	38.2	0.60	172.7	0.006	4	1.59	0.002	0.10	<0.1	4.6	0.17	<0.02	39	0.2	0.09	7.3	13.72	<0.1	0.05
612123	Soil	6.7	26.6	0.34	105.7	0.004	3	0.97	0.001	0.08	<0.1	4.1	0.10	<0.02	47	<0.1	0.04	4.6	7.80	<0.1	0.03
612124	Soil	8.4	22.2	0.15	113.5	0.002	2	0.62	0.002	0.06	<0.1	4.2	0.13	<0.02	91	0.3	0.10	2.6	7.66	<0.1	<0.02
612125	Soil	6.1	19.5	0.15	92.5	0.006	2	1.06	0.002	0.08	<0.1	1.2	0.11	0.04	47	0.3	0.04	4.6	6.21	<0.1	<0.02
612126	Soil	6.1	22.7	0.26	73.5	0.002	3	0.90	0.002	0.08	<0.1	5.6	0.16	0.02	75	0.2	0.07	3.4	8.34	<0.1	0.02
612127	Soil	8.8	23.4	0.34	107.7	0.002	4	1.24	0.003	0.09	<0.1	7.1	0.12	0.03	76	0.4	0.07	4.3	7.82	<0.1	0.09
612128	Soil	10.2	31.0	0.40	102.9	0.004	5	1.26	0.002	0.09	<0.1	7.9	0.18	0.02	168	0.5	0.07	5.7	10.91	<0.1	0.08
612129	Soil	8.4	26.6	0.25	92.0	0.004	3	1.11	0.002	0.07	<0.1	4.6	0.14	<0.02	118	0.3	0.08	4.6	5.27	<0.1	0.02
612130	Soil	5.1	20.4	0.24	90.6	0.003	4	0.94	0.002	0.05	<0.1	4.0	0.13	0.05	111	0.4	0.05	3.3	6.31	<0.1	0.03
612131	Soil	2.3	17.2	0.16	31.6	0.002	2	0.96	0.001	0.04	<0.1	1.8	0.08	0.03	63	0.2	0.08	2.8	2.60	<0.1	0.03
612132	Soil	10.7	10.1	1.16	39.0	0.002	3	0.22	0.005	0.04	<0.1	4.3	0.12	0.02	790	0.7	0.04	0.7	0.70	<0.1	0.05
612133	Soil	9.6	10.4	0.21	57.2	0.002	3	0.37	0.003	0.05	<0.1	4.1	0.13	0.04	654	1.0	0.05	1.0	0.46	<0.1	0.07
612134	Soil	8.8	9.4	1.43	49.5	0.001	2	0.24	0.004	0.04	<0.1	4.2	0.17	<0.02	1339	1.3	0.03	0.7	0.78	<0.1	0.09
612135	Soil	16.3	11.7	0.07	63.8	<0.001	2	0.44	0.002	0.05	<0.1	6.6	0.06	<0.02	98	0.4	0.06	1.2	0.92	<0.1	0.06
612136	Soil	14.3	17.7	0.34	184.4	0.001	4	0.45	0.003	0.06	<0.1	3.8	0.14	0.06	649	1.6	0.02	1.3	0.95	<0.1	0.10
612137	Soil	7.7	8.7	2.30	28.7	<0.001	2	0.10	0.005	0.02	<0.1	4.3	0.12	<0.02	584	1.0	0.06	0.3	0.62	<0.1	0.09
612138	Soil	14.7	24.7	0.18	68.9	0.002	3	0.36	0.002	0.05	<0.1	6.2	0.15	0.03	400	1.8	0.03	1.1	1.19	<0.1	0.06
612139	Soil	13.4	24.3	0.15	65.3	0.002	3	0.39	0.002	0.04	<0.1	6.4	0.22	0.02	2314	1.1	0.02	1.3	0.73	<0.1	0.09
612140	Soil	6.6	21.7	0.27	65.0	0.002	3	0.70	0.003	0.05	<0.1	5.1	0.16	0.04	194	1.2	0.03	2.1	1.21	<0.1	0.08
612141	Soil	5.4	15.8	0.22	47.8	0.002	1	0.79	0.002	0.04	<0.1	2.9	0.05	<0.02	110	0.3	0.06	2.2	0.90	<0.1	<0.02
612142	Soil	4.4	9.6	0.04	38.0	0.002	3	0.55	0.001	0.04	<0.1	1.0	0.08	<0.02	68	0.2	<0.02	3.3	1.30	<0.1	<0.02
612143	Soil	7.9	19.0	0.16	61.5	0.002	2	0.78	0.001	0.05	<0.1	2.6	0.10	<0.02	153	0.6	0.05	2.7	1.15	<0.1	<0.02
612144	Soil	9.6	20.2	0.32	87.9	0.002	3	0.87	0.002	0.05	<0.1	5.0	0.08	0.03	298	0.7	0.05	2.3	2.38	<0.1	0.07
612145	Soil	11.5	28.6	0.47	91.4	0.003	3	0.91	0.002	0.06	<0.1	4.6	0.08	0.05	248	1.0	0.03	2.9	1.08	<0.1	0.08
612146	Soil	7.0	20.3	0.32	92.3	0.002	3	0.84	0.003	0.05	<0.1	3.6	0.08	0.06	207	0.7	0.04	2.7	1.44	<0.1	0.06
612147	Soil	10.5	24.2	0.38	152.1	0.006	3	1.23	0.003	0.06	0.1	3.8	0.09	0.03	157	0.6	0.04	3.9	1.23	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 4 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
612118	Soil	0.19	17.1	3.6	<0.05	1.2	5.33	16.7	0.04	<1	1.9	58.2	<10	2
612119	Soil	0.19	17.1	15.7	<0.05	1.5	5.83	20.2	0.02	1	1.9	58.3	<10	<2
612120	Soil	0.16	16.3	2.4	<0.05	1.0	10.36	28.3	0.04	<1	1.9	41.3	<10	<2
612121	Soil	0.07	9.2	1.7	<0.05	1.5	9.10	23.2	0.03	<1	1.9	22.6	<10	<2
612122	Soil	0.15	14.9	3.6	<0.05	1.1	9.91	23.7	0.03	<1	1.7	60.6	<10	<2
612123	Soil	0.10	10.2	2.4	<0.05	0.7	5.87	18.4	0.04	1	1.7	31.7	11	<2
612124	Soil	0.10	9.8	2.6	<0.05	0.4	5.93	21.9	0.03	<1	1.8	11.7	<10	3
612125	Soil	0.15	13.5	3.0	<0.05	0.1	3.00	13.5	0.03	<1	0.6	12.3	<10	<2
612126	Soil	0.09	10.6	3.0	<0.05	1.0	7.83	17.7	0.05	<1	1.1	25.8	<10	<2
612127	Soil	0.16	11.5	4.4	<0.05	2.8	14.85	23.1	0.03	<1	1.7	39.6	<10	<2
612128	Soil	0.23	11.6	3.2	<0.05	2.9	16.60	25.1	0.04	<1	1.4	40.9	<10	<2
612129	Soil	0.23	13.3	4.9	<0.05	0.6	7.90	21.7	0.03	<1	1.0	22.0	<10	<2
612130	Soil	0.21	9.5	3.0	<0.05	0.7	8.36	13.1	0.07	<1	1.3	22.8	<10	<2
612131	Soil	0.18	8.1	3.5	<0.05	0.5	2.43	5.5	0.04	<1	0.7	13.7	<10	<2
612132	Soil	0.06	2.4	2.7	<0.05	1.6	12.37	25.1	0.03	<1	0.8	3.2	<10	<2
612133	Soil	0.09	3.1	2.2	<0.05	2.8	16.63	22.6	0.04	<1	1.0	3.0	<10	<2
612134	Soil	0.05	2.8	2.2	<0.05	1.8	9.32	21.4	0.04	2	0.5	2.9	<10	<2
612135	Soil	0.06	4.6	3.0	<0.05	1.5	25.07	42.7	0.05	<1	1.5	3.6	<10	<2
612136	Soil	0.15	4.1	1.1	<0.05	3.6	11.52	31.6	0.04	<1	0.8	8.6	<10	<2
612137	Soil	0.04	1.5	1.7	<0.05	5.6	9.88	18.3	<0.02	<1	0.3	1.6	<10	<2
612138	Soil	0.11	4.6	3.4	<0.05	2.4	15.24	33.3	0.03	<1	0.6	4.3	<10	<2
612139	Soil	0.14	3.7	2.7	<0.05	2.4	14.61	31.5	0.03	<1	0.7	5.1	<10	<2
612140	Soil	0.15	5.6	3.8	<0.05	2.2	9.54	15.7	0.02	<1	0.7	13.8	<10	<2
612141	Soil	0.13	5.3	1.2	<0.05	0.8	4.07	16.3	0.02	<1	0.6	19.6	<10	<2
612142	Soil	0.13	10.1	1.4	<0.05	<0.1	1.90	9.2	0.02	<1	0.2	2.3	<10	<2
612143	Soil	0.20	7.5	1.4	<0.05	0.6	4.45	18.9	0.03	<1	0.7	12.6	<10	<2
612144	Soil	0.15	6.3	2.3	<0.05	1.9	7.66	22.7	0.03	<1	0.8	18.0	<10	<2
612145	Soil	0.24	6.0	1.2	<0.05	2.1	6.85	26.6	0.03	<1	0.7	18.4	<10	<2
612146	Soil	0.23	6.6	1.6	<0.05	2.0	6.56	15.7	0.02	<1	0.7	14.7	<10	<2
612147	Soil	0.50	7.1	1.0	<0.05	1.4	7.49	28.0	0.03	<1	0.5	19.3	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612148	Soil			1.42	18.22	18.33	98.3	86	20.7	9.5	374	2.81	13.2	1.5	1.8	2.1	15.0	0.51	0.77	0.34	51	0.10	0.037
612149	Soil			0.92	14.38	17.67	58.9	52	15.9	7.0	219	2.83	9.9	0.6	0.9	1.9	26.4	0.13	0.42	0.33	37	0.30	0.038
612150	Soil			0.86	17.37	18.08	79.7	18	19.1	8.4	251	4.13	15.5	0.5	0.9	1.8	7.3	0.11	0.56	0.30	32	0.05	0.028
612209	Soil			0.74	24.83	22.60	70.5	43	21.2	10.5	362	3.74	8.0	0.4	1.0	0.5	6.4	0.13	0.47	0.31	26	0.05	0.048
612210	Soil			0.90	23.86	45.20	78.1	124	22.0	12.2	552	3.03	14.9	0.6	3.4	1.1	16.0	0.14	0.69	0.34	25	0.18	0.072
612211	Soil			0.40	45.35	140.1	97.3	87	34.9	16.1	505	3.74	21.4	0.8	3.7	5.5	18.8	0.08	0.53	0.48	14	0.12	0.035
612212	Soil			0.46	30.41	83.44	73.5	35	26.9	11.6	470	3.15	9.2	0.5	0.9	2.7	10.0	0.07	0.41	0.32	19	0.04	0.034
612213	Soil			1.00	28.20	26.27	74.4	55	23.0	8.8	194	2.99	44.0	0.5	1.9	1.5	9.5	0.08	2.89	0.37	26	0.03	0.038
612214	Soil			0.78	31.25	135.8	98.4	159	21.9	15.3	1122	4.70	16.4	0.7	1.5	0.7	9.3	0.10	0.50	0.51	29	0.03	0.098
612215	Soil			0.43	42.73	45.58	119.0	20	37.9	23.8	763	3.94	14.3	0.4	0.6	2.5	9.7	0.07	0.37	0.50	19	0.02	0.023
612216	Soil			0.81	27.59	46.32	110.7	149	18.4	20.2	2144	4.65	18.6	0.5	1.2	0.5	7.4	0.13	0.65	0.47	33	0.03	0.095
612217	Soil			0.74	46.63	53.38	106.4	42	31.7	24.1	2344	4.17	11.5	0.5	0.2	2.1	16.2	0.06	0.46	0.41	26	0.07	0.055
612218	Soil			0.70	58.33	86.78	114.1	124	31.9	26.6	1626	5.13	7.2	0.9	2.4	3.8	18.5	0.13	0.36	0.68	26	0.10	0.108
612219	Soil			0.64	33.20	39.66	97.6	77	26.2	20.1	1497	3.79	20.7	0.5	0.9	2.3	15.4	0.07	0.34	0.34	22	0.10	0.080
612220	Soil			1.15	32.66	119.3	97.3	169	20.0	29.2	3767	5.49	11.7	0.8	1.2	0.8	20.7	0.41	0.72	0.49	33	0.17	0.109
612221	Soil			0.77	26.20	42.37	84.6	87	17.0	18.3	2009	4.82	9.8	0.6	1.2	1.2	10.2	0.15	0.42	0.45	31	0.06	0.086
612222	Soil			0.56	48.11	87.58	124.2	153	39.9	18.7	566	3.98	17.6	0.9	2.4	3.0	24.8	0.06	0.79	0.58	17	0.16	0.028
612223	Soil			0.78	48.20	38.35	107.2	160	43.2	22.4	708	4.58	19.9	0.9	0.9	5.3	26.6	0.07	0.40	0.51	22	0.22	0.061
612224	Soil			0.43	48.60	58.98	107.9	135	39.7	18.3	519	4.22	19.4	0.7	3.7	4.5	27.5	0.15	0.57	0.58	21	0.22	0.032
612225	Soil			0.54	50.48	35.77	102.4	126	37.4	17.6	638	4.17	16.3	0.9	2.9	3.7	23.1	0.21	0.58	0.58	22	0.22	0.041
612226	Soil			0.84	23.93	26.10	81.8	107	24.4	10.1	458	2.95	10.0	0.8	3.5	0.7	18.4	0.25	0.74	0.38	30	0.17	0.066
612227	Soil			0.41	41.07	30.52	96.4	161	35.0	15.4	382	3.72	19.0	0.8	1.6	3.3	36.2	0.09	0.41	0.49	17	0.40	0.039
612228	Soil			0.51	46.33	35.88	105.6	188	39.2	18.2	451	4.48	17.7	0.8	1.1	4.1	38.9	0.08	0.50	0.54	20	0.42	0.041
612229	Soil			0.51	43.64	84.14	110.2	232	40.8	17.6	501	4.92	22.9	0.7	1.1	3.6	32.7	0.06	0.46	0.45	18	0.36	0.032
612230	Soil			0.40	36.92	30.91	87.5	68	30.3	14.1	476	3.91	16.3	0.5	0.6	1.9	18.3	0.14	0.46	0.46	18	0.14	0.036
612231	Soil			0.95	28.20	27.99	78.4	51	20.2	10.5	472	4.16	15.6	0.4	0.9	1.2	7.9	0.07	0.83	0.38	34	0.02	0.050
612232	Soil			0.75	28.56	25.36	85.8	85	26.6	14.7	564	4.04	14.6	0.6	0.7	1.9	11.6	0.09	0.77	0.32	28	0.04	0.061
612233	Soil			0.48	53.17	48.26	135.5	212	48.8	29.7	1419	5.68	10.9	0.5	0.7	3.6	40.0	0.15	0.88	0.50	22	0.17	0.033
612234	Soil			0.51	24.21	16.60	70.4	53	16.3	8.1	337	2.31	9.5	0.9	0.4	1.6	52.7	0.07	0.61	0.35	22	0.71	0.054
612235	Soil			0.36	34.34	25.71	94.4	50	27.6	13.8	648	3.70	11.2	1.8	0.6	4.2	35.1	0.16	0.86	0.37	13	0.40	0.039



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 05, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15		
				La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
				ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm		
				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
612148	Soil			12.6	25.6	0.31	99.7	0.010	2	1.81	0.002	0.04	0.2	2.6	0.12	<0.02	92	0.3	0.08	5.4	1.47	<0.1	0.02
612149	Soil			6.7	19.0	0.29	95.1	0.005	2	1.30	0.002	0.04	0.1	1.7	0.10	<0.02	46	0.2	0.03	4.7	1.33	<0.1	<0.02
612150	Soil			4.6	23.7	0.31	58.0	0.004	2	1.37	0.001	0.04	<0.1	2.0	0.07	<0.02	93	0.2	0.06	4.8	1.50	<0.1	0.02
612209	Soil			3.8	20.7	0.25	56.3	0.005	2	1.20	0.001	0.05	<0.1	1.8	0.09	0.03	28	0.3	0.04	4.6	2.00	<0.1	<0.02
612210	Soil			4.9	15.5	0.12	128.4	0.002	2	1.10	0.003	0.07	<0.1	2.1	0.12	0.04	69	0.3	0.03	3.2	4.74	<0.1	<0.02
612211	Soil			6.2	15.2	0.24	92.3	0.003	2	0.74	<0.001	0.06	<0.1	4.6	0.08	<0.02	53	0.1	0.04	2.7	2.09	<0.1	0.03
612212	Soil			4.6	20.5	0.29	97.6	0.003	2	1.09	<0.001	0.06	<0.1	3.0	0.10	<0.02	22	<0.1	0.04	4.1	5.19	<0.1	0.02
612213	Soil			4.7	8.7	0.03	49.6	0.003	3	0.52	0.002	0.06	<0.1	2.8	0.15	<0.02	65	0.2	0.08	3.1	1.41	<0.1	<0.02
612214	Soil			4.2	30.6	0.34	61.9	0.005	2	1.79	<0.001	0.07	<0.1	1.4	0.09	0.06	64	0.3	0.04	6.1	4.86	<0.1	0.04
612215	Soil			3.6	25.1	0.61	66.9	0.004	2	1.79	<0.001	0.07	<0.1	2.8	0.07	<0.02	17	0.2	0.08	5.6	2.73	<0.1	0.04
612216	Soil			3.1	25.0	0.31	66.8	0.006	2	1.39	0.003	0.08	<0.1	1.5	0.10	0.05	93	0.4	0.09	5.5	4.14	<0.1	<0.02
612217	Soil			4.5	24.2	0.61	137.4	0.007	1	1.65	0.002	0.06	<0.1	3.6	0.10	<0.02	37	0.2	0.09	4.8	4.85	<0.1	0.02
612218	Soil			6.4	28.6	0.62	106.8	0.007	5	1.96	0.002	0.09	<0.1	5.0	0.09	0.02	32	<0.1	0.13	6.4	7.73	<0.1	0.04
612219	Soil			3.1	23.6	0.57	69.8	0.003	3	1.67	0.001	0.08	<0.1	3.2	0.08	0.03	21	0.1	0.06	5.6	4.02	<0.1	0.04
612220	Soil			5.4	28.7	0.33	108.4	0.010	4	1.83	0.002	0.08	<0.1	2.1	0.13	0.07	85	0.4	0.08	6.7	6.20	<0.1	0.03
612221	Soil			3.2	26.3	0.32	69.0	0.004	4	1.70	0.002	0.07	<0.1	2.5	0.07	0.05	32	0.2	0.07	6.1	5.04	<0.1	<0.02
612222	Soil			5.8	13.6	0.08	36.3	<0.001	1	0.29	<0.001	0.05	<0.1	6.2	0.11	<0.02	155	0.2	0.09	1.3	1.27	<0.1	<0.02
612223	Soil			7.0	21.0	0.24	104.8	0.003	2	0.78	0.002	0.07	<0.1	5.1	0.12	<0.02	154	0.3	0.06	3.0	4.01	<0.1	0.03
612224	Soil			7.2	18.2	0.24	89.0	0.002	1	0.76	0.001	0.07	<0.1	4.6	0.13	<0.02	139	0.2	0.06	3.0	4.35	<0.1	<0.02
612225	Soil			6.7	16.6	0.18	99.7	0.001	2	0.70	0.002	0.06	<0.1	4.5	0.11	<0.02	67	0.1	0.04	2.4	6.68	<0.1	0.03
612226	Soil			8.7	20.3	0.35	90.1	0.007	2	1.17	0.002	0.06	0.1	1.6	0.10	0.03	43	<0.1	<0.02	3.7	4.24	<0.1	<0.02
612227	Soil			6.4	15.2	0.20	80.7	<0.001	1	0.75	0.002	0.07	<0.1	5.1	0.12	0.03	84	<0.1	0.08	2.6	5.57	<0.1	0.08
612228	Soil			6.5	17.4	0.26	68.8	0.003	3	0.80	0.003	0.08	<0.1	6.6	0.14	0.03	176	<0.1	0.12	3.1	8.23	<0.1	0.07
612229	Soil			6.2	16.3	0.23	104.0	0.001	1	0.88	0.001	0.06	<0.1	7.5	0.15	0.02	200	<0.1	0.06	2.9	9.70	<0.1	0.06
612230	Soil			4.1	14.7	0.15	49.8	0.001	1	0.75	0.002	0.05	<0.1	3.3	0.09	<0.02	108	<0.1	0.02	2.8	5.47	<0.1	<0.02
612231	Soil			4.4	13.6	0.13	31.9	0.007	<1	0.83	<0.001	0.05	0.1	2.0	0.09	0.02	48	<0.1	0.05	3.4	3.84	<0.1	<0.02
612232	Soil			5.8	21.3	0.34	42.8	0.007	<1	1.33	<0.001	0.06	<0.1	2.3	0.10	0.02	128	0.3	0.04	3.7	4.02	<0.1	<0.02
612233	Soil			3.8	21.7	0.64	93.7	0.002	2	1.48	<0.001	0.08	<0.1	6.9	0.09	<0.02	156	<0.1	0.05	4.4	12.23	0.1	0.06
612234	Soil			5.6	11.3	0.10	83.5	0.001	<1	0.80	0.002	0.05	<0.1	2.8	0.10	0.02	72	0.1	0.03	3.4	1.61	<0.1	0.02
612235	Soil			15.1	10.0	0.08	77.5	<0.001	2	0.80	<0.001	0.05	<0.1	5.7	0.08	<0.02	492	<0.1	0.12	1.4	0.84	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 5 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
612148	Soil			0.89	8.3	1.2	<0.05	0.5	6.12	33.4	0.02	<1	0.5	16.1	<10	<2
612149	Soil			0.58	8.5	1.1	<0.05	0.4	3.04	16.0	0.02	<1	0.4	25.7	<10	<2
612150	Soil			0.50	10.4	1.6	<0.05	1.2	1.94	9.6	0.03	<1	0.3	32.9	<10	<2
612209	Soil			0.35	8.3	1.7	<0.05	0.2	2.65	12.6	0.03	<1	0.4	20.4	<10	<2
612210	Soil			0.31	12.6	14.1	<0.05	0.5	4.52	15.7	<0.02	1	1.1	18.9	<10	<2
612211	Soil			0.06	5.4	>100	<0.05	1.7	6.15	16.4	<0.02	<1	1.1	23.1	<10	<2
612212	Soil			0.14	10.0	93.6	<0.05	0.7	3.83	11.7	<0.02	<1	1.0	36.7	<10	<2
612213	Soil			0.27	9.9	7.2	<0.05	0.3	3.12	9.1	<0.02	<1	0.4	1.3	<10	<2
612214	Soil			0.33	11.7	>100	<0.05	0.8	2.86	10.4	<0.02	<1	1.4	38.5	<10	<2
612215	Soil			0.16	7.9	2.9	<0.05	1.5	3.52	9.4	<0.02	<1	0.9	71.0	16	2
612216	Soil			0.30	11.6	6.0	<0.05	0.2	2.34	7.1	<0.02	1	0.5	25.7	<10	<2
612217	Soil			0.22	8.2	1.6	<0.05	0.9	5.76	15.0	0.03	<1	1.2	49.3	<10	<2
612218	Soil			0.21	14.3	63.3	<0.05	1.1	12.42	24.6	<0.02	<1	2.0	57.1	<10	3
612219	Soil			0.15	12.3	6.8	<0.05	0.8	5.63	8.3	0.03	<1	1.5	53.5	<10	<2
612220	Soil			0.31	16.1	>100	<0.05	0.3	7.69	14.8	<0.02	<1	2.7	31.3	<10	2
612221	Soil			0.36	12.2	15.9	<0.05	0.5	3.42	9.2	0.02	<1	1.5	35.2	<10	<2
612222	Soil			0.03	3.6	92.6	<0.05	1.1	10.35	12.7	<0.02	<1	1.4	3.5	<10	<2
612223	Soil			0.09	5.3	3.1	<0.05	1.4	14.63	18.1	0.03	<1	1.6	20.8	<10	<2
612224	Soil			0.10	5.9	62.5	<0.05	1.3	11.11	17.0	<0.02	<1	1.1	17.9	<10	<2
612225	Soil			0.11	7.4	2.3	<0.05	0.9	9.88	19.0	0.06	2	1.4	14.1	<10	<2
612226	Soil			0.26	10.3	9.2	<0.05	0.2	6.67	18.8	0.03	<1	1.0	19.4	<10	<2
612227	Soil			0.13	7.2	2.3	<0.05	2.8	12.00	15.6	0.03	<1	1.4	15.1	<10	<2
612228	Soil			0.16	8.5	2.1	<0.05	2.9	14.55	15.9	0.07	<1	1.5	19.6	<10	<2
612229	Soil			0.13	8.2	86.0	<0.05	2.2	16.61	13.3	<0.02	<1	1.9	21.7	<10	<2
612230	Soil			0.12	7.5	1.9	<0.05	0.6	5.43	9.7	0.04	<1	1.0	15.0	<10	<2
612231	Soil			0.43	11.0	13.0	<0.05	0.2	2.21	8.6	0.02	<1	0.4	7.2	<10	<2
612232	Soil			0.38	10.3	3.5	<0.05	0.6	3.54	14.6	0.05	<1	0.8	24.1	<10	<2
612233	Soil			0.07	9.5	4.3	<0.05	2.3	11.63	12.3	0.05	<1	1.1	45.6	<10	<2
612234	Soil			0.21	9.7	4.0	<0.05	0.8	6.08	14.7	0.03	<1	0.5	6.2	<10	<2
612235	Soil			0.04	6.2	2.0	<0.05	1.3	18.60	48.9	0.05	<1	0.9	6.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612236	Soil			0.41	35.04	28.32	80.7	81	24.4	13.2	1114	3.28	13.5	2.2	1.2	3.0	93.0	0.19	0.93	0.39	15	1.56	0.061
612237	Soil			0.46	21.76	21.49	63.7	60	16.3	9.5	726	2.71	12.6	3.1	0.6	1.5	73.3	0.15	1.25	0.32	18	1.24	0.056
612238	Soil			1.27	30.35	151.2	103.1	129	26.4	9.9	256	2.34	33.9	1.7	4.9	2.7	59.3	0.18	3.32	0.22	20	1.08	0.063
612239	Soil			0.74	19.67	18.66	79.1	76	22.9	9.8	233	2.09	69.1	1.3	2.8	2.1	52.1	0.12	4.92	0.22	16	0.29	0.042
612240	Soil			0.51	26.98	40.23	82.0	71	30.3	11.7	419	3.18	12.8	1.2	1.2	4.5	28.7	0.10	0.56	0.27	21	0.54	0.064
612241	Soil			0.36	26.92	15.64	69.3	92	22.0	9.8	264	2.71	11.8	2.1	1.6	4.7	54.5	0.13	0.38	0.26	20	0.85	0.065
612242	Soil			0.42	17.82	16.17	75.5	98	20.4	10.4	327	2.48	9.0	1.0	1.7	2.6	51.2	0.09	0.39	0.23	25	0.84	0.061
612243	Soil			0.47	26.87	20.43	64.7	144	23.3	11.6	420	2.63	13.4	2.4	3.5	2.1	63.4	0.03	0.56	0.24	25	1.22	0.077
612244	Soil			0.64	19.99	17.79	67.3	103	18.1	9.8	534	2.36	10.5	1.4	0.8	1.7	77.4	0.13	0.62	0.22	25	1.48	0.083
612245	Soil			0.89	12.32	19.70	58.1	26	12.5	7.0	274	2.58	12.3	0.8	0.6	1.7	20.1	0.11	0.52	0.27	34	0.20	0.032
612246	Soil			0.77	20.87	24.80	73.5	74	27.0	12.1	612	3.62	16.2	2.3	1.4	2.7	38.3	0.31	0.53	0.27	24	0.37	0.064
612247	Soil			0.66	18.00	53.40	57.6	29	17.1	10.4	473	3.95	15.7	0.6	<0.2	2.1	9.0	0.08	0.54	0.30	29	0.04	0.032
612248	Soil			0.59	34.69	39.63	120.6	55	45.0	23.6	1239	4.41	8.1	0.8	3.6	4.6	18.1	0.22	0.51	0.40	23	0.13	0.073
612249	Soil			0.95	20.12	35.31	86.0	71	31.2	13.9	493	4.02	13.6	1.5	<0.2	4.1	17.6	0.21	0.65	0.31	42	0.14	0.040
612250	Soil			0.64	21.30	26.28	58.3	125	22.5	11.3	353	3.03	7.8	1.1	0.7	3.7	34.4	0.20	0.59	0.29	31	0.57	0.055
612064	Soil			1.19	38.77	129.2	92.5	203	37.1	21.6	1221	5.38	20.5	1.4	0.4	1.9	55.7	0.12	0.77	0.36	11	0.65	0.127
612065	Soil			0.63	38.74	41.41	87.9	162	40.5	19.5	486	3.99	18.3	0.7	<0.2	1.6	27.4	0.11	0.55	0.40	10	0.64	0.064
612066	Soil			1.32	41.58	68.33	88.7	119	62.5	25.1	412	6.59	26.1	1.0	0.4	1.6	29.2	0.06	1.08	0.40	10	0.32	0.074
612067	Soil			0.85	31.53	28.32	89.0	243	29.0	12.9	334	3.99	10.5	1.0	0.6	2.9	64.1	0.16	0.55	0.30	17	0.92	0.075
612068	Soil			0.77	48.55	61.57	122.2	300	38.5	19.8	648	4.60	15.5	0.5	1.1	3.4	57.7	0.11	0.60	0.40	19	0.78	0.049
612069	Soil			0.40	33.19	23.33	83.7	83	27.2	10.9	276	3.37	16.7	0.6	0.8	2.4	46.3	0.07	0.47	0.34	16	0.60	0.063
612070	Soil			0.31	44.49	33.89	88.2	54	28.6	13.7	281	3.66	12.5	0.5	1.5	3.1	24.0	0.05	0.73	0.37	17	0.13	0.031
612071	Soil			0.40	20.01	19.08	54.2	74	22.7	14.8	725	2.77	11.1	0.6	1.5	3.7	19.3	0.05	0.66	0.22	10	0.08	0.012
612072	Soil			0.38	25.07	20.23	62.0	23	21.9	9.9	190	2.61	24.6	0.4	3.8	0.9	8.2	0.05	0.64	0.23	18	0.04	0.024
612073	Soil			1.02	20.44	19.39	60.5	50	18.6	7.6	298	3.19	13.8	0.6	5.0	0.3	6.4	0.16	0.69	0.30	36	0.05	0.050
612074	Soil			0.95	21.06	19.65	65.5	37	18.8	7.9	302	3.33	10.5	0.6	2.4	0.6	7.4	0.12	0.54	0.27	31	0.06	0.072
612075	Soil			1.03	24.64	20.22	72.0	95	19.7	7.9	329	3.17	13.4	0.7	2.5	0.3	6.7	0.14	0.74	0.29	29	0.04	0.080
612076	Soil			1.07	26.05	19.85	71.3	94	21.4	8.8	409	3.37	11.1	0.8	2.4	0.3	6.4	0.17	0.63	0.28	34	0.04	0.086
612077	Soil			0.87	28.78	22.39	80.0	23	27.1	12.4	579	3.17	13.7	0.7	2.5	1.9	11.4	0.14	0.68	0.28	31	0.10	0.055
612078	Soil			1.06	22.56	17.16	68.4	40	19.1	8.7	620	3.02	9.8	0.7	1.4	0.4	9.7	0.18	0.62	0.26	35	0.09	0.080



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 05, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	
612236	Soil	17.9	12.3	0.08	68.8	0.002	1	0.50	0.002	0.05	<0.1	6.1	0.15	0.03	509	0.2	0.07	1.3	0.98	<0.1	0.04
612237	Soil	9.2	10.3	0.07	68.5	0.003	<1	0.58	0.003	0.05	<0.1	3.5	0.10	0.04	206	0.4	0.06	2.0	0.88	<0.1	<0.02
612238	Soil	12.8	20.6	0.20	85.8	0.001	2	0.31	0.001	0.04	<0.1	5.6	0.19	0.05	436	1.4	<0.02	1.2	0.94	<0.1	0.08
612239	Soil	9.3	15.7	0.11	64.8	0.002	<1	0.38	0.002	0.04	<0.1	3.9	0.27	0.03	775	0.6	0.03	1.5	1.00	<0.1	0.06
612240	Soil	21.5	26.3	0.32	73.4	0.002	1	0.84	0.002	0.06	<0.1	5.6	0.09	0.02	170	1.0	<0.02	2.2	1.48	<0.1	0.05
612241	Soil	19.3	28.5	0.69	95.8	0.002	1	1.09	0.002	0.05	<0.1	5.1	0.07	0.04	154	1.1	<0.02	3.3	1.11	<0.1	0.04
612242	Soil	13.2	28.2	0.55	115.2	0.004	1	1.07	0.003	0.05	<0.1	4.2	0.10	0.05	177	0.5	0.02	3.3	1.64	<0.1	0.07
612243	Soil	13.3	30.3	0.62	105.8	0.005	2	1.22	0.003	0.08	<0.1	5.0	0.14	0.08	222	1.4	0.04	3.4	5.57	<0.1	0.06
612244	Soil	9.1	20.7	0.42	120.1	0.006	3	1.00	0.004	0.07	<0.1	3.6	0.12	0.08	208	0.2	<0.02	3.1	2.84	<0.1	0.05
612245	Soil	7.7	14.6	0.21	92.1	0.004	<1	1.11	<0.001	0.04	<0.1	1.7	0.11	<0.02	232	<0.1	0.03	4.4	1.39	<0.1	<0.02
612246	Soil	12.6	21.1	0.28	121.3	0.003	2	1.68	0.001	0.04	<0.1	3.2	0.09	0.03	321	0.4	0.06	3.0	1.88	<0.1	0.03
612247	Soil	5.3	20.5	0.26	48.8	0.003	<1	1.15	<0.001	0.04	<0.1	1.8	0.09	<0.02	78	<0.1	0.06	4.0	1.74	<0.1	0.03
612248	Soil	11.2	32.8	0.60	81.3	0.006	2	1.51	<0.001	0.10	<0.1	3.7	0.12	0.02	71	<0.1	0.02	4.7	9.54	<0.1	0.03
612249	Soil	17.5	31.7	0.50	172.7	0.011	1	2.00	0.005	0.05	0.2	3.8	0.10	<0.02	98	0.3	<0.02	5.4	2.08	<0.1	0.04
612250	Soil	15.0	30.3	0.59	93.7	0.007	<1	1.80	0.002	0.06	<0.1	3.9	0.13	0.04	85	0.1	0.04	4.9	2.66	<0.1	0.05
612064	Soil	10.8	11.9	0.17	134.4	0.002	1	0.96	0.004	0.08	<0.1	7.6	0.23	0.09	97	0.2	0.09	1.7	3.76	0.2	0.04
612065	Soil	3.1	7.8	0.10	113.8	<0.001	1	0.46	0.003	0.09	<0.1	6.8	0.10	0.05	43	0.5	0.07	1.2	2.76	<0.1	0.06
612066	Soil	2.5	6.5	0.08	47.0	<0.001	1	0.42	0.004	0.06	<0.1	5.1	0.15	0.04	72	0.6	0.09	1.0	2.34	<0.1	0.05
612067	Soil	8.3	16.6	0.26	116.2	0.002	2	0.99	0.002	0.07	<0.1	6.1	0.08	0.05	48	0.5	0.04	2.7	2.01	<0.1	0.05
612068	Soil	6.7	22.3	0.42	147.6	0.002	3	1.46	0.001	0.11	<0.1	11.2	0.12	0.03	66	0.5	0.13	4.1	4.34	<0.1	0.11
612069	Soil	5.5	13.7	0.14	104.7	0.001	2	0.79	0.002	0.08	<0.1	5.7	0.10	0.03	34	<0.1	0.04	2.6	2.73	<0.1	0.06
612070	Soil	5.6	11.3	0.08	64.6	<0.001	1	0.27	0.002	0.08	<0.1	3.6	0.05	<0.02	29	<0.1	0.05	1.1	1.49	<0.1	0.02
612071	Soil	5.2	7.1	0.06	79.5	<0.001	<1	0.23	0.002	0.06	<0.1	2.9	0.12	<0.02	35	<0.1	0.03	0.8	1.77	<0.1	0.04
612072	Soil	3.8	10.6	0.09	44.4	0.003	<1	0.45	0.001	0.04	<0.1	1.5	0.06	<0.02	20	0.1	<0.02	1.9	2.16	<0.1	<0.02
612073	Soil	5.6	16.8	0.13	59.8	0.009	2	0.92	0.002	0.05	0.1	1.2	0.11	0.04	20	0.1	<0.02	3.9	1.70	<0.1	<0.02
612074	Soil	4.7	21.8	0.21	60.6	0.004	1	1.34	0.001	0.04	<0.1	1.1	0.11	0.04	35	0.2	0.10	3.6	1.64	<0.1	<0.02
612075	Soil	4.8	18.6	0.15	60.2	0.008	2	0.90	0.002	0.05	<0.1	1.2	0.07	0.08	44	0.2	<0.02	3.3	1.70	<0.1	<0.02
612076	Soil	5.4	20.5	0.21	57.0	0.007	2	1.36	0.001	0.05	<0.1	1.0	0.10	0.07	51	0.4	0.06	3.7	1.98	<0.1	<0.02
612077	Soil	8.8	20.5	0.32	80.1	0.019	2	1.18	0.002	0.05	<0.1	2.8	0.07	<0.02	25	0.2	0.04	3.3	2.01	<0.1	<0.02
612078	Soil	6.3	21.0	0.28	100.9	0.005	1	1.36	0.002	0.04	<0.1	1.0	0.14	0.05	33	<0.1	<0.02	3.9	1.52	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 6 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
612236	Soil	0.12	5.4	6.4	<0.05	1.8	27.43	46.0	0.04	<1	1.3	4.2	<10	<2
612237	Soil	0.31	6.3	5.3	<0.05	1.5	15.13	26.5	0.03	<1	0.8	4.0	<10	<2
612238	Soil	0.10	4.8	>100	<0.05	3.5	14.18	26.5	<0.02	<1	0.4	2.4	<10	<2
612239	Soil	0.13	6.7	2.5	<0.05	2.1	5.13	20.1	<0.02	<1	0.2	4.2	<10	<2
612240	Soil	0.15	6.8	41.1	<0.05	1.6	15.70	46.1	<0.02	<1	0.8	13.5	<10	<2
612241	Soil	0.30	6.4	3.1	<0.05	2.3	13.27	37.7	0.04	<1	0.7	25.5	<10	<2
612242	Soil	0.36	8.2	3.9	<0.05	2.0	8.42	26.0	0.04	<1	0.6	18.8	<10	<2
612243	Soil	0.36	12.9	10.4	<0.05	2.6	13.85	25.2	0.03	<1	0.7	20.3	<10	<2
612244	Soil	0.43	10.6	6.1	<0.05	2.1	6.62	20.0	0.03	<1	0.1	12.6	<10	<2
612245	Soil	0.37	10.4	9.8	<0.05	0.6	2.88	18.0	<0.02	<1	0.1	17.0	<10	<2
612246	Soil	0.38	9.7	4.9	<0.05	1.3	11.35	55.6	0.04	<1	1.4	21.8	<10	<2
612247	Soil	0.35	10.8	61.0	<0.05	1.3	2.53	13.2	<0.02	<1	0.5	16.4	<10	<2
612248	Soil	0.26	16.4	15.4	<0.05	1.0	10.31	27.8	<0.02	<1	1.0	31.7	<10	<2
612249	Soil	0.91	11.3	30.5	<0.05	1.5	10.48	50.2	<0.02	<1	1.5	28.9	<10	<2
612250	Soil	0.47	12.4	19.0	<0.05	1.6	8.31	43.1	<0.02	<1	0.3	38.1	<10	<2
612064	Soil	0.08	9.5	>100	<0.05	1.9	36.24	32.9	<0.02	<1	1.8	13.1	<10	<2
612065	Soil	0.05	7.1	7.9	<0.05	2.5	15.73	7.3	0.03	<1	1.3	6.3	<10	<2
612066	Soil	0.03	8.4	23.2	<0.05	1.8	10.60	7.2	<0.02	<1	0.9	3.5	<10	<2
612067	Soil	0.16	7.8	5.2	<0.05	1.5	22.44	15.9	0.04	<1	1.5	21.1	<10	<2
612068	Soil	0.13	10.7	38.6	<0.05	3.9	27.80	13.7	<0.02	<1	1.2	45.4	<10	<2
612069	Soil	0.09	9.6	8.9	<0.05	1.8	12.69	10.0	0.05	<1	1.2	12.1	<10	<2
612070	Soil	<0.02	5.0	32.2	<0.05	1.4	5.89	12.1	<0.02	<1	0.9	1.9	<10	<2
612071	Soil	<0.02	4.3	2.0	<0.05	3.3	5.48	10.6	0.02	<1	0.7	2.5	<10	<2
612072	Soil	0.10	6.2	11.7	<0.05	0.4	2.50	7.9	<0.02	<1	0.1	5.3	<10	<2
612073	Soil	0.33	7.3	10.1	<0.05	<0.1	3.23	13.0	0.02	<1	0.3	7.2	<10	<2
612074	Soil	0.28	7.6	6.4	<0.05	0.2	3.65	12.6	<0.02	1	0.7	17.3	<10	<2
612075	Soil	0.33	7.6	6.0	<0.05	<0.1	3.69	11.4	<0.02	1	0.4	10.6	<10	<2
612076	Soil	0.31	8.3	3.1	<0.05	<0.1	4.10	13.1	<0.02	<1	0.6	17.2	<10	<2
612077	Soil	0.27	5.9	4.7	<0.05	0.1	6.43	19.9	0.02	1	0.7	22.6	<10	<2
612078	Soil	0.27	8.7	1.3	<0.05	<0.1	4.13	15.6	0.03	<1	0.6	19.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612079	Soil			1.12	41.10	31.91	95.0	191	42.1	23.3	493	4.05	20.1	0.9	2.7	4.2	56.8	0.16	0.76	0.32	21	0.65	0.055
612080	Soil			0.69	38.56	25.26	94.9	114	29.4	13.6	316	3.24	13.6	1.1	1.8	2.0	80.5	0.16	0.40	0.35	16	1.11	0.079
612081	Soil			0.95	36.99	17.12	83.6	219	24.8	10.1	269	2.43	18.9	2.1	10.2	1.4	101.3	0.36	1.14	0.22	18	2.59	0.068
612082	Soil			0.61	36.04	21.85	105.1	149	31.3	12.2	242	2.94	43.3	1.5	6.4	2.2	39.0	0.26	2.27	0.23	16	0.74	0.069
612083	Soil			0.68	30.94	20.31	99.2	138	29.5	10.4	207	2.82	20.3	1.4	5.1	2.3	47.0	0.19	0.97	0.22	19	0.81	0.060
612084	Soil			0.59	37.40	17.94	97.6	179	36.3	14.9	329	3.14	10.7	1.4	3.8	3.2	32.4	0.24	0.65	0.23	24	0.84	0.062
612085	Soil			0.62	27.88	17.50	96.2	180	31.9	13.6	282	3.06	9.3	1.1	2.1	5.5	20.2	0.12	0.56	0.24	30	0.48	0.053
612086	Soil			0.97	39.31	19.88	120.7	151	31.3	14.7	457	3.30	16.9	1.8	3.9	3.0	31.5	0.31	1.10	0.25	35	0.59	0.100
612087	Soil			0.70	39.94	22.48	109.7	124	37.5	15.1	491	3.29	16.4	0.7	4.6	4.2	31.6	0.16	1.23	0.26	28	0.71	0.081
612088	Soil			0.64	31.89	19.50	106.3	126	33.7	15.1	373	3.12	16.0	1.7	3.9	3.5	32.2	0.18	2.60	0.23	29	0.61	0.074
612089	Soil			0.74	40.81	21.12	90.4	123	30.8	14.0	217	2.34	22.7	2.9	5.3	4.1	96.6	0.19	2.34	0.27	17	2.94	0.132
612090	Soil			0.59	39.41	23.45	82.2	69	31.8	15.6	196	2.13	14.2	1.6	1.9	4.1	185.5	0.11	0.92	0.39	8	5.59	0.064
612091	Soil			1.13	46.22	25.58	87.4	70	32.5	15.9	399	2.82	17.1	1.7	1.6	4.7	154.6	0.13	1.39	0.44	9	4.45	0.055
612092	Soil			1.41	39.27	25.99	117.0	308	30.6	11.6	186	1.98	30.8	4.8	7.7	2.7	87.0	0.37	3.91	0.24	19	0.61	0.062
612093	Soil			0.72	26.70	22.93	74.4	45	24.6	13.6	419	3.35	22.2	1.0	1.6	2.6	31.9	0.15	0.74	0.30	22	0.35	0.041
612094	Soil			0.75	31.50	22.29	77.6	106	30.8	14.1	634	3.15	29.0	1.7	1.9	4.6	43.8	0.29	1.66	0.27	19	0.54	0.068
612095	Soil			0.70	30.53	18.60	82.5	51	29.6	12.1	332	2.85	31.3	1.4	1.8	3.6	55.5	0.22	1.01	0.28	19	0.49	0.043
612096	Soil			0.67	37.95	25.19	93.4	117	33.8	16.2	473	3.09	16.0	0.9	2.5	4.8	176.2	0.15	0.66	0.31	20	2.48	0.066
612097	Soil			0.73	33.21	17.93	94.2	102	29.4	12.1	356	2.92	21.9	1.3	4.1	3.9	47.8	0.22	0.76	0.26	22	1.20	0.065
612098	Soil			0.88	39.59	20.68	103.0	123	37.5	16.3	409	3.04	14.3	0.9	2.9	5.9	86.9	0.19	0.87	0.30	23	3.01	0.082
612099	Soil			0.65	37.22	25.45	87.9	133	33.6	17.2	655	3.68	13.0	0.9	1.8	4.4	39.3	0.12	0.54	0.33	21	0.49	0.050
612100	Soil			0.64	34.06	27.27	92.8	55	34.2	17.5	513	3.61	12.2	0.7	2.8	4.3	18.4	0.17	0.53	0.29	24	0.16	0.035
118349	Soil			0.72	28.11	15.56	87.9	57	17.3	10.9	413	3.00	5.6	0.3	0.4	2.3	8.0	0.16	0.51	0.26	27	0.04	0.030
118350	Soil			1.02	12.75	24.26	56.6	42	12.7	5.9	364	2.60	11.3	0.3	0.8	0.4	8.4	0.09	0.55	0.21	24	0.04	0.041
612001	Soil			0.65	38.43	17.18	89.4	112	30.5	13.2	333	2.92	15.6	1.2	3.0	5.6	112.9	0.16	0.78	0.29	21	2.69	0.080
612002	Soil			0.84	38.56	28.29	82.0	162	32.5	15.5	489	3.22	14.4	1.1	3.5	4.3	116.1	0.14	0.58	0.30	19	2.72	0.064
612003	Soil			0.59	33.91	18.01	79.8	111	24.5	8.7	136	1.98	19.3	3.3	5.6	5.9	237.4	0.24	0.77	0.22	18	3.46	0.078
612004	Soil			0.69	44.04	28.73	94.1	69	35.3	16.4	506	3.77	17.4	1.3	1.4	5.1	70.9	0.16	0.57	0.35	23	0.66	0.045
612005	Soil			0.55	37.96	22.37	84.0	114	31.1	15.3	627	3.37	11.7	1.2	1.6	3.3	63.2	0.15	0.43	0.31	19	0.82	0.058
612006	Soil			0.75	39.00	26.84	91.5	88	31.9	16.7	641	3.37	15.4	1.3	1.6	3.8	67.8	0.12	0.47	0.30	19	1.01	0.041



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
612079	Soil	13.3	18.6	0.46	135.4	0.006	4	1.23	0.004	0.07	<0.1	7.3	0.09	0.03	128	<0.1	0.06	3.5	2.03	<0.1	0.10
612080	Soil	12.4	16.4	0.46	100.4	0.003	3	1.13	0.004	0.07	<0.1	4.4	0.06	0.06	69	0.4	0.07	2.9	1.15	<0.1	0.06
612081	Soil	12.7	12.4	0.71	111.2	0.003	3	0.47	0.005	0.07	<0.1	3.7	0.13	0.04	249	0.8	0.05	1.2	1.23	<0.1	0.05
612082	Soil	15.7	14.6	0.17	85.2	0.003	3	0.53	0.003	0.07	<0.1	5.4	0.10	0.05	235	0.6	<0.02	1.3	1.00	<0.1	0.08
612083	Soil	16.9	20.4	0.31	125.5	0.004	4	0.69	0.002	0.06	<0.1	5.3	0.09	0.05	112	0.8	0.03	2.0	1.24	<0.1	0.09
612084	Soil	25.1	30.5	0.49	292.7	0.002	4	0.74	0.003	0.09	<0.1	5.5	0.11	0.05	128	1.0	0.05	2.0	1.94	<0.1	0.13
612085	Soil	26.2	46.1	1.38	181.8	0.006	2	1.63	0.001	0.07	<0.1	7.1	0.10	0.03	80	1.0	<0.02	4.7	3.60	<0.1	0.09
612086	Soil	24.1	42.6	1.14	177.0	0.010	4	1.59	0.003	0.07	<0.1	7.6	0.20	0.06	120	1.4	<0.02	4.6	11.68	<0.1	0.11
612087	Soil	20.3	47.2	1.13	102.7	0.004	5	1.31	0.001	0.09	<0.1	6.8	0.12	0.05	91	1.0	<0.02	3.9	2.48	<0.1	0.13
612088	Soil	24.1	47.8	1.14	421.5	0.005	4	1.33	0.002	0.08	<0.1	5.7	0.11	0.06	99	1.4	<0.02	4.3	2.36	<0.1	0.11
612089	Soil	16.6	17.8	0.84	93.0	0.003	3	0.72	0.002	0.09	<0.1	3.9	0.16	<0.02	417	1.6	0.05	2.1	2.21	<0.1	0.06
612090	Soil	5.3	8.8	0.40	35.4	<0.001	3	0.32	0.003	0.08	<0.1	4.6	0.11	0.03	99	0.4	0.08	0.9	0.87	<0.1	0.05
612091	Soil	6.2	8.2	0.44	31.0	<0.001	2	0.31	0.004	0.06	<0.1	5.9	0.14	<0.02	379	0.5	0.09	1.0	0.86	<0.1	0.03
612092	Soil	15.2	13.6	0.19	44.2	0.002	3	0.46	0.002	0.06	<0.1	4.2	0.17	0.03	956	0.7	<0.02	1.4	1.39	<0.1	0.10
612093	Soil	9.9	14.8	0.12	90.6	0.003	2	0.92	0.002	0.06	<0.1	3.9	0.11	0.02	177	0.2	0.07	2.2	1.06	<0.1	0.03
612094	Soil	16.2	17.4	0.19	80.4	0.004	2	0.91	0.002	0.05	<0.1	5.6	0.09	0.02	651	0.3	0.04	1.9	1.09	<0.1	0.07
612095	Soil	10.3	17.3	0.19	88.3	0.002	2	0.79	0.002	0.08	<0.1	5.0	0.11	<0.02	445	0.4	0.05	2.0	0.72	<0.1	0.07
612096	Soil	9.8	23.1	0.66	120.1	0.004	3	1.18	0.003	0.10	<0.1	4.6	0.09	<0.02	268	0.3	0.03	3.1	2.03	<0.1	0.08
612097	Soil	15.4	21.4	0.58	73.9	0.005	4	0.74	0.004	0.12	<0.1	4.6	0.10	0.02	284	0.6	<0.02	2.1	1.00	<0.1	0.07
612098	Soil	15.9	22.7	1.16	124.8	0.012	4	1.13	0.007	0.11	<0.1	4.7	0.15	<0.02	105	0.2	0.08	2.9	4.28	<0.1	0.09
612099	Soil	9.6	24.2	0.58	84.7	0.004	4	1.51	0.003	0.12	<0.1	5.9	0.08	0.02	108	0.3	0.05	4.0	1.44	<0.1	0.10
612100	Soil	9.7	23.6	0.54	71.6	0.004	3	1.58	0.003	0.07	<0.1	4.8	0.08	<0.02	91	0.2	<0.02	3.8	1.68	<0.1	0.07
118349	Soil	4.4	11.7	0.06	62.4	0.003	1	0.69	0.004	0.08	<0.1	2.2	0.07	<0.02	34	0.1	0.04	3.5	1.49	<0.1	<0.02
118350	Soil	5.0	11.7	0.05	53.1	0.008	2	0.42	0.002	0.05	<0.1	1.2	0.05	0.03	44	<0.1	0.02	2.8	1.81	<0.1	<0.02
612001	Soil	14.9	23.9	1.10	74.6	0.007	3	1.14	0.005	0.09	<0.1	5.3	0.09	<0.02	231	0.3	0.07	3.0	2.13	<0.1	0.05
612002	Soil	9.9	20.2	0.71	67.9	0.004	4	1.24	0.003	0.10	<0.1	4.6	0.09	<0.02	210	0.3	0.05	3.0	1.81	<0.1	0.05
612003	Soil	18.4	17.4	0.45	87.1	0.003	2	0.64	0.001	0.08	<0.1	4.3	0.12	<0.02	245	1.1	0.06	2.0	2.11	<0.1	0.08
612004	Soil	12.7	23.7	0.54	113.9	0.002	4	1.57	0.002	0.10	<0.1	6.6	0.12	<0.02	114	0.3	0.08	3.9	1.72	<0.1	0.08
612005	Soil	11.7	21.5	0.44	97.2	0.003	4	1.39	0.003	0.10	<0.1	7.5	0.07	0.04	98	0.2	0.06	3.5	1.53	<0.1	0.08
612006	Soil	9.0	24.1	0.55	91.6	0.002	5	1.22	0.004	0.11	<0.1	5.8	0.08	0.04	170	0.2	0.06	3.4	1.79	<0.1	0.09



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 7 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
612079	Soil	0.25	5.8	1.5	<0.05	3.0	20.82	26.4	0.03	1	1.0	30.1	<10	<2
612080	Soil	0.15	4.8	1.4	<0.05	2.1	18.67	25.7	0.04	<1	1.1	28.6	<10	<2
612081	Soil	0.14	4.8	1.7	<0.05	1.4	13.77	23.8	0.02	1	0.6	7.7	<10	<2
612082	Soil	0.13	4.3	4.2	<0.05	2.7	17.74	32.2	0.02	1	0.7	6.7	<10	<2
612083	Soil	0.19	5.8	5.7	<0.05	2.5	15.75	34.1	0.02	<1	0.8	11.6	<10	<2
612084	Soil	0.13	6.1	2.8	<0.05	4.1	15.11	50.4	0.03	<1	0.9	12.1	10	<2
612085	Soil	0.30	7.3	4.0	<0.05	3.2	15.68	53.7	0.02	2	1.0	48.1	<10	<2
612086	Soil	0.31	12.9	3.0	<0.05	2.9	26.47	46.1	0.04	<1	0.9	37.6	<10	<2
612087	Soil	0.19	5.8	4.8	<0.05	4.1	17.40	45.1	<0.02	<1	0.6	37.6	<10	<2
612088	Soil	0.16	8.3	2.8	<0.05	4.9	16.75	50.9	0.03	<1	0.8	36.4	<10	<2
612089	Soil	0.10	5.9	0.4	<0.05	3.1	10.20	34.9	0.03	<1	1.0	15.2	12	2
612090	Soil	0.03	4.4	3.1	<0.05	2.2	11.58	14.8	0.03	2	0.7	4.6	<10	3
612091	Soil	0.05	3.6	0.7	<0.05	2.2	13.95	18.4	0.04	2	0.8	5.6	11	<2
612092	Soil	0.09	4.3	2.8	<0.05	2.9	13.77	32.7	0.03	2	0.7	10.7	12	<2
612093	Soil	0.22	7.8	0.4	<0.05	0.8	10.99	27.6	0.04	1	0.9	12.8	<10	<2
612094	Soil	0.23	6.8	3.0	<0.05	2.2	18.56	37.9	0.04	<1	0.8	15.4	<10	<2
612095	Soil	0.18	5.7	0.5	<0.05	2.3	10.62	23.5	0.04	<1	0.6	13.4	<10	<2
612096	Soil	0.09	6.0	4.8	<0.05	4.3	9.30	22.1	0.03	1	0.6	27.6	<10	<2
612097	Soil	0.19	6.5	0.5	<0.05	2.1	11.38	33.3	0.04	2	0.8	14.5	10	<2
612098	Soil	0.22	7.6	1.5	<0.05	3.4	10.85	34.9	0.02	<1	0.7	22.4	<10	<2
612099	Soil	0.23	8.0	0.7	<0.05	3.7	15.89	22.6	0.04	2	1.1	41.8	<10	<2
612100	Soil	0.24	7.7	3.1	<0.05	2.8	12.30	25.4	0.03	<1	1.0	40.8	<10	<2
118349	Soil	0.24	12.4	0.7	<0.05	0.8	2.27	9.7	0.03	2	0.3	6.6	<10	<2
118350	Soil	0.21	8.8	7.3	<0.05	<0.1	1.57	11.1	<0.02	<1	0.3	2.4	<10	<2
612001	Soil	0.17	6.1	0.7	<0.05	3.0	11.42	30.8	0.03	1	0.8	29.1	<10	<2
612002	Soil	0.14	5.8	6.1	<0.05	2.3	11.16	20.5	0.02	2	0.9	29.1	<10	2
612003	Soil	0.10	7.7	1.2	<0.05	4.3	10.69	39.1	0.03	2	0.8	13.0	<10	<2
612004	Soil	0.17	7.7	2.3	<0.05	3.3	15.50	29.2	0.04	<1	1.1	38.1	<10	<2
612005	Soil	0.17	6.4	1.0	<0.05	2.5	20.85	25.9	0.04	<1	1.3	35.4	<10	<2
612006	Soil	0.19	6.8	5.5	<0.05	3.7	10.39	22.4	<0.02	2	1.1	32.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612007	Soil			0.60	37.78	19.95	78.8	97	31.5	14.7	475	3.32	16.4	1.4	4.9	3.7	59.7	0.18	0.66	0.35	19	1.03	0.033
612008	Soil			0.72	38.30	26.59	84.3	141	33.1	14.9	534	3.60	11.9	1.0	1.7	4.6	41.0	0.13	0.59	0.33	22	0.38	0.053
612009	Soil			0.24	55.95	23.27	109.7	78	39.6	20.9	321	4.01	12.9	0.7	1.4	5.8	26.9	0.08	0.63	0.46	16	0.11	0.039
612010	Soil			0.36	26.30	25.83	70.6	39	25.0	12.1	558	3.32	6.5	0.5	0.6	2.2	18.9	0.07	0.37	0.26	17	0.12	0.042
612011	Soil			0.36	51.46	24.21	108.8	36	38.5	18.9	412	4.06	16.0	0.7	1.5	3.3	16.9	0.08	0.54	0.40	20	0.07	0.031
612012	Soil			0.87	28.05	35.03	97.1	200	24.1	15.8	818	4.71	13.1	0.6	1.5	0.5	18.5	0.14	0.52	0.40	31	0.14	0.106
612013	Soil			0.75	35.69	33.50	90.3	112	27.3	19.6	1527	4.18	15.4	0.6	0.9	1.4	10.9	0.13	0.54	0.37	30	0.03	0.085
612014	Soil			0.51	19.72	15.59	45.3	28	11.3	5.4	113	2.21	4.3	0.4	0.8	1.5	8.1	0.04	0.23	0.23	30	0.04	0.034
612015	Soil			0.40	42.10	28.64	100.6	132	40.3	18.4	543	4.12	17.7	0.8	0.5	3.5	33.2	0.05	0.45	0.44	19	0.26	0.034
612016	Soil			0.75	31.70	18.46	79.7	220	15.1	12.6	958	2.92	5.7	0.5	0.4	0.5	9.2	0.14	0.37	0.37	35	0.02	0.058
612017	Soil			0.63	35.09	22.91	78.2	83	27.0	13.6	519	3.70	5.2	0.4	0.2	2.7	10.4	0.06	0.25	0.37	31	0.03	0.039
612018	Soil			0.58	39.22	25.88	86.8	58	35.0	15.7	413	3.85	8.1	0.6	1.5	3.5	16.1	0.06	0.36	0.39	27	0.09	0.046
612019	Soil			0.41	42.22	18.15	82.6	55	28.4	13.7	204	3.61	11.7	0.5	1.9	1.6	15.1	0.07	0.37	0.38	23	0.04	0.042
612020	Soil			0.86	22.02	15.01	62.8	112	15.1	6.4	235	2.47	6.5	0.6	1.5	0.3	9.8	0.07	0.42	0.30	31	0.04	0.069
612021	Soil			0.85	21.59	14.60	89.2	73	22.2	8.1	316	2.67	9.2	0.7	2.2	0.5	16.2	0.13	0.50	0.25	36	0.12	0.072
612022	Soil			0.70	39.82	31.67	105.4	49	33.8	16.3	832	4.31	20.4	0.6	3.0	2.9	21.2	0.08	0.59	0.40	24	0.09	0.065
612023	Soil			0.80	37.95	36.06	106.6	99	34.3	19.3	896	4.73	17.5	0.7	0.8	2.4	20.3	0.14	0.74	0.38	25	0.09	0.066
612024	Soil			0.92	35.46	33.30	104.0	35	26.1	12.9	634	4.63	19.5	0.5	1.5	0.7	13.7	0.08	1.19	0.43	27	0.01	0.062
612025	Soil			1.06	26.05	14.53	73.0	43	16.9	7.1	238	3.02	11.8	0.5	0.9	0.3	9.5	0.08	0.59	0.31	35	0.02	0.067
612026	Soil			1.03	27.42	21.36	101.3	297	27.5	11.7	535	2.78	29.3	2.5	12.2	1.9	89.7	0.44	4.27	0.22	29	1.01	0.059
612027	Soil			0.70	25.68	15.36	73.6	232	21.2	7.7	180	1.59	38.0	4.4	12.1	3.6	383.4	0.28	3.63	0.13	12	8.44	0.042
612028	Soil			1.28	20.12	14.07	58.9	263	19.5	6.0	194	1.37	21.9	4.1	11.2	5.0	375.1	0.31	3.60	0.09	12	11.08	0.063
612029	Soil			0.96	27.91	20.08	72.0	183	20.7	7.7	250	1.63	25.9	2.2	13.4	4.2	213.6	0.22	3.10	0.13	10	6.11	0.081
612030	Soil			0.40	33.25	14.19	85.1	77	31.9	12.1	206	2.66	16.4	1.5	5.1	3.2	34.0	0.10	0.91	0.24	15	0.69	0.052
612031	Soil			1.46	22.42	18.46	86.3	199	23.6	8.1	208	1.96	45.3	2.1	5.7	3.0	83.9	0.18	4.88	0.17	14	1.71	0.041
612032	Soil			0.79	21.01	13.02	65.5	18	15.9	8.4	214	2.46	15.0	0.6	<0.2	1.9	28.0	0.10	0.59	0.27	26	0.22	0.036
612033	Soil			0.83	18.84	12.14	46.1	10	12.8	5.7	115	2.03	15.4	0.4	0.5	1.0	9.5	0.04	0.48	0.24	26	0.01	0.033
612034	Soil			0.64	27.14	19.39	71.3	17	24.1	11.7	315	3.08	19.5	0.6	1.9	2.4	27.6	0.05	0.58	0.28	23	0.10	0.032
612035	Soil			0.67	16.90	16.73	62.4	21	15.5	6.2	119	1.91	37.8	0.6	0.7	2.2	55.2	0.07	0.95	0.25	23	0.09	0.042
612036	Soil			0.58	29.35	17.06	88.8	91	27.7	10.3	265	2.66	34.7	0.9	2.4	2.4	81.4	0.10	0.71	0.27	21	0.75	0.080



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	
612007	Soil	12.3	22.8	0.47	90.9	0.002	4	1.19	0.002	0.09	<0.1	6.2	0.09	<0.02	285	0.6	<0.02	3.2	1.47	<0.1	0.09
612008	Soil	11.0	24.6	0.63	91.9	0.004	3	1.57	0.002	0.08	<0.1	6.8	0.07	<0.02	113	0.4	0.02	3.9	1.68	<0.1	0.05
612009	Soil	8.0	12.9	0.12	77.2	0.001	2	0.36	0.002	0.07	<0.1	4.5	0.06	<0.02	67	0.3	<0.02	1.5	1.99	<0.1	0.05
612010	Soil	5.9	15.0	0.14	106.0	0.002	2	0.62	0.002	0.07	<0.1	2.7	0.07	<0.02	43	0.2	<0.02	2.4	3.29	<0.1	<0.02
612011	Soil	4.9	14.9	0.10	44.8	0.001	1	0.32	0.002	0.07	<0.1	3.7	0.08	<0.02	101	0.2	<0.02	1.5	1.12	<0.1	<0.02
612012	Soil	4.9	26.2	0.30	88.1	0.006	3	1.49	0.003	0.09	<0.1	1.5	0.09	0.07	48	0.3	<0.02	5.2	3.88	<0.1	<0.02
612013	Soil	4.8	25.7	0.47	67.6	0.007	4	1.80	<0.001	0.08	<0.1	2.2	0.10	0.04	29	0.3	<0.02	5.0	4.23	<0.1	0.02
612014	Soil	4.0	14.2	0.08	42.8	0.002	2	1.33	0.001	0.04	<0.1	1.4	0.08	<0.02	17	0.1	<0.02	5.0	1.79	<0.1	0.05
612015	Soil	8.7	18.9	0.26	116.4	0.002	2	1.11	0.002	0.08	<0.1	5.5	0.09	<0.02	60	0.4	0.04	3.1	4.16	<0.1	0.04
612016	Soil	4.6	21.0	0.11	102.7	0.006	1	1.02	0.001	0.11	<0.1	1.2	0.11	0.03	40	0.2	<0.02	5.6	6.76	<0.1	<0.02
612017	Soil	4.8	27.2	0.33	81.5	0.003	2	1.70	<0.001	0.09	<0.1	2.4	0.13	<0.02	26	0.3	<0.02	6.0	7.20	<0.1	0.03
612018	Soil	6.0	26.6	0.35	112.0	0.003	2	1.44	<0.001	0.07	<0.1	3.1	0.11	<0.02	45	0.3	<0.02	4.9	5.38	<0.1	0.04
612019	Soil	5.0	15.4	0.12	56.5	0.002	2	0.66	0.001	0.06	<0.1	2.2	0.07	<0.02	37	0.3	<0.02	2.2	2.09	<0.1	<0.02
612020	Soil	5.7	18.5	0.16	64.8	0.005	2	1.01	0.002	0.06	<0.1	1.0	0.12	0.05	30	0.3	<0.02	4.1	2.76	<0.1	<0.02
612021	Soil	9.3	24.9	0.38	100.2	0.008	2	1.44	0.003	0.06	0.1	1.5	0.10	0.03	58	0.3	<0.02	4.5	3.43	<0.1	<0.02
612022	Soil	6.7	24.2	0.39	79.7	0.003	3	1.46	0.004	0.08	<0.1	4.3	0.09	<0.02	33	0.4	<0.02	4.9	5.96	<0.1	0.03
612023	Soil	7.0	21.4	0.33	67.3	0.004	3	1.36	0.002	0.08	<0.1	3.5	0.10	0.03	41	0.4	<0.02	3.5	6.80	<0.1	<0.02
612024	Soil	5.6	18.7	0.13	63.0	0.004	1	0.89	0.002	0.07	<0.1	2.0	0.13	0.02	41	0.4	<0.02	3.7	5.67	<0.1	<0.02
612025	Soil	6.8	15.8	0.10	43.2	0.005	1	0.80	0.002	0.06	<0.1	0.7	0.11	0.02	32	0.3	<0.02	4.2	3.30	<0.1	<0.02
612026	Soil	17.6	18.8	0.23	87.3	0.006	2	0.82	0.003	0.05	<0.1	4.5	0.14	0.04	639	0.7	<0.02	2.0	0.73	<0.1	0.04
612027	Soil	14.6	8.3	1.93	55.0	0.001	2	0.18	0.006	0.04	<0.1	4.3	0.16	<0.02	584	0.7	<0.02	0.5	1.12	<0.1	0.04
612028	Soil	6.4	6.7	3.58	28.4	<0.001	1	0.13	0.007	0.04	<0.1	2.7	0.15	<0.02	1106	0.9	<0.02	0.3	0.78	<0.1	0.16
612029	Soil	11.5	9.1	2.44	57.9	0.001	3	0.16	0.005	0.05	<0.1	3.8	0.11	<0.02	547	1.1	<0.02	0.5	1.07	<0.1	0.03
612030	Soil	9.5	22.4	0.26	64.7	0.003	6	0.61	0.002	0.07	<0.1	6.8	0.12	0.04	262	1.0	<0.02	1.7	4.48	<0.1	0.10
612031	Soil	11.4	13.8	0.96	44.9	0.002	1	0.28	0.003	0.04	<0.1	3.7	0.23	<0.02	769	1.2	<0.02	0.9	1.73	<0.1	0.03
612032	Soil	6.7	12.4	0.12	101.7	0.003	<1	0.68	<0.001	0.06	<0.1	2.2	0.11	<0.02	136	0.3	<0.02	3.3	1.08	<0.1	<0.02
612033	Soil	5.3	10.7	0.05	44.6	0.002	<1	0.74	0.001	0.04	<0.1	1.4	0.14	<0.02	55	0.1	0.02	3.5	1.27	<0.1	<0.02
612034	Soil	8.3	16.8	0.21	83.4	0.002	1	0.92	<0.001	0.05	<0.1	2.4	0.10	<0.02	140	0.2	<0.02	2.9	1.21	<0.1	<0.02
612035	Soil	11.0	15.9	0.10	71.1	0.002	2	0.70	0.001	0.05	<0.1	1.7	0.16	<0.02	195	0.7	<0.02	3.0	1.08	<0.1	0.03
612036	Soil	11.7	22.2	0.24	83.1	0.002	2	0.78	0.002	0.07	<0.1	3.8	0.14	0.03	197	1.0	<0.02	2.6	1.40	<0.1	0.07



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
612007	Soil			0.21	6.7	0.8	<0.05	2.7	14.54	26.1	0.07	<1	1.3	29.1	<10	<2
612008	Soil			0.21	6.1	4.2	<0.05	2.4	16.63	23.8	0.02	<1	1.2	43.7	<10	<2
612009	Soil			<0.02	4.6	0.5	<0.05	3.9	6.45	18.8	0.04	<1	1.4	7.1	<10	<2
612010	Soil			0.09	6.6	3.1	<0.05	0.7	4.20	14.5	0.03	<1	0.8	13.9	<10	<2
612011	Soil			0.04	4.2	0.6	<0.05	0.5	5.83	13.3	0.04	<1	1.4	5.7	<10	<2
612012	Soil			0.34	12.4	3.4	<0.05	0.2	4.22	12.6	0.03	<1	1.1	31.6	<10	<2
612013	Soil			0.25	11.7	1.0	<0.05	1.0	3.59	12.3	0.04	<1	1.3	43.9	<10	<2
612014	Soil			0.20	6.0	2.1	<0.05	1.4	1.82	8.3	<0.02	<1	0.3	5.1	<10	<2
612015	Soil			0.14	8.0	0.8	<0.05	1.8	12.49	19.1	0.05	<1	1.5	25.8	11	<2
612016	Soil			0.25	21.7	3.0	<0.05	0.2	2.38	10.4	0.02	<1	0.6	7.6	<10	<2
612017	Soil			0.25	15.0	0.7	<0.05	1.1	3.02	11.5	0.03	<1	1.0	35.7	<10	<2
612018	Soil			0.17	10.8	2.6	<0.05	1.1	4.81	16.6	0.03	<1	1.0	39.3	<10	<2
612019	Soil			0.09	6.9	0.7	<0.05	0.6	2.90	11.7	0.04	<1	0.8	8.1	<10	<2
612020	Soil			0.28	13.3	1.4	<0.05	0.1	2.30	11.7	<0.02	<1	0.3	9.4	<10	<2
612021	Soil			0.23	11.5	0.8	<0.05	0.1	5.04	18.8	0.03	<1	0.5	22.7	<10	<2
612022	Soil			0.14	10.0	4.0	<0.05	0.9	7.82	15.8	0.03	<1	1.4	38.3	<10	<2
612023	Soil			0.21	9.0	0.7	<0.05	0.6	6.78	20.0	0.04	<1	1.4	33.9	<10	<2
612024	Soil			0.15	11.9	3.3	<0.05	0.1	3.17	11.9	0.03	<1	0.6	8.8	<10	<2
612025	Soil			0.17	12.0	0.8	<0.05	<0.1	2.16	13.2	<0.02	<1	0.2	5.4	<10	<2
612026	Soil			0.27	5.0	1.0	<0.05	1.2	18.44	35.8	0.03	<1	0.6	9.3	<10	<2
612027	Soil			0.06	2.7	0.5	<0.05	1.6	10.60	29.8	0.02	<1	0.4	2.7	<10	<2
612028	Soil			0.02	1.9	0.6	<0.05	8.2	4.86	13.3	0.02	<1	0.2	2.6	18	<2
612029	Soil			0.03	2.7	3.8	<0.05	1.8	9.22	26.3	<0.02	<1	0.4	2.2	11	<2
612030	Soil			0.16	8.1	0.4	<0.05	2.6	10.81	20.9	0.03	2	0.5	12.2	<10	<2
612031	Soil			0.08	3.4	2.3	<0.05	1.4	7.66	22.4	0.02	<1	0.3	6.3	<10	<2
612032	Soil			0.16	8.3	0.8	<0.05	0.7	3.13	13.8	0.03	<1	0.3	6.8	<10	<2
612033	Soil			0.12	8.9	1.9	<0.05	0.4	1.89	10.2	0.02	<1	0.3	3.1	<10	<2
612034	Soil			0.14	8.1	0.6	<0.05	0.7	4.51	18.1	0.03	<1	0.6	16.2	<10	<2
612035	Soil			0.15	7.2	2.7	<0.05	0.8	3.04	22.8	<0.02	<1	0.3	6.2	<10	<2
612036	Soil			0.20	8.8	0.7	<0.05	1.7	8.04	24.4	0.04	<1	0.6	14.8	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
612037	Soil	0.68	24.09	20.58	98.3	60	28.4	11.4	395	3.03	18.7	1.0	3.1	4.6	67.1	0.11	0.53	0.27	23	0.38	0.064
612038	Soil	0.52	22.09	15.01	83.3	75	22.5	10.8	353	2.80	12.1	0.8	1.2	2.2	40.1	0.05	0.51	0.27	22	0.63	0.082
612039	Soil	0.84	29.83	14.31	62.2	130	20.3	8.9	495	2.37	16.9	1.3	2.0	1.3	68.3	0.13	0.64	0.26	32	1.04	0.152
612040	Soil	0.58	26.47	16.85	96.3	31	23.1	11.7	374	2.88	16.3	0.5	0.5	2.7	24.1	0.08	0.55	0.28	23	0.13	0.049
612041	Soil	0.73	21.45	18.65	86.5	72	20.9	11.7	481	3.06	15.9	1.7	2.1	2.7	50.9	0.11	0.51	0.25	31	0.61	0.059
612042	Soil	0.61	21.17	16.84	82.0	30	23.6	10.4	288	3.35	14.5	0.9	0.7	2.8	21.7	0.10	0.34	0.26	28	0.14	0.021
612043	Soil	0.53	27.28	21.46	93.1	38	33.7	12.1	384	3.67	8.8	0.8	1.8	4.8	19.2	0.12	0.96	0.32	24	0.12	0.036
612044	Soil	0.62	18.35	16.61	71.2	47	20.7	8.3	227	3.78	12.0	0.5	0.9	2.7	11.9	0.11	0.60	0.31	30	0.04	0.027
612045	Soil	0.64	34.27	21.48	79.1	121	27.5	11.9	283	2.93	9.6	0.9	5.1	6.2	61.9	0.18	0.87	0.26	17	1.21	0.054
612801	Soil	0.71	34.27	30.18	135.3	116	32.3	13.2	452	3.25	12.5	0.8	2.3	4.6	38.0	0.26	0.82	0.32	27	0.74	0.075
612802	Soil	0.81	30.08	32.64	116.2	124	30.9	12.9	451	3.33	12.0	0.7	2.0	4.5	23.6	0.20	0.78	0.31	26	0.32	0.060
612803	Soil	0.75	22.46	33.77	95.5	201	19.6	14.6	1335	3.01	17.1	0.6	0.6	0.8	31.8	0.33	1.17	0.31	21	0.38	0.097
612804	Soil	0.85	26.66	30.25	221.0	269	20.2	13.8	1047	3.17	11.1	0.5	0.3	0.2	25.4	0.67	0.54	0.39	30	0.19	0.116
612805	Soil	0.80	28.75	31.81	96.1	213	20.4	17.5	1240	3.13	12.9	0.6	1.2	0.2	13.9	0.25	0.55	0.39	28	0.05	0.101
612806	Soil	1.01	24.42	41.91	112.1	115	18.9	16.9	1361	4.43	12.5	0.4	0.7	0.6	14.3	0.34	0.53	0.39	38	0.05	0.086
612807	Soil	0.88	31.40	37.24	85.7	47	29.1	19.5	1094	3.58	14.9	0.5	1.0	1.3	14.4	0.10	0.67	0.30	30	0.06	0.036
612808	Soil	1.15	38.91	60.57	95.9	220	27.2	31.3	1896	4.53	20.8	0.8	1.0	1.7	17.1	0.13	0.73	0.38	34	0.08	0.107
612809	Soil	1.40	20.65	22.21	58.7	70	17.9	9.2	453	3.68	10.5	0.6	0.8	0.4	7.8	0.13	0.68	0.29	43	0.05	0.062
612810	Soil	1.77	18.71	13.41	56.6	49	12.6	5.7	363	2.11	7.3	0.5	0.4	0.2	7.0	0.12	0.83	0.29	48	0.03	0.055
612811	Soil	1.17	32.99	27.79	92.2	55	28.1	17.5	912	3.62	12.9	0.8	2.6	1.0	13.2	0.22	0.71	0.30	37	0.09	0.105
612812	Soil	1.11	25.65	21.32	74.7	55	19.6	10.3	755	3.37	10.7	0.6	1.2	0.5	11.3	0.13	0.61	0.31	38	0.05	0.084
612813	Soil	1.33	18.64	19.33	70.3	43	17.8	9.5	513	3.02	11.8	0.7	0.7	0.9	11.3	0.15	0.73	0.31	46	0.08	0.045
612814	Soil	0.68	36.62	29.54	93.9	122	31.4	17.3	748	3.34	14.3	1.9	1.5	3.0	56.9	0.16	0.53	0.35	24	0.72	0.077
612815	Soil	0.39	35.60	24.11	99.0	94	21.8	11.4	340	2.73	7.6	1.3	1.3	1.9	80.5	0.19	0.43	0.30	13	1.14	0.073
612816	Soil	1.11	18.37	19.01	78.3	139	21.5	8.6	388	2.45	17.8	4.1	3.1	1.7	56.9	0.60	1.58	0.24	36	0.87	0.057
612817	Soil	1.37	20.31	19.08	81.1	132	17.4	8.8	491	2.55	26.3	1.7	5.7	1.0	50.7	0.31	3.07	0.24	29	0.63	0.078
612818	Soil	0.57	33.86	14.13	103.5	44	22.6	9.9	415	3.04	27.9	0.8	0.6	2.2	33.1	0.47	0.96	0.27	20	0.31	0.044
612819	Soil	0.70	24.52	20.19	105.7	74	29.9	13.0	450	3.93	29.9	0.8	1.8	2.7	30.7	0.20	1.75	0.30	19	0.42	0.090
612820	Soil	0.83	41.25	31.43	125.3	150	49.5	19.6	563	3.93	85.8	0.9	15.3	2.9	58.0	0.27	3.06	0.35	17	0.86	0.096
612821	Soil	0.65	44.17	31.51	121.5	123	42.2	16.0	1094	4.09	25.9	1.3	5.3	2.7	43.0	0.24	1.82	0.35	20	0.54	0.079



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
612037	Soil	16.2	31.1	0.22	79.8	0.002	2	0.79	0.001	0.07	<0.1	4.6	0.10	0.02	168	1.0	<0.02	2.3	1.20	<0.1	0.06
612038	Soil	8.9	25.2	0.47	101.1	0.002	3	1.14	0.002	0.06	<0.1	3.8	0.09	0.05	150	0.5	<0.02	3.3	1.85	<0.1	0.06
612039	Soil	6.8	23.6	0.26	167.0	0.004	2	1.27	0.002	0.07	<0.1	3.8	0.13	0.09	193	0.5	<0.02	4.3	3.21	<0.1	0.06
612040	Soil	11.2	19.8	0.26	66.8	0.002	2	1.04	<0.001	0.07	<0.1	2.3	0.09	<0.02	60	0.3	0.03	3.4	3.26	<0.1	<0.02
612041	Soil	12.7	24.9	0.45	117.5	0.005	2	1.23	0.002	0.06	<0.1	3.7	0.11	0.03	243	0.6	0.06	3.9	1.16	<0.1	0.04
612042	Soil	7.2	23.0	0.41	83.6	0.002	2	1.64	<0.001	0.08	<0.1	2.2	0.09	<0.02	111	0.2	<0.02	4.1	1.36	<0.1	0.03
612043	Soil	11.6	34.9	0.89	74.5	0.002	3	1.76	0.002	0.08	<0.1	4.3	0.10	<0.02	72	<0.1	0.06	4.6	2.65	<0.1	0.04
612044	Soil	7.5	27.6	0.49	51.3	0.003	2	1.47	0.001	0.07	<0.1	2.1	0.08	<0.02	111	0.2	0.05	5.1	1.80	<0.1	0.03
612045	Soil	25.2	24.3	0.85	158.9	0.003	5	0.84	0.005	0.09	<0.1	6.4	0.09	0.04	191	1.0	0.03	2.4	1.36	<0.1	0.06
612801	Soil	11.9	21.7	0.40	118.0	0.010	4	1.18	0.006	0.09	<0.1	3.9	0.10	<0.02	98	0.2	0.04	3.4	1.95	<0.1	0.05
612802	Soil	11.3	22.2	0.42	111.5	0.008	2	1.25	0.005	0.07	<0.1	3.3	0.07	<0.02	84	0.2	0.03	3.2	1.34	<0.1	0.04
612803	Soil	6.3	13.2	0.14	121.8	0.006	3	0.70	0.004	0.12	<0.1	1.5	0.10	0.06	75	0.4	0.05	2.7	1.83	<0.1	<0.02
612804	Soil	5.9	20.3	0.12	156.9	0.006	2	0.75	0.003	0.10	<0.1	0.8	0.07	0.07	37	0.2	0.05	4.3	2.06	<0.1	<0.02
612805	Soil	6.1	17.9	0.13	93.5	0.004	3	0.76	0.003	0.09	<0.1	0.7	0.09	0.05	179	0.4	0.06	3.7	2.33	<0.1	<0.02
612806	Soil	4.4	26.0	0.30	128.7	0.009	3	1.40	0.002	0.11	<0.1	1.3	0.09	0.04	46	0.4	0.08	5.4	4.49	<0.1	<0.02
612807	Soil	6.1	23.3	0.46	75.8	0.015	2	1.40	0.003	0.07	<0.1	2.1	0.09	<0.02	26	0.4	0.05	3.9	6.91	<0.1	<0.02
612808	Soil	5.5	28.1	0.40	92.0	0.009	3	1.66	0.004	0.10	<0.1	2.3	0.14	0.06	62	0.5	0.07	5.3	5.72	<0.1	<0.02
612809	Soil	7.2	28.1	0.32	54.3	0.013	3	1.51	0.002	0.06	<0.1	1.2	0.09	0.04	38	0.3	0.05	5.1	2.16	<0.1	<0.02
612810	Soil	8.9	15.6	0.11	80.4	0.007	<1	0.92	0.002	0.06	<0.1	0.6	0.12	0.03	35	0.4	0.07	5.4	1.83	<0.1	<0.02
612811	Soil	10.2	27.5	0.49	74.8	0.014	3	1.75	0.004	0.08	<0.1	1.9	0.12	0.04	44	0.5	0.06	4.6	2.89	<0.1	<0.02
612812	Soil	7.0	24.1	0.35	104.8	0.008	3	1.50	0.003	0.06	<0.1	1.5	0.12	0.05	38	0.3	0.03	5.4	4.08	<0.1	<0.02
612813	Soil	9.7	23.6	0.33	101.6	0.017	1	1.44	0.003	0.07	0.1	2.0	0.13	0.03	32	0.4	0.04	5.3	4.83	<0.1	<0.02
612814	Soil	16.2	23.3	0.53	144.9	0.009	4	1.40	0.005	0.07	<0.1	6.6	0.08	0.04	75	0.4	0.06	4.0	4.02	<0.1	0.03
612815	Soil	15.9	9.9	0.11	108.6	0.002	5	0.58	0.004	0.07	<0.1	5.5	0.05	0.07	69	0.2	0.07	1.2	1.06	<0.1	0.04
612816	Soil	11.0	19.8	0.34	121.5	0.012	2	1.22	0.004	0.05	0.2	2.3	0.13	0.05	166	0.4	0.04	3.5	1.30	<0.1	0.02
612817	Soil	7.3	12.9	0.16	136.7	0.005	1	0.76	0.003	0.05	<0.1	2.1	0.11	0.05	233	0.5	0.05	2.9	0.79	<0.1	<0.02
612818	Soil	9.0	16.2	0.20	124.1	0.004	<1	0.63	0.002	0.06	<0.1	5.5	0.08	0.03	326	0.5	<0.02	1.8	0.60	<0.1	0.02
612819	Soil	10.6	19.4	0.18	85.1	0.003	2	0.42	0.003	0.06	<0.1	6.0	0.09	0.05	109	0.4	<0.02	1.5	1.04	<0.1	0.04
612820	Soil	12.1	21.2	0.34	82.4	0.003	3	0.56	0.003	0.06	<0.1	9.3	0.40	0.05	331	1.0	0.05	1.5	2.78	<0.1	0.05
612821	Soil	8.2	24.6	0.66	79.9	0.006	2	1.11	0.003	0.07	<0.1	7.9	0.11	0.05	154	0.7	<0.02	3.1	10.35	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 9 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
612037	Soil	0.16	7.2	3.3	<0.05	2.4	7.43	35.8	0.04	<1	0.5	12.8	<10	<2
612038	Soil	0.27	8.6	0.4	<0.05	2.1	8.42	18.7	0.02	<1	0.6	20.9	<10	<2
612039	Soil	0.47	10.5	1.3	<0.05	1.8	6.52	13.6	0.04	<1	0.8	11.5	<10	<2
612040	Soil	0.17	11.4	0.6	<0.05	0.4	3.90	25.7	0.03	<1	0.6	22.4	<10	<2
612041	Soil	0.42	9.7	1.8	<0.05	1.3	6.58	26.3	0.03	<1	0.6	24.5	<10	<2
612042	Soil	0.17	10.5	0.6	<0.05	1.9	2.71	16.2	0.03	<1	0.7	34.0	<10	<2
612043	Soil	0.18	10.0	2.7	<0.05	1.6	6.27	37.2	0.04	<1	1.1	58.5	<10	<2
612044	Soil	0.28	10.3	0.7	<0.05	1.3	2.36	17.4	0.03	<1	0.6	40.4	<10	<2
612045	Soil	0.21	7.1	2.6	<0.05	2.4	15.27	50.0	0.04	<1	1.0	23.7	<10	<2
612801	Soil	0.35	9.4	0.8	<0.05	1.9	9.84	25.2	0.03	<1	0.9	22.8	10	<2
612802	Soil	0.33	7.0	4.9	<0.05	1.7	7.96	27.8	<0.02	<1	0.8	24.5	<10	<2
612803	Soil	0.22	10.6	0.6	<0.05	0.4	5.10	16.4	0.03	<1	0.7	7.9	<10	<2
612804	Soil	0.26	15.7	3.2	<0.05	0.1	2.87	13.5	0.04	<1	0.6	6.3	19	<2
612805	Soil	0.15	12.4	1.0	<0.05	0.1	3.34	14.5	0.04	<1	0.5	7.4	<10	<2
612806	Soil	0.36	15.0	11.8	<0.05	<0.1	2.32	9.7	<0.02	<1	0.9	25.2	<10	<2
612807	Soil	0.25	8.3	2.1	<0.05	0.2	3.51	15.4	0.02	<1	1.0	38.7	<10	<2
612808	Soil	0.37	13.3	10.1	<0.05	0.4	5.47	15.8	<0.02	<1	1.2	44.0	<10	<2
612809	Soil	0.43	9.0	4.5	<0.05	0.2	2.87	16.0	0.03	<1	0.3	17.7	<10	<2
612810	Soil	0.33	12.0	3.3	<0.05	<0.1	2.13	17.7	<0.02	<1	0.2	5.2	<10	<2
612811	Soil	0.28	10.0	1.8	<0.05	0.4	5.53	26.7	0.03	<1	1.0	32.7	<10	<2
612812	Soil	0.32	14.9	2.4	<0.05	0.3	3.94	15.4	0.03	<1	0.9	24.4	<10	<2
612813	Soil	0.47	13.8	1.0	<0.05	<0.1	3.70	22.0	<0.02	<1	0.7	28.4	<10	<2
612814	Soil	0.32	9.5	2.2	<0.05	1.5	23.29	31.1	0.04	<1	1.5	37.3	<10	<2
612815	Soil	0.11	4.9	0.8	<0.05	1.2	18.91	35.1	0.05	<1	0.9	5.3	<10	<2
612816	Soil	0.65	8.2	1.6	<0.05	1.0	6.48	29.9	0.02	<1	0.8	13.0	<10	<2
612817	Soil	0.38	6.6	0.6	<0.05	0.8	5.86	19.8	0.03	<1	0.6	7.9	<10	<2
612818	Soil	0.19	5.5	1.1	<0.05	0.8	9.07	21.0	0.04	<1	0.8	7.1	10	<2
612819	Soil	0.16	6.1	1.5	<0.05	1.4	10.52	28.1	0.04	<1	0.8	3.1	<10	<2
612820	Soil	0.15	6.5	2.8	<0.05	1.5	18.08	27.7	0.05	<1	0.9	4.9	<10	<2
612821	Soil	0.28	9.1	1.5	<0.05	1.8	13.40	18.0	0.04	<1	1.3	30.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612822	Soil			0.45	76.75	40.69	104.6	131	47.8	29.5	1482	4.77	41.1	0.6	5.5	3.4	22.9	0.05	3.26	0.74	6	0.06	0.025
612823	Soil			0.42	66.11	47.46	113.5	74	51.2	28.7	1908	4.05	33.6	0.7	3.4	4.4	35.5	0.04	1.32	0.46	8	0.03	0.015
612824	Soil			0.59	78.23	71.16	131.9	183	38.6	37.9	1539	5.21	26.8	0.7	6.8	4.4	24.2	0.02	1.40	0.61	17	<0.01	0.024
612825	Soil			0.65	49.58	46.82	103.2	136	47.8	29.5	1277	3.70	34.8	1.0	5.1	4.2	36.4	0.07	1.25	0.48	13	0.11	0.032
612826	Soil			0.92	44.25	35.05	98.6	93	38.8	22.5	1308	3.47	28.9	1.1	0.9	3.2	39.7	0.14	1.57	0.35	15	0.32	0.048
612827	Soil			1.62	78.77	86.37	126.0	131	55.1	27.7	1198	4.87	47.7	0.9	15.6	4.1	29.9	0.10	3.53	0.55	8	0.10	0.026
612828	Soil			0.54	34.33	20.98	45.9	63	11.9	5.8	157	2.36	45.9	0.5	22.2	2.2	24.2	0.02	7.65	0.37	4	0.11	0.020
612829	Soil			0.57	43.67	21.65	74.8	98	22.9	9.1	261	2.69	43.2	1.0	18.2	2.3	37.5	0.14	5.08	0.38	8	0.30	0.041
612830	Soil			0.82	17.31	24.50	63.5	86	16.0	7.7	330	2.15	10.6	3.4	3.5	1.5	65.1	0.09	0.56	0.28	27	0.49	0.060
612831	Soil			0.64	29.23	18.91	83.0	34	17.6	10.0	328	3.01	24.9	1.0	4.2	2.3	47.2	0.06	1.57	0.36	14	0.23	0.041
612832	Soil			0.66	36.20	30.12	99.3	72	23.2	11.1	366	2.99	39.0	1.3	3.6	1.8	60.5	0.15	1.09	0.37	11	0.43	0.040
612833	Soil			0.43	41.38	23.05	98.8	77	33.0	13.9	398	3.20	27.5	1.2	3.3	2.0	53.3	0.11	0.70	0.38	15	0.65	0.047
612834	Soil			0.40	36.06	25.03	107.6	28	45.5	12.8	254	3.70	17.3	0.8	5.4	3.9	41.8	0.12	0.52	0.40	19	0.40	0.024
612835	Soil			0.46	33.13	21.18	80.4	86	26.6	11.8	634	2.82	31.0	1.4	11.6	1.9	73.2	0.21	0.72	0.29	17	1.14	0.054
612836	Soil			1.23	37.32	38.11	100.8	102	30.6	11.0	415	3.11	23.5	2.0	7.8	2.7	64.2	0.36	0.99	0.53	19	0.98	0.054
612837	Soil			0.73	31.65	21.26	77.7	141	26.3	10.0	350	3.09	13.7	1.9	3.6	2.8	53.0	0.24	0.77	0.38	27	0.72	0.054
612838	Soil			0.52	34.98	20.83	86.9	140	23.6	9.5	430	2.65	11.0	2.8	3.5	1.8	88.1	0.14	0.57	0.28	18	1.56	0.058
612839	Soil			0.79	30.81	19.07	88.6	95	27.2	8.5	875	3.01	32.3	0.4	6.8	1.6	131.8	0.24	1.11	0.26	12	1.19	0.062
612840	Soil			1.59	41.72	62.48	84.8	103	28.3	21.5	1090	4.41	19.0	0.7	4.7	2.8	9.7	0.09	1.75	0.38	26	0.05	0.047
612950	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
612951	Soil			0.60	21.14	15.11	81.3	52	21.5	7.7	188	2.71	7.9	0.9	3.9	4.7	27.1	0.15	0.69	0.25	27	0.50	0.044
612952	Soil			0.51	18.99	22.79	85.7	35	21.4	7.6	255	2.64	2.7	0.6	1.1	4.4	23.3	0.31	0.22	0.20	26	0.31	0.038
612953	Soil			1.09	21.87	14.48	60.5	91	14.1	6.2	215	2.43	8.9	0.5	0.9	0.3	5.4	0.09	0.62	0.28	32	0.02	0.057
612954	Soil			1.06	23.28	18.65	65.0	33	17.6	6.6	127	2.76	10.4	0.4	3.3	0.2	5.6	0.08	0.74	0.28	33	0.02	0.044
612955	Soil			0.93	30.05	17.30	110.7	135	28.8	10.6	374	2.72	9.1	1.0	3.1	5.1	27.1	0.30	0.84	0.19	38	0.37	0.081
612956	Soil			0.67	28.28	28.87	91.7	107	22.9	14.2	801	3.28	10.7	0.8	1.2	1.4	9.9	0.15	0.41	0.33	24	0.04	0.082
612957	Soil			0.48	31.97	30.10	97.2	238	23.5	12.9	583	4.08	7.1	0.5	0.7	1.5	10.3	0.22	0.28	0.41	25	0.04	0.058
612958	Soil			0.44	22.62	24.07	31.4	134	17.8	6.3	291	1.74	18.9	1.5	27.6	0.4	225.7	0.08	0.97	0.16	7	3.53	0.094
612959	Soil			0.61	23.90	29.31	63.3	175	28.3	12.3	718	3.11	26.1	1.4	12.3	0.7	165.4	0.13	2.56	0.22	10	2.60	0.135
612960	Soil			0.71	25.53	29.59	78.3	149	22.0	9.6	766	3.69	13.1	1.3	1.4	1.2	99.0	0.18	0.44	0.30	16	1.45	0.159



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 05, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
612822	Soil	7.4	5.0	0.09	24.8	<0.001	2	0.26	0.003	0.08	<0.1	6.4	0.15	<0.02	253	0.3	0.12	0.6	10.54	<0.1	<0.02
612823	Soil	8.5	7.2	0.08	37.6	<0.001	2	0.34	0.003	0.08	<0.1	6.6	0.16	<0.02	83	<0.1	0.10	0.8	15.26	<0.1	0.03
612824	Soil	7.0	9.7	0.04	37.9	<0.001	4	0.45	0.003	0.11	<0.1	10.1	0.89	0.04	364	0.4	0.09	1.8	47.85	<0.1	0.03
612825	Soil	9.8	13.6	0.20	51.0	0.001	2	0.59	0.002	0.08	<0.1	5.4	0.15	<0.02	138	0.3	0.09	1.6	11.52	<0.1	0.02
612826	Soil	9.2	15.7	0.17	76.5	0.004	3	0.61	0.003	0.10	<0.1	5.8	0.15	0.03	146	0.3	0.03	1.7	6.32	<0.1	0.04
612827	Soil	8.4	19.0	0.17	43.3	<0.001	3	0.35	0.004	0.11	<0.1	7.0	0.17	<0.02	145	0.2	0.14	0.8	7.37	<0.1	0.06
612828	Soil	4.7	3.8	0.05	29.1	<0.001	1	0.32	0.003	0.07	<0.1	2.6	0.09	<0.02	117	0.6	0.05	0.7	5.34	<0.1	<0.02
612829	Soil	6.6	7.7	0.16	61.9	0.001	2	0.48	0.004	0.08	<0.1	4.2	0.09	0.02	139	0.6	0.14	1.4	5.54	<0.1	<0.02
612830	Soil	9.4	21.0	0.40	186.9	0.004	<1	0.96	0.003	0.06	<0.1	2.0	0.12	0.03	111	0.3	0.03	4.2	1.40	<0.1	<0.02
612831	Soil	5.3	13.6	0.31	61.0	0.002	2	0.63	0.003	0.08	<0.1	2.6	0.12	<0.02	187	0.3	0.06	2.4	5.96	<0.1	0.02
612832	Soil	5.7	11.7	0.21	31.9	<0.001	2	0.45	0.003	0.07	<0.1	4.0	0.16	0.03	460	0.8	0.04	1.4	4.53	<0.1	0.04
612833	Soil	5.8	17.9	0.37	57.2	0.002	2	0.66	0.003	0.07	<0.1	4.6	0.15	0.04	260	0.7	0.07	2.1	4.76	<0.1	0.05
612834	Soil	7.2	28.6	0.56	44.9	0.001	2	0.83	<0.001	0.06	<0.1	6.1	0.09	0.02	115	0.4	0.02	2.6	2.16	<0.1	0.07
612835	Soil	9.4	18.1	0.37	95.2	0.002	3	0.92	0.003	0.06	<0.1	4.1	0.11	0.05	209	0.5	0.04	2.4	1.28	<0.1	0.07
612836	Soil	9.5	28.3	0.49	92.9	0.004	5	1.13	0.003	0.08	<0.1	4.5	0.12	0.05	260	0.6	0.05	3.1	1.94	<0.1	0.10
612837	Soil	10.1	25.1	0.44	154.9	0.003	2	1.41	0.003	0.06	<0.1	4.3	0.11	0.03	191	0.4	0.05	3.9	1.49	<0.1	0.06
612838	Soil	7.0	21.2	0.46	111.7	0.002	3	1.16	0.003	0.08	<0.1	3.2	0.10	0.06	263	0.6	0.05	3.2	1.53	<0.1	0.08
612839	Soil	4.9	16.2	0.43	80.6	0.002	3	0.66	0.005	0.06	<0.1	3.8	0.06	0.07	83	0.3	<0.02	1.8	2.41	<0.1	0.08
612840	Soil	6.8	27.6	0.25	41.2	0.006	2	1.05	0.002	0.07	<0.1	2.8	0.13	0.02	108	0.4	0.06	4.7	6.72	<0.1	0.04
612950	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
612951	Soil	20.6	31.1	0.75	194.2	0.004	2	1.30	0.002	0.07	<0.1	3.7	0.13	0.02	68	0.8	0.02	4.2	1.20	<0.1	0.04
612952	Soil	23.1	25.3	0.59	175.4	0.004	2	1.22	0.001	0.06	<0.1	3.7	0.10	<0.02	34	0.4	0.03	3.8	1.82	<0.1	0.04
612953	Soil	6.3	13.3	0.07	49.9	0.003	1	0.71	0.002	0.05	<0.1	0.4	0.13	0.02	48	0.2	0.04	4.2	2.33	<0.1	<0.02
612954	Soil	6.0	13.6	0.10	30.4	0.004	1	0.60	0.002	0.05	<0.1	0.8	0.10	<0.02	35	0.2	0.04	3.9	2.09	<0.1	<0.02
612955	Soil	15.6	24.5	0.46	151.4	0.040	2	1.13	0.011	0.07	0.2	3.6	0.10	<0.02	91	<0.1	0.04	3.4	1.57	<0.1	0.03
612956	Soil	5.6	23.3	0.33	64.6	0.004	2	1.33	0.002	0.08	<0.1	2.2	0.12	0.04	49	0.2	0.04	4.3	5.25	<0.1	0.03
612957	Soil	4.4	26.6	0.28	91.1	0.003	2	1.39	0.001	0.11	<0.1	2.0	0.12	0.03	51	0.2	0.04	5.8	4.55	<0.1	<0.02
612958	Soil	4.6	7.0	0.06	142.9	0.001	4	0.39	0.006	0.04	<0.1	1.2	0.12	0.17	210	0.4	<0.02	0.9	1.09	<0.1	<0.02
612959	Soil	9.2	7.2	0.07	114.8	0.002	4	0.49	0.005	0.05	<0.1	3.1	0.14	0.18	177	0.3	0.04	1.1	1.24	<0.1	0.02
612960	Soil	6.5	13.5	0.13	119.0	0.003	2	0.85	0.004	0.07	<0.1	3.7	0.11	0.13	67	0.2	0.06	2.5	2.37	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 10 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
612822	Soil			0.02	7.4	0.7	<0.05	1.0	7.85	13.8	0.05	<1	1.5	3.9	<10	<2
612823	Soil			<0.02	9.3	6.9	<0.05	2.7	4.45	17.3	0.04	<1	1.2	3.9	<10	<2
612824	Soil			<0.02	16.8	1.1	<0.05	2.9	3.83	17.2	0.05	<1	0.7	4.9	<10	<2
612825	Soil			0.07	7.3	6.8	<0.05	1.5	8.56	21.4	0.03	<1	1.1	13.3	15	<2
612826	Soil			0.14	12.0	4.6	<0.05	1.7	8.26	23.4	0.03	<1	1.1	9.6	<10	<2
612827	Soil			0.04	8.1	37.2	<0.05	2.4	7.19	16.6	<0.02	<1	1.3	5.9	<10	<2
612828	Soil			<0.02	6.5	0.6	<0.05	0.3	2.89	9.3	0.03	<1	0.6	2.4	<10	<2
612829	Soil			0.07	8.0	0.7	<0.05	0.9	4.30	12.4	0.05	<1	0.7	7.8	<10	<2
612830	Soil			0.33	9.3	6.8	<0.05	0.7	3.66	19.6	<0.02	<1	0.5	19.0	<10	<2
612831	Soil			0.13	12.2	0.7	<0.05	1.0	2.55	11.7	0.03	<1	0.3	11.8	<10	<2
612832	Soil			0.09	10.8	6.8	<0.05	1.5	4.37	11.4	0.03	<1	1.1	4.5	<10	<2
612833	Soil			0.11	10.6	0.8	<0.05	1.6	5.95	12.5	0.04	<1	1.1	13.2	<10	<2
612834	Soil			0.12	5.4	4.8	<0.05	2.8	7.91	15.8	0.05	<1	1.1	24.7	<10	<2
612835	Soil			0.24	6.6	0.5	<0.05	2.1	12.20	20.3	0.04	<1	0.9	18.5	<10	<2
612836	Soil			0.26	8.5	26.0	<0.05	2.6	9.79	21.6	0.10	<1	1.0	27.2	<10	<2
612837	Soil			0.46	7.4	1.0	<0.05	2.0	9.27	24.0	0.05	<1	0.9	25.9	<10	<2
612838	Soil			0.32	7.4	3.8	<0.05	2.7	7.83	14.9	0.04	<1	0.7	26.0	<10	<2
612839	Soil			0.20	5.9	4.3	<0.05	2.4	5.96	10.3	0.05	<1	0.6	12.1	<10	<2
612840	Soil			0.31	10.5	20.5	<0.05	1.7	2.96	19.4	0.06	<1	0.7	20.6	<10	<2
612950	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
612951	Soil			0.41	10.7	0.7	<0.05	1.4	6.79	45.1	0.04	<1	0.7	30.3	<10	<2
612952	Soil			0.28	11.7	9.7	<0.05	1.2	9.38	54.7	0.04	<1	0.7	25.3	<10	<2
612953	Soil			0.13	13.1	0.7	<0.05	0.1	2.10	14.2	0.03	<1	0.3	4.4	<10	<2
612954	Soil			0.19	11.3	4.3	<0.05	<0.1	2.00	12.8	0.03	<1	0.2	4.6	<10	<2
612955	Soil			0.35	7.5	0.6	<0.05	1.9	9.89	32.1	0.02	<1	0.6	18.3	<10	<2
612956	Soil			0.18	12.0	3.6	<0.05	1.0	5.10	15.0	0.04	<1	0.9	30.3	<10	<2
612957	Soil			0.36	15.1	1.0	<0.05	0.6	2.84	11.2	0.04	<1	0.9	27.1	<10	<2
612958	Soil			0.10	5.4	14.1	<0.05	0.7	14.36	11.1	0.03	<1	0.9	3.3	<10	<2
612959	Soil			0.17	5.9	0.3	<0.05	1.0	25.08	25.6	0.03	<1	1.3	3.4	<10	<2
612960	Soil			0.22	11.7	2.1	<0.05	1.2	14.43	12.3	0.04	<1	0.9	8.8	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
612961	Soil	0.79	42.51	35.10	92.3	78	38.0	17.5	805	4.29	19.0	0.5	0.9	1.3	23.9	0.11	0.47	0.44	21	0.25	0.065
612962	Soil	0.70	41.27	33.18	104.8	36	35.1	16.8	608	4.58	18.4	0.5	0.7	1.3	21.8	0.15	0.61	0.43	26	0.03	0.043
612963	Soil	0.89	48.60	53.85	106.3	229	43.3	32.2	597	4.22	41.9	0.5	4.5	2.2	34.2	0.08	0.66	0.45	19	0.07	0.033
612964	Soil	1.64	23.24	22.93	56.5	87	13.2	6.4	435	3.77	11.2	0.5	1.2	2.6	7.5	0.09	0.70	0.38	57	0.03	0.043
612965	Soil	1.77	19.56	23.30	79.9	53	17.0	10.2	762	4.30	11.3	0.8	1.6	0.5	8.8	0.25	0.89	0.34	54	0.06	0.065
612966	Soil	0.91	45.39	53.02	84.3	67	29.3	30.4	2145	4.38	14.2	0.9	1.1	1.7	12.8	0.13	0.53	0.37	29	0.15	0.091
612967	Soil	0.76	24.95	22.57	74.0	57	22.2	11.0	655	3.12	9.4	1.5	0.8	1.7	52.2	0.09	0.43	0.34	28	0.81	0.118
612968	Soil	1.27	19.82	30.58	84.9	52	16.1	12.2	1208	5.92	10.6	0.8	1.0	0.3	7.5	0.25	0.67	0.38	43	0.06	0.124
612969	Soil	0.40	29.13	26.12	110.1	66	21.2	10.9	671	3.17	13.2	2.5	1.3	1.5	98.3	0.24	0.79	0.28	16	1.33	0.109
612970	Soil	1.34	22.20	20.77	90.2	206	19.0	8.1	420	2.41	24.2	2.4	11.5	1.0	68.3	0.42	6.68	0.19	19	1.15	0.056
612971	Soil	0.74	48.53	22.43	120.7	163	44.2	21.3	475	2.39	87.2	1.7	32.8	4.7	136.4	0.42	10.58	0.21	12	2.93	0.089
612972	Soil	0.80	41.53	24.89	140.2	115	39.9	16.3	536	3.35	100.4	1.3	16.9	4.4	103.3	0.27	3.37	0.26	14	1.34	0.074
612973	Soil	0.46	32.75	19.03	100.4	55	37.5	11.3	333	3.55	21.3	1.1	3.2	3.2	25.6	0.14	1.17	0.34	18	0.30	0.051
612974	Soil	0.54	40.88	33.43	118.8	28	36.4	14.9	759	4.13	10.5	0.4	2.1	2.6	17.0	0.09	0.83	0.36	19	0.06	0.035
612975	Soil	0.68	35.33	23.10	92.5	76	31.0	11.5	500	3.15	14.0	0.7	3.5	1.3	18.5	0.19	0.65	0.37	25	0.07	0.068
612976	Soil	1.07	24.81	40.55	90.7	65	42.2	11.9	292	2.83	19.0	1.2	3.7	2.4	77.9	0.19	1.20	0.26	21	0.20	0.073
612977	Soil	1.01	26.23	34.02	96.6	98	32.8	10.7	864	2.89	105.8	0.8	2.3	1.2	107.8	0.37	3.80	0.29	21	0.47	0.069
612978	Soil	0.69	26.39	25.30	74.5	18	28.0	11.3	301	3.43	30.0	0.7	1.5	2.6	27.4	0.05	0.53	0.34	23	0.20	0.025
612979	Soil	0.63	25.37	24.02	79.9	31	31.1	11.2	238	2.99	26.4	0.6	1.2	3.7	39.0	0.08	0.44	0.27	18	0.39	0.060
612980	Soil	0.56	29.27	20.45	81.4	139	25.1	8.5	237	2.61	12.0	2.0	3.3	2.3	94.1	0.26	0.52	0.30	17	1.40	0.069
612981	Soil	0.63	28.48	21.46	77.2	84	28.2	11.1	294	3.12	12.1	1.4	2.6	3.7	65.0	0.10	0.57	0.33	18	0.85	0.055
612982	Soil	0.55	28.41	20.16	73.2	85	26.9	10.0	218	2.75	10.9	0.9	3.2	4.4	57.5	0.18	0.53	0.25	13	1.07	0.041
612983	Soil	0.40	25.10	17.04	68.0	104	22.9	10.4	531	2.49	7.7	3.4	2.0	1.5	79.0	0.16	0.39	0.24	14	1.23	0.074
612984	Soil	0.89	32.61	22.61	101.4	99	27.3	11.4	458	3.27	12.8	2.2	2.5	1.9	62.0	0.13	0.69	0.34	24	0.74	0.088
612985	Soil	0.49	33.29	24.53	81.7	51	34.1	14.4	597	3.06	8.5	0.9	1.8	5.5	37.6	0.08	0.65	0.32	13	0.51	0.025
612986	Soil	0.77	56.65	27.60	75.0	134	32.2	10.6	579	2.39	5.9	2.9	10.0	1.5	137.7	0.20	0.70	0.28	14	1.70	0.082
612987	Soil	0.54	33.90	23.82	85.6	81	29.8	13.1	717	2.55	8.1	1.4	1.8	2.3	60.4	0.21	0.55	0.31	15	1.00	0.047
612988	Soil	0.74	31.26	23.95	69.8	77	27.6	11.2	522	2.88	10.2	2.1	1.6	2.2	58.3	0.12	0.66	0.27	16	1.02	0.051
612989	Soil	0.60	30.41	21.42	81.1	98	31.5	11.3	364	3.54	12.2	1.4	58.5	5.6	38.3	0.21	0.76	0.26	14	0.46	0.043
612990	Soil	0.44	43.90	23.45	121.4	55	46.4	17.2	557	3.54	64.2	0.6	3.5	3.4	54.4	0.15	0.91	0.38	9	0.45	0.048



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	
612961	Soil	3.8	13.0	0.05	59.2	0.001	1	0.41	0.002	0.06	<0.1	3.3	0.13	0.04	185	0.3	0.08	2.2	2.04	<0.1	0.03
612962	Soil	4.9	14.9	0.12	57.6	0.005	1	0.58	<0.001	0.06	<0.1	3.7	0.07	<0.02	47	0.2	0.07	2.1	4.55	<0.1	<0.02
612963	Soil	4.8	12.7	0.12	61.1	0.001	2	0.49	0.002	0.09	<0.1	4.4	0.16	<0.02	77	0.1	0.07	1.7	4.09	<0.1	<0.02
612964	Soil	8.0	22.9	0.20	67.0	0.008	2	1.54	<0.001	0.08	<0.1	2.2	0.17	<0.02	31	0.3	0.07	7.7	2.68	<0.1	<0.02
612965	Soil	10.1	34.0	0.29	89.4	0.015	1	1.62	0.001	0.06	0.2	1.3	0.13	0.04	36	0.4	0.05	6.6	2.99	<0.1	<0.02
612966	Soil	6.5	27.3	0.53	111.4	0.007	3	1.76	0.003	0.08	<0.1	4.7	0.14	0.05	60	0.2	0.08	5.1	8.02	<0.1	<0.02
612967	Soil	10.0	23.3	0.36	124.3	0.005	2	1.42	0.003	0.06	<0.1	3.9	0.09	0.07	44	0.2	0.03	4.3	3.26	<0.1	0.04
612968	Soil	7.3	37.0	0.26	83.9	0.008	2	1.81	0.001	0.07	<0.1	1.0	0.11	0.09	55	0.4	0.06	6.7	2.85	<0.1	<0.02
612969	Soil	23.5	11.9	0.11	67.0	0.003	4	0.64	0.004	0.08	<0.1	4.7	0.06	0.07	177	0.1	0.08	1.4	1.03	<0.1	<0.02
612970	Soil	10.9	11.0	0.30	57.2	0.004	2	0.41	0.003	0.04	<0.1	3.1	0.09	0.06	1060	1.0	<0.02	1.2	0.52	<0.1	0.03
612971	Soil	12.0	10.0	1.15	124.5	0.003	4	0.31	0.005	0.07	<0.1	6.0	0.21	0.03	928	0.8	<0.02	0.8	3.00	<0.1	0.03
612972	Soil	12.4	15.5	0.66	163.7	0.002	3	0.30	0.004	0.07	<0.1	7.0	0.28	0.04	473	1.1	<0.02	0.8	1.43	<0.1	0.04
612973	Soil	9.2	17.5	0.21	66.8	0.002	2	0.71	0.002	0.06	<0.1	5.5	0.10	0.03	224	0.3	0.03	1.9	3.59	<0.1	0.04
612974	Soil	6.1	19.4	0.11	52.1	0.001	1	0.68	0.001	0.07	<0.1	3.9	0.08	<0.02	58	0.2	<0.02	2.7	5.60	<0.1	<0.02
612975	Soil	6.9	28.3	0.42	75.9	0.004	2	1.29	0.002	0.08	<0.1	2.7	0.10	0.04	62	0.3	0.04	4.9	8.11	<0.1	<0.02
612976	Soil	12.4	31.1	0.27	89.2	0.004	2	1.13	0.002	0.06	<0.1	4.1	0.13	0.02	196	0.6	0.03	2.3	1.91	<0.1	<0.02
612977	Soil	7.5	22.0	0.12	102.1	0.003	2	0.61	0.003	0.07	<0.1	4.5	0.42	0.04	1457	0.2	<0.02	2.3	2.27	<0.1	<0.02
612978	Soil	6.8	22.0	0.29	71.5	0.003	2	0.96	0.002	0.07	<0.1	2.9	0.12	<0.02	140	0.2	0.05	3.7	2.04	<0.1	<0.02
612979	Soil	7.3	25.5	0.43	62.6	0.002	2	1.04	0.002	0.06	<0.1	3.7	0.09	0.02	130	0.2	0.04	3.2	1.35	<0.1	0.07
612980	Soil	7.7	23.3	0.39	127.8	0.003	3	1.11	0.003	0.08	<0.1	4.3	0.08	0.05	164	0.7	0.04	3.2	1.31	<0.1	0.07
612981	Soil	9.8	26.4	0.56	93.0	0.005	2	1.29	0.002	0.08	<0.1	4.7	0.08	0.03	144	0.4	0.05	3.9	1.50	<0.1	0.09
612982	Soil	13.3	22.7	0.68	122.7	0.004	2	1.01	0.003	0.07	<0.1	5.4	0.06	0.03	163	0.5	0.03	3.0	1.04	<0.1	0.06
612983	Soil	10.6	21.3	0.48	135.9	0.003	3	1.14	0.003	0.06	<0.1	3.1	0.07	0.06	176	0.6	0.04	3.2	1.09	<0.1	0.06
612984	Soil	8.2	31.4	0.50	134.7	0.005	3	1.52	0.003	0.10	<0.1	5.3	0.12	0.05	223	0.7	0.06	4.4	2.41	<0.1	0.07
612985	Soil	12.7	34.2	0.93	93.7	0.003	3	1.52	<0.001	0.08	<0.1	5.8	0.06	<0.02	99	0.4	0.04	4.5	1.55	<0.1	0.08
612986	Soil	10.2	30.3	0.77	121.0	0.005	4	1.33	0.004	0.07	<0.1	4.5	0.08	0.09	233	1.1	0.05	3.9	1.95	<0.1	0.06
612987	Soil	10.0	29.2	0.76	95.9	0.004	3	1.30	0.002	0.06	<0.1	4.8	0.07	0.04	150	0.5	<0.02	3.8	1.24	<0.1	0.06
612988	Soil	10.1	29.7	0.63	158.3	0.003	3	1.23	0.002	0.06	<0.1	3.6	0.07	0.04	209	0.8	0.05	3.7	1.11	<0.1	0.04
612989	Soil	15.3	29.1	0.51	78.0	0.001	1	1.53	<0.001	0.06	<0.1	6.4	0.08	0.02	152	0.6	0.03	3.3	0.95	<0.1	0.05
612990	Soil	6.9	21.8	0.57	57.2	0.002	3	0.75	0.002	0.07	<0.1	4.9	0.10	0.04	156	0.7	0.05	2.3	2.26	<0.1	0.07



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 11 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
612961	Soil			0.14	11.6	0.6	<0.05	0.7	3.27	9.1	0.05	<1	0.8	2.3	<10	<2
612962	Soil			0.16	8.3	3.1	<0.05	0.1	4.16	12.6	0.05	<1	1.2	6.2	<10	<2
612963	Soil			0.06	7.7	1.1	<0.05	0.4	4.67	12.7	0.04	<1	1.3	7.4	<10	<2
612964	Soil			0.76	14.6	3.0	<0.05	0.6	2.72	17.4	0.03	<1	0.4	16.4	<10	<2
612965	Soil			0.50	13.1	0.8	<0.05	0.1	3.64	23.4	0.03	<1	0.6	15.4	<10	<2
612966	Soil			0.23	10.8	5.4	<0.05	0.4	9.33	20.9	0.06	<1	1.5	43.0	<10	<2
612967	Soil			0.38	11.2	0.8	<0.05	1.3	14.00	25.3	0.04	<1	1.1	23.9	<10	<2
612968	Soil			0.43	12.5	4.0	<0.05	0.1	4.60	20.1	0.04	<1	0.8	14.0	<10	<2
612969	Soil			0.15	6.8	0.6	<0.05	1.0	23.35	60.1	0.05	<1	1.0	6.5	<10	<2
612970	Soil			0.17	3.8	2.4	<0.05	1.0	12.25	29.4	0.03	<1	0.6	3.8	<10	<2
612971	Soil			0.08	5.3	1.0	<0.05	1.2	14.35	31.2	0.04	<1	0.7	3.3	<10	<2
612972	Soil			0.05	5.2	3.2	<0.05	1.3	12.72	30.3	0.04	<1	0.8	2.4	<10	<2
612973	Soil			0.20	6.6	0.4	<0.05	1.6	10.14	19.7	0.04	<1	0.9	11.4	<10	<2
612974	Soil			0.08	9.4	19.1	<0.05	0.3	4.02	12.9	0.04	<1	0.6	11.0	<10	<2
612975	Soil			0.28	12.4	3.7	<0.05	0.4	5.17	16.6	0.04	<1	0.8	30.7	<10	<2
612976	Soil			0.21	8.1	18.3	<0.05	0.9	12.76	50.0	0.04	<1	0.7	22.4	<10	<2
612977	Soil			0.19	8.3	10.9	<0.05	0.5	7.26	15.7	0.04	<1	0.4	6.0	<10	<2
612978	Soil			0.18	9.3	5.3	<0.05	0.7	3.74	15.3	0.03	<1	0.6	22.6	<10	<2
612979	Soil			0.19	6.0	5.6	<0.05	2.5	7.03	17.4	0.04	<1	0.7	29.3	<10	<2
612980	Soil			0.37	7.9	5.8	<0.05	2.5	9.05	15.8	0.04	<1	0.9	22.5	<10	<2
612981	Soil			0.35	8.2	3.0	<0.05	3.0	7.27	21.4	0.04	<1	0.8	32.7	<10	<2
612982	Soil			0.22	5.4	4.8	<0.05	2.8	11.84	25.7	0.03	<1	0.8	29.6	<10	<2
612983	Soil			0.26	8.0	1.0	<0.05	1.5	10.03	23.0	0.03	<1	0.7	26.9	<10	<2
612984	Soil			0.43	13.1	4.4	<0.05	1.6	8.47	19.0	0.05	<1	1.0	30.5	<10	<2
612985	Soil			0.25	7.2	4.5	<0.05	3.0	8.87	29.0	0.03	<1	1.1	47.7	<10	<2
612986	Soil			0.36	7.9	11.0	<0.05	2.3	13.90	18.8	<0.02	<1	1.4	35.1	<10	<2
612987	Soil			0.29	6.8	3.0	<0.05	1.8	9.16	28.2	0.03	<1	1.2	39.1	<10	<2
612988	Soil			0.29	7.8	5.0	<0.05	1.5	8.08	27.4	0.03	<1	0.7	33.1	<10	<2
612989	Soil			0.18	7.2	2.6	<0.05	2.0	13.38	40.6	0.04	<1	1.1	34.4	<10	<2
612990	Soil			0.11	5.9	3.5	<0.05	2.4	6.99	15.5	0.02	<1	1.1	21.3	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
612991	Soil	0.70	42.74	20.51	87.8	166	32.6	13.3	418	3.10	280.5	3.7	5.1	1.8	70.6	0.09	1.49	0.31	14	1.11	0.059
612992	Soil	0.69	53.16	27.45	98.9	88	36.3	19.1	836	3.65	30.3	3.2	8.7	2.7	55.8	0.13	1.77	0.37	9	0.71	0.043
612993	Soil	0.71	56.10	28.42	96.5	111	37.6	15.4	509	3.37	25.3	1.6	3.4	2.0	76.1	0.10	1.14	0.33	7	1.05	0.052
612994	Soil	0.66	60.56	28.92	119.8	99	40.1	16.3	415	3.80	24.5	1.2	7.1	3.1	47.0	0.10	1.57	0.38	7	0.52	0.038
612995	Soil	0.63	69.34	28.08	121.2	110	40.0	20.3	640	4.12	26.7	1.0	4.1	3.0	52.9	0.09	1.24	0.40	7	0.72	0.035
612701	Soil	0.93	28.88	28.24	99.1	70	28.2	13.3	520	3.23	14.5	0.6	2.3	0.8	18.3	0.23	0.69	0.30	23	0.29	0.058
612702	Soil	0.60	15.99	18.35	57.9	30	15.1	8.2	258	2.35	10.4	0.3	1.6	0.3	7.6	0.07	0.48	0.23	20	0.09	0.068
612703	Soil	1.16	18.55	46.89	54.5	68	21.0	8.6	257	1.92	25.0	0.4	1.7	0.3	8.9	0.11	0.40	0.23	20	0.04	0.043
612704	Soil	0.92	24.30	31.39	81.6	82	23.2	11.1	417	2.69	27.6	0.4	2.5	0.3	13.4	0.19	0.76	0.31	18	0.06	0.054
612705	Soil	0.67	38.25	48.73	101.3	142	32.7	13.6	797	3.67	12.5	0.8	0.9	1.2	38.0	0.24	0.29	0.42	13	0.47	0.116
612706	Soil	1.30	38.14	46.75	94.6	101	38.6	17.4	983	3.54	15.7	0.5	1.6	1.3	23.7	0.18	0.39	0.45	15	0.07	0.054
612707	Soil	1.14	30.92	42.58	111.4	123	28.9	13.1	437	4.43	18.5	0.5	2.0	0.9	16.6	0.13	0.74	0.40	25	0.04	0.054
612708	Soil	0.54	43.40	74.96	74.4	227	32.1	47.3	3135	5.11	21.1	1.2	0.8	1.1	17.4	0.11	0.29	0.45	18	0.07	0.187
612709	Soil	1.61	20.93	26.09	61.6	27	17.7	8.7	565	3.43	9.8	0.6	1.2	0.2	7.2	0.09	0.73	0.33	47	0.04	0.069
612710	Soil	1.34	23.16	25.36	71.0	47	20.2	11.7	681	3.91	10.6	0.5	0.6	0.5	8.4	0.14	0.59	0.30	32	0.05	0.070
612711	Soil	1.36	41.58	71.37	87.5	93	29.4	25.5	2018	4.18	12.2	1.0	1.8	0.7	16.8	0.19	0.60	0.38	25	0.26	0.114
612712	Soil	1.34	30.53	32.83	98.6	63	35.4	15.5	819	3.85	12.5	0.9	0.8	1.4	15.3	0.19	0.72	0.32	32	0.12	0.070
612713	Soil	0.68	35.68	30.53	113.9	73	37.9	9.6	206	3.11	27.4	1.1	3.3	2.6	30.5	0.14	1.11	0.32	9	0.42	0.080
612714	Soil	1.07	36.03	37.38	109.5	59	41.9	16.0	1043	3.89	14.7	0.8	2.1	2.1	23.8	0.24	0.85	0.42	21	0.25	0.088
612715	Soil	0.96	34.92	12.03	75.7	57	19.9	8.2	335	2.51	13.8	0.4	1.4	0.4	13.3	0.08	0.74	0.31	29	0.02	0.037
612716	Soil	0.86	23.68	17.92	55.6	72	18.9	8.3	299	2.86	13.6	0.9	3.3	0.7	10.8	0.12	0.65	0.34	25	0.07	0.082



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
612991	Soil	8.2	25.0	0.37	121.9	0.002	3	1.04	0.003	0.10	<0.1	4.8	0.12	0.06	278	1.8	0.05	2.9	2.85	<0.1	0.07
612992	Soil	8.3	18.0	0.33	88.4	0.001	2	0.90	0.002	0.09	<0.1	4.9	0.08	0.03	157	0.7	0.07	2.5	1.87	<0.1	0.05
612993	Soil	8.0	19.3	0.37	90.9	0.002	4	0.94	0.003	0.09	<0.1	4.4	0.07	0.04	187	0.9	0.06	2.6	1.90	<0.1	0.06
612994	Soil	7.1	19.6	0.46	113.0	0.002	3	0.99	0.002	0.08	<0.1	5.5	0.06	0.03	177	1.0	0.09	2.7	1.82	<0.1	0.07
612995	Soil	6.2	20.5	0.57	94.5	0.002	1	1.23	0.002	0.07	<0.1	5.3	0.06	0.03	158	0.9	0.10	3.3	1.97	<0.1	0.08
612701	Soil	7.4	21.1	0.22	91.4	0.004	1	1.03	0.002	0.07	<0.1	1.7	0.08	<0.02	67	0.3	0.06	3.6	1.78	<0.1	<0.02
612702	Soil	4.7	11.6	0.05	61.5	0.003	2	0.54	0.004	0.07	<0.1	0.7	0.10	0.03	45	0.2	0.03	3.3	2.56	<0.1	<0.02
612703	Soil	4.5	15.2	0.02	34.1	0.004	<1	0.36	0.002	0.08	<0.1	0.7	0.08	0.03	30	0.3	0.04	2.8	3.60	<0.1	<0.02
612704	Soil	5.5	15.0	0.09	65.6	0.004	1	0.48	0.002	0.09	<0.1	1.0	0.07	0.03	28	0.4	0.06	2.6	1.36	<0.1	<0.02
612705	Soil	5.9	16.7	0.10	89.5	0.002	2	0.68	0.003	0.10	<0.1	4.4	0.08	0.05	79	0.5	0.08	2.7	2.44	<0.1	0.04
612706	Soil	6.9	24.6	0.08	76.7	0.002	2	0.56	0.002	0.10	<0.1	3.0	0.08	<0.02	113	0.3	0.05	2.6	4.05	<0.1	<0.02
612707	Soil	6.2	27.8	0.27	59.9	0.009	<1	1.22	<0.001	0.09	<0.1	1.9	0.08	0.02	82	0.4	0.04	3.9	3.05	<0.1	<0.02
612708	Soil	6.3	35.3	0.43	126.7	0.002	2	2.08	<0.001	0.11	<0.1	1.1	0.12	0.08	47	0.5	0.08	5.3	7.58	<0.1	0.02
612709	Soil	7.8	29.9	0.24	61.1	0.012	2	1.55	<0.001	0.08	0.1	0.9	0.14	0.05	25	0.7	0.06	6.6	2.68	<0.1	<0.02
612710	Soil	6.7	28.5	0.31	56.5	0.012	2	1.54	0.001	0.08	0.1	1.3	0.09	0.04	39	0.5	0.06	5.6	3.23	<0.1	<0.02
612711	Soil	8.5	30.5	0.38	145.0	0.008	3	1.64	0.003	0.09	<0.1	2.9	0.11	0.06	46	0.4	0.07	5.2	7.31	<0.1	<0.02
612712	Soil	10.9	33.3	0.47	123.6	0.012	2	1.69	0.002	0.09	0.1	2.6	0.11	0.03	39	0.5	0.04	4.8	5.17	<0.1	<0.02
612713	Soil	8.4	19.5	0.20	60.8	0.003	4	0.67	0.004	0.08	<0.1	5.8	0.10	0.04	116	0.8	0.02	1.6	4.43	<0.1	0.07
612714	Soil	9.1	33.8	0.53	86.3	0.008	3	1.48	0.002	0.10	<0.1	4.7	0.08	0.03	54	0.5	0.04	4.4	14.67	<0.1	0.03
612715	Soil	8.1	10.7	0.03	48.8	0.005	2	0.43	0.001	0.08	<0.1	1.2	0.07	<0.02	38	0.3	0.07	3.3	6.03	<0.1	<0.02
612716	Soil	5.7	20.6	0.16	73.5	0.003	2	1.02	0.001	0.05	<0.1	1.2	0.14	0.03	67	0.3	0.04	3.9	3.16	<0.1	<0.02



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 12 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000950.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
612991	Soil	0.28	10.2	1.9	<0.05	2.2	9.38	16.0	0.04	<1	0.9	19.5	<10	<2
612992	Soil	0.13	6.8	5.4	<0.05	2.4	7.50	20.0	0.03	<1	1.0	19.7	<10	<2
612993	Soil	0.16	6.8	8.2	<0.05	2.0	9.75	16.2	0.02	<1	0.7	23.8	<10	<2
612994	Soil	0.15	6.5	7.2	<0.05	2.5	7.71	14.7	<0.02	<1	1.3	28.5	<10	<2
612995	Soil	0.18	6.3	2.6	<0.05	2.7	6.73	12.9	0.03	<1	0.9	37.3	<10	<2
612701	Soil	0.16	10.8	4.7	<0.05	0.3	4.48	15.9	0.03	<1	0.7	15.3	<10	<2
612702	Soil	0.12	12.7	3.0	<0.05	0.1	1.41	9.7	<0.02	<1	0.3	3.3	<10	<2
612703	Soil	0.16	10.6	32.7	<0.05	<0.1	1.44	9.2	<0.02	<1	0.3	0.9	<10	<2
612704	Soil	0.10	8.6	9.3	<0.05	<0.1	2.48	12.0	<0.02	<1	0.4	4.9	<10	<2
612705	Soil	0.15	12.3	31.9	<0.05	0.9	11.13	13.7	<0.02	<1	1.3	5.6	<10	<2
612706	Soil	0.09	10.8	13.3	<0.05	<0.1	5.87	15.6	<0.02	<1	1.2	6.4	<10	<2
612707	Soil	0.37	10.4	13.3	<0.05	0.1	2.72	12.6	<0.02	<1	0.7	21.3	<10	<2
612708	Soil	0.15	13.4	10.2	<0.05	0.6	8.94	21.9	0.05	<1	1.9	44.5	<10	<2
612709	Soil	0.42	13.8	9.7	<0.05	<0.1	2.63	16.8	<0.02	<1	0.4	16.1	<10	<2
612710	Soil	0.40	11.1	4.3	<0.05	<0.1	2.65	14.5	0.03	<1	0.6	22.2	<10	<2
612711	Soil	0.20	12.6	32.1	<0.05	0.2	13.35	20.3	<0.02	<1	1.5	35.4	<10	<2
612712	Soil	0.35	12.3	5.7	<0.05	0.2	8.44	30.0	0.04	<1	1.1	39.0	<10	<2
612713	Soil	0.17	6.9	10.8	<0.05	2.2	11.91	16.5	0.03	<1	1.2	8.4	<10	<2
612714	Soil	0.31	12.7	12.6	<0.05	0.7	8.21	24.5	0.03	<1	0.9	43.0	<10	<2
612715	Soil	0.13	15.4	3.4	<0.05	<0.1	2.06	16.2	0.02	<1	0.3	2.0	<10	<2
612716	Soil	0.24	15.4	1.9	<0.05	0.6	2.95	14.7	0.06	<1	0.5	9.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000950.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
612511	Soil	1.72	80.26	54.65	123.2	274	73.1	44.3	844	5.42	34.1	1.0	2.8	3.3	80.5	0.13	1.11	0.48	19	1.63	0.069
REP 612511	QC	1.62	75.64	51.94	115.0	269	71.0	42.4	807	5.20	31.5	1.0	2.1	3.2	76.4	0.14	1.04	0.48	18	1.58	0.066
612527	Soil	0.60	37.64	35.77	106.1	95	28.2	16.4	931	3.08	32.3	2.9	1.3	3.0	64.7	0.20	1.48	0.36	16	0.81	0.063
REP 612527	QC	0.61	40.18	37.85	106.6	112	32.2	17.2	953	3.29	32.9	3.0	1.8	3.6	67.6	0.22	1.56	0.37	17	0.82	0.069
612542	Soil	0.66	13.50	15.31	49.8	51	12.6	5.6	190	2.18	8.7	1.4	2.2	1.9	44.5	0.12	0.33	0.25	32	0.62	0.039
REP 612542	QC	0.74	13.92	15.83	52.1	52	12.4	5.5	206	2.20	8.8	1.4	1.4	1.9	43.7	0.12	0.36	0.25	32	0.62	0.039
612127	Soil	0.55	47.10	36.62	118.6	238	38.9	18.1	650	3.90	14.4	0.8	1.3	4.1	36.5	0.06	0.62	0.45	18	0.38	0.057
REP 612127	QC	0.63	48.80	39.37	122.9	269	44.3	20.5	745	3.96	15.8	0.8	1.8	4.3	40.8	0.06	0.68	0.46	19	0.38	0.059
612132	Soil	0.79	33.91	23.13	76.8	184	22.8	9.7	374	2.08	37.6	2.8	12.4	2.9	189.0	0.40	3.45	0.23	12	4.43	0.067
REP 612132	QC	0.76	32.49	22.38	76.4	172	21.8	9.6	363	2.02	36.7	2.6	11.2	2.7	183.5	0.42	3.37	0.21	12	4.29	0.064
612217	Soil	0.74	46.63	53.38	106.4	42	31.7	24.1	2344	4.17	11.5	0.5	0.2	2.1	16.2	0.06	0.46	0.41	26	0.07	0.055
REP 612217	QC	0.77	47.64	57.67	105.2	42	32.8	25.3	2299	4.18	12.0	0.6	0.8	2.4	16.5	0.09	0.49	0.44	26	0.07	0.058
612232	Soil	0.75	28.56	25.36	85.8	85	26.6	14.7	564	4.04	14.6	0.6	0.7	1.9	11.6	0.09	0.77	0.32	28	0.04	0.061
REP 612232	QC	0.76	27.99	24.16	84.1	87	26.7	14.0	555	3.99	14.1	0.6	0.5	1.8	11.1	0.08	0.75	0.31	28	0.03	0.057
612249	Soil	0.95	20.12	35.31	86.0	71	31.2	13.9	493	4.02	13.6	1.5	<0.2	4.1	17.6	0.21	0.65	0.31	42	0.14	0.040
REP 612249	QC	1.00	20.91	36.60	86.9	67	30.0	15.0	509	4.10	13.7	1.5	1.3	4.1	18.5	0.24	0.72	0.31	44	0.14	0.040
612077	Soil	0.87	28.78	22.39	80.0	23	27.1	12.4	579	3.17	13.7	0.7	2.5	1.9	11.4	0.14	0.68	0.28	31	0.10	0.055
REP 612077	QC	0.91	28.20	21.35	74.5	24	27.1	12.1	540	3.06	12.9	0.7	2.8	1.9	11.0	0.15	0.62	0.25	30	0.09	0.056
118349	Soil	0.72	28.11	15.56	87.9	57	17.3	10.9	413	3.00	5.6	0.3	0.4	2.3	8.0	0.16	0.51	0.26	27	0.04	0.030
REP 118349	QC	0.69	26.34	15.97	74.3	57	17.0	10.7	417	2.92	5.1	0.3	<0.2	2.3	8.1	0.16	0.33	0.26	27	0.04	0.027
612015	Soil	0.40	42.10	28.64	100.6	132	40.3	18.4	543	4.12	17.7	0.8	0.5	3.5	33.2	0.05	0.45	0.44	19	0.26	0.034
REP 612015	QC	0.46	40.96	28.94	98.7	135	38.3	18.2	543	4.02	17.5	0.8	1.5	3.6	32.2	0.04	0.41	0.43	19	0.25	0.037
612043	Soil	0.53	27.28	21.46	93.1	38	33.7	12.1	384	3.67	8.8	0.8	1.8	4.8	19.2	0.12	0.96	0.32	24	0.12	0.036
REP 612043	QC	0.59	28.76	22.35	104.4	45	33.8	12.8	403	3.77	9.1	0.9	2.7	5.4	19.9	0.14	1.07	0.34	26	0.12	0.037
612805	Soil	0.80	28.75	31.81	96.1	213	20.4	17.5	1240	3.13	12.9	0.6	1.2	0.2	13.9	0.25	0.55	0.39	28	0.05	0.101
REP 612805	QC	0.83	28.78	30.12	93.9	222	20.6	16.9	1159	3.16	13.1	0.6	0.9	0.3	13.3	0.22	0.57	0.38	28	0.05	0.099
612833	Soil	0.43	41.38	23.05	98.8	77	33.0	13.9	398	3.20	27.5	1.2	3.3	2.0	53.3	0.11	0.70	0.38	15	0.65	0.047
REP 612833	QC	0.44	40.68	21.81	99.1	86	32.5	14.2	392	3.19	27.0	1.1	2.5	1.9	53.7	0.11	0.75	0.37	14	0.64	0.046

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: September 05, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000950.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
612511	Soil	8.0	21.6	0.76	119.5	0.003	5	1.39	0.005	0.10	<0.1	9.7	0.12	0.06	73	0.8	0.09	4.0	3.13	<0.1	0.09
REP 612511	QC	7.5	21.5	0.74	113.7	0.003	5	1.35	0.005	0.09	<0.1	9.3	0.11	0.06	87	0.4	0.12	3.9	2.83	<0.1	0.10
612527	Soil	21.0	14.4	0.07	83.3	0.002	2	0.62	0.003	0.06	<0.1	8.3	0.26	0.03	1246	0.6	0.09	1.4	1.50	<0.1	0.03
REP 612527	QC	21.0	15.9	0.08	87.0	0.004	3	0.64	0.003	0.08	<0.1	8.9	0.30	0.03	1190	0.9	0.04	1.4	2.15	<0.1	0.03
612542	Soil	10.7	17.7	0.24	112.6	0.005	2	1.15	0.004	0.05	<0.1	2.1	0.11	<0.02	159	0.3	0.04	4.5	1.78	<0.1	0.02
REP 612542	QC	10.1	18.4	0.23	105.9	0.005	1	1.12	0.004	0.05	<0.1	2.0	0.10	0.02	87	0.2	0.07	4.3	1.69	<0.1	0.02
612127	Soil	8.8	23.4	0.34	107.7	0.002	4	1.24	0.003	0.09	<0.1	7.1	0.12	0.03	76	0.4	0.07	4.3	7.82	<0.1	0.09
REP 612127	QC	9.8	25.7	0.36	119.4	0.002	4	1.26	0.003	0.09	<0.1	7.8	0.13	0.03	89	0.4	0.07	4.5	8.44	<0.1	0.10
612132	Soil	10.7	10.1	1.16	39.0	0.002	3	0.22	0.005	0.04	<0.1	4.3	0.12	0.02	790	0.7	0.04	0.7	0.70	<0.1	0.05
REP 612132	QC	10.3	10.1	1.12	40.8	0.002	2	0.21	0.005	0.04	<0.1	4.3	0.11	<0.02	661	0.6	0.03	0.7	0.72	<0.1	0.07
612217	Soil	4.5	24.2	0.61	137.4	0.007	1	1.65	0.002	0.06	<0.1	3.6	0.10	<0.02	37	0.2	0.09	4.8	4.85	<0.1	0.02
REP 612217	QC	4.7	24.7	0.60	147.8	0.007	3	1.62	0.002	0.06	<0.1	3.6	0.12	<0.02	21	0.3	0.09	4.7	5.01	<0.1	0.04
612232	Soil	5.8	21.3	0.34	42.8	0.007	<1	1.33	<0.001	0.06	<0.1	2.3	0.10	0.02	128	0.3	0.04	3.7	4.02	<0.1	<0.02
REP 612232	QC	5.5	20.8	0.32	39.8	0.007	1	1.31	<0.001	0.06	<0.1	2.2	0.09	0.02	103	0.2	0.06	3.5	3.85	<0.1	<0.02
612249	Soil	17.5	31.7	0.50	172.7	0.011	1	2.00	0.005	0.05	0.2	3.8	0.10	<0.02	98	0.3	<0.02	5.4	2.08	<0.1	0.04
REP 612249	QC	17.8	31.4	0.50	173.3	0.012	<1	2.05	0.005	0.05	0.2	3.9	0.12	<0.02	92	0.3	0.02	5.5	2.12	<0.1	0.03
612077	Soil	8.8	20.5	0.32	80.1	0.019	2	1.18	0.002	0.05	<0.1	2.8	0.07	<0.02	25	0.2	0.04	3.3	2.01	<0.1	<0.02
REP 612077	QC	8.1	19.4	0.32	78.6	0.017	2	1.16	0.002	0.04	<0.1	2.4	0.07	<0.02	15	0.1	0.03	3.3	1.90	<0.1	<0.02
118349	Soil	4.4	11.7	0.06	62.4	0.003	1	0.69	0.004	0.08	<0.1	2.2	0.07	<0.02	34	0.1	0.04	3.5	1.49	<0.1	<0.02
REP 118349	QC	4.4	11.6	0.06	58.0	0.003	2	0.68	0.002	0.08	<0.1	2.3	0.07	<0.02	42	0.2	0.04	3.5	1.48	<0.1	<0.02
612015	Soil	8.7	18.9	0.26	116.4	0.002	2	1.11	0.002	0.08	<0.1	5.5	0.09	<0.02	60	0.4	0.04	3.1	4.16	<0.1	0.04
REP 612015	QC	8.5	18.2	0.25	107.7	0.002	3	1.10	0.002	0.08	<0.1	5.4	0.09	<0.02	69	0.4	<0.02	3.0	3.90	<0.1	0.06
612043	Soil	11.6	34.9	0.89	74.5	0.002	3	1.76	0.002	0.08	<0.1	4.3	0.10	<0.02	72	<0.1	0.06	4.6	2.65	<0.1	0.04
REP 612043	QC	12.4	35.9	0.91	76.8	0.004	3	1.75	0.002	0.09	<0.1	4.4	0.11	<0.02	76	0.2	0.05	5.1	3.63	<0.1	0.04
612805	Soil	6.1	17.9	0.13	93.5	0.004	3	0.76	0.003	0.09	<0.1	0.7	0.09	0.05	179	0.4	0.06	3.7	2.33	<0.1	<0.02
REP 612805	QC	5.8	17.5	0.12	89.1	0.004	3	0.74	0.003	0.08	<0.1	0.8	0.08	0.05	99	0.3	0.06	3.6	2.33	<0.1	<0.02
612833	Soil	5.8	17.9	0.37	57.2	0.002	2	0.66	0.003	0.07	<0.1	4.6	0.15	0.04	260	0.7	0.07	2.1	4.76	<0.1	0.05
REP 612833	QC	5.8	18.4	0.37	56.7	0.002	2	0.66	0.003	0.07	<0.1	4.5	0.14	0.05	230	0.7	0.09	2.2	4.69	<0.1	0.06

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 1 of 3 Part 3

QUALITY CONTROL REPORT

WHI11000950.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
612511	Soil	0.13	8.9	2.8	<0.05	3.4	22.30	18.6	0.05	<1	1.2	38.1	<10	<2
REP 612511	QC	0.16	8.3	2.7	<0.05	3.3	21.03	17.7	0.06	<1	1.4	36.8	12	<2
612527	Soil	0.11	7.4	6.0	<0.05	1.0	29.49	53.1	0.04	<1	1.2	4.6	<10	<2
REP 612527	QC	0.11	8.9	7.8	<0.05	1.4	30.25	54.8	0.06	<1	1.4	5.7	<10	<2
612542	Soil	0.43	9.3	1.4	<0.05	0.9	5.35	24.5	0.03	<1	0.5	18.2	<10	<2
REP 612542	QC	0.46	9.3	1.4	<0.05	0.8	5.40	24.2	0.03	<1	0.6	16.5	<10	<2
612127	Soil	0.16	11.5	4.4	<0.05	2.8	14.85	23.1	0.03	<1	1.7	39.6	<10	<2
REP 612127	QC	0.19	12.5	5.6	<0.05	3.1	16.48	23.6	0.04	<1	1.5	42.4	<10	<2
612132	Soil	0.06	2.4	2.7	<0.05	1.6	12.37	25.1	0.03	<1	0.8	3.2	<10	<2
REP 612132	QC	0.07	2.5	2.9	<0.05	1.6	11.61	25.3	0.02	<1	0.8	3.1	<10	<2
612217	Soil	0.22	8.2	1.6	<0.05	0.9	5.76	15.0	0.03	<1	1.2	49.3	<10	<2
REP 612217	QC	0.22	8.6	1.6	<0.05	1.1	6.01	16.1	0.04	<1	1.5	52.2	<10	<2
612232	Soil	0.38	10.3	3.5	<0.05	0.6	3.54	14.6	0.05	<1	0.8	24.1	<10	<2
REP 612232	QC	0.39	9.7	3.1	<0.05	0.7	3.40	13.9	0.04	1	0.7	23.6	<10	<2
612249	Soil	0.91	11.3	30.5	<0.05	1.5	10.48	50.2	<0.02	<1	1.5	28.9	<10	<2
REP 612249	QC	0.94	12.1	33.8	<0.05	1.3	10.38	52.2	<0.02	<1	1.1	29.6	<10	<2
612077	Soil	0.27	5.9	4.7	<0.05	0.1	6.43	19.9	0.02	1	0.7	22.6	<10	<2
REP 612077	QC	0.24	5.8	4.9	<0.05	0.2	6.37	19.0	<0.02	<1	0.5	23.6	<10	<2
118349	Soil	0.24	12.4	0.7	<0.05	0.8	2.27	9.7	0.03	2	0.3	6.6	<10	<2
REP 118349	QC	0.19	12.1	0.8	<0.05	0.5	2.20	9.7	0.02	1	0.3	6.4	<10	<2
612015	Soil	0.14	8.0	0.8	<0.05	1.8	12.49	19.1	0.05	<1	1.5	25.8	11	<2
REP 612015	QC	0.13	7.7	0.8	<0.05	1.8	12.22	18.6	0.03	<1	1.3	24.2	<10	<2
612043	Soil	0.18	10.0	2.7	<0.05	1.6	6.27	37.2	0.04	<1	1.1	58.5	<10	<2
REP 612043	QC	0.17	11.6	3.0	<0.05	1.9	6.35	39.2	0.05	<1	1.2	58.1	<10	<2
612805	Soil	0.15	12.4	1.0	<0.05	0.1	3.34	14.5	0.04	<1	0.5	7.4	<10	<2
REP 612805	QC	0.12	12.7	1.1	<0.05	0.3	3.37	13.7	0.04	<1	0.6	7.3	<10	<2
612833	Soil	0.11	10.6	0.8	<0.05	1.6	5.95	12.5	0.04	<1	1.1	13.2	<10	<2
REP 612833	QC	0.13	10.3	0.6	<0.05	1.7	5.95	12.7	0.03	<1	0.8	13.0	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: **Scarlet**
 Report Date: **September 05, 2011**

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000950.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612954	Soil	1.06	23.28	18.65	65.0	33	17.6	6.6	127	2.76	10.4	0.4	3.3	0.2	5.6	0.08	0.74	0.28	33	0.02	0.044
REP 612954	QC	1.14	25.43	20.69	71.4	22	18.5	6.9	141	2.88	11.4	0.5	2.9	0.3	6.1	0.11	0.90	0.31	33	0.03	0.049
612968	Soil	1.27	19.82	30.58	84.9	52	16.1	12.2	1208	5.92	10.6	0.8	1.0	0.3	7.5	0.25	0.67	0.38	43	0.06	0.124
REP 612968	QC	1.19	19.55	29.07	80.3	43	15.7	11.6	1181	5.80	10.3	0.8	1.7	0.3	7.3	0.25	0.66	0.36	43	0.06	0.118
612988	Soil	0.74	31.26	23.95	69.8	77	27.6	11.2	522	2.88	10.2	2.1	1.6	2.2	58.3	0.12	0.66	0.27	16	1.02	0.051
REP 612988	QC	0.76	32.28	25.34	71.6	84	27.8	11.4	522	2.91	9.8	2.1	1.5	2.2	57.5	0.13	0.68	0.27	17	1.01	0.051
612702	Soil	0.60	15.99	18.35	57.9	30	15.1	8.2	258	2.35	10.4	0.3	1.6	0.3	7.6	0.07	0.48	0.23	20	0.09	0.068
REP 612702	QC	0.60	15.08	18.51	55.7	31	14.4	8.5	269	2.28	10.6	0.3	1.6	0.3	7.3	0.06	0.46	0.23	19	0.08	0.070
Reference Materials																					
STD DS8	Standard	11.06	101.6	125.3	305.2	1839	36.0	6.7	550	2.28	24.6	2.8	115.8	6.7	59.8	2.39	5.66	7.08	37	0.64	0.076
STD DS8	Standard	13.55	114.1	123.1	326.4	1792	40.1	8.0	640	2.55	27.8	2.5	108.3	6.4	66.4	2.52	5.46	6.62	43	0.73	0.087
STD DS8	Standard	13.80	113.7	119.5	324.6	1671	39.7	8.1	641	2.59	27.4	2.7	106.6	6.7	67.0	2.36	5.45	6.52	43	0.75	0.085
STD DS8	Standard	13.56	109.6	121.2	316.6	1657	38.2	7.7	574	2.41	22.5	2.7	109.3	6.8	65.9	2.11	5.39	6.38	41	0.73	0.072
STD DS8	Standard	12.94	107.5	117.7	301.0	1759	36.8	7.3	582	2.39	24.3	2.7	100.3	6.9	65.6	2.28	5.35	6.12	40	0.70	0.079
STD DS8	Standard	13.30	114.5	117.7	299.2	1659	39.1	7.5	598	2.46	25.5	2.7	110.3	6.7	59.9	2.30	5.11	6.15	38	0.71	0.080
STD DS8	Standard	12.73	102.1	109.3	303.0	1525	34.1	6.7	579	2.29	24.1	2.4	112.5	5.9	60.7	2.27	5.12	5.87	38	0.68	0.074
STD DS8	Standard	14.23	117.1	123.0	299.8	1763	40.2	8.0	581	2.44	25.4	2.5	111.0	6.2	52.7	2.21	5.05	5.79	41	0.70	0.076
STD DS8	Standard	14.09	115.3	135.5	322.1	1742	41.7	7.1	612	2.53	24.0	2.9	110.8	7.1	61.7	2.18	5.13	6.56	41	0.71	0.074
STD DS8	Standard	13.10	106.6	128.3	316.0	1846	36.1	7.1	620	2.59	26.9	2.6	121.3	6.5	64.8	2.35	5.85	6.83	43	0.74	0.082
STD DS8	Standard	13.39	112.4	122.5	312.1	1703	39.5	7.8	587	2.43	26.5	2.8	109.6	6.8	60.5	2.16	5.39	6.07	39	0.70	0.078
STD DS8	Standard	13.04	110.0	116.1	320.1	1735	39.0	7.5	643	2.52	26.0	2.7	110.3	6.7	71.4	2.43	5.93	6.87	42	0.72	0.079
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: September 05, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000950.1

		1F15 La ppm	1F15 Cr ppm	1F15 Mg %	1F15 Ba ppm	1F15 Ti %	1F15 B ppm	1F15 Al %	1F15 Na %	1F15 K %	1F15 W ppm	1F15 Sc ppm	1F15 Ti ppm	1F15 S %	1F15 Hg ppb	1F15 Se ppm	1F15 Te ppm	1F15 Ga ppm	1F15 Cs ppm	1F15 Ge ppm	1F15 Hf ppm
612954	Soil	6.0	13.6	0.10	30.4	0.004	1	0.60	0.002	0.05	<0.1	0.8	0.10	<0.02	35	0.2	0.04	3.9	2.09	<0.1	<0.02
REP 612954	QC	6.9	14.5	0.12	33.5	0.007	2	0.60	0.002	0.05	0.1	1.1	0.10	<0.02	40	0.3	0.05	4.1	2.65	<0.1	<0.02
612968	Soil	7.3	37.0	0.26	83.9	0.008	2	1.81	0.001	0.07	<0.1	1.0	0.11	0.09	55	0.4	0.06	6.7	2.85	<0.1	<0.02
REP 612968	QC	7.2	35.3	0.25	82.6	0.008	2	1.80	0.001	0.07	<0.1	0.9	0.11	0.09	54	0.4	0.04	6.6	2.87	<0.1	<0.02
612988	Soil	10.1	29.7	0.63	158.3	0.003	3	1.23	0.002	0.06	<0.1	3.6	0.07	0.04	209	0.8	0.05	3.7	1.11	<0.1	0.04
REP 612988	QC	10.4	29.2	0.65	161.9	0.004	3	1.26	0.002	0.07	<0.1	3.8	0.07	0.04	221	0.9	0.02	3.5	1.20	<0.1	0.04
612702	Soil	4.7	11.6	0.05	61.5	0.003	2	0.54	0.004	0.07	<0.1	0.7	0.10	0.03	45	0.2	0.03	3.3	2.56	<0.1	<0.02
REP 612702	QC	4.6	11.1	0.05	58.8	0.003	3	0.53	0.003	0.07	<0.1	0.7	0.11	0.02	49	0.3	0.05	3.1	2.58	<0.1	<0.02
Reference Materials																					
STD DS8	Standard	12.8	110.0	0.57	265.3	0.097	3	0.83	0.075	0.38	2.9	2.1	5.17	0.15	212	4.8	4.85	4.3	2.34	<0.1	0.08
STD DS8	Standard	14.6	124.4	0.63	288.1	0.118	3	0.94	0.088	0.43	3.1	2.2	5.45	0.17	187	4.8	5.20	4.6	2.60	<0.1	0.08
STD DS8	Standard	15.5	118.3	0.63	297.2	0.119	3	0.96	0.090	0.43	3.1	2.2	5.29	0.17	211	5.1	5.11	4.5	2.54	0.1	0.08
STD DS8	Standard	16.4	117.3	0.61	258.1	0.122	2	0.95	0.103	0.42	2.7	2.3	4.97	0.15	194	4.7	4.39	4.7	2.28	<0.1	0.06
STD DS8	Standard	15.3	114.4	0.60	268.9	0.121	2	0.90	0.082	0.40	2.8	1.9	5.02	0.16	188	4.9	4.96	4.5	2.32	<0.1	0.07
STD DS8	Standard	15.2	114.8	0.61	268.6	0.112	3	0.92	0.084	0.41	2.8	2.2	5.02	0.16	185	5.1	5.02	4.6	2.45	<0.1	0.09
STD DS8	Standard	14.2	106.7	0.58	257.8	0.106	3	0.87	0.084	0.39	2.4	2.1	4.96	0.15	174	4.6	4.78	4.3	2.32	<0.1	0.07
STD DS8	Standard	13.6	124.9	0.60	268.2	0.108	2	0.88	0.082	0.41	3.3	2.0	5.50	0.16	199	5.3	5.09	4.6	2.55	0.1	0.10
STD DS8	Standard	15.2	125.8	0.62	266.2	0.115	2	0.93	0.084	0.41	3.1	2.2	5.64	0.16	216	5.1	4.86	4.6	2.46	<0.1	0.07
STD DS8	Standard	14.4	120.8	0.64	296.0	0.109	3	0.98	0.102	0.44	3.2	2.2	5.85	0.17	217	5.1	5.17	4.5	2.57	0.1	0.07
STD DS8	Standard	15.5	117.5	0.60	271.0	0.113	3	0.89	0.082	0.40	3.2	2.1	5.31	0.16	184	5.2	5.11	4.7	2.45	0.1	0.07
STD DS8	Standard	15.6	118.2	0.62	276.4	0.117	<1	0.95	0.091	0.42	3.1	2.1	5.39	0.17	202	5.1	5.20	4.9	2.58	0.2	0.07
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 2 of 3 Part 3

QUALITY CONTROL REPORT

WHI11000950.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
612954	Soil	0.19	11.3	4.3	<0.05	<0.1	2.00	12.8	0.03	<1	0.2	4.6	<10	<2
REP 612954	QC	0.17	13.7	5.4	<0.05	<0.1	2.22	14.5	0.03	<1	0.2	4.8	<10	<2
612968	Soil	0.43	12.5	4.0	<0.05	0.1	4.60	20.1	0.04	<1	0.8	14.0	<10	<2
REP 612968	QC	0.40	12.4	3.0	<0.05	0.1	4.53	19.6	0.04	<1	0.8	13.4	<10	<2
612988	Soil	0.29	7.8	5.0	<0.05	1.5	8.08	27.4	0.03	<1	0.7	33.1	<10	<2
REP 612988	QC	0.28	8.3	6.3	<0.05	1.4	7.96	28.4	<0.02	<1	0.8	34.0	<10	<2
612702	Soil	0.12	12.7	3.0	<0.05	0.1	1.41	9.7	<0.02	<1	0.3	3.3	<10	<2
REP 612702	QC	0.13	12.3	3.1	<0.05	<0.1	1.43	9.7	<0.02	<1	0.2	3.0	<10	<2
Reference Materials														
STD DS8	Standard	1.11	33.5	6.8	<0.05	1.8	4.92	24.3	2.03	56	5.9	26.6	109	367
STD DS8	Standard	1.19	39.5	7.0	<0.05	2.1	6.23	27.0	2.16	53	5.5	27.0	96	336
STD DS8	Standard	1.24	39.8	6.6	<0.05	2.1	6.03	29.0	2.14	64	5.4	26.1	105	337
STD DS8	Standard	1.26	35.6	6.4	<0.05	2.0	6.22	28.7	2.05	52	4.6	25.6	110	325
STD DS8	Standard	1.20	35.7	6.6	<0.05	2.1	5.92	27.7	2.14	53	5.2	26.2	103	326
STD DS8	Standard	1.34	37.0	6.2	<0.05	2.2	5.80	27.7	2.15	48	5.6	25.7	116	325
STD DS8	Standard	1.19	36.3	6.3	<0.05	2.1	5.38	24.7	2.01	49	4.8	22.5	102	306
STD DS8	Standard	1.41	38.9	5.7	<0.05	2.1	5.68	26.1	1.89	52	5.9	26.8	110	355
STD DS8	Standard	1.17	37.3	6.9	<0.05	1.6	5.86	28.6	2.17	60	5.1	25.6	118	361
STD DS8	Standard	1.29	39.1	6.7	<0.05	1.8	5.80	29.7	2.17	45	5.4	29.4	118	357
STD DS8	Standard	1.48	37.8	6.3	<0.05	1.6	6.23	31.5	2.11	53	5.0	25.6	100	317
STD DS8	Standard	1.26	42.1	7.4	<0.05	1.9	6.42	26.5	2.49	54	5.9	26.2	110	346
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 05, 2011

Page: 3 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000950.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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830 - 355 Burrard St.
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Project: Scarlet

Report Date: September 05, 2011

Page: 3 of 3 **Part** 2

QUALITY CONTROL REPORT

WHI11000950.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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Report Date: September 05, 2011

Page: 3 of 3 **Part** 3

QUALITY CONTROL REPORT

WHI11000950.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	0.05	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: July 29, 2011
Report Date: September 30, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11000951.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-16
P.O. Number: NA-10337
Number of Samples: 320

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	320	Dry at 60C			WHI
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
RJSV	320	Saving all or part of Soil Reject			WHI
1F05	318	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: Scott Turton
David Clark
database backup
Simon Ridgway



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612717	Soil			0.67	23.05	24.55	72.6	39	22.8	9.7	289	3.46	13.8	0.5	0.7	1.9	13.4	0.05	0.40	0.32	26	0.04	0.031
612718	Soil			1.01	21.34	32.86	65.7	50	22.0	8.1	256	2.99	13.4	0.4	1.3	0.7	12.3	0.05	0.39	0.31	26	0.03	0.042
612719	Soil			0.59	29.81	32.92	91.1	81	34.7	14.7	506	4.19	17.0	0.6	1.2	2.9	20.3	0.11	0.45	0.35	24	0.09	0.043
612720	Soil			0.65	24.52	26.12	82.6	108	23.2	8.0	268	2.56	46.0	0.8	1.7	1.2	42.1	0.11	0.69	0.27	20	0.18	0.088
612721	Soil			0.43	24.19	19.73	86.0	62	27.6	9.4	314	2.89	17.3	0.8	1.3	3.4	54.3	0.09	0.36	0.27	19	0.56	0.057
612722	Soil			0.58	35.32	29.57	79.5	104	31.6	11.9	249	3.00	15.9	1.0	2.5	3.7	62.3	0.10	0.62	0.30	19	0.89	0.050
612723	Soil			0.52	29.41	22.07	88.7	114	26.5	11.1	438	3.14	13.9	2.3	4.5	2.2	39.0	0.13	0.52	0.28	19	0.45	0.051
612724	Soil			0.84	58.07	39.76	102.3	74	35.3	16.4	894	3.87	43.9	1.6	14.4	2.3	57.2	0.09	3.87	0.43	8	0.55	0.051
612725	Soil			0.91	53.47	35.30	103.1	50	29.4	19.0	748	3.89	37.8	0.6	2.5	2.1	25.4	0.06	0.92	0.43	16	0.17	0.037
612726	Soil			0.53	45.00	27.80	104.7	80	40.2	16.5	517	3.23	16.3	0.7	2.0	5.0	60.4	0.15	0.87	0.33	17	0.94	0.049
612546	Soil			1.06	28.42	32.41	76.6	112	25.6	13.4	566	4.19	18.9	0.6	<0.2	1.0	21.4	0.09	0.60	0.38	34	0.22	0.089
612547	Soil			1.18	39.04	50.86	94.0	66	26.8	14.5	902	4.82	17.5	0.5	<0.2	0.5	17.3	0.11	0.68	0.43	32	0.08	0.072
612548	Soil			1.33	42.48	81.46	93.6	106	29.3	37.0	3047	5.16	15.0	0.8	1.0	1.3	20.4	0.31	0.55	0.41	31	0.10	0.119
612549	Soil			1.46	31.55	56.96	76.7	157	17.8	8.2	551	3.80	12.6	0.5	1.3	0.9	11.2	0.12	0.59	0.43	33	0.04	0.081
612550	Soil			1.71	45.34	43.55	103.8	71	28.3	25.9	1954	4.81	16.8	0.8	1.9	1.8	17.4	0.10	0.83	0.41	43	0.07	0.118
118037	Soil			1.50	26.21	28.73	82.2	97	21.2	10.4	741	3.79	12.6	0.8	<0.2	0.2	10.1	0.16	0.76	0.33	42	0.06	0.098
118038	Soil			1.48	24.61	30.91	88.8	59	19.5	15.6	1348	5.82	11.1	0.7	<0.2	0.2	9.4	0.23	0.85	0.44	44	0.10	0.112
118039	Soil			0.83	32.15	30.00	87.3	131	25.8	12.8	694	3.31	13.5	0.9	<0.2	0.4	11.5	0.12	0.60	0.36	24	0.10	0.079
118040	Soil			0.55	40.43	26.53	101.1	60	45.4	17.3	3555	4.36	15.4	1.6	<0.2	6.4	25.4	0.46	0.66	0.36	16	0.27	0.100
118041	Soil			1.94	28.44	25.60	85.4	504	24.9	9.6	528	2.16	40.1	5.4	22.4	0.8	123.4	0.38	5.23	0.21	19	2.12	0.104
118042	Soil			1.30	20.94	22.05	77.5	205	21.1	8.8	416	2.49	22.0	2.6	3.7	1.6	42.4	0.35	3.27	0.21	25	0.66	0.058
118043	Soil			0.83	19.16	20.05	68.4	212	16.3	6.5	383	1.68	35.4	1.6	6.0	0.7	44.6	0.26	3.74	0.13	12	0.89	0.059
118044	Soil			0.91	40.92	25.22	108.4	119	36.9	16.8	414	2.21	62.0	1.8	18.7	4.3	92.3	0.29	8.35	0.19	9	3.44	0.073
118045	Soil			0.88	43.32	29.54	119.4	114	40.3	15.7	562	3.21	150.3	1.1	25.0	5.3	109.1	0.25	5.59	0.26	11	2.46	0.086
118046	Soil			0.43	45.32	22.04	116.4	62	50.6	15.1	239	3.66	13.6	0.9	2.8	3.5	36.2	0.09	1.05	0.36	13	0.37	0.034
118047	Soil			0.57	54.62	41.95	151.7	128	71.8	22.7	956	5.95	34.3	1.0	9.5	3.2	31.0	0.10	2.37	0.39	13	0.11	0.044
118048	Soil			0.73	50.41	52.86	138.3	44	54.2	24.2	1410	4.51	8.1	0.9	2.2	3.8	21.1	0.21	0.85	0.44	22	0.09	0.104
118049	Soil			0.99	26.27	15.62	84.7	25	19.8	8.2	341	3.10	12.3	0.6	<0.2	0.9	17.9	0.08	0.67	0.32	32	0.16	0.050
118050	Soil			1.26	23.11	24.27	79.0	25	23.3	8.5	179	1.69	32.2	0.6	<0.2	1.2	64.1	0.16	0.97	0.24	21	0.05	0.039
118867	Soil			1.76	32.66	41.56	105.3	30	36.8	12.4	182	2.82	241.8	0.5	1.1	1.6	86.2	0.12	2.22	0.28	24	0.13	0.045



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Project: Scarlet
 Report Date: September 30, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
612717	Soil	6.8	19.4	0.21	71.8	0.003	1	1.10	0.001	0.06	<0.1	2.3	0.11	<0.02	76	0.2	0.05	3.9	2.00	<0.1	<0.02
612718	Soil	6.4	22.7	0.19	51.1	0.003	2	0.98	0.002	0.07	<0.1	1.4	0.10	<0.02	60	0.2	0.04	4.0	1.91	<0.1	<0.02
612719	Soil	8.1	24.9	0.44	77.8	0.003	2	1.52	0.002	0.08	<0.1	3.4	0.09	<0.02	112	0.3	0.05	3.9	2.50	<0.1	0.03
612720	Soil	6.6	19.0	0.13	82.4	0.002	4	0.78	0.003	0.10	<0.1	2.9	0.19	0.04	186	0.4	0.05	3.6	5.54	<0.1	<0.02
612721	Soil	11.0	26.2	0.46	90.6	0.002	3	1.16	0.002	0.08	<0.1	4.8	0.10	0.02	126	0.4	0.03	3.4	1.80	<0.1	0.06
612722	Soil	11.4	24.0	0.49	79.5	0.004	3	1.09	0.005	0.07	<0.1	5.5	0.07	0.03	449	0.6	0.04	3.2	1.61	<0.1	0.10
612723	Soil	11.5	22.7	0.52	90.5	0.003	2	1.23	0.002	0.05	<0.1	4.1	0.08	0.03	438	0.5	<0.02	3.2	1.48	<0.1	0.06
612724	Soil	6.8	12.6	0.27	50.8	<0.001	5	0.41	0.005	0.07	<0.1	5.6	0.09	0.06	122	0.5	0.03	1.1	5.98	<0.1	0.08
612725	Soil	5.1	18.4	0.17	38.6	0.001	2	0.65	0.004	0.06	<0.1	3.7	0.10	0.03	163	0.6	0.09	2.5	3.35	<0.1	0.03
612726	Soil	11.2	27.4	0.84	63.1	0.006	3	1.17	0.005	0.07	<0.1	5.6	0.06	0.02	207	0.5	0.04	3.7	2.04	<0.1	0.07
612546	Soil	5.7	22.8	0.24	187.3	0.004	2	1.45	0.005	0.07	<0.1	2.2	0.15	0.05	52	0.2	<0.02	5.2	2.56	<0.1	<0.02
612547	Soil	4.3	20.5	0.18	48.4	0.006	2	0.81	0.004	0.06	<0.1	2.0	0.07	0.05	32	0.3	0.05	4.3	4.51	<0.1	<0.02
612548	Soil	5.3	33.0	0.36	129.7	0.007	5	1.59	0.005	0.08	<0.1	3.1	0.11	0.08	52	0.3	0.07	5.6	6.74	<0.1	0.02
612549	Soil	4.8	28.3	0.17	70.9	0.006	2	1.19	0.004	0.08	0.1	1.6	0.10	0.06	76	0.2	0.09	6.1	3.98	<0.1	<0.02
612550	Soil	9.2	27.5	0.47	70.7	0.018	3	1.69	0.008	0.08	0.1	3.5	0.16	0.03	51	0.7	0.09	6.0	6.87	<0.1	<0.02
118037	Soil	8.1	29.3	0.32	67.3	0.010	2	1.52	0.005	0.07	0.1	0.9	0.13	0.09	54	0.5	0.04	5.4	4.07	<0.1	<0.02
118038	Soil	7.0	38.2	0.31	76.0	0.010	<1	1.74	0.004	0.08	<0.1	0.6	0.09	0.10	33	0.5	<0.02	7.2	3.18	<0.1	<0.02
118039	Soil	6.2	20.0	0.15	79.4	0.003	2	0.85	0.005	0.05	<0.1	1.4	0.10	0.06	44	0.3	0.06	3.1	2.97	<0.1	<0.02
118040	Soil	14.9	16.4	0.23	122.1	0.004	<1	1.31	0.004	0.05	<0.1	6.6	0.05	<0.02	132	0.4	0.05	2.0	1.13	<0.1	0.03
118041	Soil	10.7	14.5	0.13	88.8	0.004	1	0.60	0.008	0.04	<0.1	2.3	0.12	0.10	734	1.1	<0.02	1.7	0.60	<0.1	0.04
118042	Soil	14.5	16.5	0.19	78.8	0.009	1	0.76	0.006	0.05	0.1	3.9	0.11	0.04	329	0.5	0.02	2.0	0.91	<0.1	0.03
118043	Soil	11.9	8.6	0.22	54.9	0.003	3	0.35	0.005	0.04	<0.1	2.2	0.09	0.06	272	1.0	<0.02	0.8	0.63	<0.1	0.03
118044	Soil	12.0	9.2	1.23	114.7	0.002	3	0.22	0.006	0.06	<0.1	5.3	0.18	0.03	788	1.2	<0.02	0.6	1.69	<0.1	0.05
118045	Soil	12.6	15.6	1.27	84.1	0.002	3	0.25	0.008	0.07	<0.1	7.4	0.29	0.08	442	1.2	0.05	0.8	1.19	<0.1	0.05
118046	Soil	8.8	17.7	0.30	42.8	0.002	3	0.52	0.004	0.06	<0.1	8.4	0.10	0.03	249	0.5	<0.02	1.4	6.49	<0.1	0.06
118047	Soil	11.1	20.1	0.14	59.4	0.002	2	0.53	0.003	0.07	<0.1	18.5	0.21	<0.02	747	0.6	<0.02	1.5	17.67	<0.1	<0.02
118048	Soil	8.1	41.4	0.95	89.4	0.006	2	1.88	0.004	0.07	<0.1	7.7	0.13	0.05	40	0.6	<0.02	5.3	9.93	<0.1	0.09
118049	Soil	8.4	21.1	0.21	77.3	0.004	1	1.01	0.003	0.05	<0.1	1.7	0.13	<0.02	39	0.4	0.05	4.6	1.82	<0.1	<0.02
118050	Soil	11.0	16.9	0.04	57.2	0.003	2	0.45	0.003	0.05	<0.1	2.2	0.06	<0.02	126	0.8	0.03	2.6	1.56	<0.1	<0.02
118867	Soil	9.7	28.5	0.08	58.7	0.004	2	0.45	0.003	0.04	<0.1	3.1	0.39	<0.02	324	0.7	0.06	2.5	1.41	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 2 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
612717	Soil			0.26	11.9	10.3	<0.05	0.3	3.61	17.4	0.04	<1	0.6	19.2	<10	<2
612718	Soil			0.22	12.3	27.8	<0.05	<0.1	2.74	15.7	0.04	<1	0.4	14.9	<10	<2
612719	Soil			0.22	8.9	15.3	<0.05	0.8	6.77	22.1	0.05	<1	1.0	47.9	<10	<2
612720	Soil			0.18	12.8	10.7	<0.05	0.4	4.03	16.3	0.03	1	0.4	8.2	<10	<2
612721	Soil			0.22	8.4	6.4	<0.05	1.9	9.31	26.0	0.04	<1	0.8	29.6	<10	<2
612722	Soil			0.24	7.0	17.7	<0.05	3.6	13.45	22.4	0.02	<1	1.0	29.4	<10	<2
612723	Soil			0.22	7.7	3.9	<0.05	1.7	11.79	28.4	0.04	<1	0.9	28.5	<10	<2
612724	Soil			0.08	7.4	13.3	<0.05	2.8	6.51	13.5	<0.02	1	0.6	7.7	<10	<2
612725	Soil			0.12	9.1	12.2	<0.05	1.4	3.23	10.9	<0.02	2	0.7	10.0	<10	<2
612726	Soil			0.18	6.2	4.5	<0.05	3.4	10.46	24.8	0.04	2	0.8	36.9	<10	<2
612546	Soil			0.46	14.6	7.1	<0.05	0.6	5.01	17.2	0.03	<1	0.7	26.1	<10	<2
612547	Soil			0.23	12.6	21.8	<0.05	<0.1	3.58	9.5	<0.02	2	0.6	10.8	<10	<2
612548	Soil			0.32	12.8	22.1	<0.05	0.5	6.11	15.0	<0.02	1	1.7	34.0	<10	<2
612549	Soil			0.52	13.6	27.1	<0.05	0.4	2.39	9.7	<0.02	<1	0.8	12.6	<10	<2
612550	Soil			0.28	12.9	2.9	<0.05	0.2	6.88	22.4	0.05	<1	0.9	28.6	<10	<2
118037	Soil			0.41	13.7	10.8	<0.05	<0.1	4.68	17.4	0.02	1	0.4	17.4	<10	<2
118038	Soil			0.44	12.5	5.2	<0.05	<0.1	3.07	16.0	0.03	<1	1.0	12.2	<10	<2
118039	Soil			0.12	9.8	9.9	<0.05	0.2	6.99	17.9	<0.02	<1	0.9	11.0	<10	<2
118040	Soil			0.11	4.5	1.1	<0.05	1.8	20.03	64.4	0.05	1	1.8	19.5	<10	<2
118041	Soil			0.25	4.3	7.3	<0.05	1.5	13.46	23.2	<0.02	<1	0.5	5.5	<10	<2
118042	Soil			0.31	6.6	3.9	<0.05	1.1	13.73	33.3	<0.02	3	0.8	7.4	<10	<2
118043	Soil			0.10	3.7	4.3	<0.05	1.2	12.17	26.0	<0.02	1	0.3	2.9	<10	<2
118044	Soil			0.06	3.7	5.2	<0.05	1.7	13.40	29.1	0.03	<1	0.7	2.2	<10	<2
118045	Soil			0.06	4.6	11.5	<0.05	1.8	14.20	29.0	0.03	<1	0.7	2.0	<10	<2
118046	Soil			0.10	5.9	3.1	<0.05	2.0	11.97	16.5	0.03	1	0.9	10.8	<10	<2
118047	Soil			0.08	8.6	4.7	<0.05	0.6	22.79	18.9	0.06	<1	1.3	6.8	<10	<2
118048	Soil			0.21	9.8	13.7	<0.05	2.7	15.29	24.5	<0.02	<1	1.4	56.5	<10	<2
118049	Soil			0.26	10.8	2.7	<0.05	0.2	3.45	17.7	0.03	<1	0.5	12.3	<10	<2
118050	Soil			0.10	8.2	13.8	<0.05	<0.1	3.24	23.6	<0.02	2	<0.1	1.9	<10	<2
118867	Soil			0.18	7.7	20.9	<0.05	0.1	4.32	22.6	<0.02	<1	<0.1	2.1	<10	2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
118868	Soil			1.06	33.20	35.25	113.4	66	43.4	15.6	456	3.32	59.6	0.9	2.6	3.2	124.6	0.17	1.09	0.27	21	0.75	0.116
118869	Soil			0.85	31.08	24.00	86.7	82	36.9	13.4	245	2.93	45.7	0.9	2.5	2.7	71.5	0.11	0.84	0.29	20	0.56	0.064
118870	Soil			0.67	27.82	21.53	75.3	57	29.7	12.0	320	2.86	13.7	0.8	1.9	2.4	44.7	0.08	0.43	0.27	20	0.52	0.047
118871	Soil			0.75	27.96	18.75	67.2	42	23.2	8.9	240	2.78	13.2	1.1	<0.2	2.3	55.2	0.07	0.43	0.30	30	0.59	0.050
118872	Soil			0.73	25.81	18.27	82.3	52	25.1	10.5	369	2.79	14.3	2.2	1.4	2.3	56.4	0.17	0.55	0.28	29	0.64	0.061
118873	Soil			0.70	34.08	18.44	70.8	192	27.0	13.5	596	2.77	14.5	3.8	3.4	1.8	95.7	0.15	0.58	0.27	24	1.55	0.095
118874	Soil			0.53	34.09	20.32	81.5	98	30.1	12.0	334	2.79	12.7	2.1	1.5	2.4	66.1	0.15	0.43	0.27	19	0.98	0.053
118875	Soil			0.75	27.41	26.24	104.5	53	31.4	14.2	643	3.05	13.6	1.7	0.6	2.7	35.6	0.35	0.50	0.26	19	0.47	0.063
118876	Soil			0.64	72.10	33.25	100.7	72	39.2	22.0	577	4.47	19.2	0.6	1.8	2.6	20.5	0.05	1.00	0.41	16	0.11	0.041
118877	Soil			0.59	40.88	26.31	81.3	51	37.1	14.8	389	3.37	11.7	0.8	2.1	3.4	33.2	0.13	0.64	0.32	20	0.35	0.046
118878	Soil			0.74	29.52	21.71	80.3	17	31.3	14.7	458	3.21	14.9	1.1	1.3	4.1	20.9	0.21	0.59	0.27	21	0.10	0.020
118879	Soil			0.73	29.71	33.45	77.8	107	27.8	14.8	811	2.83	10.7	1.4	3.7	2.2	72.1	0.20	0.60	0.38	20	1.04	0.041
118880	Soil			0.76	36.76	26.43	81.0	112	26.5	12.0	680	2.80	11.1	1.8	2.9	2.1	71.3	0.19	0.70	0.33	24	1.18	0.041
118881	Soil			0.57	30.84	16.49	79.7	143	21.6	9.3	520	2.09	7.4	2.9	2.2	0.9	116.8	0.24	0.77	0.25	17	2.31	0.061
118882	Soil			0.52	32.46	18.24	83.9	152	22.3	10.4	525	2.45	8.9	2.7	2.4	1.1	113.5	0.14	1.06	0.24	18	1.94	0.070
118883	Soil			0.43	26.83	17.50	85.4	113	24.1	8.9	390	2.56	9.2	1.9	0.9	1.3	105.8	0.20	0.95	0.26	16	1.80	0.063
118884	Soil			0.50	46.95	23.55	106.2	36	35.3	16.0	554	3.91	39.3	0.7	4.0	2.1	36.8	0.11	1.36	0.44	14	0.39	0.028
118885	Soil			0.42	29.15	22.72	117.8	113	24.2	11.0	601	2.86	11.5	1.5	1.4	1.7	79.1	0.21	0.77	0.31	15	1.17	0.057
118886	Soil			0.59	37.14	18.88	112.2	130	27.7	12.0	504	2.81	25.5	1.9	4.7	1.0	86.3	0.12	1.19	0.34	14	1.33	0.056
121657	Soil			1.22	37.91	31.37	100.6	221	32.5	11.3	423	2.57	85.7	1.3	22.3	1.5	103.3	0.32	10.53	0.20	16	3.09	0.071
121658	Soil			0.67	25.46	18.73	65.3	73	22.2	8.1	250	1.70	23.2	2.2	7.8	5.6	128.4	0.21	2.78	0.13	13	4.99	0.067
121659	Soil			0.86	43.13	43.23	125.5	40	54.7	16.6	518	3.80	25.0	0.9	6.1	4.0	47.0	0.18	1.29	0.44	14	0.49	0.055
121660	Soil			0.71	36.90	25.71	108.7	51	41.7	11.1	371	3.54	34.4	0.6	1.1	1.2	10.5	0.18	1.35	0.35	13	0.09	0.054
121661	Soil			0.42	37.82	33.73	129.8	67	44.1	14.3	558	3.72	4.9	0.7	3.2	2.5	28.4	0.12	0.53	0.44	19	0.39	0.082
121662	Soil			1.09	35.24	29.28	141.2	69	37.3	15.4	476	3.67	49.2	1.5	3.0	1.7	51.8	0.24	3.99	0.32	23	0.38	0.067
121663	Soil			0.86	27.30	28.81	107.5	44	29.1	12.3	280	2.63	72.4	0.6	2.0	2.8	30.4	0.09	1.54	0.33	14	0.16	0.042
121664	Soil			0.87	28.15	30.17	95.6	27	28.9	13.2	364	3.02	118.3	0.6	2.0	2.0	47.4	0.05	1.64	0.34	24	0.16	0.039
121665	Soil			0.72	26.55	28.90	90.7	106	34.7	12.0	290	3.18	30.1	1.0	1.8	4.4	36.6	0.11	0.74	0.28	17	0.50	0.051
121666	Soil			0.72	25.41	22.71	94.0	53	27.8	11.1	320	3.12	15.3	0.8	1.0	2.5	29.8	0.14	0.62	0.30	22	0.39	0.048
121667	Soil			0.86	28.84	23.54	86.2	98	26.1	13.6	702	2.95	13.0	1.2	0.6	2.0	49.7	0.26	0.54	0.32	27	0.68	0.063



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method Analyte	1F15 La		1F15 Cr		1F15 Mg		1F15 Ba		1F15 Ti		1F15 B		1F15 Al		1F15 Na		1F15 K		1F15 W		1F15 Sc		1F15 Tl		1F15 S		1F15 Hg		1F15 Se		1F15 Te		1F15 Ga		1F15 Cs		1F15 Ge		1F15 Hf		
	Unit	ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	5	0.1	0.02	0.02	0.1	0.02	0.02	0.1	0.02	0.02	0.1	0.02	0.1	0.02	0.1	0.02
118868	Soil	11.9	31.9	0.26	72.8	0.006	2	0.66	0.006	0.08	<0.1	7.9	0.17	0.06	137	0.7	0.08	2.3	2.68	<0.1	0.08																				
118869	Soil	8.5	27.9	0.36	90.7	0.003	2	0.95	0.006	0.08	<0.1	6.5	0.15	0.05	249	0.7	0.02	2.9	1.83	<0.1	0.12																				
118870	Soil	7.1	24.7	0.49	85.5	0.004	2	1.24	0.005	0.09	<0.1	4.2	0.08	0.04	147	0.5	0.05	3.7	2.80	<0.1	0.10																				
118871	Soil	8.0	24.7	0.40	130.1	0.005	<1	1.24	0.005	0.09	<0.1	3.6	0.09	0.03	52	0.1	0.02	4.6	1.77	<0.1	0.05																				
118872	Soil	12.8	26.3	0.39	150.3	0.007	1	1.23	0.006	0.07	<0.1	4.5	0.11	0.04	82	0.4	0.06	4.0	2.27	<0.1	0.04																				
118873	Soil	14.0	24.2	0.40	316.5	0.003	2	1.40	0.008	0.08	<0.1	5.6	0.14	0.08	200	0.8	<0.02	3.8	2.18	<0.1	0.08																				
118874	Soil	11.6	24.7	0.47	118.5	0.004	3	1.16	0.005	0.07	<0.1	5.6	0.07	0.05	156	0.6	0.03	3.3	1.62	<0.1	0.06																				
118875	Soil	13.5	25.8	0.49	72.3	0.005	3	1.21	0.005	0.08	<0.1	5.4	0.06	0.04	126	0.6	0.04	3.3	1.51	<0.1	0.05																				
118876	Soil	7.1	26.5	0.67	39.3	0.004	2	1.58	0.004	0.07	<0.1	3.2	0.06	0.03	62	0.1	0.07	4.2	4.60	<0.1	0.03																				
118877	Soil	10.0	32.9	0.74	66.1	0.003	3	1.59	0.005	0.09	<0.1	4.7	0.08	0.03	76	0.4	0.04	4.7	2.61	<0.1	0.06																				
118878	Soil	9.5	26.1	0.56	58.1	0.006	2	1.24	0.004	0.07	<0.1	4.5	0.07	<0.02	89	0.3	0.06	3.6	1.95	<0.1	0.07																				
118879	Soil	6.7	26.8	0.62	72.8	0.003	1	1.19	0.004	0.05	<0.1	4.0	0.07	0.06	142	0.8	<0.02	3.4	1.21	<0.1	0.06																				
118880	Soil	9.7	22.7	0.53	137.6	0.005	<1	1.16	0.006	0.05	<0.1	4.4	0.07	0.05	149	0.3	<0.02	3.4	0.99	<0.1	0.05																				
118881	Soil	8.5	21.0	0.47	194.8	0.004	3	0.87	0.009	0.04	<0.1	2.5	0.05	0.09	254	1.5	<0.02	2.6	0.47	<0.1	0.04																				
118882	Soil	9.3	20.1	0.49	155.1	0.003	<1	0.97	0.005	0.06	<0.1	3.0	0.08	0.08	320	1.3	0.03	3.0	0.69	<0.1	0.11																				
118883	Soil	9.6	20.6	0.51	164.6	0.003	<1	1.01	0.004	0.06	<0.1	3.5	0.07	0.06	236	1.0	<0.02	3.2	0.73	0.1	0.06																				
118884	Soil	4.6	15.4	0.32	35.4	0.001	1	0.60	0.003	0.05	<0.1	4.7	0.08	0.02	142	0.3	<0.02	1.8	1.70	<0.1	0.06																				
118885	Soil	10.1	18.8	0.41	73.9	0.002	<1	1.08	0.003	0.05	<0.1	3.9	0.06	0.05	157	0.7	<0.02	3.2	0.70	<0.1	0.10																				
118886	Soil	4.5	16.7	0.41	123.1	0.002	<1	0.83	0.005	0.05	<0.1	2.7	0.06	0.06	187	0.7	<0.02	2.5	0.76	0.2	0.05																				
121657	Soil	9.7	16.9	1.30	53.6	0.001	<1	0.20	0.005	0.04	<0.1	5.1	0.17	0.04	1557	1.3	0.06	0.6	0.72	<0.1	0.04																				
121658	Soil	14.2	15.3	2.36	82.1	0.002	<1	0.36	0.006	0.05	<0.1	3.7	0.11	<0.02	795	0.6	<0.02	1.3	1.67	<0.1	0.04																				
121659	Soil	8.0	27.0	0.58	58.8	0.003	<1	0.66	0.003	0.08	<0.1	7.7	0.10	0.02	382	0.3	<0.02	1.7	3.59	<0.1	0.03																				
121660	Soil	3.3	12.9	0.09	28.7	0.001	<1	0.35	0.002	0.05	<0.1	3.6	0.09	0.03	394	0.4	<0.02	1.0	5.95	<0.1	<0.02																				
121661	Soil	5.3	33.1	0.92	72.2	0.003	<1	1.54	0.002	0.06	<0.1	4.8	0.10	0.03	46	0.5	<0.02	4.9	8.26	<0.1	0.04																				
121662	Soil	7.4	25.2	0.12	82.5	0.002	<1	0.44	0.002	0.05	<0.1	6.0	0.21	0.03	508	0.9	<0.02	1.6	0.78	<0.1	0.05																				
121663	Soil	11.6	14.8	0.10	62.2	0.001	<1	0.36	0.002	0.05	<0.1	3.8	0.12	<0.02	352	0.9	<0.02	1.3	0.47	0.2	0.03																				
121664	Soil	7.2	23.3	0.19	60.7	0.003	<1	0.75	0.002	0.05	<0.1	3.1	0.21	<0.02	786	0.5	<0.02	2.7	0.98	<0.1	<0.02																				
121665	Soil	13.9	26.3	0.35	51.9	0.002	<1	0.70	0.003	0.05	<0.1	6.0	0.08	0.03	228	1.0	<0.02	2.0	1.33	<0.1	0.06																				
121666	Soil	5.6	25.7	0.46	74.1	0.002	<1	1.10	0.003	0.06	<0.1	3.7	0.06	0.03	135	0.4	<0.02	2.9	1.37	<0.1	0.09																				
121667	Soil	7.6	25.9	0.42	145.5	0.003	<1	1.26	0.003	0.06	<0.1	3.6	0.08	0.03	138	0.7	<0.02	4.0	1.44	<0.1	0.08																				



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 3 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
118868	Soil	0.21	10.3	21.6	<0.05	2.4	13.79	31.6	<0.02	2	0.9	8.8	<10	<2
118869	Soil	0.29	6.5	9.6	<0.05	3.2	11.02	18.8	<0.02	1	0.5	16.0	<10	<2
118870	Soil	0.27	9.5	8.8	<0.05	2.9	7.26	14.9	0.02	<1	0.7	26.8	<10	<2
118871	Soil	0.47	11.3	6.9	<0.05	1.4	4.86	17.2	0.02	3	0.4	23.2	<10	<2
118872	Soil	0.51	11.1	4.6	<0.05	1.2	10.10	24.5	0.03	1	0.8	18.6	<10	<2
118873	Soil	0.44	8.9	4.0	<0.05	2.5	20.56	23.1	0.04	<1	1.0	17.7	<10	<2
118874	Soil	0.26	8.7	5.8	<0.05	2.4	13.76	23.8	0.03	2	0.8	25.4	<10	<2
118875	Soil	0.23	9.1	9.3	<0.05	2.0	14.46	32.9	<0.02	<1	0.8	27.0	<10	<2
118876	Soil	0.13	7.1	7.4	<0.05	1.1	3.72	15.0	<0.02	<1	1.5	45.2	<10	<2
118877	Soil	0.25	11.1	11.6	<0.05	1.8	6.20	22.4	<0.02	<1	1.6	41.3	<10	<2
118878	Soil	0.28	8.7	6.3	<0.05	2.8	6.34	22.1	0.03	<1	1.1	31.6	<10	<2
118879	Soil	0.32	5.8	8.4	<0.05	2.6	8.40	20.9	<0.02	<1	0.9	32.2	<10	<2
118880	Soil	0.51	5.7	7.5	<0.05	2.1	10.71	29.5	0.03	<1	1.9	24.1	<10	<2
118881	Soil	0.30	4.4	4.1	<0.05	2.0	10.98	18.0	<0.02	2	0.8	16.8	<10	<2
118882	Soil	0.30	5.7	3.5	<0.05	2.3	13.25	19.9	<0.02	<1	0.8	19.7	<10	<2
118883	Soil	0.29	5.7	2.0	<0.05	2.3	12.12	20.6	0.04	<1	0.7	23.5	<10	<2
118884	Soil	0.07	5.4	1.5	<0.05	1.6	4.94	11.1	0.02	2	0.6	13.9	14	<2
118885	Soil	0.23	4.8	2.7	<0.05	2.5	14.41	20.0	0.02	<1	1.0	28.2	<10	<2
118886	Soil	0.22	5.0	3.2	<0.05	2.3	6.04	10.2	0.03	<1	0.9	18.2	<10	<2
121657	Soil	0.06	2.7	10.1	<0.05	1.8	17.17	25.5	<0.02	<1	1.0	2.1	<10	<2
121658	Soil	0.05	3.2	1.8	<0.05	3.6	9.88	31.8	<0.02	<1	0.9	11.5	<10	<2
121659	Soil	0.07	4.9	15.7	<0.05	2.8	12.80	17.9	<0.02	5	1.5	22.7	16	<2
121660	Soil	0.10	5.3	7.4	<0.05	0.6	3.13	7.6	0.04	<1	1.0	2.7	<10	<2
121661	Soil	0.24	8.0	5.3	<0.05	1.7	8.22	14.4	<0.02	<1	1.5	58.7	<10	<2
121662	Soil	0.09	6.8	10.6	<0.05	1.2	8.87	19.5	0.04	<1	0.6	2.8	<10	<2
121663	Soil	0.08	4.4	15.5	<0.05	0.9	4.29	26.9	<0.02	3	0.7	3.0	<10	<2
121664	Soil	0.18	7.1	10.9	<0.05	0.6	4.12	17.0	<0.02	<1	0.6	13.5	<10	<2
121665	Soil	0.11	4.1	15.1	<0.05	2.7	13.77	30.9	<0.02	<1	0.6	14.3	<10	<2
121666	Soil	0.25	6.9	5.4	<0.05	3.4	4.52	13.2	0.04	<1	0.8	25.1	<10	<2
121667	Soil	0.30	7.7	6.7	<0.05	1.9	6.64	19.1	<0.02	2	0.9	21.7	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
121668	Soil			1.18	19.25	28.56	86.4	23	23.1	9.0	339	2.80	13.2	0.6	1.0	1.7	20.7	0.10	0.48	0.30	27	0.22	0.044
121669	Soil			0.71	19.69	26.60	81.6	71	21.8	10.7	399	2.57	9.7	1.1	0.8	2.0	61.7	0.20	0.48	0.31	27	0.91	0.066
121670	Soil			0.83	24.16	25.38	71.3	106	26.6	9.9	421	2.98	15.9	1.1	<0.2	1.8	34.8	0.22	0.53	0.28	19	0.43	0.082
121671	Soil			1.07	26.16	31.01	92.9	37	22.4	13.9	587	3.51	15.4	0.7	<0.2	1.8	12.5	0.39	0.74	0.38	28	0.05	0.035
121672	Soil			0.76	35.13	35.89	94.3	87	23.6	14.7	450	4.08	21.8	0.3	<0.2	2.3	13.2	0.08	0.56	0.46	27	0.05	0.035
121673	Soil			0.76	35.38	31.66	89.6	131	38.7	15.3	709	3.77	12.8	1.5	2.4	6.2	31.8	0.16	0.69	0.38	27	0.23	0.030
121674	Soil			0.98	33.48	51.44	81.1	141	32.2	17.2	922	3.32	5.9	1.1	1.3	2.2	77.8	0.36	0.33	0.46	22	1.36	0.081
121675	Soil			0.60	39.71	24.25	83.6	127	27.7	11.4	478	2.73	8.2	2.4	2.2	2.5	87.4	0.13	0.62	0.34	22	1.48	0.053
121676	Soil			0.72	31.22	26.47	85.4	56	32.6	13.7	523	3.13	10.6	0.9	3.6	3.2	51.0	0.19	0.60	0.30	18	0.77	0.046
121677	Soil			0.68	44.32	28.69	83.5	109	28.4	11.9	542	2.49	8.7	2.2	1.8	2.3	109.4	0.24	0.61	0.27	18	1.66	0.055
121678	Soil			0.86	32.37	23.33	113.1	69	25.2	9.5	288	2.94	26.3	0.8	5.3	2.0	52.2	0.18	1.39	0.35	13	0.68	0.038
121679	Soil			0.56	49.70	25.50	122.2	65	43.0	17.8	625	3.68	33.1	1.0	3.4	2.7	58.5	0.09	1.28	0.40	15	0.65	0.041
121680	Soil			0.98	23.44	24.85	69.5	30	22.6	14.4	471	3.35	11.2	1.8	0.7	3.2	23.5	0.21	0.53	0.30	23	0.19	0.049
121681	Soil			0.65	32.41	21.40	94.8	77	27.6	11.6	324	3.42	11.3	1.9	1.8	4.2	31.5	0.10	0.69	0.30	21	0.42	0.041
612190	Soil			0.58	58.67	32.83	123.5	63	46.5	18.1	633	4.42	6.7	0.9	0.6	3.3	28.7	0.06	0.30	0.55	21	0.11	0.027
612191	Soil			1.03	36.72	22.90	81.8	46	30.3	11.5	243	3.49	8.6	0.6	0.9	0.9	10.2	0.10	0.45	0.42	28	0.03	0.046
612192	Soil			1.13	36.14	56.83	95.8	68	29.3	22.1	1207	4.13	14.6	0.6	2.2	2.1	11.8	0.23	0.64	0.41	33	0.06	0.052
612193	Soil			1.05	30.48	57.44	86.4	128	23.3	23.1	1738	4.07	9.0	0.6	2.4	1.8	13.2	0.17	0.45	0.39	33	0.08	0.082
612194	Soil			1.23	31.80	32.37	77.2	98	15.6	10.0	745	3.89	12.1	0.4	1.5	1.1	8.4	0.10	0.56	0.38	35	0.02	0.084
612195	Soil			1.33	27.64	59.09	80.0	113	20.9	12.0	920	4.87	13.5	0.5	1.8	1.1	10.2	0.17	0.63	0.36	36	0.03	0.096
612196	Soil			0.72	38.06	37.53	102.2	16	32.9	17.8	601	5.17	22.4	0.5	1.3	1.0	10.1	0.10	0.64	0.41	25	0.02	0.067
612197	Soil			0.99	23.61	25.14	78.5	92	19.2	9.6	555	2.98	11.1	0.6	2.1	0.3	9.7	0.13	0.51	0.32	27	0.06	0.111
612198	Soil			0.97	29.73	31.48	94.5	49	28.9	11.6	418	3.45	17.4	1.6	2.8	1.2	23.3	0.27	1.10	0.33	28	0.20	0.095
612199	Soil			1.16	21.43	17.85	62.7	290	17.3	7.4	236	1.54	25.7	3.1	99.0	4.3	333.8	0.23	3.72	0.13	11	7.82	0.093
612200	Soil			1.51	27.10	28.90	148.3	326	20.7	8.8	838	2.46	21.9	4.3	5.0	0.8	378.7	0.68	1.75	0.18	38	5.09	0.096
118608	Soil			0.98	26.06	35.92	107.9	89	29.0	12.6	470	4.29	14.0	0.5	1.3	1.0	10.4	0.12	0.48	0.31	31	0.10	0.072
118609	Soil			1.34	19.93	21.64	67.5	161	10.6	7.3	542	2.54	8.8	0.4	0.6	0.2	7.7	0.15	0.56	0.35	43	0.03	0.058
118610	Soil			1.19	21.83	17.67	61.2	67	12.1	7.4	686	2.62	8.9	0.4	3.9	0.2	7.2	0.21	0.55	0.31	43	0.02	0.058
118611	Soil			1.72	16.38	17.48	74.7	42	16.6	9.4	645	3.02	10.4	0.6	3.4	0.8	8.4	0.19	0.79	0.30	58	0.05	0.040
118612	Soil			2.01	16.61	11.34	59.3	35	11.5	5.3	364	2.09	9.1	0.5	2.4	0.2	7.1	0.10	0.91	0.32	62	0.03	0.054



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
121668	Soil	5.8	26.8	0.37	63.0	0.006	<1	0.95	0.003	0.06	<0.1	1.8	0.08	<0.02	68	<0.1	<0.02	3.9	1.49	<0.1	0.03
121669	Soil	6.6	25.5	0.40	143.1	0.004	<1	1.12	0.003	0.06	0.1	3.4	0.09	0.05	89	0.4	<0.02	4.0	1.13	<0.1	0.06
121670	Soil	10.8	22.9	0.36	72.7	0.002	<1	1.20	0.005	0.04	<0.1	2.6	0.07	0.06	169	0.3	<0.02	3.5	0.95	<0.1	0.02
121671	Soil	6.9	22.5	0.33	48.2	0.004	<1	1.16	0.003	0.07	<0.1	2.0	0.08	<0.02	52	<0.1	<0.02	4.1	2.52	<0.1	<0.02
121672	Soil	5.7	24.5	0.44	66.7	0.002	<1	1.59	0.002	0.08	<0.1	2.3	0.06	<0.02	17	<0.1	0.06	5.3	4.17	<0.1	0.04
121673	Soil	15.3	34.5	0.77	96.8	0.003	<1	1.81	0.003	0.08	<0.1	8.3	0.09	<0.02	168	0.5	<0.02	4.2	2.33	<0.1	0.09
121674	Soil	8.8	37.1	0.75	119.7	0.005	<1	1.59	0.007	0.07	<0.1	4.3	0.11	0.07	104	1.0	<0.02	5.5	6.37	<0.1	<0.02
121675	Soil	14.5	33.4	0.83	173.8	0.004	2	1.34	0.005	0.05	<0.1	6.2	0.10	0.06	215	1.0	<0.02	4.0	1.63	<0.1	0.04
121676	Soil	12.4	27.5	0.67	62.6	0.003	<1	1.18	0.004	0.05	<0.1	5.1	0.07	0.04	111	0.5	0.03	3.2	1.16	<0.1	0.06
121677	Soil	12.6	25.3	0.67	165.7	0.004	<1	1.05	0.005	0.05	<0.1	4.5	0.07	0.06	140	1.5	<0.02	3.0	1.03	<0.1	0.09
121678	Soil	5.1	18.0	0.35	79.9	0.001	<1	0.74	0.004	0.05	<0.1	4.6	0.07	0.05	170	1.0	<0.02	2.5	1.69	<0.1	0.08
121679	Soil	7.1	18.7	0.40	50.0	0.001	<1	0.59	0.003	0.07	<0.1	5.6	0.09	0.04	161	0.8	0.03	2.0	3.07	<0.1	0.07
121680	Soil	12.2	24.4	0.39	157.8	0.001	<1	1.32	0.002	0.05	<0.1	3.5	0.08	0.03	70	0.6	<0.02	3.4	0.50	<0.1	0.04
121681	Soil	16.6	26.3	0.68	102.8	0.001	<1	1.62	0.004	0.05	<0.1	5.8	0.08	0.03	234	0.7	<0.02	3.7	1.16	<0.1	0.05
612190	Soil	5.8	16.6	0.06	126.5	<0.001	<1	0.33	0.003	0.07	<0.1	4.4	0.10	<0.02	43	0.2	<0.02	1.7	4.36	<0.1	0.03
612191	Soil	5.7	19.0	0.18	55.5	0.002	<1	0.95	0.001	0.04	<0.1	1.8	0.08	<0.02	35	0.3	<0.02	3.1	1.64	<0.1	0.03
612192	Soil	7.4	26.9	0.40	82.0	0.007	<1	1.52	0.003	0.07	<0.1	3.1	0.10	<0.02	67	0.6	<0.02	5.5	7.76	<0.1	<0.02
612193	Soil	7.1	26.2	0.30	106.1	0.006	3	1.51	0.002	0.09	0.1	2.9	0.13	0.04	82	0.5	0.03	5.8	7.44	<0.1	0.03
612194	Soil	5.4	22.4	0.15	57.2	0.004	3	1.17	0.001	0.07	<0.1	1.6	0.11	0.06	49	0.7	0.07	6.1	4.89	<0.1	0.03
612195	Soil	5.7	26.7	0.20	53.1	0.007	1	1.30	0.001	0.07	0.1	1.7	0.09	0.05	58	0.5	<0.02	5.5	4.66	<0.1	<0.02
612196	Soil	3.9	21.6	0.20	57.9	0.003	2	1.15	<0.001	0.06	<0.1	2.2	0.11	0.04	43	0.4	0.10	3.7	6.95	<0.1	<0.02
612197	Soil	4.8	19.2	0.17	82.7	0.003	3	0.89	0.002	0.07	<0.1	0.7	0.11	0.07	913	0.4	0.08	3.7	4.02	<0.1	<0.02
612198	Soil	7.1	23.8	0.25	106.8	0.003	3	1.11	0.001	0.07	<0.1	2.8	0.11	0.04	341	0.4	0.04	3.5	2.93	<0.1	0.04
612199	Soil	9.5	7.6	2.66	31.4	0.002	4	0.20	0.009	0.04	<0.1	3.4	0.11	<0.02	985	1.1	0.03	0.6	0.74	<0.1	0.05
612200	Soil	19.7	24.9	0.41	84.9	0.003	3	0.68	0.005	0.06	<0.1	2.4	0.15	0.07	212	1.2	0.04	1.7	0.22	<0.1	0.05
118608	Soil	6.0	24.3	0.35	109.1	0.006	3	1.44	0.002	0.09	0.1	2.3	0.12	0.04	71	0.6	0.11	4.7	5.49	<0.1	<0.02
118609	Soil	6.7	17.7	0.09	86.8	0.005	2	0.91	0.002	0.08	<0.1	0.7	0.13	0.04	36	0.4	0.04	6.1	2.81	<0.1	<0.02
118610	Soil	7.0	18.8	0.10	94.5	0.007	1	0.98	0.001	0.07	<0.1	0.8	0.10	0.04	29	0.4	0.02	5.6	3.03	<0.1	<0.02
118611	Soil	12.1	26.3	0.24	107.2	0.016	<1	1.75	<0.001	0.06	0.1	1.7	0.16	<0.02	39	0.6	0.06	6.1	2.27	<0.1	<0.02
118612	Soil	12.0	18.2	0.10	71.0	0.014	2	1.03	0.001	0.06	0.1	0.6	0.20	0.05	17	0.5	<0.02	6.1	2.70	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 4 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
121668	Soil			0.39	9.7	13.9	<0.05	1.0	2.90	13.7	<0.02	2	0.6	17.8	<10	<2
121669	Soil			0.47	8.6	11.0	<0.05	1.7	4.57	13.9	<0.02	<1	0.5	18.9	<10	<2
121670	Soil			0.21	6.1	5.9	<0.05	1.8	9.89	28.6	<0.02	<1	1.2	18.3	<10	<2
121671	Soil			0.40	10.9	12.9	<0.05	0.6	3.43	15.3	<0.02	<1	1.1	21.2	<10	<2
121672	Soil			0.29	11.0	10.9	<0.05	1.2	2.34	12.5	0.04	<1	0.9	39.5	<10	<2
121673	Soil			0.27	8.8	6.9	<0.05	2.8	20.24	49.3	0.03	<1	2.2	43.6	<10	2
121674	Soil			0.36	12.2	17.8	<0.05	2.0	13.23	21.2	<0.02	5	2.1	42.4	<10	<2
121675	Soil			0.42	7.2	7.0	<0.05	2.5	17.43	32.4	<0.02	<1	1.0	33.7	<10	<2
121676	Soil			0.24	5.5	8.0	<0.05	1.9	13.15	33.3	<0.02	<1	1.6	32.1	<10	<2
121677	Soil			0.28	5.8	14.8	<0.05	3.0	13.89	27.5	<0.02	5	0.9	26.1	<10	<2
121678	Soil			0.17	5.5	5.6	<0.05	2.0	4.40	11.3	<0.02	2	0.9	16.6	<10	<2
121679	Soil			0.07	5.7	3.6	<0.05	2.6	7.94	15.7	0.06	2	0.6	13.6	<10	<2
121680	Soil			0.26	6.9	3.9	<0.05	1.8	8.51	35.9	<0.02	2	0.9	28.9	<10	<2
121681	Soil			0.22	7.1	2.0	<0.05	2.7	15.63	36.4	0.05	<1	1.3	39.3	<10	<2
612190	Soil			<0.02	6.2	3.7	<0.05	0.4	5.73	15.0	<0.02	<1	2.6	2.3	<10	<2
612191	Soil			0.16	6.5	2.1	<0.05	0.4	3.88	15.0	0.04	<1	1.3	13.3	<10	<2
612192	Soil			0.37	11.1	3.1	<0.05	0.3	4.53	16.4	<0.02	<1	1.6	40.1	<10	<2
612193	Soil			0.53	14.5	16.1	<0.05	0.8	6.41	19.1	<0.02	<1	1.3	32.4	<10	<2
612194	Soil			0.55	13.1	7.2	<0.05	0.8	3.02	12.0	0.03	<1	0.5	15.5	<10	<2
612195	Soil			0.54	12.4	40.7	<0.05	0.4	3.12	14.2	<0.02	<1	0.8	17.2	<10	2
612196	Soil			0.25	8.8	4.9	<0.05	0.6	3.86	12.1	0.05	<1	0.9	19.1	<10	<2
612197	Soil			0.18	15.1	5.4	<0.05	0.2	2.91	11.6	0.02	<1	0.9	12.3	<10	<2
612198	Soil			0.27	10.3	8.9	<0.05	1.2	7.60	18.1	<0.02	<1	1.0	20.0	<10	3
612199	Soil			0.07	2.7	2.3	<0.05	3.5	10.40	23.8	<0.02	<1	0.5	3.5	<10	<2
612200	Soil			0.10	5.2	5.7	<0.05	1.3	19.29	43.5	0.02	<1	1.3	10.6	<10	<2
118608	Soil			0.48	11.8	2.9	<0.05	0.3	3.71	19.0	0.03	<1	1.0	42.8	<10	<2
118609	Soil			0.40	21.4	6.3	<0.05	0.1	1.86	13.6	<0.02	<1	0.3	5.5	<10	2
118610	Soil			0.47	18.9	3.3	<0.05	<0.1	2.06	15.0	<0.02	<1	0.5	6.9	<10	2
118611	Soil			0.72	12.4	2.5	<0.05	0.2	3.84	26.2	0.02	<1	0.8	19.6	<10	<2
118612	Soil			0.55	12.9	2.6	<0.05	0.1	2.57	25.2	<0.02	<1	0.4	5.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 30, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
118613	Soil	1.50	17.95	25.45	68.6	51	20.4	9.6	498	3.80	13.0	0.5	2.8	0.6	7.4	0.16	0.85	0.33	46	0.04	0.058
118614	Soil	1.28	20.38	18.36	76.2	89	18.2	8.6	547	4.45	11.9	0.5	1.6	0.5	7.5	0.22	0.71	0.31	40	0.04	0.070
118615	Soil	1.38	19.57	18.36	68.0	67	16.3	7.1	515	3.32	10.5	0.6	2.0	0.3	8.4	0.12	0.64	0.31	42	0.05	0.068
118616	Soil	0.73	25.94	27.89	80.5	39	24.6	14.9	992	3.73	17.4	1.0	1.0	1.9	17.4	0.16	0.43	0.35	33	0.18	0.088
118617	Soil	1.42	16.68	19.34	68.7	40	18.4	9.0	479	2.97	11.9	0.7	1.2	0.5	19.9	0.10	0.71	0.30	51	0.24	0.064
118618	Soil	1.39	19.90	22.23	67.3	27	22.7	9.2	303	3.19	16.6	0.8	0.8	1.4	19.2	0.12	1.16	0.28	45	0.29	0.057
118619	Soil	1.14	18.56	18.51	73.1	118	17.9	8.1	474	2.62	12.5	2.5	3.1	0.6	57.8	0.21	0.71	0.25	36	0.63	0.101
118620	Soil	0.82	21.51	18.85	70.3	118	19.2	9.1	507	2.53	17.9	4.0	3.7	1.2	47.1	0.17	1.17	0.23	25	0.95	0.109
118621	Soil	0.50	28.79	15.70	97.4	29	22.8	9.1	395	3.17	21.4	0.3	1.8	1.7	18.6	0.09	1.20	0.32	19	0.11	0.045
118622	Soil	1.40	42.76	27.15	116.0	201	40.9	14.4	393	3.57	150.3	1.8	26.0	2.6	77.9	0.33	7.09	0.26	23	0.72	0.105
118623	Soil	1.75	68.42	50.90	223.7	188	56.7	30.7	934	4.60	17.6	0.8	5.2	3.3	107.7	0.26	1.93	0.38	26	0.91	0.103
118624	Soil	1.02	77.92	35.68	117.7	140	40.3	18.9	671	4.60	65.1	1.0	61.1	3.1	32.2	0.04	6.68	0.47	6	0.06	0.020
118625	Soil	0.59	68.84	41.49	124.5	47	49.0	23.8	1180	4.52	57.1	0.6	12.1	3.1	34.5	0.08	4.94	0.49	7	0.08	0.027
118626	Soil	0.84	59.09	29.27	69.2	66	21.9	10.3	387	4.00	77.5	0.6	68.4	1.9	23.6	0.05	12.37	0.41	6	0.10	0.022
118627	Soil	1.51	93.52	40.30	131.3	132	63.7	30.4	821	4.44	68.7	6.4	20.3	3.4	44.6	0.14	8.31	0.43	6	0.25	0.023
118628	Soil	0.61	51.74	30.04	92.3	78	35.6	16.6	666	4.08	23.2	0.8	3.9	2.8	34.8	0.14	0.66	0.45	16	0.07	0.027
118629	Soil	0.61	66.10	33.32	105.5	84	33.5	15.3	619	4.24	42.2	1.8	6.1	2.2	49.3	0.09	1.07	0.45	14	0.29	0.032
118630	Soil	0.51	42.78	25.13	100.5	68	35.2	12.8	182	3.44	19.6	0.7	3.6	2.8	36.3	0.08	0.42	0.39	17	0.30	0.034
118631	Soil	0.72	40.58	34.46	97.7	82	37.3	15.8	476	3.22	62.6	1.0	5.5	2.2	72.2	0.10	0.95	0.38	17	0.39	0.041
118632	Soil	0.49	49.22	28.48	93.8	69	39.3	16.6	586	3.52	28.4	1.0	4.5	2.6	55.6	0.12	0.57	0.37	15	0.64	0.034
118633	Soil	0.70	67.98	36.79	104.6	62	37.6	19.2	705	4.42	29.3	0.6	4.0	2.4	31.4	0.12	0.76	0.44	16	0.18	0.028
118634	Soil	0.66	41.35	29.81	92.6	125	33.3	14.5	612	3.72	13.7	1.1	3.0	2.4	37.1	0.13	0.56	0.33	23	0.34	0.052
118635	Soil	0.68	35.53	26.14	98.6	148	29.4	11.9	481	3.23	47.8	1.1	6.9	2.2	65.0	0.18	0.84	0.31	19	0.77	0.059
118636	Soil	0.56	28.56	23.21	75.6	81	28.5	11.8	415	2.99	15.8	1.0	2.8	3.8	29.8	0.12	0.63	0.32	19	0.32	0.026
118637	Soil	0.54	30.55	22.43	81.6	111	28.5	12.4	462	3.01	21.9	2.0	3.2	2.3	63.2	0.12	0.72	0.35	18	0.83	0.053
118639	Soil	0.44	48.42	25.41	121.6	91	30.6	14.9	527	3.56	46.5	1.2	1.4	6.7	101.3	0.84	0.75	0.52	37	1.66	0.068
118640	Soil	0.80	26.76	25.69	84.1	46	23.7	13.2	471	3.68	22.5	0.7	1.4	2.7	23.1	0.20	1.44	0.31	24	0.27	0.036
118641	Soil	0.77	20.23	20.49	71.3	33	24.5	11.0	432	3.05	17.0	1.1	1.3	3.0	27.9	0.15	0.71	0.29	28	0.29	0.034
118642	Soil	0.88	18.51	17.39	92.3	42	19.8	9.2	263	2.76	16.7	1.1	0.6	2.8	47.4	0.23	0.58	0.25	28	0.55	0.020
118643	Soil	0.82	40.80	26.43	76.5	330	35.9	14.7	440	3.49	30.1	3.7	7.4	6.2	153.1	0.26	0.83	0.30	20	1.67	0.038



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
118613	Soil	8.3	27.3	0.31	59.2	0.018	<1	1.42	<0.001	0.06	0.1	1.2	0.11	0.05	39	0.5	0.04	5.4	2.40	<0.1	<0.02
118614	Soil	6.5	28.8	0.29	55.8	0.018	3	1.28	0.001	0.07	0.1	1.4	0.08	0.06	43	0.8	0.04	5.6	2.65	<0.1	<0.02
118615	Soil	7.9	26.9	0.26	96.5	0.012	1	1.36	<0.001	0.06	0.1	1.0	0.12	0.06	33	0.4	0.07	6.0	2.82	<0.1	<0.02
118616	Soil	11.1	23.6	0.41	137.5	0.004	3	1.92	<0.001	0.06	0.1	3.3	0.12	0.05	90	0.4	0.10	5.2	1.92	<0.1	0.03
118617	Soil	9.8	25.3	0.35	160.0	0.009	2	1.49	0.002	0.05	0.2	1.2	0.16	0.04	31	0.4	0.04	6.1	1.97	<0.1	<0.02
118618	Soil	8.7	24.2	0.31	127.6	0.008	2	1.73	<0.001	0.05	0.2	2.2	0.16	0.03	73	0.4	0.03	5.1	2.44	<0.1	0.02
118619	Soil	14.1	19.0	0.21	176.7	0.005	1	1.17	0.002	0.06	<0.1	1.5	0.15	0.05	80	0.6	0.05	3.8	1.42	<0.1	<0.02
118620	Soil	12.6	18.2	0.21	308.4	0.004	1	0.92	0.002	0.05	<0.1	2.6	0.10	0.08	151	0.9	<0.02	2.8	1.38	<0.1	0.03
118621	Soil	4.9	17.3	0.25	73.8	0.002	1	0.84	<0.001	0.07	<0.1	2.8	0.07	<0.02	18	0.2	0.04	4.1	4.35	<0.1	<0.02
118622	Soil	10.4	22.1	0.18	91.7	0.002	4	0.45	0.003	0.08	<0.1	6.4	0.26	0.05	210	1.2	0.02	1.4	0.73	<0.1	0.09
118623	Soil	9.4	36.5	0.97	212.3	0.006	5	1.31	0.005	0.11	<0.1	9.0	0.18	0.05	59	2.3	0.04	3.8	8.56	<0.1	0.11
118624	Soil	8.5	6.7	0.11	48.3	<0.001	2	0.35	0.002	0.07	<0.1	5.8	0.06	<0.02	139	0.7	0.06	0.8	4.14	<0.1	<0.02
118625	Soil	7.7	9.5	0.16	65.0	<0.001	3	0.49	0.002	0.07	<0.1	6.4	0.10	<0.02	71	0.5	0.11	1.4	5.11	<0.1	0.03
118626	Soil	5.8	5.6	0.05	28.6	<0.001	2	0.32	0.003	0.06	<0.1	3.4	0.07	0.02	125	0.8	0.11	0.7	2.56	<0.1	<0.02
118627	Soil	8.2	8.6	0.13	63.3	<0.001	3	0.64	0.003	0.07	<0.1	5.7	0.21	0.04	908	2.7	0.07	1.1	6.36	<0.1	0.06
118628	Soil	7.0	18.4	0.24	42.5	0.001	1	0.71	<0.001	0.07	<0.1	5.3	0.14	<0.02	330	0.5	0.11	2.6	4.59	<0.1	<0.02
118629	Soil	7.2	14.0	0.23	46.6	<0.001	4	0.46	0.002	0.07	<0.1	4.9	0.12	0.04	362	1.5	0.10	1.6	3.50	<0.1	0.05
118630	Soil	7.6	23.0	0.35	45.2	<0.001	4	0.66	0.002	0.08	<0.1	5.4	0.10	0.04	128	0.5	0.07	2.3	2.87	<0.1	0.06
118631	Soil	6.8	23.4	0.18	51.7	<0.001	3	0.44	0.002	0.08	<0.1	5.5	0.41	0.06	504	1.2	0.07	1.9	4.95	<0.1	0.07
118632	Soil	7.6	19.4	0.30	51.8	<0.001	2	0.56	0.003	0.07	<0.1	5.4	0.11	0.04	405	0.8	0.09	2.0	3.51	<0.1	0.08
118633	Soil	7.5	14.4	0.20	43.9	<0.001	4	0.71	0.002	0.07	<0.1	4.5	0.10	0.02	247	0.7	0.05	2.2	4.40	<0.1	0.03
118634	Soil	9.6	20.2	0.31	87.5	0.002	3	1.32	0.001	0.08	<0.1	4.3	0.13	0.02	214	0.4	0.07	4.5	3.62	<0.1	0.03
118635	Soil	8.0	21.6	0.49	87.5	0.002	3	0.96	0.003	0.08	<0.1	5.2	0.12	0.06	233	0.8	0.03	2.9	1.51	<0.1	0.08
118636	Soil	7.1	20.9	0.46	74.3	0.004	2	1.06	0.003	0.05	<0.1	4.0	0.05	<0.02	91	0.3	0.12	3.1	1.12	<0.1	0.07
118637	Soil	7.7	20.8	0.42	87.5	0.002	2	1.12	0.002	0.06	<0.1	4.2	0.07	0.05	148	0.5	0.06	3.2	1.29	<0.1	0.08
118639	Soil	27.5	36.1	0.70	87.4	0.002	<1	0.63	0.003	0.05	<0.1	7.0	0.08	0.04	273	1.1	0.02	1.6	0.44	<0.1	0.08
118640	Soil	8.3	21.6	0.29	96.8	0.003	1	0.84	0.001	0.05	<0.1	2.9	0.06	0.02	163	0.6	0.10	3.2	0.69	<0.1	0.02
118641	Soil	9.9	24.9	0.40	164.3	0.005	<1	1.19	0.002	0.04	<0.1	3.1	0.08	0.02	106	0.6	0.08	3.6	0.98	<0.1	0.03
118642	Soil	7.7	18.9	0.25	105.2	0.003	<1	0.96	0.002	0.04	<0.1	1.9	0.08	0.02	33	0.2	0.03	3.4	0.65	<0.1	0.03
118643	Soil	20.2	26.1	0.42	103.5	0.002	<1	1.11	0.002	0.05	<0.1	7.6	0.10	0.04	293	0.8	<0.02	2.3	0.55	<0.1	0.09



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 5 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.1	1	0.1	0.1	10	2
118613	Soil			0.81	9.9	3.7	<0.05	0.3	2.70	22.3	0.03	<1	0.4	16.0	<10	<2
118614	Soil			0.68	12.5	2.1	<0.05	0.2	2.17	14.2	<0.02	<1	0.5	18.1	<10	<2
118615	Soil			0.60	13.1	4.8	<0.05	0.1	2.74	17.4	0.02	<1	0.5	15.9	<10	<2
118616	Soil			0.42	12.6	1.4	<0.05	1.0	10.84	50.8	0.04	<1	1.5	35.5	<10	<2
118617	Soil			0.48	9.9	1.5	<0.05	0.1	3.07	22.5	0.04	<1	0.5	17.9	<10	<2
118618	Soil			0.94	10.0	1.4	<0.05	0.5	3.67	22.2	0.03	<1	0.9	20.4	<10	<2
118619	Soil			0.31	11.2	1.9	<0.05	0.5	6.68	33.4	0.02	<1	0.9	12.9	<10	<2
118620	Soil			0.33	8.5	0.8	<0.05	1.2	9.89	30.1	0.02	<1	0.8	9.5	<10	2
118621	Soil			0.16	11.3	2.9	<0.05	0.6	3.67	10.6	0.04	<1	0.4	19.8	<10	<2
118622	Soil			0.13	4.4	2.5	<0.05	2.8	15.34	25.7	0.06	<1	1.2	3.6	<10	<2
118623	Soil			0.19	12.4	2.7	<0.05	4.7	17.83	23.8	0.03	<1	1.9	42.4	15	3
118624	Soil			<0.02	5.4	3.2	<0.05	0.8	6.06	16.2	0.05	<1	0.9	6.4	<10	<2
118625	Soil			0.03	7.3	5.4	<0.05	0.8	4.32	20.8	0.04	<1	1.8	10.3	<10	<2
118626	Soil			<0.02	5.0	3.8	<0.05	0.6	2.94	12.1	0.04	<1	0.9	2.1	<10	<2
118627	Soil			0.03	6.4	7.6	<0.05	3.2	4.98	16.7	0.04	4	1.2	7.7	<10	3
118628	Soil			0.05	7.4	3.0	<0.05	0.6	7.27	17.3	0.04	<1	1.0	17.3	<10	<2
118629	Soil			0.06	8.4	2.9	<0.05	1.7	5.36	15.8	0.04	<1	1.1	6.4	14	2
118630	Soil			0.12	8.1	2.5	<0.05	2.1	8.20	14.6	0.04	<1	1.4	15.7	<10	3
118631	Soil			0.09	7.7	6.2	<0.05	2.3	7.98	15.7	0.05	<1	0.9	6.3	<10	<2
118632	Soil			0.10	7.9	4.7	<0.05	2.5	7.94	14.8	0.02	<1	1.1	12.0	<10	3
118633	Soil			0.08	8.8	4.4	<0.05	1.1	5.72	15.0	0.04	<1	1.0	12.0	<10	<2
118634	Soil			0.20	12.8	3.9	<0.05	1.2	8.25	20.4	0.03	<1	1.2	35.0	<10	<2
118635	Soil			0.26	7.7	2.9	<0.05	2.6	10.42	19.1	0.04	<1	1.0	23.3	<10	<2
118636	Soil			0.20	4.9	3.4	<0.05	2.5	7.09	17.3	0.04	<1	1.0	31.0	<10	<2
118637	Soil			0.19	6.3	2.4	<0.05	2.6	11.48	15.8	0.02	<1	1.0	28.6	<10	<2
118639	Soil			0.18	5.0	2.4	<0.05	3.0	14.95	54.2	0.05	<1	1.0	7.0	<10	<2
118640	Soil			0.21	6.7	3.6	<0.05	1.0	4.81	19.4	0.03	<1	0.7	20.6	<10	<2
118641	Soil			0.44	7.3	2.0	<0.05	1.7	6.32	23.4	0.04	<1	0.8	24.5	<10	<2
118642	Soil			0.40	8.0	2.2	<0.05	1.4	2.48	18.3	<0.02	<1	0.9	18.0	<10	<2
118643	Soil			0.16	6.2	2.6	<0.05	3.7	18.81	36.5	0.05	<1	1.6	22.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 30, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
118644	Soil			1.04	22.28	27.31	74.2	91	21.2	9.3	344	2.96	20.5	1.9	2.6	4.0	42.5	0.33	0.80	0.31	29	0.44	0.027
118645	Soil			0.68	33.30	21.15	82.4	221	24.7	10.1	442	2.72	15.9	3.5	4.2	1.6	148.9	0.26	0.80	0.24	20	2.11	0.051
121552	Soil			0.70	17.21	26.84	128.2	138	17.6	6.6	644	2.06	22.6	1.1	18.9	1.5	31.0	0.38	2.21	0.18	19	4.44	0.121
121553	Soil			0.56	13.44	21.37	378.3	141	16.7	6.4	1339	2.41	22.2	1.2	8.4	0.9	24.3	0.91	1.50	0.15	25	4.75	0.120
121554	Soil			0.92	19.25	21.92	341.7	178	23.9	9.4	965	2.83	17.1	0.8	4.2	1.4	17.5	0.72	1.92	0.25	39	1.96	0.098
121555	Soil			1.27	22.65	21.90	913.7	189	27.6	11.0	1798	3.35	18.4	1.0	8.5	1.9	15.7	1.91	2.56	0.22	44	1.39	0.088
121556	Soil			0.55	12.25	24.78	813.2	106	11.4	5.6	1326	1.73	15.7	0.8	5.9	0.4	31.1	2.07	2.32	0.12	14	11.09	0.134
121557	Soil			0.63	10.09	19.50	484.7	137	9.2	4.0	610	1.27	20.7	1.5	28.3	0.5	88.5	1.08	3.13	0.07	10	15.79	0.246
121558	Soil			0.69	26.12	37.55	225.9	108	28.4	12.7	609	2.93	23.3	0.7	1.6	3.2	21.0	0.44	2.22	0.40	17	2.29	0.104
121559	Soil			0.77	19.36	40.57	139.9	108	16.1	10.4	1118	2.87	22.9	0.7	0.8	1.5	57.9	0.48	0.72	0.31	23	1.94	0.211
121560	Soil			0.51	20.14	21.36	50.9	34	20.5	18.7	1042	3.29	9.6	0.7	0.3	1.8	13.4	0.12	0.42	0.38	16	0.40	0.086
121561	Soil			0.59	22.34	27.31	67.8	50	19.0	10.2	288	2.62	7.2	0.3	0.5	0.6	4.0	0.10	0.25	0.32	11	0.04	0.048
121562	Soil			0.52	9.76	14.76	27.3	35	11.6	11.2	441	1.38	4.9	0.4	0.6	1.2	6.0	0.07	0.27	0.16	16	0.09	0.037
612727	Soil			0.64	28.87	32.74	111.2	43	28.9	17.9	723	3.56	9.5	0.5	1.7	4.1	12.2	0.16	0.69	0.32	23	0.11	0.055
612728	Soil			0.83	34.30	35.69	104.1	94	28.0	15.8	705	3.27	15.2	0.6	2.3	1.7	23.9	0.27	0.58	0.39	20	0.33	0.073
612729	Soil			0.67	38.35	72.82	149.1	147	34.1	28.8	1733	5.44	9.8	0.5	0.7	1.0	12.5	0.57	0.44	0.51	28	0.05	0.092
612730	Soil			0.90	53.33	72.62	108.0	138	36.7	33.4	1594	4.30	12.4	0.7	1.5	2.7	26.5	0.11	0.42	0.43	27	0.24	0.040
612731	Soil			0.97	25.22	27.74	104.4	84	17.0	19.9	1173	3.86	8.3	0.5	0.2	0.7	10.1	0.20	0.51	0.40	39	0.05	0.053
612732	Soil			0.77	28.76	35.94	122.7	95	25.0	20.0	1092	4.80	11.5	0.4	0.6	1.4	9.1	0.24	0.45	0.51	34	0.03	0.075
612733	Soil			1.06	20.44	23.78	77.6	50	12.7	10.1	924	3.64	9.5	0.3	<0.2	1.4	7.1	0.17	0.51	0.39	39	0.03	0.071
612734	Soil			1.18	28.88	31.85	83.5	46	28.0	16.5	706	3.38	12.7	0.6	1.4	1.9	11.3	0.29	0.71	0.31	32	0.05	0.048
612735	Soil			1.57	17.79	15.65	70.7	29	19.6	8.0	356	2.98	10.3	0.6	1.3	0.5	9.8	0.20	0.84	0.33	52	0.07	0.048
612736	Soil			1.71	19.62	21.83	68.1	43	20.1	8.8	350	3.10	12.0	0.8	2.0	0.5	10.3	0.17	0.87	0.32	50	0.07	0.069
612737	Soil			1.27	23.06	24.81	89.0	28	23.8	14.1	604	3.52	13.1	0.6	0.9	0.5	8.6	0.23	0.86	0.32	40	0.04	0.050
612738	Soil			1.30	22.41	22.31	73.8	22	22.3	13.0	629	3.84	11.9	0.5	1.2	0.7	10.8	0.14	0.76	0.33	42	0.07	0.044
612739	Soil			0.84	32.16	27.13	88.7	117	32.3	17.0	4352	3.99	12.1	2.1	1.1	2.8	81.6	0.57	0.54	0.34	31	0.98	0.094
612740	Soil			0.86	23.91	21.90	90.1	39	20.8	11.3	556	3.13	10.7	0.8	0.6	1.5	38.2	0.14	0.56	0.35	31	0.39	0.074
612741	Soil			1.07	18.84	18.44	62.0	19	23.0	9.4	403	3.31	11.6	0.6	0.5	1.1	12.6	0.11	0.69	0.29	37	0.12	0.057
612742	Soil			1.18	19.46	17.78	65.3	39	25.9	10.0	405	2.95	14.3	1.3	1.6	1.2	45.0	0.16	1.00	0.27	40	0.47	0.060
612743	Soil			0.86	19.91	17.30	78.4	78	22.7	8.9	297	2.57	19.1	3.4	5.6	1.5	50.8	0.10	1.59	0.24	24	0.48	0.046



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 30, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
118644	Soil	12.9	20.9	0.24	72.7	0.003	2	0.93	0.002	0.04	<0.1	3.2	0.08	0.02	138	0.2	0.04	3.5	0.76	<0.1	0.04
118645	Soil	12.1	21.2	0.49	133.8	0.004	2	0.91	0.004	0.05	<0.1	4.0	0.08	0.07	244	0.6	0.03	2.4	0.66	<0.1	0.03
121552	Soil	9.9	12.9	2.74	69.2	0.011	3	0.68	0.007	0.04	0.1	2.1	0.06	0.06	220	0.5	0.08	1.6	0.81	<0.1	0.06
121553	Soil	12.0	14.4	2.99	69.5	0.011	2	0.92	0.007	0.03	0.1	1.6	0.05	0.08	935	0.4	0.05	2.0	0.48	<0.1	0.05
121554	Soil	14.4	24.2	1.35	120.9	0.015	1	1.35	0.007	0.04	0.1	2.2	0.06	0.07	913	0.5	0.05	3.2	0.66	<0.1	0.04
121555	Soil	15.6	25.0	1.02	139.5	0.019	2	1.38	0.007	0.04	0.2	2.6	0.10	0.06	4482	0.6	0.07	3.9	0.84	<0.1	0.06
121556	Soil	6.2	11.2	7.49	75.0	0.007	1	0.58	0.009	0.03	<0.1	0.7	0.04	0.12	972	0.3	0.06	1.5	0.37	<0.1	0.03
121557	Soil	4.6	6.4	8.52	39.3	0.004	4	0.34	0.013	0.04	<0.1	0.8	0.04	<0.02	1078	0.3	0.04	0.9	0.36	<0.1	0.04
121558	Soil	16.9	12.3	1.17	90.0	0.004	3	0.74	0.005	0.07	0.1	4.7	0.08	0.05	126	0.2	0.07	1.9	1.03	<0.1	0.06
121559	Soil	19.5	15.7	0.19	871.9	0.003	2	1.19	0.004	0.07	<0.1	1.7	0.06	0.15	88	0.3	0.06	2.6	0.20	<0.1	0.07
121560	Soil	6.7	12.1	0.16	321.9	0.003	3	0.86	0.002	0.11	<0.1	3.9	0.10	0.05	32	0.2	0.04	2.4	1.68	<0.1	0.05
121561	Soil	4.8	6.5	0.04	76.9	0.002	3	0.38	0.002	0.10	<0.1	1.5	0.09	0.04	27	<0.1	0.06	1.5	1.56	<0.1	<0.02
121562	Soil	5.0	8.5	0.09	85.6	0.003	<1	0.72	0.002	0.09	<0.1	1.1	0.06	0.03	14	0.3	0.04	2.3	1.46	<0.1	<0.02
612727	Soil	9.2	23.6	0.39	79.1	0.005	<1	1.34	0.003	0.05	<0.1	2.8	0.06	<0.02	58	0.1	0.03	3.8	1.30	<0.1	0.04
612728	Soil	6.3	19.7	0.24	84.2	0.003	1	0.78	0.003	0.07	<0.1	3.2	0.08	0.05	49	0.3	0.06	2.8	2.30	<0.1	0.03
612729	Soil	5.1	37.0	0.38	111.0	0.009	3	1.56	0.004	0.09	<0.1	2.4	0.08	0.05	42	0.1	0.04	5.9	12.21	<0.1	<0.02
612730	Soil	7.9	32.8	0.49	136.7	0.009	3	1.60	0.003	0.08	<0.1	5.6	0.15	<0.02	232	0.4	0.07	6.3	9.93	<0.1	<0.02
612731	Soil	6.0	28.4	0.22	107.0	0.014	2	1.22	0.002	0.09	<0.1	1.6	0.08	0.03	24	0.3	0.04	7.3	4.58	<0.1	<0.02
612732	Soil	4.9	30.8	0.38	89.9	0.007	1	1.80	0.001	0.09	<0.1	2.1	0.08	0.04	24	0.4	0.06	6.7	4.94	<0.1	0.03
612733	Soil	5.0	21.2	0.15	85.0	0.006	<1	1.09	0.002	0.07	<0.1	1.6	0.09	0.03	21	0.3	0.09	6.3	2.42	<0.1	<0.02
612734	Soil	7.6	26.2	0.44	65.5	0.017	1	1.37	0.002	0.06	<0.1	2.4	0.10	<0.02	14	0.3	0.03	3.9	2.72	<0.1	<0.02
612735	Soil	11.8	30.7	0.43	86.0	0.019	<1	1.83	0.002	0.05	0.2	1.3	0.16	0.03	24	0.3	0.05	6.3	1.92	<0.1	<0.02
612736	Soil	14.7	31.5	0.38	81.8	0.018	<1	1.64	0.002	0.05	0.2	1.3	0.13	0.03	25	0.3	0.05	5.3	1.67	<0.1	<0.02
612737	Soil	8.6	29.7	0.42	67.9	0.019	<1	1.44	0.001	0.05	0.2	1.6	0.10	0.03	17	0.3	0.08	5.2	2.51	<0.1	<0.02
612738	Soil	7.1	28.2	0.40	73.1	0.015	1	1.44	0.002	0.05	0.1	1.8	0.09	0.02	21	0.4	0.03	5.3	2.58	<0.1	<0.02
612739	Soil	33.0	26.9	0.46	309.6	0.008	4	1.84	0.003	0.06	<0.1	7.6	0.09	0.07	93	0.5	0.06	4.9	1.52	<0.1	0.05
612740	Soil	6.8	19.4	0.24	127.5	0.004	<1	1.24	0.002	0.04	<0.1	2.9	0.10	0.04	34	0.2	0.04	4.4	1.80	<0.1	0.03
612741	Soil	7.7	24.7	0.28	99.4	0.009	<1	1.78	0.001	0.04	0.1	2.1	0.11	0.04	27	0.4	0.04	4.7	1.45	<0.1	0.03
612742	Soil	8.2	26.0	0.40	135.6	0.009	<1	1.41	0.003	0.04	0.2	1.9	0.11	0.04	40	0.5	0.06	4.7	1.36	<0.1	0.02
612743	Soil	10.5	19.3	0.27	105.5	0.005	2	0.96	0.004	0.04	0.2	2.1	0.11	0.02	629	0.7	0.02	2.9	1.12	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 6 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
118644	Soil	0.33	9.0	7.2	<0.05	2.3	8.03	28.9	0.02	<1	0.8	17.4	<10	<2
118645	Soil	0.30	5.7	2.5	<0.05	2.0	12.38	22.2	0.02	<1	1.1	20.3	<10	<2
121552	Soil	0.19	3.5	1.6	<0.05	1.8	10.81	17.6	<0.02	<1	0.6	5.6	<10	<2
121553	Soil	0.24	3.8	0.4	<0.05	1.4	12.34	20.5	<0.02	<1	0.4	6.3	<10	<2
121554	Soil	0.40	5.7	1.0	<0.05	1.2	10.91	26.3	<0.02	<1	0.6	10.5	<10	<2
121555	Soil	0.37	6.0	0.7	<0.05	1.5	11.94	29.0	0.02	<1	0.7	10.8	<10	<2
121556	Soil	0.12	3.4	5.6	<0.05	0.8	7.74	13.6	<0.02	<1	0.1	3.4	<10	<2
121557	Soil	0.06	2.6	2.2	<0.05	1.2	8.15	12.4	<0.02	<1	0.3	3.5	<10	<2
121558	Soil	0.20	5.9	4.9	<0.05	1.8	14.41	28.4	<0.02	<1	1.5	7.2	<10	<2
121559	Soil	0.18	4.6	2.1	<0.05	2.3	15.62	37.3	0.02	<1	1.4	8.1	<10	<2
121560	Soil	0.15	11.9	3.9	<0.05	1.4	8.27	19.7	0.03	<1	1.5	7.0	<10	<2
121561	Soil	0.08	10.3	3.0	<0.05	0.2	2.16	11.0	0.03	<1	0.7	1.3	<10	<2
121562	Soil	0.16	9.5	2.4	<0.05	0.5	1.81	11.0	<0.02	<1	0.3	6.2	<10	<2
612727	Soil	0.24	8.0	2.7	<0.05	1.8	4.90	21.8	0.03	<1	1.1	27.6	<10	<2
612728	Soil	0.19	8.5	8.5	<0.05	0.7	7.10	14.6	0.02	<1	1.9	17.1	<10	<2
612729	Soil	0.32	14.0	6.8	<0.05	0.4	3.64	11.6	0.03	<1	1.2	33.5	14	<2
612730	Soil	0.23	11.8	7.6	<0.05	0.8	11.64	19.6	0.02	<1	2.4	54.0	<10	<2
612731	Soil	0.56	20.5	2.0	<0.05	<0.1	2.59	12.2	0.05	<1	0.8	19.8	10	<2
612732	Soil	0.57	15.3	4.3	<0.05	0.9	2.71	9.8	0.02	<1	0.8	43.3	<10	<2
612733	Soil	0.65	14.3	3.2	<0.05	0.5	1.84	9.1	<0.02	<1	0.9	14.3	<10	<2
612734	Soil	0.33	8.1	5.0	<0.05	0.2	3.96	16.9	<0.02	<1	1.2	32.1	<10	<2
612735	Soil	0.45	9.9	0.9	<0.05	0.1	3.39	21.4	0.03	<1	0.5	19.9	<10	<2
612736	Soil	0.43	9.4	3.1	<0.05	0.2	4.93	23.8	<0.02	<1	0.9	20.9	<10	<2
612737	Soil	0.38	8.8	1.8	<0.05	<0.1	3.23	18.9	0.03	<1	0.6	21.3	<10	<2
612738	Soil	0.47	8.8	1.9	<0.05	0.1	2.84	15.4	0.02	<1	0.3	19.9	<10	<2
612739	Soil	0.33	10.2	1.6	<0.05	1.6	38.39	69.3	0.05	<1	2.1	27.6	<10	<2
612740	Soil	0.37	9.5	2.6	<0.05	1.0	6.26	19.7	0.04	<1	0.6	17.0	<10	<2
612741	Soil	0.79	6.7	0.9	<0.05	0.7	3.67	21.0	0.04	<1	0.6	15.8	<10	<2
612742	Soil	0.54	7.0	2.0	<0.05	0.6	3.82	25.0	0.03	<1	0.7	15.7	<10	<2
612743	Soil	0.37	7.4	0.9	<0.05	0.9	5.06	38.9	0.05	2	1.0	12.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612744	Soil			1.07	26.76	20.28	86.8	64	24.1	12.6	482	3.17	17.0	0.8	4.4	1.8	20.0	0.11	1.45	0.33	33	0.29	0.059
612745	Soil			0.61	62.34	42.77	142.3	101	58.8	32.5	1265	4.43	69.6	0.5	30.5	3.6	37.5	0.13	4.44	0.51	7	0.18	0.039
612746	Soil			0.50	60.94	32.66	117.2	96	45.3	21.0	988	4.44	50.8	0.7	8.1	3.2	25.6	0.09	3.91	0.47	8	0.11	0.034
612747	Soil			0.69	70.49	39.89	95.5	133	31.6	17.7	625	4.57	73.1	1.1	39.6	3.9	28.3	0.02	10.18	0.58	3	0.08	0.017
612748	Soil			0.64	50.51	41.77	48.8	96	9.1	6.1	110	3.71	68.0	0.3	17.9	2.2	16.3	0.03	10.81	0.49	4	0.04	0.021
612749	Soil			0.79	50.01	35.79	47.9	113	7.4	3.6	86	4.37	39.9	0.4	4.9	3.1	23.0	0.01	1.96	0.48	5	0.07	0.022
612750	Soil			0.62	39.37	29.64	85.5	50	35.6	17.9	681	3.96	16.5	0.8	3.0	3.5	13.1	0.08	0.37	0.39	21	0.06	0.027
612751	Soil			0.58	24.84	31.43	112.2	40	27.4	15.5	569	3.12	28.2	0.6	5.1	2.7	8.8	0.20	1.41	0.29	18	0.18	0.036
612752	Soil			0.69	19.77	21.17	257.6	99	21.2	10.3	783	3.09	18.5	0.8	4.7	1.3	11.1	0.47	1.21	0.31	28	0.92	0.125
612753	Soil			0.56	13.03	11.48	98.3	67	14.0	7.0	532	1.65	21.9	0.7	6.1	1.9	31.6	0.25	0.96	0.14	14	8.94	0.072
612754	Soil			0.54	15.24	20.57	114.7	122	17.4	8.1	522	2.70	9.5	0.7	1.0	1.5	21.5	0.29	0.59	0.27	25	2.06	0.107
612755	Soil			0.68	15.10	31.09	294.9	122	21.0	9.8	687	3.10	11.0	0.6	4.7	1.7	12.7	0.43	0.74	0.25	31	0.72	0.068
612756	Soil			0.81	18.27	33.01	85.0	87	22.7	10.7	901	2.84	14.0	0.5	4.2	3.1	12.5	0.24	0.89	0.26	27	0.59	0.038
118887	Soil			0.49	17.00	30.18	281.0	100	16.1	7.3	540	2.01	28.7	0.8	7.7	0.9	40.0	0.70	2.45	0.20	11	6.53	0.109
118888	Soil			0.39	15.05	26.17	243.8	87	13.1	6.3	381	1.58	24.8	1.1	19.4	1.5	39.1	0.47	2.80	0.15	9	10.24	0.111
118889	Soil			0.53	22.76	35.59	224.2	145	21.7	10.4	682	2.76	46.3	1.0	14.5	1.7	32.0	0.46	2.37	0.26	14	3.94	0.106
118890	Soil			0.48	26.03	32.26	84.7	114	22.6	12.7	496	2.63	29.5	0.9	23.6	1.1	46.0	0.29	2.29	0.31	13	1.50	0.123
118891	Soil			0.97	23.25	42.40	271.4	238	26.3	10.0	1428	3.48	73.8	3.9	35.7	1.2	31.5	0.47	2.37	0.29	30	1.05	0.173
118892	Soil			0.74	16.89	18.22	92.6	35	21.8	7.7	532	2.43	70.1	0.7	27.7	1.4	8.3	0.27	1.45	0.20	24	0.13	0.051
118893	Soil			0.69	22.73	27.25	154.1	130	22.4	10.8	782	3.39	23.9	1.3	6.9	1.8	22.2	0.32	1.43	0.33	29	0.85	0.109
118894	Soil			1.06	22.80	32.73	821.5	203	24.7	11.9	1414	3.44	37.1	1.4	14.5	1.6	21.6	1.48	2.41	0.28	34	0.75	0.131
118895	Soil			1.40	18.31	23.76	170.4	42	22.3	10.0	1361	3.82	13.4	0.9	1.4	0.5	13.6	0.47	1.28	0.34	59	0.26	0.113
118896	Soil			0.49	11.02	17.12	286.6	99	12.2	5.5	986	1.71	16.0	0.8	9.7	0.6	26.0	0.70	1.89	0.11	16	10.28	0.084
118897	Soil			0.25	6.25	9.96	470.5	68	6.7	3.3	655	0.98	9.0	0.7	9.2	0.5	26.7	1.49	1.27	0.07	7	12.31	0.071
118898	Soil			0.51	9.55	10.92	217.9	89	11.4	4.5	572	1.30	10.8	0.7	6.5	1.3	43.5	0.62	1.34	0.07	15	12.67	0.080
118899	Soil			0.46	8.17	13.88	214.2	66	10.8	5.9	1819	2.02	10.0	0.8	2.0	0.6	30.6	0.50	1.08	0.09	14	10.24	0.144
118900	Soil			0.79	16.62	17.11	73.2	97	20.7	9.0	414	2.24	9.2	0.6	3.4	3.0	24.0	0.31	0.75	0.20	26	3.41	0.064
118522	Soil			0.84	21.16	45.26	96.9	19	23.0	15.2	926	4.33	10.1	0.6	0.9	2.0	7.0	0.18	0.60	0.39	28	0.13	0.058
118523	Soil			0.25	24.40	30.75	36.4	57	19.6	13.0	126	2.15	5.1	0.4	2.3	2.2	14.9	0.04	0.16	0.35	6	0.09	0.023
612651	Soil			0.54	32.75	19.95	79.1	152	30.2	10.7	515	3.25	24.2	1.0	5.5	2.5	49.9	0.09	0.86	0.38	17	0.64	0.046



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 30, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
612744	Soil	9.8	22.1	0.27	420.2	0.005	2	0.98	0.003	0.04	0.1	3.2	0.11	0.03	934	0.7	0.05	3.8	1.73	<0.1	0.04
612745	Soil	7.2	9.2	0.31	82.6	<0.001	3	0.43	0.003	0.07	<0.1	7.0	0.10	0.03	50	0.4	0.10	1.3	9.90	<0.1	0.06
612746	Soil	7.8	11.1	0.23	57.9	0.001	2	0.56	0.003	0.07	<0.1	7.8	0.09	<0.02	35	0.5	0.09	1.8	9.32	<0.1	0.06
612747	Soil	7.7	3.7	0.07	33.7	<0.001	3	0.28	0.003	0.06	<0.1	5.1	0.14	<0.02	251	0.7	0.15	0.6	6.59	<0.1	0.08
612748	Soil	4.9	4.0	0.01	13.9	<0.001	2	0.32	0.003	0.05	<0.1	2.3	0.12	0.02	192	1.0	0.17	0.6	9.76	<0.1	<0.02
612749	Soil	6.2	3.7	0.02	15.5	<0.001	3	0.30	0.003	0.05	<0.1	3.1	0.34	<0.02	315	0.9	0.16	0.8	10.87	<0.1	0.03
612750	Soil	7.5	25.0	0.43	62.7	0.002	3	1.61	0.003	0.07	<0.1	3.8	0.09	<0.02	50	0.4	0.07	4.6	2.08	<0.1	0.04
612751	Soil	9.4	14.6	0.23	84.9	0.007	2	0.75	0.003	0.08	<0.1	3.1	0.14	0.02	106	0.2	<0.02	2.5	6.29	<0.1	0.03
612752	Soil	9.7	22.2	0.43	124.9	0.008	4	1.34	0.005	0.06	<0.1	2.6	0.10	0.09	585	0.6	<0.02	4.1	3.08	<0.1	0.11
612753	Soil	6.2	9.1	5.09	45.7	0.014	2	0.42	0.010	0.05	0.1	2.3	0.05	<0.02	49	0.4	0.05	1.2	2.53	<0.1	0.05
612754	Soil	14.1	18.6	1.09	92.2	0.007	4	1.19	0.006	0.07	<0.1	2.9	0.08	0.06	140	0.4	<0.02	3.0	0.80	<0.1	0.04
612755	Soil	15.9	21.9	0.52	88.8	0.014	3	1.22	0.008	0.06	0.2	3.2	0.08	0.03	117	0.7	0.10	3.5	0.98	<0.1	0.05
612756	Soil	16.5	18.4	0.41	132.1	0.008	2	1.00	0.006	0.07	<0.1	4.0	0.07	0.02	63	0.5	0.02	3.0	0.73	<0.1	0.04
118887	Soil	7.4	8.9	3.69	68.0	0.004	4	0.54	0.008	0.07	<0.1	1.7	0.06	0.05	894	0.6	<0.02	1.5	0.92	<0.1	0.06
118888	Soil	6.2	6.5	5.74	37.9	0.005	2	0.38	0.010	0.06	<0.1	1.8	0.06	<0.02	495	0.4	0.03	1.1	0.89	<0.1	0.05
118889	Soil	8.7	10.8	2.26	76.7	0.005	4	0.64	0.007	0.09	0.1	2.8	0.12	0.04	386	0.5	0.03	1.8	2.39	<0.1	0.11
118890	Soil	12.3	10.1	0.18	68.3	0.004	5	0.55	0.006	0.09	<0.1	2.6	0.08	0.08	264	0.7	0.06	1.6	2.43	<0.1	0.05
118891	Soil	12.9	21.8	0.30	122.0	0.008	3	1.31	0.007	0.06	<0.1	2.3	0.11	0.11	683	1.0	0.07	3.6	1.28	<0.1	0.13
118892	Soil	8.8	16.7	0.25	73.6	0.012	3	0.95	0.003	0.05	0.1	2.1	0.08	<0.02	50	0.5	0.07	2.9	1.60	<0.1	<0.02
118893	Soil	13.8	21.2	0.45	114.6	0.008	3	1.32	0.006	0.07	0.1	3.3	0.11	0.06	362	0.6	0.03	3.7	2.33	<0.1	0.09
118894	Soil	15.7	23.1	0.42	116.1	0.012	2	1.34	0.008	0.06	0.1	3.1	0.11	0.07	2218	0.6	0.10	3.8	2.30	<0.1	0.11
118895	Soil	11.8	30.8	0.37	175.5	0.018	2	2.07	0.005	0.05	0.2	1.3	0.16	0.08	67	0.5	0.06	7.1	2.02	<0.1	<0.02
118896	Soil	6.3	10.4	5.91	53.3	0.008	3	0.65	0.011	0.03	<0.1	1.2	0.04	<0.02	485	0.4	<0.02	1.5	0.42	<0.1	0.04
118897	Soil	4.9	5.2	6.97	25.2	0.005	2	0.28	0.011	0.02	<0.1	0.9	0.03	<0.02	1184	0.1	<0.02	0.8	0.30	<0.1	<0.02
118898	Soil	5.4	9.1	7.23	42.7	0.015	1	0.45	0.013	0.03	0.1	1.3	0.04	<0.02	373	0.6	0.03	1.3	0.39	<0.1	0.02
118899	Soil	13.5	8.9	5.74	61.9	0.005	3	0.58	0.012	0.03	<0.1	1.3	0.04	0.03	175	0.6	0.05	1.3	0.28	<0.1	0.02
118900	Soil	12.0	17.0	2.09	83.7	0.020	2	0.91	0.012	0.06	0.2	3.0	0.06	<0.02	31	0.5	<0.02	2.6	0.74	<0.1	0.06
118522	Soil	9.3	21.4	0.31	118.9	0.007	3	1.59	0.004	0.09	0.1	2.9	0.15	0.03	90	0.3	0.03	4.1	2.21	<0.1	0.02
118523	Soil	6.7	5.3	0.06	83.9	0.001	2	0.41	0.003	0.13	<0.1	2.1	0.11	0.06	19	0.3	0.02	1.4	3.87	<0.1	0.04
612651	Soil	6.1	18.5	0.30	96.4	0.001	2	1.07	0.004	0.07	<0.1	3.9	0.12	0.03	287	0.8	0.05	3.5	3.00	<0.1	0.10



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 7 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
612744	Soil			0.38	7.1	2.3	<0.05	1.0	6.31	26.5	0.03	<1	0.7	13.3	<10	<2
612745	Soil			0.04	7.2	2.2	<0.05	2.3	7.45	16.7	0.06	<1	1.9	9.5	<10	<2
612746	Soil			0.06	8.7	4.3	<0.05	1.6	11.57	16.0	0.07	<1	1.5	14.0	<10	<2
612747	Soil			<0.02	6.0	1.9	<0.05	3.3	4.51	16.6	0.04	<1	1.3	2.0	<10	2
612748	Soil			<0.02	6.9	15.9	<0.05	0.4	2.33	10.3	0.03	<1	0.6	0.9	<10	3
612749	Soil			<0.02	6.9	2.8	<0.05	1.5	2.80	12.5	0.03	<1	0.3	1.4	<10	<2
612750	Soil			0.16	9.1	2.1	<0.05	1.8	8.23	23.0	0.04	<1	1.4	40.7	<10	<2
612751	Soil			0.23	10.0	0.9	<0.05	1.3	6.46	26.8	0.03	<1	0.7	9.0	<10	<2
612752	Soil			0.48	10.9	1.1	<0.05	1.6	10.07	21.4	0.03	<1	1.1	9.7	<10	<2
612753	Soil			0.20	4.1	0.6	<0.05	1.4	7.08	12.8	<0.02	<1	0.4	4.6	<10	<2
612754	Soil			0.37	8.9	1.4	<0.05	1.8	11.76	23.7	0.03	<1	0.9	9.5	<10	<2
612755	Soil			0.40	8.5	0.6	<0.05	1.0	11.87	31.3	0.03	1	0.7	10.1	<10	<2
612756	Soil			0.36	6.8	2.2	<0.05	1.1	9.90	41.2	0.03	<1	0.8	10.5	<10	<2
118887	Soil			0.18	4.9	0.6	<0.05	1.3	9.60	14.1	<0.02	<1	0.5	4.6	<10	<2
118888	Soil			0.12	3.6	1.2	<0.05	1.5	7.99	12.4	<0.02	<1	0.4	3.1	<10	<2
118889	Soil			0.16	6.2	0.5	<0.05	2.0	10.62	20.0	0.02	<1	1.2	5.3	<10	<2
118890	Soil			0.18	6.4	2.6	<0.05	1.4	13.58	24.0	0.03	<1	1.1	5.4	<10	<2
118891	Soil			0.42	8.1	0.5	<0.05	3.1	16.36	26.7	0.04	<1	1.1	8.1	<10	<2
118892	Soil			0.25	6.9	1.0	<0.05	0.3	5.77	22.0	<0.02	<1	1.0	7.3	<10	<2
118893	Soil			0.36	9.9	0.6	<0.05	2.6	13.53	27.1	0.05	<1	1.4	10.6	<10	<2
118894	Soil			0.46	8.7	3.0	<0.05	2.4	15.59	31.1	0.03	<1	1.5	9.9	<10	<2
118895	Soil			0.61	9.1	0.9	<0.05	0.2	7.16	34.8	0.03	<1	1.0	13.5	<10	<2
118896	Soil			0.17	2.8	1.3	<0.05	0.9	7.27	14.1	<0.02	<1	0.4	4.3	<10	<2
118897	Soil			0.10	1.9	0.6	<0.05	0.7	5.06	10.2	<0.02	<1	0.3	2.3	<10	<2
118898	Soil			0.23	2.8	1.0	<0.05	0.9	5.31	11.8	<0.02	<1	0.5	4.4	<10	<2
118899	Soil			0.11	3.8	1.7	<0.05	0.8	11.56	28.5	0.02	<1	0.5	3.4	<10	<2
118900	Soil			0.40	5.6	2.5	<0.05	1.4	9.38	25.6	0.02	<1	0.4	8.2	<10	<2
118522	Soil			0.49	11.2	0.9	<0.05	0.7	4.81	30.3	0.03	<1	0.6	14.0	<10	<2
118523	Soil			0.07	10.7	3.4	<0.05	0.3	3.68	17.2	0.02	<1	1.2	1.9	<10	<2
612651	Soil			0.19	8.6	1.1	<0.05	2.7	6.55	12.7	0.04	<1	1.1	22.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 30, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612652	Soil			0.71	45.31	45.61	91.7	121	32.1	11.8	379	3.40	24.6	2.5	8.5	2.9	61.7	0.16	1.41	0.37	14	0.42	0.039
612653	Soil			0.49	37.17	19.36	100.2	43	27.5	11.9	445	3.25	17.4	1.3	2.0	2.5	49.5	0.11	0.61	0.35	17	0.59	0.046
612654	Soil			0.30	35.62	24.16	90.9	72	30.5	14.6	493	3.23	31.9	1.4	2.6	2.2	58.5	0.08	0.54	0.36	14	0.79	0.038
612655	Soil			0.39	53.55	27.34	68.0	110	32.1	15.5	842	2.69	16.0	1.0	3.7	1.9	63.6	0.13	0.81	0.35	10	0.78	0.045
612656	Soil			0.43	37.04	22.95	113.6	163	30.4	12.3	473	3.03	38.4	1.8	8.1	2.4	70.0	0.17	0.97	0.30	17	1.07	0.060
612657	Soil			0.54	32.07	22.98	80.4	93	25.6	13.6	555	3.11	14.8	1.5	5.0	2.9	45.0	0.15	0.65	0.37	20	0.56	0.041
612658	Soil			0.59	42.78	26.91	94.1	96	29.4	13.5	435	3.55	19.7	1.3	2.9	3.9	51.9	0.12	0.72	0.38	16	0.68	0.034
612659	Soil			0.57	32.09	22.15	99.1	108	29.4	17.0	751	3.28	17.3	1.8	3.1	2.8	63.8	0.10	0.70	0.37	17	0.88	0.057
612660	Soil			0.39	35.87	20.59	99.2	94	41.5	15.1	404	2.83	54.6	0.7	10.8	3.7	52.1	0.12	1.39	0.35	12	0.42	0.044
612661	Soil			0.64	32.45	18.75	94.2	29	31.8	12.3	544	3.77	25.6	0.5	1.0	2.6	14.6	0.12	1.01	0.37	20	0.06	0.049
612046	Soil			0.64	29.10	23.78	103.4	147	27.3	9.9	207	2.66	10.3	0.7	1.2	2.1	58.1	0.16	0.60	0.29	22	0.49	0.062
612047	Soil			0.65	30.66	25.46	126.7	82	29.1	15.1	541	3.18	13.2	0.6	0.5	2.4	75.2	0.21	0.62	0.33	18	0.57	0.042
612048	Soil			1.01	25.48	27.72	118.5	55	20.5	10.4	465	2.99	14.1	0.5	<0.2	0.6	16.1	0.51	0.72	0.37	23	0.12	0.078
612049	Soil			1.70	49.82	36.19	118.5	90	42.0	21.8	444	3.88	35.6	0.6	1.1	2.8	9.2	0.07	2.23	0.49	12	0.09	0.021
612050	Soil			0.96	42.09	30.31	144.5	108	33.3	16.2	317	4.16	23.6	0.4	<0.2	0.7	11.9	0.12	1.00	0.42	19	0.08	0.054
612841	Soil			0.56	21.60	33.41	178.3	119	21.4	9.2	458	2.08	23.5	1.5	6.9	0.9	77.0	0.46	2.67	0.25	12	6.93	0.160
612842	Soil			0.52	24.88	31.99	270.7	111	24.4	10.6	490	2.61	25.2	1.3	3.3	2.2	40.7	0.56	2.63	0.28	13	5.80	0.153
612843	Soil			0.60	25.30	49.35	324.4	175	25.8	12.7	936	3.30	330.7	1.3	115.7	1.6	39.8	0.59	3.67	0.33	19	2.27	0.148
612844	Soil			0.43	14.69	25.79	188.1	88	13.8	6.7	620	1.71	38.5	0.9	14.6	0.6	44.3	0.49	2.63	0.16	10	9.44	0.130
612845	Soil			0.65	22.91	24.29	115.3	104	21.9	9.5	400	2.53	37.9	0.8	7.8	1.3	36.2	0.36	1.50	0.27	19	1.23	0.082
612846	Soil			0.82	22.79	23.70	105.9	134	23.6	10.5	718	2.74	39.7	1.2	14.7	1.8	20.4	0.33	1.29	0.25	24	0.55	0.102
612847	Soil			0.79	20.68	16.02	65.0	67	22.0	10.2	312	2.38	27.1	0.7	8.4	3.8	14.2	0.17	1.04	0.25	25	0.24	0.059
612848	Soil			0.92	24.18	33.43	207.1	144	26.5	10.6	558	3.13	24.5	0.8	5.3	2.1	19.4	0.41	1.69	0.29	31	0.56	0.088
612849	Soil			0.87	21.76	47.15	661.0	151	22.1	10.3	2154	3.79	23.2	1.1	3.8	1.1	18.4	1.94	2.11	0.23	26	1.74	0.173
612850	Soil			0.37	18.62	29.03	30.6	43	13.1	9.4	218	1.45	8.8	0.4	0.9	1.6	18.2	0.08	0.51	0.29	10	0.10	0.030
612996	Soil			0.49	22.21	149.6	292.8	103	19.3	10.4	382	2.39	28.6	0.8	19.0	1.6	45.6	0.67	2.81	0.25	12	4.87	0.110
612997	Soil			0.60	29.90	30.99	153.9	134	25.6	13.4	517	2.77	40.0	0.9	3.8	1.3	42.6	0.41	1.80	0.32	14	1.68	0.118
612998	Soil			0.72	18.08	37.11	246.0	123	21.4	7.4	891	2.23	47.9	1.1	5.7	1.1	52.2	0.56	1.95	0.19	13	7.62	0.124
612999	Soil			0.63	15.59	24.59	183.1	138	17.1	6.2	906	2.15	26.8	1.1	7.5	1.3	37.0	0.54	1.59	0.15	19	8.72	0.120
613000	Soil			0.48	11.48	21.84	116.9	107	12.5	4.6	1532	2.18	24.0	1.1	7.4	0.9	23.1	0.43	1.80	0.11	13	7.92	0.108



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 30, 2011

Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
612652	Soil	7.6	22.5	0.54	56.3	0.001	5	0.80	0.004	0.08	<0.1	6.3	0.13	0.04	372	1.5	0.05	2.5	5.94	<0.1	0.10
612653	Soil	6.8	18.0	0.30	51.5	0.002	2	0.75	0.004	0.07	<0.1	3.7	0.08	0.04	164	0.7	0.09	3.2	2.12	<0.1	0.07
612654	Soil	6.9	20.0	0.36	52.4	0.001	3	0.59	0.003	0.07	<0.1	4.9	0.12	0.04	280	0.7	<0.02	2.2	4.07	<0.1	0.07
612655	Soil	10.7	11.4	0.26	47.4	<0.001	2	0.78	0.004	0.06	<0.1	3.8	0.10	0.06	400	1.1	0.06	1.9	3.85	<0.1	0.07
612656	Soil	7.1	19.9	0.34	98.0	0.002	2	0.96	0.004	0.07	<0.1	4.6	0.12	0.05	203	1.1	0.09	3.0	1.66	<0.1	0.11
612657	Soil	8.2	20.8	0.46	88.5	0.004	3	1.15	0.002	0.06	<0.1	3.8	0.08	<0.02	187	0.5	0.04	3.4	1.71	<0.1	0.06
612658	Soil	7.5	21.5	0.47	76.7	0.002	4	1.11	0.002	0.07	<0.1	4.9	0.08	0.03	725	0.5	0.06	3.0	1.62	<0.1	0.11
612659	Soil	7.5	21.8	0.46	90.6	0.002	3	1.23	0.002	0.07	<0.1	4.9	0.09	0.04	233	0.6	0.05	3.5	1.94	<0.1	0.09
612660	Soil	8.5	17.6	0.46	40.1	0.003	2	0.88	0.002	0.05	<0.1	6.0	0.06	<0.02	91	0.3	<0.02	2.4	3.72	<0.1	0.08
612661	Soil	7.0	21.1	0.37	49.6	0.004	1	1.05	0.002	0.05	<0.1	3.4	0.06	0.02	31	0.3	0.05	3.8	3.77	<0.1	0.02
612046	Soil	8.5	20.3	0.46	87.1	0.007	3	1.03	0.004	0.07	<0.1	3.6	0.09	0.04	85	0.3	0.05	3.2	2.78	<0.1	0.06
612047	Soil	4.7	17.6	0.39	81.6	0.006	5	0.80	0.004	0.08	<0.1	3.6	0.08	0.04	62	0.5	0.03	2.9	3.33	<0.1	0.03
612048	Soil	4.2	19.2	0.17	110.7	0.004	2	0.88	0.002	0.09	<0.1	1.6	0.09	0.03	39	0.3	0.03	3.6	2.17	<0.1	<0.02
612049	Soil	3.8	9.0	0.04	44.5	<0.001	2	0.19	0.001	0.06	<0.1	6.2	0.09	<0.02	191	0.3	0.04	0.8	1.68	<0.1	<0.02
612050	Soil	3.4	11.5	0.04	46.0	0.002	2	0.36	0.002	0.09	<0.1	2.8	0.09	<0.02	60	0.3	0.05	2.0	6.78	<0.1	<0.02
612841	Soil	9.9	9.8	2.65	67.2	0.004	7	0.66	0.007	0.10	<0.1	1.8	0.09	0.09	540	0.6	0.04	1.4	1.91	<0.1	0.03
612842	Soil	11.1	10.4	3.08	60.5	0.006	4	0.69	0.006	0.09	<0.1	2.7	0.08	0.03	563	0.5	0.09	1.6	1.28	<0.1	0.07
612843	Soil	11.3	14.3	1.01	94.6	0.006	4	0.86	0.005	0.09	<0.1	3.1	0.11	0.07	558	0.6	0.08	2.0	1.87	<0.1	0.07
612844	Soil	7.3	7.7	5.00	50.3	0.004	5	0.44	0.008	0.06	<0.1	1.4	0.07	0.05	1240	0.4	<0.02	1.0	1.26	<0.1	0.02
612845	Soil	12.9	13.7	0.42	79.7	0.007	3	0.76	0.004	0.06	<0.1	2.7	0.08	0.05	235	0.6	0.06	1.8	1.15	<0.1	0.05
612846	Soil	14.3	17.0	0.32	107.3	0.013	3	0.94	0.004	0.07	<0.1	2.8	0.09	0.03	163	0.4	<0.02	2.3	1.74	<0.1	0.05
612847	Soil	11.4	16.3	0.33	74.8	0.027	2	0.78	0.003	0.06	<0.1	3.3	0.06	<0.02	73	0.4	0.03	2.2	2.32	<0.1	0.03
612848	Soil	14.2	21.4	0.44	110.8	0.013	3	1.17	0.004	0.07	0.1	3.5	0.10	0.03	305	0.4	0.07	3.0	2.03	<0.1	0.05
612849	Soil	17.6	19.8	0.88	105.1	0.011	4	1.14	0.005	0.06	<0.1	2.3	0.09	0.08	747	0.6	0.03	2.3	1.51	<0.1	0.05
612850	Soil	5.9	7.9	0.10	121.2	0.003	3	0.49	0.003	0.13	<0.1	1.7	0.10	0.07	37	0.1	<0.02	1.6	9.33	<0.1	<0.02
612996	Soil	6.6	8.5	2.35	75.8	0.005	5	0.49	0.005	0.10	<0.1	2.8	0.08	0.03	597	0.5	0.05	1.3	1.69	<0.1	0.03
612997	Soil	9.9	10.9	0.46	110.0	0.005	5	0.61	0.004	0.09	<0.1	3.1	0.11	0.05	334	0.7	0.06	1.6	2.89	<0.1	0.03
612998	Soil	7.8	12.9	4.02	81.7	0.006	4	0.73	0.008	0.07	<0.1	2.0	0.11	0.04	489	0.7	<0.02	1.5	1.49	<0.1	0.04
612999	Soil	9.0	13.0	4.82	76.4	0.012	3	0.83	0.009	0.05	<0.1	1.9	0.07	0.02	290	0.7	<0.02	1.7	0.94	<0.1	0.02
613000	Soil	6.5	10.3	4.47	60.1	0.008	2	0.67	0.007	0.04	<0.1	1.3	0.06	0.02	224	0.5	<0.02	1.3	0.57	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
612652	Soil	0.16	12.7	37.7	<0.05	2.8	7.91	15.2	<0.02	<1	0.7	18.7	<10	<2
612653	Soil	0.22	8.6	1.1	<0.05	2.4	5.79	16.0	0.03	<1	0.6	15.2	<10	<2
612654	Soil	0.13	7.1	3.7	<0.05	2.6	7.32	13.6	0.02	<1	1.1	13.5	<10	<2
612655	Soil	0.15	7.9	0.9	<0.05	2.7	11.91	19.6	0.03	<1	1.7	9.0	<10	<2
612656	Soil	0.27	7.8	3.9	<0.05	3.0	9.11	16.2	0.03	<1	1.3	18.2	<10	<2
612657	Soil	0.28	7.6	0.5	<0.05	1.9	7.65	20.1	0.06	2	1.2	29.8	<10	<2
612658	Soil	0.19	6.3	5.5	<0.05	3.6	6.79	17.4	0.03	<1	0.6	28.4	<10	<2
612659	Soil	0.25	8.5	0.6	<0.05	3.0	8.52	15.3	0.04	<1	0.8	28.6	<10	<2
612660	Soil	0.19	6.6	2.2	<0.05	3.0	8.86	18.1	0.03	<1	0.9	27.9	<10	<2
612661	Soil	0.31	9.4	2.0	<0.05	0.8	3.88	15.2	0.04	<1	0.4	26.9	<10	<2
612046	Soil	0.37	10.5	3.5	<0.05	1.7	9.28	17.5	<0.02	<1	0.4	27.9	<10	<2
612047	Soil	0.31	12.4	1.2	<0.05	1.2	4.76	11.9	0.03	<1	0.8	21.6	<10	<2
612048	Soil	0.22	13.3	5.3	<0.05	0.2	2.61	9.3	0.02	1	0.7	12.2	<10	<2
612049	Soil	0.02	4.9	0.7	<0.05	1.1	8.77	9.7	0.05	<1	1.1	1.6	<10	<2
612050	Soil	0.08	11.3	4.8	<0.05	0.1	3.74	7.2	0.03	<1	0.5	1.8	<10	<2
612841	Soil	0.17	5.6	1.5	<0.05	1.1	11.98	16.4	<0.02	<1	0.9	4.4	<10	<2
612842	Soil	0.16	5.8	3.5	<0.05	2.0	13.23	20.5	<0.02	2	0.6	5.2	19	<2
612843	Soil	0.21	6.6	0.4	<0.05	2.3	13.05	22.4	0.03	<1	0.7	7.3	20	<2
612844	Soil	0.12	4.1	2.9	<0.05	0.8	8.00	13.5	<0.02	<1	0.5	4.1	12	<2
612845	Soil	0.28	6.0	0.4	<0.05	1.3	10.45	22.0	0.02	1	0.8	8.2	<10	<2
612846	Soil	0.31	8.1	1.4	<0.05	1.6	11.24	28.1	<0.02	<1	0.7	8.3	<10	<2
612847	Soil	0.34	6.4	0.5	<0.05	1.5	7.56	22.2	<0.02	<1	0.8	8.9	<10	<2
612848	Soil	0.34	9.0	2.0	<0.05	1.5	11.38	24.4	0.03	<1	0.9	10.1	10	<2
612849	Soil	0.28	7.6	0.8	<0.05	1.5	15.86	31.0	0.03	<1	0.7	7.2	<10	<2
612850	Soil	0.10	10.6	1.9	<0.05	0.5	3.37	14.6	<0.02	1	0.8	3.3	<10	<2
612996	Soil	0.20	6.3	0.4	<0.05	1.1	8.85	14.5	0.02	<1	0.7	4.9	17	<2
612997	Soil	0.22	7.5	0.8	<0.05	1.1	11.92	19.5	<0.02	<1	1.0	5.1	11	<2
612998	Soil	0.17	5.2	6.8	<0.05	1.2	8.84	17.0	<0.02	<1	0.7	5.5	16	<2
612999	Soil	0.19	4.8	0.4	<0.05	1.1	8.98	18.1	<0.02	<1	0.5	6.0	<10	<2
613000	Soil	0.14	3.4	1.5	<0.05	1.2	7.51	14.0	<0.02	<1	0.4	4.0	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612151	Soil			0.41	38.77	27.14	84.4	78	38.7	17.4	572	3.92	8.9	0.7	0.9	4.5	30.7	0.05	0.53	0.39	16	0.34	0.021
612152	Soil			0.52	46.82	36.61	78.1	313	33.4	20.0	726	3.83	4.9	0.7	0.3	3.9	53.7	0.14	0.26	0.29	18	1.06	0.098
612153	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
612154	Soil			0.62	55.75	53.19	99.3	273	45.2	29.6	736	4.87	7.5	0.6	0.8	4.9	19.4	0.07	0.33	0.34	24	0.21	0.043
612155	Soil			0.78	58.19	55.02	145.4	262	51.1	37.0	868	4.54	23.3	0.6	<0.2	4.1	106.7	0.09	0.69	0.43	18	1.68	0.067
612156	Soil			0.90	40.26	34.74	108.8	187	36.3	19.0	667	4.02	12.7	0.7	<0.2	2.3	228.0	0.20	0.51	0.35	19	2.30	0.087
612157	Soil			0.89	63.20	71.45	125.9	466	61.9	49.3	723	4.81	45.9	1.0	2.1	3.2	21.1	0.08	0.78	0.56	19	0.24	0.065
612158	Soil			1.09	50.48	52.47	149.3	123	41.8	21.8	371	4.67	35.4	0.7	<0.2	1.9	14.5	0.12	0.60	0.49	24	0.06	0.050
612159	Soil			0.95	19.99	37.69	68.1	72	14.7	8.7	1191	3.02	9.7	0.3	0.5	0.6	9.3	0.23	0.59	0.22	19	0.09	0.068
612160	Soil			1.56	26.73	16.90	59.9	38	14.5	7.7	358	2.54	8.0	0.5	<0.2	0.9	6.2	0.07	0.71	0.39	59	0.02	0.034
612161	Soil			0.86	23.15	19.68	57.4	23	18.6	8.2	238	2.55	11.2	0.4	0.4	1.7	6.4	0.11	0.60	0.25	30	0.03	0.027
612162	Soil			0.67	21.64	19.61	68.5	61	20.5	8.8	381	2.66	16.3	0.6	2.1	0.6	10.5	0.27	0.62	0.25	20	0.10	0.058
612163	Soil			0.86	27.74	32.14	86.7	110	24.4	11.2	850	4.09	15.5	0.7	<0.2	1.1	33.7	0.16	0.40	0.35	27	0.39	0.113
612164	Soil			0.68	42.73	42.20	123.4	53	32.5	23.9	1194	4.31	11.4	0.5	<0.2	2.3	11.2	0.12	0.33	0.48	27	0.03	0.049
612165	Soil			0.95	29.95	31.88	86.8	84	21.7	23.4	2030	5.01	17.0	0.5	1.7	1.3	11.5	0.20	0.43	0.38	36	0.06	0.095
612166	Soil			0.51	51.83	39.29	96.5	53	34.0	28.7	1437	4.35	16.3	0.7	0.2	3.3	26.2	0.09	0.39	0.36	27	0.08	0.073
612167	Soil			0.58	61.06	39.97	104.2	161	40.6	33.4	1861	4.66	25.2	0.6	<0.2	3.7	16.5	0.10	0.46	0.50	25	0.18	0.055
612168	Soil			0.74	56.61	26.78	89.3	156	41.3	21.7	636	4.16	21.3	0.6	2.3	3.7	44.6	0.12	0.61	0.41	16	0.62	0.050
612169	Soil			0.84	32.12	23.93	82.6	106	28.4	18.3	1106	3.73	15.9	1.7	<0.2	2.5	51.4	0.15	0.46	0.35	32	0.70	0.083
612170	Soil			1.03	66.94	32.16	103.5	179	49.1	26.5	712	4.28	23.0	0.7	1.3	3.1	71.3	0.16	0.61	0.44	18	1.02	0.068
612171	Soil			1.02	63.79	32.16	111.5	178	43.7	22.3	524	4.10	21.2	0.9	2.3	2.6	71.5	0.16	0.57	0.43	16	1.03	0.074
612172	Soil			0.74	45.38	25.16	102.8	108	32.9	12.9	205	3.02	19.2	1.0	3.6	1.8	146.3	0.13	1.21	0.42	13	2.64	0.073
612173	Soil			0.90	30.88	18.64	99.0	185	30.1	11.6	318	2.71	16.0	2.2	9.1	3.1	78.4	0.27	1.82	0.26	28	1.46	0.090
612174	Soil			0.93	41.23	19.79	86.4	123	34.8	16.8	593	3.37	12.7	1.1	2.9	4.2	72.2	0.13	0.75	0.35	22	1.38	0.052
612175	Soil			0.82	47.71	27.88	111.7	127	40.7	17.7	503	4.43	21.5	0.5	1.4	2.4	27.7	0.06	0.55	0.38	22	0.18	0.040
612176	Soil			0.68	41.88	22.51	101.5	84	33.4	14.2	371	4.05	18.5	0.6	0.8	2.2	27.8	0.04	0.31	0.39	22	0.31	0.064
612177	Soil			0.62	44.68	24.75	109.8	77	34.6	14.9	386	4.21	20.8	0.5	0.7	2.4	26.0	0.05	0.44	0.43	20	0.17	0.048
612178	Soil			0.85	39.56	29.89	97.9	77	28.0	23.4	1508	4.76	14.1	0.5	0.7	2.5	14.4	0.12	0.47	0.32	33	0.03	0.080
612179	Soil			0.62	54.55	29.37	102.2	124	40.9	20.3	1357	4.41	17.7	1.4	0.7	5.5	51.0	0.17	0.52	0.37	16	0.65	0.083
612180	Soil			0.54	49.20	23.99	95.6	103	38.0	18.4	693	4.07	19.3	0.8	1.3	3.6	31.1	0.08	0.61	0.36	19	0.28	0.053



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 30, 2011

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	
612151	Soil	5.3	21.3	0.32	140.9	0.003	3	1.08	<0.001	0.07	<0.1	3.6	0.07	<0.02	50	0.3	0.05	3.4	1.38	<0.1	0.06
612152	Soil	6.6	27.0	0.41	117.7	0.004	5	1.36	0.003	0.08	<0.1	11.5	0.10	0.08	73	0.5	0.03	4.3	2.53	<0.1	0.09
612153	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
612154	Soil	5.2	32.5	0.54	131.6	0.005	4	1.77	<0.001	0.09	<0.1	9.7	0.14	<0.02	62	0.5	<0.02	6.2	6.58	<0.1	0.08
612155	Soil	7.6	25.0	0.49	227.3	0.005	10	1.49	0.003	0.13	<0.1	10.2	0.19	0.07	86	1.0	0.12	4.0	6.81	<0.1	0.15
612156	Soil	10.1	22.2	0.39	223.9	0.003	6	1.48	0.004	0.09	<0.1	6.1	0.12	0.07	48	0.7	0.09	3.6	1.91	<0.1	0.08
612157	Soil	4.5	20.7	0.37	173.2	0.004	4	1.32	0.003	0.09	<0.1	8.5	0.17	<0.02	60	0.7	0.12	3.4	7.02	<0.1	0.06
612158	Soil	3.4	21.3	0.26	99.5	0.003	3	1.41	0.002	0.10	<0.1	3.7	0.10	0.03	23	0.7	0.10	4.0	9.24	<0.1	0.03
612159	Soil	4.4	14.7	0.08	111.7	0.005	1	0.64	0.002	0.06	<0.1	1.8	0.08	0.04	90	0.5	0.02	2.8	2.07	<0.1	<0.02
612160	Soil	10.6	16.2	0.08	72.9	0.007	2	1.17	<0.001	0.06	<0.1	1.3	0.21	<0.02	21	0.4	<0.02	6.4	3.35	<0.1	<0.02
612161	Soil	6.0	16.5	0.14	48.2	0.005	2	0.94	0.001	0.05	<0.1	1.9	0.10	<0.02	20	0.3	<0.02	3.7	1.99	<0.1	<0.02
612162	Soil	5.4	13.1	0.12	94.5	0.003	1	0.73	0.002	0.05	<0.1	1.2	0.08	0.03	28	<0.1	0.03	2.2	2.39	<0.1	<0.02
612163	Soil	8.2	21.9	0.24	133.9	0.005	2	1.27	0.003	0.07	<0.1	2.5	0.11	0.06	41	<0.1	0.05	4.0	3.02	<0.1	<0.02
612164	Soil	5.2	26.9	0.44	78.9	0.005	2	1.62	<0.001	0.09	<0.1	3.0	0.09	<0.02	17	0.2	0.07	5.3	5.93	<0.1	0.02
612165	Soil	4.1	26.0	0.29	76.3	0.007	1	1.50	0.002	0.09	<0.1	1.9	0.08	0.04	44	0.2	0.05	5.3	3.06	<0.1	<0.02
612166	Soil	5.3	27.0	0.57	106.9	0.005	2	1.62	<0.001	0.10	<0.1	4.5	0.10	<0.02	29	<0.1	0.11	4.8	5.10	<0.1	0.04
612167	Soil	4.7	29.8	0.89	103.9	0.005	4	2.03	0.002	0.10	<0.1	7.0	0.13	<0.02	40	<0.1	0.08	5.7	6.25	<0.1	0.08
612168	Soil	7.8	15.3	0.29	109.1	0.002	1	0.94	0.002	0.07	<0.1	9.0	0.09	0.03	70	<0.1	0.07	2.3	1.07	<0.1	0.09
612169	Soil	13.9	27.0	0.46	178.4	0.004	1	1.69	0.003	0.06	<0.1	5.7	0.11	0.04	50	0.3	0.05	4.8	1.35	<0.1	0.05
612170	Soil	8.6	19.5	0.51	135.5	0.002	3	1.30	0.003	0.07	<0.1	8.2	0.10	0.06	86	0.6	0.11	3.1	1.54	<0.1	0.11
612171	Soil	9.7	19.7	0.50	136.1	0.002	3	1.21	0.003	0.07	<0.1	6.4	0.07	0.06	89	0.5	0.08	3.1	1.05	<0.1	0.09
612172	Soil	7.1	13.1	0.42	139.2	0.002	6	0.85	0.005	0.08	<0.1	4.4	0.11	0.06	67	0.8	0.09	2.5	1.53	<0.1	0.08
612173	Soil	24.3	35.4	0.90	212.3	0.009	7	1.09	0.006	0.10	<0.1	6.0	0.22	0.07	285	1.2	<0.02	3.4	4.91	<0.1	0.10
612174	Soil	8.9	20.6	0.83	87.4	0.009	3	1.18	0.007	0.10	<0.1	5.3	0.10	<0.02	160	0.2	0.06	3.7	3.69	<0.1	0.05
612175	Soil	5.7	18.2	0.11	56.9	0.002	1	0.54	0.002	0.07	<0.1	4.6	0.07	<0.02	183	0.2	0.07	1.9	2.46	<0.1	0.03
612176	Soil	5.5	18.4	0.13	72.7	0.002	1	0.70	0.002	0.06	<0.1	4.9	0.09	0.02	105	0.2	0.05	2.7	3.28	<0.1	0.07
612177	Soil	6.5	17.6	0.14	67.4	0.001	1	0.75	0.002	0.07	<0.1	4.9	0.08	<0.02	137	0.3	0.08	2.6	4.12	<0.1	0.04
612178	Soil	4.9	24.6	0.35	67.6	0.003	2	1.81	<0.001	0.09	<0.1	3.2	0.12	0.03	49	0.4	0.10	4.7	8.69	<0.1	0.06
612179	Soil	17.6	21.8	0.37	158.4	0.002	1	1.48	0.002	0.06	<0.1	14.1	0.08	0.04	280	0.5	0.07	2.8	3.14	<0.1	0.08
612180	Soil	8.7	17.5	0.28	94.7	0.003	<1	1.03	0.001	0.07	<0.1	6.2	0.07	<0.02	243	0.2	0.06	2.5	2.78	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 9 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
612151	Soil	0.12	5.8	0.7	<0.05	2.2	6.36	14.7	0.04	1	1.0	32.1	<10	<2
612152	Soil	0.27	8.5	6.4	<0.05	2.3	25.51	22.4	0.04	2	1.4	43.9	<10	<2
612153	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
612154	Soil	0.13	11.9	2.5	<0.05	2.6	15.69	16.0	0.05	<1	1.4	69.1	<10	<2
612155	Soil	0.22	13.9	2.4	<0.05	4.6	23.44	22.1	0.06	<1	2.0	55.8	<10	3
612156	Soil	0.17	9.0	1.1	<0.05	2.5	21.66	31.3	0.06	<1	1.5	42.5	<10	<2
612157	Soil	0.14	12.4	2.6	<0.05	2.2	19.06	12.8	0.05	<1	1.3	41.2	11	<2
612158	Soil	0.19	15.0	1.3	<0.05	1.2	5.36	7.8	0.04	<1	1.1	41.7	11	<2
612159	Soil	0.17	12.1	12.0	<0.05	0.2	2.32	10.6	<0.02	<1	0.5	5.0	<10	<2
612160	Soil	0.50	14.1	1.3	<0.05	0.1	2.33	20.4	0.03	<1	0.4	7.4	<10	<2
612161	Soil	0.34	9.4	2.6	<0.05	0.5	2.41	13.2	<0.02	<1	0.4	11.6	<10	<2
612162	Soil	0.12	7.3	0.6	<0.05	<0.1	4.09	11.9	0.02	<1	0.9	12.4	<10	<2
612163	Soil	0.29	11.3	4.0	<0.05	0.3	10.87	22.0	0.03	<1	1.0	31.8	<10	<2
612164	Soil	0.26	12.8	0.8	<0.05	1.2	3.67	11.3	0.03	<1	1.6	54.4	11	<2
612165	Soil	0.34	12.0	2.7	<0.05	0.3	3.04	9.5	0.02	<1	1.0	31.9	<10	<2
612166	Soil	0.15	11.3	1.6	<0.05	1.0	8.55	16.5	0.04	<1	1.6	55.8	<10	<2
612167	Soil	0.08	10.0	1.9	<0.05	2.5	10.38	12.3	0.04	<1	1.5	73.8	<10	<2
612168	Soil	0.11	5.9	0.5	<0.05	2.6	20.23	16.6	0.04	<1	1.1	21.1	<10	<2
612169	Soil	0.29	10.7	3.7	<0.05	1.3	19.05	34.2	0.04	<1	1.5	31.8	<10	<2
612170	Soil	0.18	6.3	1.4	<0.05	3.2	22.52	22.1	0.05	<1	1.4	36.4	11	<2
612171	Soil	0.11	5.2	1.1	<0.05	2.7	22.07	21.3	0.06	<1	1.7	31.8	<10	<2
612172	Soil	0.12	6.7	0.6	<0.05	2.2	15.52	17.1	0.06	<1	1.1	19.8	<10	<2
612173	Soil	0.26	12.6	4.1	<0.05	3.3	16.49	55.7	0.04	1	1.0	23.6	<10	<2
612174	Soil	0.21	7.3	0.7	<0.05	2.1	9.05	21.6	0.04	<1	1.0	29.3	<10	<2
612175	Soil	0.10	5.6	4.3	<0.05	1.1	9.19	12.0	0.03	<1	0.9	8.6	<10	<2
612176	Soil	0.14	7.5	0.9	<0.05	2.1	8.82	12.3	0.04	<1	0.9	10.6	<10	<2
612177	Soil	0.11	7.8	1.7	<0.05	1.2	7.71	13.5	0.02	<1	1.5	14.8	<10	<2
612178	Soil	0.33	14.5	0.8	<0.05	1.7	3.70	11.6	0.04	<1	1.1	41.0	<10	<2
612179	Soil	0.15	7.9	1.9	<0.05	2.3	36.48	33.5	0.04	<1	1.7	36.3	<10	<2
612180	Soil	0.12	6.4	0.5	<0.05	1.4	15.45	19.5	0.05	<1	1.3	23.5	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
612181	Soil	0.83	35.55	21.28	90.6	186	33.5	13.6	344	3.04	22.6	1.3	3.4	3.6	61.5	0.19	1.31	0.27	23	0.55	0.062
612182	Soil	0.71	21.46	17.48	65.2	18	14.7	7.6	276	3.00	18.9	0.7	1.1	1.5	11.0	0.15	1.38	0.26	26	0.07	0.037
612183	Soil	0.73	27.79	24.79	109.8	214	19.2	8.7	761	2.74	53.8	4.2	5.1	1.6	111.9	0.71	5.67	0.21	21	2.05	0.097
612184	Soil	0.61	31.46	18.70	78.3	108	23.0	9.2	240	2.09	33.7	2.5	9.8	5.3	113.1	0.25	2.08	0.16	17	4.10	0.076
612185	Soil	0.74	32.78	18.12	104.2	93	31.6	14.1	301	3.05	27.7	1.6	3.5	3.5	41.4	0.28	1.36	0.24	20	0.90	0.056
612186	Soil	0.67	36.46	17.46	96.4	112	33.4	13.8	280	2.71	47.8	1.4	5.3	4.2	65.6	0.20	1.45	0.23	19	0.78	0.073
612187	Soil	0.46	28.60	15.07	94.0	78	30.4	14.0	350	2.93	9.6	1.1	1.6	6.3	61.3	0.18	0.32	0.23	21	0.99	0.103
612188	Soil	0.49	26.62	14.34	78.6	112	25.6	11.8	260	2.52	12.1	1.1	2.5	3.0	59.6	0.10	0.38	0.22	20	1.38	0.069
612189	Soil	0.46	31.60	13.25	97.6	127	28.1	12.5	385	2.48	13.0	1.5	3.0	3.5	62.9	0.20	0.52	0.21	20	1.09	0.074
118524	Soil	0.55	40.02	15.27	88.4	52	29.8	15.9	256	3.63	33.2	0.4	1.3	1.6	10.3	0.07	0.83	0.31	20	0.02	0.040
118525	Soil	1.34	18.36	14.57	72.1	43	16.5	8.3	352	2.74	18.5	0.4	2.0	2.5	8.8	0.18	0.75	0.27	42	0.02	0.031
118526	Soil	1.08	35.81	20.11	87.5	84	25.0	12.3	399	3.40	25.3	0.6	2.2	0.4	10.6	0.12	1.17	0.33	21	0.02	0.047
118527	Soil	1.18	24.84	22.63	85.4	61	19.3	9.1	282	2.93	23.4	0.4	0.9	0.2	7.9	0.32	0.75	0.29	27	0.03	0.048
118528	Soil	1.00	27.96	24.24	135.4	354	20.3	9.3	990	2.96	12.3	0.9	0.5	0.4	56.8	0.35	0.43	0.32	33	0.47	0.171
118529	Soil	1.07	29.44	24.99	92.0	92	19.1	17.7	1255	3.92	13.0	0.4	0.2	1.9	9.6	0.26	0.48	0.38	38	0.03	0.056
118530	Soil	1.04	32.81	23.64	102.6	61	27.6	14.1	539	4.48	16.5	0.5	0.6	1.0	9.6	0.15	0.52	0.34	32	0.03	0.079
118531	Soil	0.48	54.90	21.64	84.1	174	44.9	23.9	1307	4.62	87.3	0.6	3.5	3.5	43.1	0.04	1.26	0.50	9	0.11	0.035
118532	Soil	1.50	19.46	23.56	75.1	93	20.2	9.2	363	3.96	13.8	0.6	4.8	0.5	7.9	0.15	0.86	0.39	47	0.04	0.054
118533	Soil	1.43	53.78	25.81	122.6	686	31.5	18.6	1842	3.60	11.2	1.6	2.2	0.7	37.1	1.36	0.69	0.42	53	0.45	0.105
118534	Soil	0.98	21.06	22.94	100.1	65	19.9	11.8	613	3.50	10.1	0.5	2.0	1.8	29.2	0.16	0.56	0.44	42	0.37	0.050
118535	Soil	0.75	25.38	23.30	75.2	43	21.2	10.9	399	3.52	9.4	0.7	0.8	1.6	38.9	0.14	0.44	0.39	34	0.46	0.094
118536	Soil	0.75	29.92	28.60	80.1	30	25.2	14.2	972	3.84	15.0	0.9	1.5	2.3	11.8	0.13	0.83	0.35	25	0.13	0.066
118537	Soil	1.38	23.34	23.72	75.6	38	28.6	12.6	476	3.39	16.1	0.8	2.8	1.2	11.4	0.12	1.08	0.33	43	0.08	0.046
118538	Soil	0.76	35.35	30.56	73.4	36	23.7	15.1	257	3.02	11.0	0.6	1.5	2.0	15.8	0.13	0.94	0.45	25	0.21	0.045
118539	Soil	6.24	67.02	32.40	97.1	755	37.8	14.8	311	2.74	106.5	1.3	13.5	1.6	105.9	1.21	6.48	0.36	23	3.40	0.076
118540	Soil	1.69	39.64	24.04	84.5	534	24.0	11.2	391	2.21	29.7	6.1	10.2	3.4	299.0	0.54	3.67	0.25	16	6.77	0.114
118541	Soil	1.16	30.26	17.04	67.9	361	23.4	10.6	256	2.03	19.1	3.5	7.2	6.1	346.0	0.21	0.65	0.17	14	7.47	0.084
118542	Soil	0.75	30.42	18.73	84.8	138	31.1	12.5	326	2.62	85.5	1.5	6.5	5.5	97.9	0.20	1.53	0.22	21	3.33	0.071
118543	Soil	0.68	40.48	25.84	109.7	106	45.3	16.7	462	3.20	54.6	1.2	4.5	4.7	95.9	0.19	1.35	0.33	19	1.95	0.065
118544	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
612181	Soil	16.0	23.9	0.39	93.4	0.005	3	1.00	0.003	0.07	<0.1	5.7	0.13	<0.02	478	0.4	0.07	2.7	1.80	<0.1	0.05
612182	Soil	6.2	15.4	0.13	45.6	0.002	<1	0.91	0.001	0.05	<0.1	1.5	0.07	<0.02	146	0.3	0.05	3.5	0.90	<0.1	<0.02
612183	Soil	18.2	13.7	0.09	91.2	0.003	2	0.64	0.003	0.06	<0.1	4.5	0.09	0.05	1317	0.7	0.13	1.6	0.84	<0.1	0.03
612184	Soil	15.8	11.8	1.78	46.0	0.004	1	0.33	0.007	0.06	<0.1	4.4	0.09	<0.02	672	0.8	<0.02	0.9	0.65	<0.1	0.08
612185	Soil	15.9	25.7	0.27	75.4	0.002	2	0.57	0.003	0.05	<0.1	6.6	0.09	0.05	530	1.2	0.05	1.4	1.04	<0.1	0.08
612186	Soil	21.1	27.1	0.26	88.2	0.002	3	0.51	0.002	0.06	<0.1	6.1	0.17	0.03	442	1.6	<0.02	1.5	1.57	<0.1	0.06
612187	Soil	24.3	40.4	0.86	100.0	0.003	3	1.14	0.002	0.07	<0.1	5.5	0.08	0.04	100	1.2	0.04	3.2	1.01	<0.1	0.08
612188	Soil	15.1	28.9	0.55	94.7	0.003	2	0.86	0.003	0.05	<0.1	5.0	0.08	0.06	288	1.1	0.06	2.4	0.99	<0.1	0.11
612189	Soil	19.3	27.9	0.56	117.8	0.004	2	0.99	0.003	0.08	<0.1	5.8	0.08	0.05	236	1.1	0.08	2.6	1.31	<0.1	0.11
118524	Soil	4.9	13.6	0.07	44.3	0.002	<1	0.56	0.001	0.07	<0.1	2.9	0.05	<0.02	15	0.2	0.06	2.0	2.73	<0.1	<0.02
118525	Soil	11.2	14.2	0.05	57.3	0.016	<1	0.63	0.001	0.06	<0.1	1.6	0.09	<0.02	33	0.2	0.07	4.8	2.38	<0.1	<0.02
118526	Soil	7.0	10.7	0.05	51.3	0.004	1	0.54	0.002	0.06	<0.1	1.3	0.07	0.02	85	0.2	0.09	2.3	2.72	<0.1	<0.02
118527	Soil	7.4	13.4	0.06	50.7	0.005	<1	0.54	0.002	0.06	<0.1	0.9	0.06	0.02	33	0.1	0.06	3.2	1.74	<0.1	<0.02
118528	Soil	8.5	21.9	0.28	202.6	0.004	2	1.46	0.005	0.10	<0.1	1.4	0.13	0.09	45	0.3	0.08	4.5	6.11	<0.1	<0.02
118529	Soil	7.5	24.7	0.21	105.8	0.007	2	1.41	0.002	0.11	<0.1	2.4	0.11	0.02	31	0.2	0.08	6.1	5.22	<0.1	0.02
118530	Soil	6.5	29.0	0.40	60.3	0.006	2	1.87	0.001	0.07	<0.1	2.0	0.11	0.04	69	0.3	0.07	5.4	2.42	<0.1	0.02
118531	Soil	8.4	6.4	0.10	202.7	<0.001	2	0.46	0.002	0.08	<0.1	8.4	0.09	<0.02	113	0.3	0.10	1.0	6.83	<0.1	<0.02
118532	Soil	8.4	26.4	0.30	78.7	0.010	1	1.52	0.001	0.04	0.1	1.3	0.19	0.03	39	0.5	0.07	6.4	2.03	<0.1	<0.02
118533	Soil	9.7	28.8	0.29	379.6	0.010	<1	1.70	0.003	0.07	0.1	1.8	0.16	0.06	19	0.2	0.06	7.0	5.37	<0.1	<0.02
118534	Soil	8.1	23.8	0.32	165.4	0.015	2	1.23	0.003	0.08	0.1	2.8	0.09	0.03	36	0.1	0.07	5.8	1.92	<0.1	<0.02
118535	Soil	5.0	21.1	0.25	198.1	0.003	1	1.68	0.003	0.04	<0.1	2.3	0.13	0.04	31	0.2	0.06	5.0	1.92	<0.1	0.04
118536	Soil	7.5	16.9	0.17	155.8	0.002	2	1.48	0.002	0.05	<0.1	3.7	0.13	0.03	44	0.3	0.04	3.3	1.79	<0.1	0.04
118537	Soil	12.3	26.3	0.41	110.1	0.011	1	1.61	0.002	0.05	0.1	2.2	0.13	<0.02	59	0.4	0.08	5.0	2.28	<0.1	<0.02
118538	Soil	4.6	14.6	0.18	106.3	0.002	2	1.08	0.002	0.07	<0.1	3.1	0.12	<0.02	52	0.1	0.08	3.4	3.61	<0.1	0.03
118539	Soil	6.3	10.4	1.64	88.7	0.002	3	0.33	0.005	0.07	<0.1	5.4	0.36	0.04	1832	1.8	0.13	1.0	1.73	<0.1	0.05
118540	Soil	14.6	9.4	1.71	85.6	0.003	3	0.41	0.008	0.08	<0.1	4.0	0.09	0.03	386	1.0	0.06	1.0	0.59	<0.1	0.07
118541	Soil	18.2	12.0	2.32	132.9	0.002	2	0.33	0.007	0.10	<0.1	4.4	0.16	0.05	286	1.4	0.03	1.0	1.88	<0.1	0.06
118542	Soil	17.8	26.4	1.66	138.2	0.003	2	0.37	0.007	0.07	<0.1	4.8	0.40	0.04	558	1.2	0.03	1.5	3.43	<0.1	0.03
118543	Soil	15.3	26.1	1.05	123.4	0.003	3	0.59	0.004	0.08	<0.1	6.8	0.30	0.04	426	1.0	0.03	1.9	8.74	<0.1	0.07
118544	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 10 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
612181	Soil			0.29	7.6	3.5	<0.05	2.0	15.31	32.1	0.04	<1	0.9	21.8	<10	<2
612182	Soil			0.23	10.3	1.0	<0.05	0.7	2.14	13.8	<0.02	<1	0.4	14.3	<10	<2
612183	Soil			0.25	7.8	1.7	<0.05	1.3	21.63	46.8	0.03	<1	1.4	7.7	<10	<2
612184	Soil			0.16	4.0	2.6	<0.05	3.0	12.02	34.2	0.02	1	0.8	4.3	<10	<2
612185	Soil			0.20	5.4	1.8	<0.05	2.3	13.04	37.9	0.03	<1	0.7	8.5	<10	<2
612186	Soil			0.14	5.9	0.5	<0.05	2.3	12.28	42.3	0.04	<1	0.7	8.4	<10	<2
612187	Soil			0.30	7.4	0.8	<0.05	3.0	11.89	49.0	0.04	<1	0.9	29.9	<10	<2
612188	Soil			0.33	5.7	2.0	<0.05	3.2	10.23	30.6	0.03	<1	0.9	16.9	<10	<2
612189	Soil			0.35	6.9	0.6	<0.05	3.1	12.15	36.5	0.03	<1	0.8	23.2	11	<2
118524	Soil			0.16	10.6	0.7	<0.05	0.1	2.58	10.3	0.03	<1	1.0	5.2	<10	<2
118525	Soil			0.73	20.8	1.6	<0.05	0.3	2.23	21.8	<0.02	<1	0.3	2.7	<10	<2
118526	Soil			0.13	10.8	1.0	<0.05	<0.1	2.60	14.3	0.03	<1	0.6	2.3	<10	<2
118527	Soil			0.23	13.6	1.7	<0.05	<0.1	2.45	15.1	0.03	<1	0.3	3.2	<10	<2
118528	Soil			0.40	25.6	1.9	<0.05	0.4	11.59	16.0	0.03	<1	1.2	26.9	<10	<2
118529	Soil			0.67	21.2	2.7	<0.05	0.5	2.94	15.2	0.03	<1	0.6	24.4	<10	<2
118530	Soil			0.56	13.0	1.5	<0.05	0.7	3.91	14.4	0.03	<1	0.8	40.0	<10	<2
118531	Soil			0.03	9.9	1.9	<0.05	0.7	21.72	14.9	0.06	<1	1.4	5.0	<10	<2
118532	Soil			0.84	7.6	1.5	<0.05	0.2	2.97	17.6	0.06	<1	0.4	17.3	<10	<2
118533	Soil			0.96	15.7	2.6	<0.05	0.3	5.75	20.2	0.04	<1	1.0	25.1	<10	<2
118534	Soil			0.73	15.6	2.9	<0.05	0.4	3.75	17.0	0.04	<1	0.7	22.4	<10	<2
118535	Soil			0.46	11.9	1.2	<0.05	1.0	3.78	22.7	0.04	<1	1.0	26.5	<10	<2
118536	Soil			0.29	10.2	1.1	<0.05	1.1	8.75	32.5	0.05	<1	1.2	16.9	<10	<2
118537	Soil			0.59	9.1	1.7	<0.05	0.3	3.84	26.3	0.03	<1	0.7	19.7	<10	<2
118538	Soil			0.27	11.8	8.4	<0.05	0.7	3.85	13.5	<0.02	<1	0.8	18.8	<10	<2
118539	Soil			0.09	4.2	1.6	<0.05	1.7	13.46	14.6	0.04	<1	1.1	3.4	<10	<2
118540	Soil			0.11	4.6	2.4	<0.05	2.4	13.80	33.3	0.03	<1	1.0	4.8	<10	<2
118541	Soil			0.06	5.4	2.2	<0.05	3.9	9.78	37.9	<0.02	1	0.8	7.7	<10	<2
118542	Soil			0.08	5.5	1.8	<0.05	1.9	11.30	38.2	0.02	<1	0.5	8.4	<10	<2
118543	Soil			0.11	7.4	3.1	<0.05	2.0	11.62	33.2	0.04	<1	0.8	13.9	<10	<2
118544	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
118545	Soil	0.67	51.74	31.44	99.6	77	43.1	20.9	598	3.88	29.4	1.2	2.5	2.1	39.6	0.12	1.74	0.45	16	0.34	0.056
118546	Soil	0.55	19.62	16.59	70.5	86	17.7	8.0	435	1.76	27.4	3.1	2.3	0.5	122.7	0.33	1.43	0.16	13	2.35	0.091
118547	Soil	0.51	49.68	22.21	111.9	51	50.7	18.2	494	3.87	26.8	0.7	3.1	2.9	37.3	0.17	0.84	0.41	18	0.43	0.041
118548	Soil	0.60	65.48	39.06	111.0	83	46.5	26.1	1059	4.13	45.2	0.7	3.0	3.1	50.9	0.10	0.95	0.54	20	0.25	0.027
118549	Soil	0.50	46.58	21.66	113.0	56	48.4	16.9	666	3.80	18.7	0.7	3.6	4.3	50.6	0.17	0.50	0.35	20	0.37	0.033
118550	Soil	0.78	87.81	42.81	134.7	120	57.7	45.3	969	5.48	43.5	0.5	5.9	3.8	26.5	0.03	0.72	0.69	14	0.05	0.017
118212	Soil	0.51	35.60	23.31	100.5	24	35.1	15.9	592	3.67	41.3	0.6	2.1	2.7	27.2	0.10	0.69	0.40	20	0.15	0.038
118213	Soil	0.54	31.55	23.64	147.9	118	28.4	11.3	302	3.39	54.8	1.2	6.3	3.1	45.7	0.16	0.86	0.34	19	0.69	0.047
118214	Soil	0.60	26.30	22.39	64.8	157	23.5	14.6	814	3.06	12.1	1.1	0.9	2.6	74.5	0.15	0.42	0.30	25	0.96	0.065
118215	Soil	0.56	53.39	31.33	125.7	74	56.5	22.3	893	4.01	49.0	0.7	5.2	3.6	90.6	0.15	1.20	0.42	16	0.71	0.044
118216	Soil	2.38	40.50	28.94	111.3	683	30.1	12.2	409	2.46	188.2	5.6	15.6	1.5	275.6	0.53	3.20	0.24	26	4.79	0.063
118217	Soil	1.74	27.99	19.46	78.4	393	18.2	9.1	297	1.86	73.9	10.0	7.3	0.6	138.6	0.39	1.50	0.23	24	1.97	0.074
118218	Soil	0.86	29.71	20.12	82.6	205	20.5	9.7	448	2.32	57.9	5.5	4.5	0.8	118.1	0.29	1.15	0.26	22	2.23	0.089
118219	Soil	0.50	20.91	14.56	35.1	62	13.9	6.6	205	1.37	25.4	2.6	1.3	0.4	138.6	0.16	0.35	0.17	8	2.68	0.054
118057	Soil	0.61	27.12	26.82	82.3	142	22.8	16.2	652	2.85	87.8	1.5	1.5	1.8	81.9	0.07	0.97	0.36	19	1.17	0.057
118058	Soil	0.52	30.24	22.01	70.7	155	21.5	12.4	457	2.48	80.4	2.5	3.6	1.6	120.3	0.13	0.73	0.31	14	1.81	0.054
118059	Soil	0.60	31.99	24.67	92.2	163	28.5	14.4	564	3.07	81.6	2.0	4.8	2.8	72.8	0.17	0.82	0.34	19	0.98	0.054
118060	Soil	0.59	37.92	27.95	99.3	94	31.0	16.0	456	3.62	175.1	1.2	9.7	2.4	72.3	0.06	1.22	0.38	13	0.91	0.040
118061	Soil	0.65	43.35	25.20	94.0	88	33.8	16.9	339	3.77	141.3	1.5	10.3	2.6	47.5	0.10	1.33	0.38	17	0.47	0.038
118766	Soil	0.69	72.55	33.10	95.3	93	31.1	19.8	1323	4.40	22.5	0.6	3.2	2.5	17.5	0.04	0.67	0.51	17	0.02	0.041
118767	Soil	0.59	35.25	19.19	91.6	140	31.6	12.4	417	3.12	34.5	1.8	4.4	2.7	63.1	0.13	0.82	0.31	18	0.89	0.058
118768	Soil	0.69	42.50	22.04	101.2	33	31.6	15.4	542	3.58	67.5	0.7	2.3	3.4	35.0	0.07	0.98	0.34	18	0.23	0.034
118769	Soil	0.52	46.53	23.69	91.1	109	36.9	15.0	361	3.65	30.3	0.9	4.2	3.8	38.3	0.07	0.84	0.37	19	0.42	0.036
118770	Soil	0.52	27.68	20.28	77.8	113	27.0	10.2	363	3.02	9.4	1.0	4.8	3.1	60.3	0.10	0.46	0.38	20	0.85	0.046
118771	Soil	0.81	33.44	19.93	95.5	338	23.7	10.5	426	2.49	1322	11.0	12.7	0.7	132.6	0.25	1.89	0.34	20	1.88	0.087
118772	Soil	1.51	27.00	23.01	51.3	71	14.2	5.8	149	2.44	27.9	4.4	5.7	1.6	70.8	0.72	2.40	0.35	41	0.81	0.043
118773	Soil	0.58	22.41	15.36	46.8	219	12.9	6.3	604	2.38	14.6	8.1	2.9	0.9	137.0	0.20	0.51	0.32	27	1.61	0.089
118774	Soil	0.72	33.84	20.66	90.8	83	25.7	13.2	538	3.27	30.7	1.4	4.2	4.3	72.3	0.20	1.28	0.25	20	0.72	0.031
118775	Soil	0.78	18.12	17.26	48.9	43	14.0	6.2	109	2.19	16.9	1.5	1.4	3.7	71.8	0.15	0.45	0.26	34	0.73	0.026
118776	Soil	0.92	14.31	14.63	46.1	22	13.0	6.1	144	2.42	17.0	0.8	2.3	3.3	15.0	0.10	0.60	0.25	29	0.09	0.014



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
118545	Soil	5.8	18.8	0.13	49.0	0.002	1	0.49	0.004	0.07	<0.1	5.6	0.10	0.04	126	0.4	0.07	2.0	3.68	<0.1	0.05
118546	Soil	10.1	14.2	0.22	79.6	0.002	2	0.29	0.008	0.05	<0.1	1.8	0.10	0.12	335	1.2	0.03	0.8	0.97	<0.1	0.03
118547	Soil	6.0	23.4	0.31	42.6	0.002	3	0.59	0.003	0.07	<0.1	6.7	0.10	0.04	718	0.4	0.04	2.1	2.69	<0.1	0.07
118548	Soil	7.0	18.7	0.14	59.5	<0.001	1	0.37	0.003	0.08	<0.1	5.8	0.29	0.02	313	0.5	0.10	2.1	5.95	<0.1	0.03
118549	Soil	10.8	27.9	0.66	69.5	0.002	3	0.85	0.004	0.06	<0.1	6.4	0.08	0.05	144	0.7	0.03	2.6	2.53	<0.1	0.07
118550	Soil	7.0	10.7	0.12	28.0	<0.001	2	0.49	0.005	0.08	<0.1	5.1	0.08	<0.02	218	0.6	0.14	1.7	7.35	<0.1	0.04
118212	Soil	5.8	23.1	0.32	74.3	0.002	1	0.92	0.001	0.05	<0.1	4.0	0.10	<0.02	98	0.4	0.07	3.3	2.40	<0.1	0.04
118213	Soil	7.4	19.8	0.31	75.0	0.003	2	1.00	0.004	0.07	<0.1	5.3	0.12	0.03	172	0.6	0.06	3.0	1.54	<0.1	0.07
118214	Soil	8.1	22.9	0.37	134.1	0.003	2	1.47	0.005	0.07	<0.1	3.8	0.10	0.04	87	0.4	0.04	4.3	1.89	<0.1	0.05
118215	Soil	7.2	23.3	0.82	55.6	0.002	2	0.79	0.003	0.07	<0.1	6.4	0.09	0.06	110	0.4	0.06	2.5	3.58	<0.1	0.04
118216	Soil	10.3	21.2	1.25	76.9	0.002	1	0.34	0.006	0.04	<0.1	4.3	0.22	0.04	414	1.2	0.05	1.1	0.55	<0.1	0.05
118217	Soil	6.2	13.9	0.12	97.3	0.003	3	0.63	0.006	0.05	<0.1	2.2	0.17	0.10	268	0.8	0.06	1.9	0.73	<0.1	0.06
118218	Soil	10.3	16.1	0.27	133.4	0.004	4	0.90	0.004	0.07	<0.1	2.5	0.11	0.08	261	0.8	0.06	2.5	0.91	<0.1	0.04
118219	Soil	4.3	7.7	0.13	74.2	0.002	5	0.42	0.006	0.04	<0.1	1.4	0.07	0.10	108	0.5	0.05	1.0	0.53	<0.1	0.03
118057	Soil	4.4	19.0	0.29	106.9	0.002	2	1.03	0.003	0.09	<0.1	4.5	0.19	0.05	231	0.4	0.04	3.2	1.85	<0.1	0.05
118058	Soil	7.6	14.6	0.25	97.3	0.002	4	0.86	0.005	0.06	<0.1	4.1	0.21	0.06	298	0.7	0.06	2.4	1.85	<0.1	0.04
118059	Soil	9.9	18.5	0.29	85.3	0.002	3	1.00	0.003	0.07	<0.1	5.9	0.22	0.03	328	0.5	0.04	2.9	1.89	<0.1	0.05
118060	Soil	4.7	11.5	0.19	69.9	0.001	4	0.58	0.003	0.07	<0.1	5.6	0.26	0.03	287	0.3	0.08	1.6	2.10	<0.1	0.05
118061	Soil	4.4	13.8	0.20	70.6	0.001	3	0.77	0.003	0.06	<0.1	5.2	0.27	0.03	268	0.4	0.06	2.3	2.03	<0.1	0.05
118766	Soil	6.3	12.1	0.09	35.3	0.001	2	0.86	0.002	0.07	<0.1	4.4	0.11	<0.02	111	0.3	0.11	2.4	7.70	<0.1	0.03
118767	Soil	8.6	21.5	0.34	82.5	0.003	4	1.08	0.004	0.08	<0.1	4.9	0.10	0.04	224	0.6	0.05	3.0	2.67	<0.1	0.08
118768	Soil	8.2	21.0	0.21	68.0	0.002	2	0.69	0.002	0.05	<0.1	3.4	0.08	<0.02	78	0.6	0.04	2.2	1.41	<0.1	0.02
118769	Soil	8.5	21.6	0.45	68.5	0.003	2	1.09	0.002	0.07	<0.1	5.2	0.07	<0.02	155	0.3	0.06	3.2	1.73	<0.1	0.09
118770	Soil	7.9	23.7	0.48	96.4	0.004	4	1.45	0.008	0.08	<0.1	4.5	0.10	0.03	72	0.4	0.04	4.1	1.53	<0.1	0.10
118771	Soil	7.6	22.1	0.31	125.6	0.003	4	1.05	0.007	0.06	<0.1	2.3	0.26	0.10	1825	1.5	0.03	2.9	1.05	<0.1	0.04
118772	Soil	9.4	16.9	0.12	103.4	0.004	2	1.35	0.006	0.04	<0.1	2.3	0.13	0.04	211	0.5	0.03	4.4	0.80	<0.1	0.03
118773	Soil	10.6	18.5	0.17	242.6	0.004	2	1.40	0.006	0.04	<0.1	2.4	0.11	0.06	102	0.5	0.06	4.0	1.41	<0.1	<0.02
118774	Soil	14.3	22.1	0.20	132.0	0.002	3	0.72	0.003	0.04	<0.1	4.3	0.08	0.02	172	1.0	0.04	2.2	0.46	<0.1	0.02
118775	Soil	14.5	23.2	0.26	151.0	0.002	<1	1.32	0.004	0.04	<0.1	2.2	0.13	0.02	49	0.5	0.04	5.1	0.97	<0.1	0.03
118776	Soil	11.3	16.4	0.19	76.1	0.003	2	0.96	0.003	0.05	<0.1	1.6	0.10	<0.02	84	0.4	0.04	3.9	0.94	<0.1	0.03



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Project: Scarlet
 Report Date: September 30, 2011

Page: 11 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
118545	Soil	0.14	7.4	7.2	<0.05	1.7	9.40	13.0	0.04	<1	1.0	4.7	<10	<2
118546	Soil	0.11	4.1	4.7	<0.05	1.1	9.87	21.9	<0.02	<1	0.5	2.9	<10	<2
118547	Soil	0.10	5.7	2.5	<0.05	2.5	9.77	13.6	0.04	<1	1.2	14.5	<10	<2
118548	Soil	0.03	7.9	3.7	<0.05	1.4	5.80	15.6	0.04	<1	1.1	3.8	12	<2
118549	Soil	0.10	6.0	2.6	<0.05	2.7	9.57	22.8	0.04	<1	1.3	24.7	<10	<2
118550	Soil	0.03	8.2	0.7	<0.05	3.2	4.71	12.7	0.06	<1	0.8	9.4	<10	2
118212	Soil	0.18	8.2	1.6	<0.05	1.4	3.67	13.4	0.03	<1	0.7	20.4	<10	<2
118213	Soil	0.27	9.1	1.3	<0.05	2.7	8.43	17.2	0.03	<1	0.8	20.0	<10	<2
118214	Soil	0.37	10.4	1.9	<0.05	1.8	7.91	19.6	0.04	<1	1.2	28.6	<10	<2
118215	Soil	0.11	6.5	6.0	<0.05	1.7	7.23	15.5	0.04	<1	1.1	24.1	14	<2
118216	Soil	0.13	3.7	4.3	<0.05	1.6	12.43	22.1	0.03	<1	1.0	3.9	<10	<2
118217	Soil	0.28	6.0	1.7	<0.05	2.1	7.70	11.9	0.03	<1	0.6	5.8	<10	<2
118218	Soil	0.33	5.8	1.4	<0.05	1.3	11.92	24.2	0.03	<1	1.0	12.9	<10	<2
118219	Soil	0.16	4.2	3.5	<0.05	1.0	7.70	11.2	<0.02	<1	0.6	3.1	<10	<2
118057	Soil	0.25	8.0	1.8	<0.05	1.5	6.07	11.0	0.03	<1	0.9	22.7	<10	<2
118058	Soil	0.23	7.2	1.4	<0.05	1.7	12.40	16.7	0.03	<1	1.0	19.7	<10	<2
118059	Soil	0.25	7.5	1.1	<0.05	1.9	12.76	21.4	0.04	<1	1.0	24.9	<10	2
118060	Soil	0.11	7.0	2.3	<0.05	1.9	8.01	11.2	0.03	<1	1.1	12.7	<10	<2
118061	Soil	0.13	7.3	1.6	<0.05	1.8	7.31	11.3	0.04	<1	0.8	16.3	<10	<2
118766	Soil	0.07	11.0	1.6	<0.05	0.7	4.39	14.1	0.05	<1	1.6	9.8	10	<2
118767	Soil	0.27	8.6	1.4	<0.05	2.6	9.74	18.2	0.03	<1	0.7	22.9	<10	<2
118768	Soil	0.08	6.1	1.7	<0.05	1.0	4.03	18.1	0.04	<1	0.7	13.0	<10	2
118769	Soil	0.18	6.2	3.1	<0.05	2.8	8.88	17.4	0.05	<1	1.1	29.6	<10	<2
118770	Soil	0.34	6.9	4.0	<0.05	3.6	9.09	17.5	0.04	<1	0.8	36.5	<10	<2
118771	Soil	0.28	6.1	1.1	<0.05	1.7	10.02	15.9	0.03	<1	0.8	17.9	10	<2
118772	Soil	0.80	6.2	4.1	<0.05	1.5	5.30	22.0	0.03	<1	0.5	13.3	<10	<2
118773	Soil	0.55	8.6	1.3	<0.05	0.9	6.41	16.7	0.03	<1	0.9	16.3	<10	<2
118774	Soil	0.19	5.4	2.2	<0.05	1.3	5.50	40.3	0.03	<1	0.9	13.2	<10	<2
118775	Soil	0.47	7.3	3.0	<0.05	1.6	3.27	28.9	0.03	<1	0.6	24.0	<10	<2
118776	Soil	0.31	10.3	1.4	<0.05	1.7	2.56	23.3	<0.02	2	0.3	19.2	<10	<2



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 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
118777	Soil	1.15	34.16	18.84	105.0	209	24.8	10.0	371	2.53	32.1	3.4	4.3	1.3	134.7	0.38	2.31	0.27	17	2.24	0.072
118778	Soil	0.62	37.15	13.81	44.5	181	21.7	8.4	405	1.90	16.0	9.6	3.9	0.6	182.6	0.22	0.95	0.26	15	3.64	0.087
118779	Soil	0.71	27.85	17.56	73.3	208	20.2	10.6	411	2.33	21.3	5.0	3.9	1.1	159.1	0.22	1.08	0.26	20	1.74	0.064
118780	Soil	0.72	31.28	16.73	88.1	229	23.0	9.5	370	2.39	32.6	2.4	3.5	1.3	182.9	0.24	1.07	0.26	18	1.75	0.068
118781	Soil	0.91	29.46	32.16	86.2	42	21.2	13.5	831	4.04	10.6	0.6	1.9	1.7	10.2	0.16	0.54	0.37	32	0.03	0.044
118782	Soil	1.04	25.86	20.72	76.9	92	19.8	9.4	469	3.70	13.1	0.7	0.8	0.3	10.7	0.13	0.66	0.31	30	0.06	0.074
118783	Soil	3.48	79.52	100.7	206.8	1061	154.0	74.3	1129	12.82	101.0	1.3	3.5	3.4	11.6	0.09	1.29	0.44	13	0.17	0.032
118784	Soil	0.96	24.55	24.12	61.6	49	18.7	7.5	172	2.49	36.5	0.5	0.8	0.6	11.4	0.17	0.81	0.36	29	0.03	0.037
118785	Soil	0.92	19.52	25.58	96.2	84	19.0	10.1	491	3.09	19.1	0.6	0.7	0.3	12.8	0.65	0.82	0.32	32	0.09	0.056
118786	Soil	0.76	17.94	24.01	70.0	85	17.7	9.4	401	2.62	23.9	0.5	0.6	0.3	10.4	0.30	0.92	0.30	24	0.07	0.050
118787	Soil	0.62	20.45	16.00	51.2	74	15.5	8.0	152	2.44	9.4	0.4	0.4	1.9	11.2	0.11	0.61	0.28	25	0.03	0.029
118788	Soil	0.74	16.32	15.22	55.8	230	13.7	6.8	216	2.21	10.0	0.4	0.4	0.2	7.7	0.17	0.63	0.26	32	0.03	0.055
121563	Soil	0.67	25.40	21.76	65.6	56	19.2	8.6	132	2.59	44.0	0.5	1.1	0.7	13.8	0.10	1.16	0.36	21	0.02	0.035
121564	Soil	0.56	25.61	14.30	75.6	81	20.9	8.9	143	3.28	20.4	0.4	1.1	0.9	11.7	0.07	0.76	0.35	19	0.02	0.037
121565	Soil	0.72	23.63	30.34	92.9	138	24.1	12.4	458	5.33	13.0	0.5	<0.2	1.2	11.0	0.20	0.59	0.45	28	0.03	0.081
121566	Soil	0.88	21.46	25.03	108.7	141	12.1	12.2	792	3.69	7.6	0.4	0.8	0.6	11.3	0.37	0.54	0.53	40	0.04	0.052
121567	Soil	0.59	33.79	20.87	97.3	23	18.6	6.2	126	3.01	178.5	0.3	11.4	2.0	40.1	0.04	1.04	0.54	14	0.19	0.040
121568	Soil	0.38	51.86	26.12	82.6	37	25.8	10.7	170	3.54	24.2	0.5	<0.2	3.4	34.3	0.06	0.44	0.63	19	0.03	0.017
121569	Soil	1.23	20.49	26.67	82.7	57	18.6	7.7	237	3.40	34.8	0.6	1.2	4.1	9.3	0.09	0.72	0.41	50	0.03	0.028
121570	Soil	0.27	18.53	40.32	137.2	95	38.4	16.2	2306	7.50	10.6	2.0	0.8	5.9	37.8	0.51	0.32	0.47	22	0.25	0.113



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 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
118777	Soil	10.0	16.3	0.41	150.8	0.002	5	0.87	0.007	0.08	<0.1	3.4	0.12	0.08	418	1.4	0.06	2.3	0.88	<0.1	0.05
118778	Soil	10.7	14.7	0.27	166.2	0.003	6	0.84	0.008	0.04	<0.1	2.1	0.08	0.12	333	1.8	0.02	2.1	0.73	<0.1	0.05
118779	Soil	10.6	18.7	0.47	175.6	0.003	5	0.95	0.007	0.06	<0.1	3.5	0.11	0.08	295	1.3	0.04	2.6	1.04	<0.1	0.06
118780	Soil	9.7	17.9	0.58	162.0	0.003	12	0.95	0.007	0.07	<0.1	3.9	0.12	0.09	375	1.4	0.05	2.5	2.31	<0.1	0.04
118781	Soil	7.1	24.0	0.25	58.0	0.011	2	1.38	0.004	0.07	<0.1	2.6	0.08	0.02	20	0.5	0.06	5.2	5.41	<0.1	<0.02
118782	Soil	7.5	25.3	0.27	56.0	0.009	2	1.39	0.005	0.06	<0.1	1.1	0.09	0.07	39	0.6	0.04	4.5	2.02	<0.1	<0.02
118783	Soil	4.3	11.1	0.08	81.8	<0.001	1	0.38	0.002	0.07	<0.1	34.8	0.24	0.02	356	1.6	0.12	1.0	4.69	<0.1	<0.02
118784	Soil	8.1	10.5	0.04	59.0	0.008	2	0.48	0.003	0.06	<0.1	1.5	0.07	0.02	10	0.4	0.02	3.2	2.47	<0.1	<0.02
118785	Soil	9.0	17.5	0.17	93.4	0.010	2	0.87	0.005	0.08	<0.1	0.9	0.08	0.03	21	0.3	0.03	3.8	2.60	<0.1	<0.02
118786	Soil	6.9	14.3	0.13	62.4	0.007	2	0.71	0.004	0.07	<0.1	0.9	0.07	0.03	25	0.1	<0.02	3.1	1.82	<0.1	<0.02
118787	Soil	6.9	11.8	0.08	94.9	0.004	2	0.65	0.003	0.07	<0.1	1.7	0.08	<0.02	23	0.1	0.03	3.3	2.18	<0.1	<0.02
118788	Soil	7.9	11.6	0.08	97.1	0.004	<1	0.85	0.005	0.05	<0.1	0.8	0.08	0.03	29	<0.1	0.03	3.9	1.32	<0.1	<0.02
121563	Soil	7.9	11.3	0.05	41.6	0.005	3	0.56	0.002	0.07	<0.1	1.3	0.08	<0.02	29	<0.1	0.05	2.7	3.48	<0.1	<0.02
121564	Soil	6.5	9.9	0.05	67.2	0.005	1	0.40	0.003	0.06	<0.1	1.8	0.05	<0.02	11	0.2	0.03	2.9	1.67	<0.1	<0.02
121565	Soil	7.2	29.8	0.30	105.8	0.005	3	1.59	0.004	0.08	<0.1	1.9	0.09	0.05	19	0.2	0.07	6.0	3.38	<0.1	<0.02
121566	Soil	7.7	21.2	0.11	90.5	0.011	3	1.03	0.003	0.10	<0.1	1.2	0.08	0.03	23	0.2	0.04	6.7	2.72	<0.1	<0.02
121567	Soil	9.1	8.3	0.07	82.1	0.001	1	0.49	0.003	0.07	<0.1	2.3	0.09	<0.02	15	0.1	0.07	2.1	1.99	<0.1	<0.02
121568	Soil	9.1	16.0	0.19	65.0	0.001	1	0.94	0.003	0.07	<0.1	3.4	0.10	<0.02	123	0.2	0.02	3.4	3.33	<0.1	<0.02
121569	Soil	10.4	23.0	0.17	73.2	0.008	3	1.60	0.004	0.07	0.1	2.4	0.19	<0.02	45	0.4	0.05	6.5	3.74	<0.1	0.03
121570	Soil	22.1	30.0	0.49	151.6	0.002	2	3.56	0.004	0.06	<0.1	7.1	0.10	0.08	45	0.8	0.09	5.0	3.15	<0.1	0.06



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Project: Scarlet
 Report Date: September 30, 2011

Page: 12 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11000951.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10
118777	Soil	0.27	8.0	2.6	<0.05	1.9	10.25	19.9	0.02	<1	0.8	15.7	<10
118778	Soil	0.31	4.9	1.5	<0.05	2.4	11.53	21.6	0.03	<1	1.0	11.0	<10
118779	Soil	0.36	7.8	2.0	<0.05	1.7	9.81	22.2	0.05	<1	0.8	19.8	<10
118780	Soil	0.33	15.8	0.6	<0.05	1.6	10.01	19.5	0.03	<1	1.1	21.8	<10
118781	Soil	0.59	11.5	2.1	<0.05	0.5	3.21	14.5	0.03	<1	1.0	27.9	<10
118782	Soil	0.37	9.1	3.2	<0.05	<0.1	4.07	15.6	0.03	<1	0.8	19.0	<10
118783	Soil	0.04	8.7	4.5	<0.05	1.6	30.55	9.1	0.06	<1	3.2	2.6	12
118784	Soil	0.38	10.1	6.2	<0.05	0.1	2.26	16.1	<0.02	<1	0.2	1.4	<10
118785	Soil	0.29	12.9	3.7	<0.05	<0.1	2.96	19.5	<0.02	<1	0.6	10.0	<10
118786	Soil	0.28	10.5	3.1	<0.05	<0.1	2.22	15.3	<0.02	<1	0.5	8.0	<10
118787	Soil	0.34	13.0	2.6	<0.05	0.3	2.00	13.6	<0.02	<1	0.4	6.3	<10
118788	Soil	0.26	7.6	2.2	<0.05	<0.1	3.30	16.5	<0.02	<1	0.4	4.7	<10
121563	Soil	0.26	11.6	1.9	<0.05	<0.1	2.29	15.7	<0.02	<1	0.2	2.9	<10
121564	Soil	0.13	14.0	1.3	<0.05	<0.1	2.66	12.9	0.02	<1	0.3	1.9	<10
121565	Soil	0.45	12.2	1.8	<0.05	0.2	3.39	16.2	0.03	<1	0.9	36.3	<10
121566	Soil	0.56	22.6	1.8	<0.05	<0.1	1.90	15.2	<0.02	<1	0.3	8.4	<10
121567	Soil	0.07	14.3	1.4	<0.05	<0.1	2.42	17.7	0.04	<1	0.7	2.8	<10
121568	Soil	0.07	10.4	1.3	<0.05	0.4	4.29	19.1	0.04	<1	1.5	22.0	<10
121569	Soil	0.77	16.1	4.9	<0.05	1.3	2.58	21.1	0.03	<1	0.6	21.7	<10
121570	Soil	0.20	12.1	0.9	<0.05	2.2	42.52	107.9	0.06	<1	2.4	79.4	<10



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Project: Scarlet
 Report Date: September 30, 2011

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000951.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
612718	Soil	1.01	21.34	32.86	65.7	50	22.0	8.1	256	2.99	13.4	0.4	1.3	0.7	12.3	0.05	0.39	0.31	26	0.03	0.042
REP 612718	QC	1.01	22.94	32.27	67.2	56	23.1	8.7	262	3.12	14.1	0.5	1.8	1.1	14.5	0.05	0.48	0.32	27	0.04	0.047
612722	Soil	0.58	35.32	29.57	79.5	104	31.6	11.9	249	3.00	15.9	1.0	2.5	3.7	62.3	0.10	0.62	0.30	19	0.89	0.050
REP 612722	QC	0.62	36.41	32.36	84.9	108	33.6	12.8	258	3.08	16.2	1.0	3.1	3.7	61.9	0.11	0.61	0.30	19	0.92	0.051
118047	Soil	0.57	54.62	41.95	151.7	128	71.8	22.7	956	5.95	34.3	1.0	9.5	3.2	31.0	0.10	2.37	0.39	13	0.11	0.044
REP 118047	QC	0.59	55.91	41.45	158.9	123	73.6	23.9	960	6.07	35.1	1.0	9.3	3.4	32.1	0.10	2.51	0.38	13	0.11	0.045
118886	Soil	0.59	37.14	18.88	112.2	130	27.7	12.0	504	2.81	25.5	1.9	4.7	1.0	86.3	0.12	1.19	0.34	14	1.33	0.056
REP 118886	QC	0.62	36.39	18.86	107.4	112	27.1	13.5	524	3.04	26.5	1.9	1.2	1.0	87.6	0.12	1.01	0.30	14	1.26	0.053
121674	Soil	0.98	33.48	51.44	81.1	141	32.2	17.2	922	3.32	5.9	1.1	1.3	2.2	77.8	0.36	0.33	0.46	22	1.36	0.081
REP 121674	QC	1.00	35.67	45.51	81.3	126	32.6	19.6	901	3.37	5.6	1.1	<0.2	2.4	82.3	0.26	0.45	0.46	19	1.39	0.077
118616	Soil	0.73	25.94	27.89	80.5	39	24.6	14.9	992	3.73	17.4	1.0	1.0	1.9	17.4	0.16	0.43	0.35	33	0.18	0.088
REP 118616	QC	0.76	26.12	27.91	81.4	43	25.5	13.7	962	3.75	17.1	1.0	1.9	2.0	17.5	0.14	0.43	0.34	33	0.18	0.089
118631	Soil	0.72	40.58	34.46	97.7	82	37.3	15.8	476	3.22	62.6	1.0	5.5	2.2	72.2	0.10	0.95	0.38	17	0.39	0.041
REP 118631	QC	0.73	41.81	36.12	101.9	81	39.8	15.4	460	3.29	66.7	1.1	7.4	2.5	73.8	0.08	1.06	0.39	18	0.43	0.045
121558	Soil	0.69	26.12	37.55	225.9	108	28.4	12.7	609	2.93	23.3	0.7	1.6	3.2	21.0	0.44	2.22	0.40	17	2.29	0.104
REP 121558	QC	0.64	24.73	33.97	211.7	93	26.4	11.5	558	2.66	21.0	0.7	3.1	3.0	18.9	0.43	2.02	0.35	16	2.14	0.098
612739	Soil	0.84	32.16	27.13	88.7	117	32.3	17.0	4352	3.99	12.1	2.1	1.1	2.8	81.6	0.57	0.54	0.34	31	0.98	0.094
REP 612739	QC	0.78	30.28	25.73	83.7	111	30.9	16.0	4081	3.79	10.8	1.9	1.1	2.6	76.2	0.54	0.53	0.32	29	0.93	0.091
612745	Soil	0.61	62.34	42.77	142.3	101	58.8	32.5	1265	4.43	69.6	0.5	30.5	3.6	37.5	0.13	4.44	0.51	7	0.18	0.039
REP 612745	QC	0.54	59.39	40.91	130.5	97	56.3	31.5	1199	4.22	65.5	0.5	31.3	3.5	36.0	0.09	4.44	0.49	6	0.17	0.038
118891	Soil	0.97	23.25	42.40	271.4	238	26.3	10.0	1428	3.48	73.8	3.9	35.7	1.2	31.5	0.47	2.37	0.29	30	1.05	0.173
REP 118891	QC	0.91	22.46	41.17	260.6	227	24.3	9.7	1366	3.33	69.7	3.7	36.4	1.2	29.7	0.50	2.16	0.27	28	1.00	0.166
612050	Soil	0.96	42.09	30.31	144.5	108	33.3	16.2	317	4.16	23.6	0.4	<0.2	0.7	11.9	0.12	1.00	0.42	19	0.08	0.054
REP 612050	QC	0.94	43.94	30.50	143.0	109	35.3	16.3	344	4.32	23.9	0.4	<0.2	0.8	11.9	0.13	1.03	0.44	20	0.09	0.057
612997	Soil	0.60	29.90	30.99	153.9	134	25.6	13.4	517	2.77	40.0	0.9	3.8	1.3	42.6	0.41	1.80	0.32	14	1.68	0.118
REP 612997	QC	0.56	29.62	30.87	151.8	130	25.5	13.3	512	2.82	39.9	0.9	5.5	1.4	41.4	0.42	1.69	0.31	14	1.70	0.118
612183	Soil	0.73	27.79	24.79	109.8	214	19.2	8.7	761	2.74	53.8	4.2	5.1	1.6	111.9	0.71	5.67	0.21	21	2.05	0.097
REP 612183	QC	0.64	26.96	25.08	104.8	210	20.7	8.8	762	2.70	49.2	3.8	4.7	1.7	102.8	0.70	5.26	0.21	21	2.03	0.094

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: September 30, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000951.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
612718	Soil	6.4	22.7	0.19	51.1	0.003	2	0.98	0.002	0.07	<0.1	1.4	0.10	<0.02	60	0.2	0.04	4.0	1.91	<0.1	<0.02
REP 612718	QC	7.2	24.9	0.21	54.9	0.005	1	1.01	0.002	0.08	<0.1	1.8	0.13	<0.02	72	0.3	0.03	4.5	2.67	<0.1	<0.02
612722	Soil	11.4	24.0	0.49	79.5	0.004	3	1.09	0.005	0.07	<0.1	5.5	0.07	0.03	449	0.6	0.04	3.2	1.61	<0.1	0.10
REP 612722	QC	11.3	24.5	0.49	82.3	0.003	3	1.10	0.004	0.07	<0.1	5.8	0.07	0.04	540	0.5	0.03	3.3	1.57	<0.1	0.10
118047	Soil	11.1	20.1	0.14	59.4	0.002	2	0.53	0.003	0.07	<0.1	18.5	0.21	<0.02	747	0.6	<0.02	1.5	17.67	<0.1	<0.02
REP 118047	QC	11.2	19.9	0.15	58.9	0.002	2	0.54	0.003	0.08	<0.1	19.0	0.23	<0.02	751	0.6	<0.02	1.5	19.76	<0.1	0.02
118886	Soil	4.5	16.7	0.41	123.1	0.002	<1	0.83	0.005	0.05	<0.1	2.7	0.06	0.06	187	0.7	<0.02	2.5	0.76	0.2	0.05
REP 118886	QC	4.5	16.4	0.41	118.9	0.002	2	0.84	0.005	0.04	<0.1	2.8	0.06	0.05	159	0.9	<0.02	2.9	0.61	<0.1	0.06
121674	Soil	8.8	37.1	0.75	119.7	0.005	<1	1.59	0.007	0.07	<0.1	4.3	0.11	0.07	104	1.0	<0.02	5.5	6.37	<0.1	<0.02
REP 121674	QC	8.8	34.9	0.73	126.8	0.005	<1	1.58	0.007	0.07	<0.1	4.8	0.11	0.08	109	1.0	<0.02	4.4	6.32	<0.1	0.03
118616	Soil	11.1	23.6	0.41	137.5	0.004	3	1.92	<0.001	0.06	0.1	3.3	0.12	0.05	90	0.4	0.10	5.2	1.92	<0.1	0.03
REP 118616	QC	11.0	23.6	0.40	144.1	0.004	3	1.92	<0.001	0.06	<0.1	3.5	0.12	0.05	93	0.4	0.12	5.3	2.02	<0.1	0.04
118631	Soil	6.8	23.4	0.18	51.7	<0.001	3	0.44	0.002	0.08	<0.1	5.5	0.41	0.06	504	1.2	0.07	1.9	4.95	<0.1	0.07
REP 118631	QC	7.3	24.4	0.20	55.3	0.001	6	0.47	0.002	0.10	<0.1	5.6	0.45	0.06	532	0.9	0.05	1.9	6.92	<0.1	0.08
121558	Soil	16.9	12.3	1.17	90.0	0.004	3	0.74	0.005	0.07	0.1	4.7	0.08	0.05	126	0.2	0.07	1.9	1.03	<0.1	0.06
REP 121558	QC	15.1	11.3	1.08	77.7	0.004	3	0.67	0.004	0.07	0.1	4.3	0.08	0.05	113	<0.1	0.05	1.7	0.93	<0.1	0.05
612739	Soil	33.0	26.9	0.46	309.6	0.008	4	1.84	0.003	0.06	<0.1	7.6	0.09	0.07	93	0.5	0.06	4.9	1.52	<0.1	0.05
REP 612739	QC	30.5	25.8	0.44	295.8	0.008	1	1.73	0.003	0.05	0.1	7.4	0.08	0.07	91	0.5	0.04	4.5	1.43	<0.1	0.03
612745	Soil	7.2	9.2	0.31	82.6	<0.001	3	0.43	0.003	0.07	<0.1	7.0	0.10	0.03	50	0.4	0.10	1.3	9.90	<0.1	0.06
REP 612745	QC	7.2	9.1	0.30	79.6	<0.001	3	0.42	0.003	0.07	<0.1	6.8	0.10	0.03	46	0.4	0.09	1.1	9.90	<0.1	0.06
118891	Soil	12.9	21.8	0.30	122.0	0.008	3	1.31	0.007	0.06	<0.1	2.3	0.11	0.11	683	1.0	0.07	3.6	1.28	<0.1	0.13
REP 118891	QC	12.3	21.1	0.29	113.7	0.008	3	1.25	0.007	0.06	0.2	2.1	0.11	0.10	711	1.1	0.05	3.4	1.20	<0.1	0.08
612050	Soil	3.4	11.5	0.04	46.0	0.002	2	0.36	0.002	0.09	<0.1	2.8	0.09	<0.02	60	0.3	0.05	2.0	6.78	<0.1	<0.02
REP 612050	QC	3.5	12.3	0.04	46.2	0.002	2	0.38	0.002	0.09	<0.1	2.9	0.09	<0.02	57	0.4	0.06	2.1	6.86	<0.1	<0.02
612997	Soil	9.9	10.9	0.46	110.0	0.005	5	0.61	0.004	0.09	<0.1	3.1	0.11	0.05	334	0.7	0.06	1.6	2.89	<0.1	0.03
REP 612997	QC	9.5	11.3	0.46	105.3	0.004	5	0.60	0.004	0.09	<0.1	3.1	0.10	0.05	310	0.7	0.03	1.6	2.63	<0.1	0.04
612183	Soil	18.2	13.7	0.09	91.2	0.003	2	0.64	0.003	0.06	<0.1	4.5	0.09	0.05	1317	0.7	0.13	1.6	0.84	<0.1	0.03
REP 612183	QC	17.3	13.2	0.08	88.5	0.002	1	0.62	0.003	0.05	<0.1	4.4	0.09	0.05	1328	0.4	0.04	1.4	0.72	<0.1	0.05

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 1 of 3 Part 3

QUALITY CONTROL REPORT

WHI11000951.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
612718	Soil	0.22	12.3	27.8	<0.05	<0.1	2.74	15.7	0.04	<1	0.4	14.9	<10	<2
REP 612718	QC	0.26	15.3	24.3	<0.05	<0.1	3.01	17.3	0.04	<1	0.3	15.5	<10	<2
612722	Soil	0.24	7.0	17.7	<0.05	3.6	13.45	22.4	0.02	<1	1.0	29.4	<10	<2
REP 612722	QC	0.25	6.6	20.9	<0.05	3.6	13.57	22.6	<0.02	<1	0.8	29.9	<10	<2
118047	Soil	0.08	8.6	4.7	<0.05	0.6	22.79	18.9	0.06	<1	1.3	6.8	<10	<2
REP 118047	QC	0.09	9.9	4.4	<0.05	0.6	23.12	19.3	0.04	2	1.8	7.7	<10	<2
118886	Soil	0.22	5.0	3.2	<0.05	2.3	6.04	10.2	0.03	<1	0.9	18.2	<10	<2
REP 118886	QC	0.16	4.8	2.7	<0.05	2.3	6.40	9.9	0.06	<1	0.9	19.5	<10	<2
121674	Soil	0.36	12.2	17.8	<0.05	2.0	13.23	21.2	<0.02	5	2.1	42.4	<10	<2
REP 121674	QC	0.40	10.6	15.2	<0.05	2.3	13.68	21.4	<0.02	<1	1.9	40.2	13	<2
118616	Soil	0.42	12.6	1.4	<0.05	1.0	10.84	50.8	0.04	<1	1.5	35.5	<10	<2
REP 118616	QC	0.43	12.4	1.6	<0.05	1.1	10.81	52.6	0.04	<1	1.0	35.4	<10	<2
118631	Soil	0.09	7.7	6.2	<0.05	2.3	7.98	15.7	0.05	<1	0.9	6.3	<10	<2
REP 118631	QC	0.09	10.3	5.9	<0.05	3.3	8.62	16.4	0.05	<1	1.2	6.5	<10	<2
121558	Soil	0.20	5.9	4.9	<0.05	1.8	14.41	28.4	<0.02	<1	1.5	7.2	<10	<2
REP 121558	QC	0.19	5.7	4.6	<0.05	1.6	13.17	24.7	<0.02	<1	1.2	7.2	14	<2
612739	Soil	0.33	10.2	1.6	<0.05	1.6	38.39	69.3	0.05	<1	2.1	27.6	<10	<2
REP 612739	QC	0.29	9.7	1.5	<0.05	1.5	35.61	65.4	0.05	<1	1.8	28.0	<10	<2
612745	Soil	0.04	7.2	2.2	<0.05	2.3	7.45	16.7	0.06	<1	1.9	9.5	<10	<2
REP 612745	QC	0.05	7.5	1.5	<0.05	2.0	7.19	16.7	0.04	<1	1.3	9.2	<10	<2
118891	Soil	0.42	8.1	0.5	<0.05	3.1	16.36	26.7	0.04	<1	1.1	8.1	<10	<2
REP 118891	QC	0.36	7.5	0.4	<0.05	3.1	15.35	25.7	0.04	<1	1.7	7.7	<10	3
612050	Soil	0.08	11.3	4.8	<0.05	0.1	3.74	7.2	0.03	<1	0.5	1.8	<10	<2
REP 612050	QC	0.08	11.4	5.3	<0.05	0.1	3.79	7.6	0.03	<1	0.6	1.9	<10	<2
612997	Soil	0.22	7.5	0.8	<0.05	1.1	11.92	19.5	<0.02	<1	1.0	5.1	11	<2
REP 612997	QC	0.18	6.9	0.7	<0.05	1.2	11.58	19.0	0.03	<1	1.2	4.9	<10	<2
612183	Soil	0.25	7.8	1.7	<0.05	1.3	21.63	46.8	0.03	<1	1.4	7.7	<10	<2
REP 612183	QC	0.23	6.9	1.5	<0.05	1.3	20.61	44.2	0.03	<1	1.0	6.7	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11000951.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
118540	Soil	1.69	39.64	24.04	84.5	534	24.0	11.2	391	2.21	29.7	6.1	10.2	3.4	299.0	0.54	3.67	0.25	16	6.77	0.114
REP 118540	QC	1.60	37.80	22.70	84.7	505	22.5	10.5	377	2.18	29.1	5.8	10.0	3.2	287.9	0.52	3.48	0.23	16	6.67	0.113
118767	Soil	0.59	35.25	19.19	91.6	140	31.6	12.4	417	3.12	34.5	1.8	4.4	2.7	63.1	0.13	0.82	0.31	18	0.89	0.058
REP 118767	QC	0.56	33.81	19.32	84.8	137	29.1	12.4	411	2.99	33.7	1.8	4.9	2.6	59.2	0.11	0.82	0.31	17	0.85	0.057
118771	Soil	0.81	33.44	19.93	95.5	338	23.7	10.5	426	2.49	1322	11.0	12.7	0.7	132.6	0.25	1.89	0.34	20	1.88	0.087
REP 118771	QC	0.82	33.69	19.55	94.8	331	23.1	10.4	422	2.41	1263	10.8	12.5	0.7	131.8	0.26	1.89	0.31	19	1.80	0.087
121567	Soil	0.59	33.79	20.87	97.3	23	18.6	6.2	126	3.01	178.5	0.3	11.4	2.0	40.1	0.04	1.04	0.54	14	0.19	0.040
REP 121567	QC	0.58	36.09	21.63	100.4	22	18.5	6.8	133	3.20	192.0	0.4	12.3	2.2	44.3	0.08	1.12	0.58	15	0.21	0.042
Reference Materials																					
STD DS8	Standard	13.19	110.7	129.8	304.3	1594	38.1	7.8	614	2.45	25.5	2.7	104.8	6.5	68.0	2.32	5.78	7.10	41	0.68	0.080
STD DS8	Standard	14.01	115.6	129.8	311.4	1798	39.1	7.5	624	2.48	26.1	2.9	119.2	7.5	63.2	2.36	5.78	7.09	40	0.70	0.082
STD DS8	Standard	13.77	107.7	132.0	314.4	1856	38.3	7.3	630	2.51	27.2	2.6	108.5	6.5	68.7	2.44	5.45	6.36	42	0.72	0.086
STD DS8	Standard	12.89	113.9	112.4	292.4	1620	37.6	7.3	565	2.44	23.1	2.6	108.0	6.1	60.4	2.11	5.12	6.09	39	0.67	0.086
STD DS8	Standard	14.15	113.9	133.5	339.8	1851	39.1	7.9	681	2.64	28.0	3.1	116.8	7.8	77.1	2.49	5.23	7.60	43	0.77	0.086
STD DS8	Standard	14.64	120.5	124.8	307.6	1675	41.0	8.5	637	2.53	29.4	2.6	113.3	6.7	63.8	2.46	5.25	6.45	40	0.73	0.084
STD DS8	Standard	13.10	106.6	128.3	316.0	1846	36.1	7.1	620	2.59	26.9	2.6	121.3	6.5	64.8	2.35	5.85	6.83	43	0.74	0.082
STD DS8	Standard	13.78	123.0	117.9	316.5	1659	41.6	8.4	627	2.60	27.3	2.5	105.5	6.3	63.6	2.17	5.40	6.38	43	0.75	0.077
STD DS8	Standard	13.98	114.3	137.7	349.1	1991	41.2	8.2	677	2.74	29.3	2.9	153.8	7.0	70.7	2.55	5.93	7.40	45	0.79	0.087
STD DS8	Standard	13.44	112.6	127.8	314.6	1854	39.2	7.8	614	2.52	25.3	2.8	105.5	7.0	64.3	2.15	5.15	6.67	40	0.72	0.074
STD DS8	Standard	13.80	105.8	127.5	314.5	1781	39.5	7.7	644	2.50	25.1	2.7	110.8	6.5	63.6	2.16	5.38	6.40	40	0.71	0.072
STD DS8	Standard	13.54	108.5	128.7	311.9	1907	40.4	7.6	606	2.55	25.5	2.6	122.0	6.7	61.6	2.21	4.87	6.44	41	0.69	0.078
STD DS8	Standard	10.41	105.9	124.7	313.6	1655	37.1	6.6	572	2.39	24.3	2.6	106.4	5.7	55.2	2.25	5.33	6.94	39	0.66	0.073
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: September 30, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000951.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
118540	Soil	14.6	9.4	1.71	85.6	0.003	3	0.41	0.008	0.08	<0.1	4.0	0.09	0.03	386	1.0	0.06	1.0	0.59	<0.1	0.07
REP 118540	QC	14.1	8.7	1.68	80.1	0.003	4	0.41	0.007	0.07	<0.1	4.0	0.09	0.03	390	0.9	0.04	0.9	0.54	<0.1	0.06
118767	Soil	8.6	21.5	0.34	82.5	0.003	4	1.08	0.004	0.08	<0.1	4.9	0.10	0.04	224	0.6	0.05	3.0	2.67	<0.1	0.08
REP 118767	QC	8.0	20.7	0.34	79.1	0.003	2	1.01	0.004	0.07	<0.1	4.6	0.09	0.04	207	0.5	0.05	3.0	2.51	<0.1	0.08
118771	Soil	7.6	22.1	0.31	125.6	0.003	4	1.05	0.007	0.06	<0.1	2.3	0.26	0.10	1825	1.5	0.03	2.9	1.05	<0.1	0.04
REP 118771	QC	7.7	21.0	0.31	120.5	0.003	4	1.01	0.006	0.06	<0.1	2.2	0.26	0.10	1772	1.5	0.03	2.9	1.13	<0.1	0.05
121567	Soil	9.1	8.3	0.07	82.1	0.001	1	0.49	0.003	0.07	<0.1	2.3	0.09	<0.02	15	0.1	0.07	2.1	1.99	<0.1	<0.02
REP 121567	QC	10.2	9.2	0.07	90.1	0.001	2	0.52	0.003	0.08	<0.1	2.4	0.09	<0.02	20	<0.1	0.10	2.3	2.13	<0.1	<0.02
Reference Materials																					
STD DS8	Standard	13.8	121.6	0.62	272.4	0.114	2	0.89	0.087	0.41	3.0	2.0	5.45	0.17	183	5.2	5.27	4.5	2.45	<0.1	0.07
STD DS8	Standard	16.1	123.1	0.60	293.1	0.114	2	0.93	0.096	0.42	3.2	2.3	5.45	0.15	204	5.0	5.21	4.7	2.58	0.1	0.09
STD DS8	Standard	15.7	120.7	0.61	289.8	0.115	4	0.92	0.088	0.42	3.2	2.1	5.54	0.16	203	5.4	5.13	4.6	2.52	<0.1	0.07
STD DS8	Standard	14.3	117.9	0.60	242.1	0.119	3	0.90	0.083	0.40	2.8	2.1	4.97	0.15	167	4.9	4.83	4.2	2.33	<0.1	0.09
STD DS8	Standard	18.3	128.0	0.65	314.5	0.123	2	0.98	0.092	0.44	3.2	2.3	5.84	0.17	210	5.8	5.20	5.2	2.70	<0.1	0.09
STD DS8	Standard	16.0	126.8	0.63	278.9	0.120	2	0.94	0.090	0.42	3.0	2.2	5.33	0.16	199	5.1	4.79	4.4	2.51	0.1	0.09
STD DS8	Standard	14.4	120.8	0.64	296.0	0.109	3	0.98	0.102	0.44	3.2	2.2	5.85	0.17	217	5.1	5.17	4.5	2.57	0.1	0.07
STD DS8	Standard	15.2	122.5	0.64	264.7	0.133	3	0.94	0.091	0.43	2.9	2.2	5.23	0.18	190	5.2	5.04	4.6	2.44	<0.1	0.08
STD DS8	Standard	16.2	131.5	0.69	300.2	0.121	3	1.02	0.093	0.45	3.2	2.3	6.72	0.18	231	5.8	5.53	5.2	2.78	0.1	0.08
STD DS8	Standard	15.0	123.8	0.61	257.8	0.117	3	0.92	0.088	0.42	2.9	2.3	5.63	0.16	201	5.7	5.15	4.9	2.54	0.1	0.05
STD DS8	Standard	14.8	125.1	0.62	260.5	0.117	3	0.91	0.078	0.41	3.2	2.0	5.65	0.16	200	5.4	5.02	4.9	2.47	<0.1	0.09
STD DS8	Standard	14.2	125.3	0.62	271.1	0.111	3	0.94	0.090	0.43	3.1	2.1	5.79	0.16	205	5.4	4.94	4.7	2.48	0.1	0.09
STD DS8	Standard	11.1	108.6	0.59	219.8	0.090	<1	0.90	0.098	0.43	2.8	1.8	5.41	0.16	173	5.5	5.48	4.2	2.39	<0.1	0.07
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 2 of 3 Part 3

QUALITY CONTROL REPORT

WHI11000951.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
118540	Soil	0.11	4.6	2.4	<0.05	2.4	13.80	33.3	0.03	<1	1.0	4.8	<10	<2
REP 118540	QC	0.10	4.3	1.9	<0.05	2.4	13.05	31.6	0.03	<1	0.8	5.0	<10	<2
118767	Soil	0.27	8.6	1.4	<0.05	2.6	9.74	18.2	0.03	<1	0.7	22.9	<10	<2
REP 118767	QC	0.25	7.6	2.3	<0.05	2.6	9.30	16.7	0.03	<1	0.6	22.6	<10	<2
118771	Soil	0.28	6.1	1.1	<0.05	1.7	10.02	15.9	0.03	<1	0.8	17.9	10	<2
REP 118771	QC	0.28	6.4	0.9	<0.05	1.6	9.90	15.7	0.04	<1	0.9	17.1	<10	<2
121567	Soil	0.07	14.3	1.4	<0.05	<0.1	2.42	17.7	0.04	<1	0.7	2.8	<10	<2
REP 121567	QC	0.07	15.4	1.3	<0.05	0.1	2.58	19.7	0.04	<1	0.6	3.1	<10	<2
Reference Materials														
STD DS8	Standard	1.07	38.2	6.7	<0.05	1.9	5.43	23.7	2.29	55	7.1	28.9	122	350
STD DS8	Standard	1.55	39.6	6.5	<0.05	2.0	6.43	28.9	2.14	50	5.3	27.0	127	341
STD DS8	Standard	1.31	40.2	7.5	<0.05	2.2	6.09	29.2	2.26	44	4.9	29.3	138	350
STD DS8	Standard	1.27	35.6	6.5	<0.05	2.1	5.71	25.6	2.09	54	5.0	25.8	109	335
STD DS8	Standard	1.36	42.7	7.6	<0.05	2.3	6.89	32.6	2.50	56	5.7	29.8	124	370
STD DS8	Standard	1.26	37.9	6.6	<0.05	1.9	6.13	28.6	2.21	47	5.0	27.7	112	328
STD DS8	Standard	1.29	39.1	6.7	<0.05	1.8	5.80	29.7	2.17	45	5.4	29.4	118	357
STD DS8	Standard	1.25	38.7	6.3	<0.05	1.9	6.12	26.4	2.19	52	5.8	24.5	104	348
STD DS8	Standard	1.35	40.9	7.4	<0.05	1.7	6.76	33.1	2.37	64	5.4	29.5	141	382
STD DS8	Standard	1.34	41.0	6.4	<0.05	2.8	6.13	29.4	2.32	45	5.2	25.3	114	342
STD DS8	Standard	1.30	37.0	6.5	<0.05	1.7	5.86	31.0	2.13	55	5.5	26.5	132	341
STD DS8	Standard	1.17	37.7	6.5	<0.05	1.8	5.61	29.3	2.20	52	5.3	26.5	129	371
STD DS8	Standard	0.95	38.3	6.4	<0.05	1.8	4.50	20.8	1.94	41	5.3	26.6	110	332
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: September 30, 2011

Page: 3 of 3 **Part** 1

QUALITY CONTROL REPORT

WHI11000951.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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Phone (604) 253-3158 Fax (604) 253-1716

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830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

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Page: 3 of 3 **Part** 2

QUALITY CONTROL REPORT

WHI11000951.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Tl ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 30, 2011

Page: 3 of 3 Part 3

QUALITY CONTROL REPORT

WHI11000951.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: July 29, 2011
Report Date: August 26, 2011
Page: 1 of 6

CERTIFICATE OF ANALYSIS

WHI11000952.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-16
P.O. Number: NA-10337
Number of Samples: 136

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	136	Dry at 60C			WHI
SS80	136	Dry at 60C sieve 100g to -80 mesh			WHI
RJSV	136	Saving all or part of Soil Reject			WHI
1F05	135	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: David Clark
database backup
Scott Turton
Simon Ridgway



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 26, 2011

Page: 2 of 6 Part 1

CERTIFICATE OF ANALYSIS

WHI11000952.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
121571	Soil			1.21	16.47	24.54	85.4	29	19.2	7.4	335	4.36	12.4	0.7	1.5	0.6	16.3	0.19	0.83	0.38	50	0.16	0.051
121572	Soil			1.34	23.47	23.53	85.2	77	16.6	9.9	894	4.14	10.1	0.6	1.6	0.4	9.9	0.12	0.88	0.48	47	0.03	0.077
121573	Soil			1.30	22.17	22.00	88.7	86	22.2	10.5	580	3.92	14.6	0.8	0.8	0.2	29.0	0.18	0.86	0.43	58	0.24	0.092
121574	Soil			1.47	22.88	20.05	80.9	59	16.1	8.8	791	4.27	11.4	0.8	0.5	0.3	8.3	0.22	0.84	0.49	55	0.03	0.080
121575	Soil			0.79	26.04	24.67	84.4	27	29.2	12.9	517	3.70	14.2	0.8	<0.2	2.7	27.4	0.13	0.66	0.38	35	0.26	0.042
121576	Soil			0.52	25.02	22.70	75.2	51	20.7	9.6	762	3.19	8.3	1.7	0.2	2.9	56.5	0.14	0.25	0.41	26	0.69	0.063
121577	Soil			0.57	23.48	20.86	74.9	123	18.3	9.4	600	2.69	14.9	3.4	0.9	0.8	143.3	0.42	0.85	0.40	19	2.04	0.125
121578	Soil			1.91	21.35	20.48	91.6	320	15.5	6.9	215	2.28	22.7	8.8	4.8	1.3	102.5	0.49	1.13	0.27	28	1.22	0.056
121579	Soil			1.09	47.37	23.60	110.7	268	30.7	14.3	450	2.62	49.9	2.1	7.9	3.3	75.7	0.54	1.66	0.26	21	1.59	0.065
121580	Soil			0.63	37.49	24.61	120.2	84	41.2	14.7	394	3.72	53.3	1.1	7.5	3.9	32.1	0.21	3.16	0.29	21	0.51	0.076
121581	Soil			0.92	35.68	22.04	99.3	140	31.5	14.0	509	2.61	145.9	1.6	10.3	3.3	152.4	0.31	5.11	0.22	16	4.17	0.080
121582	Soil			0.79	36.81	22.03	107.7	148	29.9	12.4	447	2.79	80.8	1.7	7.2	2.3	82.0	0.32	4.06	0.23	17	2.02	0.079
121583	Soil			0.44	60.79	20.06	103.9	31	36.2	17.7	690	4.24	18.1	0.5	2.5	1.9	23.3	0.08	0.53	0.50	19	0.18	0.033
121584	Soil			0.46	72.98	36.62	111.5	69	40.2	25.9	1018	4.31	26.8	0.4	3.3	3.2	30.4	0.04	0.62	0.60	17	0.02	0.020
121585	Soil			0.52	88.76	38.66	129.4	57	45.2	27.2	1101	5.38	28.1	0.5	3.8	2.4	21.4	0.06	0.75	0.63	19	0.09	0.026
121586	Soil			0.46	42.49	23.21	111.3	53	49.0	16.6	629	3.54	17.7	0.6	2.8	4.6	75.3	0.18	0.43	0.34	18	1.13	0.045
121587	Soil			0.96	46.79	31.48	78.0	40	17.1	16.9	1188	4.40	15.3	0.5	1.8	2.4	12.7	0.04	0.55	0.46	27	0.02	0.051
121588	Soil			0.55	29.62	20.18	72.8	92	23.1	9.7	360	2.99	39.5	1.5	6.7	1.6	58.5	0.09	0.68	0.30	18	0.79	0.055
121589	Soil			0.54	31.32	21.05	78.2	111	29.0	10.1	284	3.22	31.0	1.3	4.1	2.8	49.4	0.11	0.56	0.31	21	0.71	0.054
121590	Soil			0.51	49.92	29.55	105.3	85	46.9	23.2	960	4.07	38.1	0.8	3.7	3.9	36.7	0.07	1.05	0.44	17	0.20	0.028
121591	Soil			0.45	41.26	26.73	124.5	69	56.8	17.3	793	3.81	496.3	0.7	4.5	2.5	56.4	0.13	0.93	0.42	17	0.41	0.039
121592	Soil			0.61	27.02	18.04	86.7	128	25.0	12.2	466	2.70	155.2	1.4	7.2	2.1	63.7	0.12	1.04	0.30	19	1.01	0.065
121593	Soil			1.66	33.65	21.51	81.5	395	26.9	11.9	356	2.39	51.7	4.7	11.6	1.7	142.0	0.30	1.91	0.22	19	2.16	0.055
121594	Soil			1.69	46.19	27.65	97.3	126	33.9	16.0	293	3.23	65.0	1.4	5.1	4.0	63.6	0.20	1.18	0.44	15	1.04	0.040
121595	Soil			0.39	46.45	25.85	97.8	72	30.8	14.8	258	3.10	33.3	0.9	2.1	4.1	56.3	0.09	0.90	0.46	11	0.70	0.037
121596	Soil			0.43	41.87	20.98	87.5	90	30.7	14.0	300	2.78	28.8	1.3	2.3	3.2	102.6	0.10	0.51	0.38	14	1.48	0.055
121597	Soil			0.35	34.85	15.06	53.0	86	20.9	9.6	343	1.86	20.0	2.7	1.9	1.2	126.7	0.10	0.37	0.25	12	2.09	0.047
121598	Soil			0.71	24.54	24.43	66.3	67	25.6	12.5	397	3.52	21.2	2.1	1.4	3.8	56.2	0.17	0.58	0.27	26	0.68	0.029
121599	Soil			0.68	20.97	23.34	78.2	58	25.2	12.9	494	3.69	26.9	0.8	1.0	3.9	15.0	0.15	0.40	0.33	26	0.13	0.027
121600	Soil			0.65	31.62	22.23	82.4	87	24.4	12.6	509	2.81	36.1	2.4	2.4	1.9	65.2	0.09	1.35	0.30	20	0.86	0.057



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 26, 2011

Page: 2 of 6 Part 2

CERTIFICATE OF ANALYSIS

WHI11000952.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	
121571	Soil	10.2	32.6	0.45	104.0	0.020	1	1.79	0.004	0.07	0.1	1.4	0.12	0.05	22	0.4	0.03	6.8	2.93	<0.1	<0.02
121572	Soil	8.5	27.0	0.24	100.5	0.012	2	1.48	0.004	0.10	<0.1	1.5	0.13	0.06	35	0.5	0.08	7.6	4.46	<0.1	<0.02
121573	Soil	10.2	30.4	0.38	128.2	0.009	2	1.86	0.005	0.08	0.1	0.6	0.19	0.06	15	0.4	0.04	7.3	3.40	<0.1	<0.02
121574	Soil	9.7	28.5	0.22	98.7	0.012	3	1.65	0.004	0.08	<0.1	1.1	0.13	0.06	42	0.5	0.06	7.7	3.86	<0.1	<0.02
121575	Soil	9.4	25.9	0.40	151.5	0.004	2	1.81	0.005	0.06	<0.1	3.1	0.15	<0.02	34	0.2	0.05	5.3	2.69	<0.1	0.02
121576	Soil	13.2	21.6	0.37	152.3	0.001	2	1.99	0.004	0.06	<0.1	3.9	0.16	0.03	19	0.2	0.11	5.5	2.85	<0.1	0.03
121577	Soil	15.4	14.2	0.14	135.1	0.003	3	0.88	0.004	0.05	<0.1	2.3	0.08	0.13	267	0.7	<0.02	2.2	0.62	<0.1	<0.02
121578	Soil	18.2	13.9	0.08	130.8	0.003	<1	0.83	0.004	0.04	<0.1	1.9	0.14	0.05	337	0.6	0.05	2.5	0.58	<0.1	0.02
121579	Soil	22.3	20.6	0.63	77.3	0.002	4	0.41	0.005	0.08	<0.1	5.6	0.32	0.04	233	1.2	0.03	1.6	0.84	<0.1	0.06
121580	Soil	14.8	27.7	0.23	77.5	0.002	2	0.44	0.002	0.06	<0.1	7.1	0.15	0.04	696	1.0	0.03	1.2	1.48	<0.1	0.10
121581	Soil	8.8	15.5	1.85	55.1	0.002	3	0.22	0.007	0.06	<0.1	5.3	0.20	0.04	265	1.1	<0.02	0.7	0.59	<0.1	0.05
121582	Soil	13.1	17.3	0.74	63.8	0.001	3	0.27	0.004	0.06	<0.1	4.7	0.20	0.05	560	1.2	<0.02	0.9	0.57	<0.1	0.05
121583	Soil	4.5	16.1	0.14	41.1	<0.001	1	0.46	<0.001	0.05	<0.1	4.4	0.08	<0.02	144	0.3	0.10	2.0	2.39	<0.1	0.03
121584	Soil	5.2	13.2	0.08	27.8	<0.001	1	0.40	0.001	0.07	<0.1	5.1	0.18	<0.02	96	0.2	0.12	2.0	7.82	<0.1	0.04
121585	Soil	5.6	14.6	0.11	23.3	<0.001	1	0.33	0.001	0.05	<0.1	5.9	0.14	<0.02	178	0.3	0.10	1.6	2.90	<0.1	<0.02
121586	Soil	9.7	26.4	1.03	68.9	0.002	3	0.71	0.002	0.06	<0.1	5.4	0.09	0.06	174	0.5	<0.02	2.3	2.88	<0.1	0.05
121587	Soil	5.7	19.6	0.14	34.4	0.004	2	0.90	0.001	0.05	<0.1	2.5	0.10	0.02	46	0.4	0.09	4.9	7.77	<0.1	<0.02
121588	Soil	5.8	17.5	0.28	102.7	0.002	2	0.89	0.003	0.05	<0.1	3.5	0.12	0.05	157	0.4	0.03	2.7	2.07	<0.1	0.06
121589	Soil	8.5	23.5	0.44	101.2	0.003	2	1.23	0.002	0.07	<0.1	4.1	0.10	0.04	179	0.3	0.04	3.6	1.11	<0.1	0.08
121590	Soil	7.9	19.9	0.36	54.4	0.002	2	0.90	<0.001	0.08	<0.1	5.3	0.10	<0.02	77	0.2	0.05	2.7	2.07	<0.1	0.05
121591	Soil	6.7	20.9	0.23	60.2	0.002	2	0.48	0.002	0.06	<0.1	6.3	0.31	0.03	480	0.3	<0.02	1.8	1.78	<0.1	0.05
121592	Soil	6.6	19.0	0.33	105.2	0.002	3	0.74	0.003	0.06	<0.1	5.0	0.17	0.06	370	0.7	<0.02	2.3	0.75	<0.1	0.09
121593	Soil	9.7	13.4	0.57	61.4	0.002	3	0.45	0.003	0.05	<0.1	3.4	0.14	0.04	180	0.7	0.03	1.3	0.40	<0.1	0.05
121594	Soil	7.4	11.7	0.25	39.7	<0.001	2	0.43	0.002	0.05	<0.1	6.4	0.10	0.02	137	0.4	0.08	1.0	0.64	<0.1	0.05
121595	Soil	6.1	12.4	0.17	82.7	<0.001	3	0.51	0.002	0.07	<0.1	7.5	0.09	<0.02	79	0.2	0.06	1.4	2.02	<0.1	0.04
121596	Soil	7.9	17.0	0.32	130.0	0.002	4	0.82	0.003	0.08	<0.1	6.6	0.11	0.04	117	0.3	0.06	2.5	1.47	<0.1	0.06
121597	Soil	7.0	13.6	0.27	147.3	0.002	5	0.75	0.003	0.06	<0.1	3.7	0.08	0.07	148	0.4	0.02	2.0	0.87	<0.1	0.05
121598	Soil	10.4	25.1	0.35	106.4	0.001	1	1.37	0.002	0.05	<0.1	3.8	0.11	0.02	101	0.4	0.04	3.4	0.85	<0.1	0.06
121599	Soil	5.9	24.5	0.42	92.9	0.002	2	1.49	<0.001	0.06	<0.1	2.5	0.12	<0.02	65	0.2	0.07	4.3	1.63	<0.1	0.05
121600	Soil	8.4	19.9	0.34	140.4	0.002	3	1.14	0.002	0.07	<0.1	4.7	0.14	0.05	219	0.4	0.06	3.2	1.53	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 26, 2011

Page: 2 of 6 Part 3

CERTIFICATE OF ANALYSIS

WHI11000952.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
121571	Soil	0.95	11.2	1.5	<0.05	0.2	3.59	23.1	0.04	<1	0.8	26.3	<10	<2
121572	Soil	0.60	19.9	3.6	<0.05	0.1	2.91	17.4	0.02	<1	0.6	17.9	<10	<2
121573	Soil	0.32	13.4	1.4	<0.05	<0.1	3.61	23.4	0.03	<1	0.5	19.1	<10	<2
121574	Soil	0.51	18.2	2.0	<0.05	0.1	3.34	20.8	0.03	<1	0.8	13.1	<10	<2
121575	Soil	0.40	13.9	1.5	<0.05	0.7	5.47	28.4	0.03	<1	0.8	30.5	<10	<2
121576	Soil	0.34	14.6	1.3	<0.05	1.1	11.31	55.1	0.04	<1	1.6	38.8	<10	<2
121577	Soil	0.35	6.4	1.0	<0.05	1.0	16.31	32.7	0.03	<1	0.8	6.9	<10	<2
121578	Soil	0.46	7.0	1.6	<0.05	1.2	10.19	47.3	0.04	<1	0.6	9.0	<10	<2
121579	Soil	0.11	5.2	1.7	<0.05	2.2	14.18	42.0	0.04	<1	0.9	5.7	11	<2
121580	Soil	0.09	4.3	1.6	<0.05	2.8	17.25	36.0	0.07	<1	0.9	5.9	<10	<2
121581	Soil	0.14	3.2	3.4	<0.05	1.9	12.02	22.0	0.04	<1	0.6	2.7	<10	<2
121582	Soil	0.06	3.6	1.7	<0.05	2.2	14.58	31.3	0.04	<1	0.7	3.7	<10	<2
121583	Soil	0.06	6.1	1.0	<0.05	0.7	5.61	7.8	0.04	<1	0.8	6.7	<10	<2
121584	Soil	<0.02	7.6	1.0	<0.05	2.6	3.83	11.8	0.05	<1	1.0	5.7	<10	<2
121585	Soil	<0.02	5.0	2.0	<0.05	0.8	4.88	11.7	0.06	<1	1.1	3.6	<10	<2
121586	Soil	0.05	5.3	3.0	<0.05	2.4	7.54	21.6	0.04	<1	1.0	24.6	<10	<2
121587	Soil	0.45	11.4	4.8	<0.05	0.6	1.84	11.6	0.04	<1	0.4	11.7	<10	<2
121588	Soil	0.25	7.6	1.3	<0.05	1.6	5.86	14.2	0.04	<1	0.8	17.0	<10	<2
121589	Soil	0.28	7.1	1.6	<0.05	3.1	10.27	16.8	0.04	<1	1.0	31.6	<10	<2
121590	Soil	0.09	5.9	1.2	<0.05	1.9	8.82	17.2	0.04	<1	1.0	24.0	<10	<2
121591	Soil	0.12	5.1	3.4	<0.05	2.0	11.03	12.8	0.04	<1	1.1	8.5	<10	<2
121592	Soil	0.25	5.6	1.5	<0.05	2.4	10.38	16.2	0.03	<1	0.8	10.8	<10	<2
121593	Soil	0.11	3.3	1.4	<0.05	2.0	9.04	21.9	0.04	<1	0.7	6.6	<10	<2
121594	Soil	0.08	4.1	2.3	<0.05	1.7	15.10	19.7	0.04	<1	1.0	6.2	<10	<2
121595	Soil	0.08	5.8	1.6	<0.05	1.7	16.52	15.0	0.05	<1	1.1	8.6	<10	<2
121596	Soil	0.19	6.3	1.7	<0.05	2.4	17.59	18.5	0.04	<1	1.2	20.5	<10	<2
121597	Soil	0.22	4.8	1.0	<0.05	1.8	14.96	16.1	0.03	<1	0.8	15.5	<10	<2
121598	Soil	0.31	7.7	2.0	<0.05	2.8	8.58	30.0	0.04	<1	0.9	32.1	<10	<2
121599	Soil	0.22	9.8	2.3	<0.05	2.5	3.28	15.4	0.04	<1	0.7	43.0	<10	<2
121600	Soil	0.28	8.8	2.3	<0.05	1.6	12.03	20.5	0.03	<1	1.1	23.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 26, 2011

Page: 3 of 6 Part 1

CERTIFICATE OF ANALYSIS

WHI11000952.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
121682	Soil			0.81	41.42	35.98	116.6	67	33.3	26.5	1083	5.70	46.4	0.5	1.8	1.8	17.6	0.10	1.18	0.43	23	0.02	0.032
121683	Soil			1.15	30.16	32.35	98.2	41	25.7	14.2	591	4.21	14.9	0.6	0.8	0.9	9.8	0.17	0.67	0.37	36	0.04	0.045
121684	Soil			0.59	38.32	19.14	123.4	94	24.6	20.4	970	5.31	5.9	0.6	0.6	0.6	14.1	0.33	0.30	0.43	28	0.09	0.140
121685	Soil			1.24	23.92	23.71	95.0	76	17.2	14.5	1887	4.13	9.5	0.5	0.7	0.4	7.9	0.27	0.61	0.40	42	0.05	0.071
121686	Soil			0.95	24.39	31.57	78.5	41	22.8	14.7	859	3.69	14.0	1.2	1.0	1.4	52.7	0.15	0.48	0.43	40	0.82	0.114
121687	Soil			1.03	20.46	17.21	69.3	26	25.9	10.6	389	3.18	10.9	0.7	1.3	1.0	10.6	0.15	0.61	0.30	39	0.10	0.052
121688	Soil			0.72	23.78	37.93	88.6	39	20.2	10.7	1213	5.14	22.6	1.7	2.1	2.6	18.4	0.14	2.43	0.36	22	0.14	0.074
121689	Soil			1.24	21.99	20.43	68.2	21	19.6	9.0	296	3.24	13.7	0.7	0.8	1.2	25.0	0.09	0.82	0.36	43	0.35	0.036
121690	Soil			1.01	34.66	27.69	90.8	129	24.3	12.9	741	4.13	30.4	1.4	17.8	1.9	67.6	0.25	2.75	0.34	17	0.80	0.061
121691	Soil			3.78	46.58	30.09	148.7	489	29.3	14.0	483	2.91	44.9	4.1	11.3	2.8	191.0	0.57	4.01	0.32	19	3.33	0.146
121692	Soil			0.61	32.72	17.33	94.3	148	23.8	9.8	274	2.60	10.9	1.5	3.1	3.4	28.2	0.22	0.62	0.21	23	0.56	0.063
121693	Soil			0.70	32.96	22.29	107.5	101	36.8	13.2	410	3.41	11.9	1.2	3.1	4.9	34.3	0.19	0.50	0.28	28	0.71	0.102
121694	Soil			0.82	43.24	29.59	124.1	153	45.1	20.1	672	3.41	34.4	1.3	7.1	4.4	81.7	0.20	0.80	0.31	20	1.17	0.057
121695	Soil			0.52	40.87	24.61	117.3	70	50.3	15.9	494	3.59	25.0	0.9	3.8	3.3	64.9	0.16	0.73	0.34	17	0.61	0.053
121696	Soil			0.41	74.34	48.12	115.4	125	51.5	31.4	1348	5.15	96.1	0.7	5.5	2.9	20.7	0.06	0.98	0.74	13	0.06	0.011
121697	Soil			0.56	72.74	44.15	121.5	74	43.2	32.0	2038	4.90	50.0	0.5	4.4	2.8	22.9	0.06	0.87	0.53	15	0.02	0.021
121698	Soil			0.74	27.84	20.16	87.7	158	24.1	8.9	374	2.38	112.2	1.8	6.0	0.7	78.3	0.29	4.40	0.18	16	1.72	0.063
121699	Soil			0.43	56.75	27.19	112.6	63	41.4	23.2	717	4.26	21.3	0.5	3.1	2.6	29.0	0.09	0.49	0.44	15	0.19	0.023
121700	Soil			0.42	39.14	19.86	113.9	58	48.3	15.1	388	3.31	29.7	0.6	3.6	3.9	55.1	0.19	0.58	0.32	18	0.96	0.051
612344	Soil			0.98	18.59	17.92	71.3	71	15.9	7.9	326	3.44	14.2	0.4	0.4	2.2	7.1	0.16	0.71	0.31	39	0.03	0.037
612345	Soil			0.77	16.98	12.67	58.5	55	15.2	6.5	208	2.30	17.9	0.3	0.7	0.2	6.5	0.12	0.74	0.23	36	0.03	0.037
612346	Soil			0.84	25.14	16.09	77.7	61	18.8	8.4	318	2.97	15.8	0.4	<0.2	2.2	9.6	0.10	0.95	0.34	25	0.03	0.034
612347	Soil			1.13	16.97	22.68	58.4	44	17.8	6.9	157	2.54	20.3	0.5	1.0	0.7	7.9	0.11	0.79	0.20	32	0.04	0.034
612348	Soil			0.98	19.95	21.00	73.6	131	15.2	7.5	514	2.84	8.8	0.5	0.6	0.1	15.8	0.16	0.44	0.28	32	0.14	0.086
612349	Soil			0.93	31.81	41.97	130.6	127	28.2	18.7	954	4.48	14.6	0.6	0.7	0.8	11.9	0.29	0.54	0.36	31	0.07	0.084
612350	Soil			1.18	17.61	22.42	97.2	58	23.3	10.1	363	3.16	11.8	0.6	4.4	1.0	8.9	0.27	0.71	0.24	42	0.06	0.040
612757	Soil			1.05	27.27	41.09	81.1	251	29.7	16.1	706	4.00	10.1	0.8	<0.2	3.3	95.1	0.16	0.53	0.29	21	0.60	0.083
612758	Soil			0.79	16.19	22.64	74.7	69	21.7	10.1	457	3.31	9.7	0.7	1.4	2.8	38.5	0.19	0.39	0.29	37	0.61	0.039
612759	Soil			0.81	13.84	16.65	70.0	50	14.0	5.7	254	2.54	22.0	0.3	0.6	0.3	7.8	0.16	0.57	0.23	26	0.05	0.045
612760	Soil			1.14	21.18	23.14	80.5	123	15.2	6.4	380	2.96	119.2	0.7	0.7	0.5	9.4	0.25	1.04	0.35	41	0.05	0.059



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 26, 2011

Page: 3 of 6 Part 2

CERTIFICATE OF ANALYSIS

WHI11000952.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
121682	Soil	3.6	11.5	0.09	42.5	0.001	1	0.63	0.002	0.05	<0.1	3.7	0.11	0.02	321	0.5	0.06	1.9	1.29	<0.1	<0.02
121683	Soil	6.4	26.2	0.39	56.5	0.012	2	1.53	0.001	0.06	<0.1	2.0	0.11	0.03	36	0.4	0.05	5.2	4.38	<0.1	<0.02
121684	Soil	3.8	30.9	0.41	91.4	0.005	2	1.63	0.001	0.09	<0.1	1.6	0.07	0.08	40	0.3	0.07	5.8	6.34	<0.1	<0.02
121685	Soil	6.1	28.6	0.26	131.7	0.011	2	1.36	0.002	0.08	<0.1	1.4	0.11	0.06	41	0.3	0.05	6.9	3.94	<0.1	<0.02
121686	Soil	8.5	26.9	0.43	200.7	0.006	2	1.91	0.003	0.05	<0.1	2.8	0.14	0.06	43	0.2	0.09	6.0	2.59	<0.1	0.03
121687	Soil	10.3	27.9	0.43	108.7	0.009	1	1.86	0.004	0.05	0.1	1.7	0.13	0.03	25	0.3	0.05	5.1	1.45	<0.1	<0.02
121688	Soil	15.3	12.7	0.13	149.8	0.002	1	1.16	0.002	0.04	<0.1	4.8	0.13	0.03	43	0.1	0.06	2.7	1.49	<0.1	0.03
121689	Soil	7.4	18.9	0.20	135.0	0.006	<1	1.20	0.001	0.05	0.1	2.1	0.18	<0.02	48	0.2	0.06	5.3	2.02	<0.1	<0.02
121690	Soil	7.6	11.3	0.14	125.3	0.002	4	0.71	0.002	0.07	<0.1	5.2	0.11	0.05	91	0.4	0.08	1.8	0.81	<0.1	0.05
121691	Soil	8.8	10.6	1.19	111.1	0.002	3	0.37	0.005	0.07	<0.1	4.5	0.21	0.04	423	1.3	0.06	1.3	0.93	<0.1	0.04
121692	Soil	24.0	27.0	0.62	358.5	0.003	4	0.96	0.002	0.09	<0.1	4.7	0.11	0.04	83	0.9	<0.02	2.9	1.27	<0.1	0.08
121693	Soil	22.0	49.5	0.85	176.9	0.004	4	1.18	0.002	0.08	<0.1	6.3	0.13	0.04	87	1.2	0.03	3.8	2.61	<0.1	0.08
121694	Soil	16.4	27.3	0.90	122.4	0.002	4	0.76	0.003	0.09	<0.1	5.8	0.28	0.03	208	0.8	0.02	2.4	8.05	<0.1	0.05
121695	Soil	10.6	24.3	0.41	84.3	0.001	3	0.56	0.002	0.07	<0.1	7.4	0.18	0.06	374	0.7	<0.02	1.9	6.11	<0.1	0.07
121696	Soil	8.0	8.7	0.08	19.4	<0.001	2	0.27	0.001	0.05	<0.1	5.5	0.25	<0.02	515	0.5	0.18	0.9	3.92	<0.1	<0.02
121697	Soil	5.7	11.3	0.07	29.4	<0.001	2	0.47	0.001	0.07	<0.1	5.9	0.19	<0.02	192	0.6	0.13	1.6	10.19	<0.1	0.02
121698	Soil	7.2	14.7	0.22	43.6	0.001	4	0.31	0.004	0.05	<0.1	3.1	0.14	0.08	279	1.5	<0.02	0.8	0.52	<0.1	0.05
121699	Soil	5.7	15.1	0.26	39.7	<0.001	3	0.45	0.001	0.06	<0.1	4.7	0.13	0.03	161	0.7	0.11	1.7	3.13	<0.1	0.04
121700	Soil	9.6	24.9	0.68	55.4	0.002	3	0.59	0.002	0.07	<0.1	6.3	0.11	0.06	159	1.5	<0.02	2.2	1.85	<0.1	0.06
612344	Soil	8.7	15.9	0.13	66.5	0.011	1	0.87	<0.001	0.07	0.1	1.7	0.08	<0.02	20	0.5	<0.02	5.4	2.24	<0.1	<0.02
612345	Soil	6.2	8.3	0.03	59.2	0.005	<1	0.45	0.002	0.05	<0.1	0.5	0.05	0.02	32	0.4	0.03	3.4	1.95	<0.1	<0.02
612346	Soil	7.6	10.8	0.07	45.4	0.004	3	0.58	0.002	0.08	<0.1	1.8	0.07	<0.02	38	0.7	0.03	3.1	2.22	<0.1	<0.02
612347	Soil	7.5	16.5	0.20	51.2	0.010	1	1.01	0.002	0.04	0.1	1.2	0.10	0.03	40	0.7	0.03	3.8	2.09	<0.1	<0.02
612348	Soil	5.6	17.2	0.16	155.5	0.003	2	1.03	0.002	0.07	<0.1	0.3	0.10	0.06	57	0.5	0.09	4.5	2.65	<0.1	<0.02
612349	Soil	5.7	24.7	0.28	121.2	0.005	2	1.41	<0.001	0.08	<0.1	2.4	0.11	0.05	50	0.7	0.04	5.8	6.09	<0.1	<0.02
612350	Soil	8.9	27.9	0.43	85.5	0.013	2	1.83	0.001	0.07	0.2	1.7	0.11	0.02	45	0.7	0.03	5.0	2.08	<0.1	<0.02
612757	Soil	10.2	21.3	0.30	116.9	0.004	2	1.39	<0.001	0.09	<0.1	6.4	0.12	0.04	62	0.6	<0.02	3.7	2.64	<0.1	0.05
612758	Soil	9.2	22.6	0.36	226.6	0.006	1	1.57	0.002	0.06	0.1	2.9	0.13	0.02	22	0.4	0.06	4.8	1.56	<0.1	0.03
612759	Soil	5.4	10.2	0.05	69.9	0.003	2	0.63	0.002	0.06	<0.1	0.9	0.07	0.03	23	0.5	<0.02	3.4	3.34	<0.1	<0.02
612760	Soil	8.2	17.5	0.08	81.1	0.011	1	0.75	0.002	0.08	0.1	1.2	0.13	0.04	113	0.6	0.09	5.0	2.52	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 26, 2011

Page: 3 of 6 Part 3

CERTIFICATE OF ANALYSIS

WHI11000952.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
121682	Soil	0.15	7.3	5.2	<0.05	0.5	2.81	9.8	0.05	<1	0.7	10.6	<10	<2
121683	Soil	0.42	10.9	3.1	<0.05	0.1	3.31	14.7	0.04	<1	0.6	33.8	<10	<2
121684	Soil	0.32	12.4	3.4	<0.05	0.3	3.70	9.0	0.04	<1	1.1	32.7	<10	<2
121685	Soil	0.39	16.2	5.6	<0.05	<0.1	2.54	14.8	0.04	<1	0.6	19.3	<10	<2
121686	Soil	0.46	11.6	3.7	<0.05	0.7	9.12	47.7	0.05	<1	1.0	37.1	<10	<2
121687	Soil	0.57	8.9	1.1	<0.05	0.4	5.02	33.7	0.03	<1	0.8	24.7	<10	<2
121688	Soil	0.25	9.3	1.8	<0.05	0.9	18.24	66.6	0.06	<1	1.4	7.6	<10	<2
121689	Soil	0.43	9.9	1.2	<0.05	0.3	2.83	18.7	0.04	<1	0.4	14.2	<10	<2
121690	Soil	0.17	5.9	3.4	<0.05	1.3	17.32	21.6	0.05	<1	1.2	5.9	<10	<2
121691	Soil	0.08	4.9	2.1	<0.05	1.8	14.64	25.0	0.04	<1	0.8	3.7	<10	<2
121692	Soil	0.17	7.4	1.4	<0.05	2.5	14.07	49.0	0.04	<1	1.0	23.0	<10	<2
121693	Soil	0.19	8.0	2.4	<0.05	2.6	15.11	51.0	0.04	<1	1.2	36.0	<10	<2
121694	Soil	0.09	8.9	3.3	<0.05	2.0	10.01	35.4	0.04	<1	1.0	24.2	<10	<2
121695	Soil	0.09	6.6	2.2	<0.05	2.1	12.26	25.3	0.04	<1	1.1	14.0	<10	<2
121696	Soil	<0.02	4.6	1.6	<0.05	1.3	3.67	16.4	0.05	<1	1.1	3.1	<10	<2
121697	Soil	0.02	9.5	1.1	<0.05	1.5	3.77	15.7	0.06	<1	1.3	5.0	<10	<2
121698	Soil	0.09	4.0	3.7	<0.05	1.5	13.11	16.4	0.03	<1	0.5	3.0	<10	<2
121699	Soil	0.06	6.1	1.4	<0.05	1.5	5.44	13.4	0.04	<1	1.0	10.6	<10	<2
121700	Soil	0.10	6.0	1.6	<0.05	2.3	10.56	23.6	0.04	<1	1.0	15.4	15	<2
612344	Soil	0.73	14.7	2.7	<0.05	0.5	2.13	18.1	0.02	<1	0.6	7.1	<10	<2
612345	Soil	0.16	10.3	1.0	<0.05	<0.1	1.80	12.8	<0.02	<1	0.3	1.0	<10	<2
612346	Soil	0.38	14.5	1.2	<0.05	0.4	2.33	15.9	0.04	<1	0.4	3.5	<10	<2
612347	Soil	0.48	8.6	1.0	<0.05	0.1	2.60	16.4	0.03	<1	0.3	12.1	<10	<2
612348	Soil	0.19	14.7	3.3	<0.05	<0.1	3.36	13.4	0.03	<1	0.8	12.7	<10	<2
612349	Soil	0.38	14.9	1.8	<0.05	0.2	5.36	18.8	0.04	<1	1.1	34.6	<10	<2
612350	Soil	0.61	11.3	1.0	<0.05	0.1	3.01	21.7	0.03	<1	0.5	40.7	<10	<2
612757	Soil	0.27	11.1	1.8	<0.05	0.9	22.51	43.0	0.05	<1	1.1	37.7	<10	<2
612758	Soil	0.71	14.3	0.7	<0.05	0.7	5.28	26.2	0.04	<1	0.9	21.6	<10	<2
612759	Soil	0.23	13.0	1.8	<0.05	0.1	2.05	11.7	<0.02	<1	0.5	3.0	<10	<2
612760	Soil	0.69	24.9	1.6	<0.05	0.2	2.51	17.7	0.03	<1	0.7	6.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 26, 2011

Page: 4 of 6 Part 1

CERTIFICATE OF ANALYSIS

WHI11000952.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612761	Soil			1.06	26.72	35.77	122.6	190	31.8	15.9	643	4.31	19.8	0.6	0.8	0.7	24.5	0.25	0.67	0.35	38	0.25	0.086
612762	Soil			0.93	23.49	29.25	78.1	93	23.9	12.8	595	3.95	16.0	0.5	2.6	0.7	11.6	0.13	0.55	0.32	39	0.09	0.056
612763	Soil			1.20	32.59	47.76	98.8	158	23.6	19.7	1639	6.15	14.1	0.6	0.8	0.6	9.3	0.27	0.57	0.51	42	0.05	0.144
612764	Soil			1.00	29.81	30.20	86.3	59	21.7	10.9	645	4.40	25.7	0.5	1.5	0.4	12.7	0.13	0.78	0.34	38	0.05	0.083
612765	Soil			1.09	20.78	26.66	126.9	187	16.6	13.4	1577	5.02	9.2	0.6	<0.2	0.2	10.3	0.34	0.56	0.38	45	0.07	0.099
612766	Soil			0.69	34.63	29.21	107.2	116	32.5	14.9	893	3.94	12.6	1.5	1.4	2.6	45.5	0.26	0.47	0.35	29	0.66	0.080
612767	Soil			0.55	28.65	30.18	88.0	81	21.1	12.3	522	3.28	7.8	2.0	0.7	1.8	57.0	0.22	0.35	0.35	25	0.86	0.113
612768	Soil			0.44	27.57	30.16	101.0	152	27.2	13.5	234	3.61	14.6	1.5	2.3	1.7	88.1	0.28	0.47	0.31	24	1.26	0.110
612769	Soil			0.96	24.40	19.10	152.4	222	24.2	8.1	393	3.04	25.6	4.8	4.2	1.2	70.7	0.90	2.71	0.26	35	0.82	0.097
612770	Soil			1.30	24.19	21.93	73.9	49	21.5	9.5	314	3.41	56.5	1.0	3.5	1.1	24.0	0.15	3.13	0.31	45	0.25	0.065
612771	Soil			0.94	43.14	21.07	99.8	371	33.3	12.5	513	3.33	378.0	2.9	21.4	1.6	73.8	0.37	18.77	0.24	30	0.65	0.042
612772	Soil			0.53	32.56	17.71	101.3	112	29.8	11.7	231	3.03	19.7	1.3	3.6	3.5	30.3	0.21	0.63	0.22	25	0.55	0.054
612773	Soil			0.73	35.35	21.87	107.7	106	35.8	13.9	445	3.08	23.6	1.0	4.0	4.3	45.8	0.23	0.82	0.23	29	1.05	0.081
612774	Soil			0.36	44.33	20.97	117.4	59	53.0	16.8	469	3.55	9.1	0.6	3.0	3.9	78.9	0.15	0.34	0.36	18	1.73	0.055
612775	Soil			0.38	46.49	26.02	118.0	61	64.6	22.2	912	4.08	10.8	0.4	4.6	2.4	95.4	0.17	0.29	0.33	17	0.59	0.030
612776	Soil			0.49	49.89	33.40	87.1	88	32.5	13.5	514	3.21	64.7	0.5	3.8	2.3	42.8	0.09	0.95	0.38	14	0.07	0.014
612777	Soil			0.55	52.88	29.40	121.3	71	53.0	22.8	1122	4.08	13.8	0.4	2.6	2.5	65.8	0.16	0.61	0.40	14	0.42	0.026
612778	Soil			0.61	34.36	19.79	101.0	58	41.9	14.8	414	2.89	31.7	0.7	3.6	5.2	118.7	0.15	0.64	0.25	17	3.38	0.064
612779	Soil			0.73	75.08	46.79	124.6	86	50.9	33.7	912	5.54	39.4	0.5	5.3	2.4	28.9	0.05	0.81	0.64	16	0.07	0.018
612780	Soil			0.38	41.19	18.06	85.8	73	32.7	12.6	366	3.03	18.3	0.8	3.5	2.1	37.8	0.08	0.62	0.33	15	0.35	0.035
612781	Soil			0.85	46.01	30.38	102.9	50	27.1	19.1	1043	3.92	22.5	0.7	2.7	2.1	39.5	0.15	1.01	0.39	25	0.42	0.041
612782	Soil			0.54	56.93	29.85	124.1	77	55.1	20.3	645	4.23	37.7	0.8	10.3	3.9	53.9	0.24	1.52	0.66	17	0.41	0.049
612783	Soil			0.50	41.29	26.63	107.6	41	44.4	16.1	589	3.81	17.5	0.5	3.1	2.6	23.4	0.11	0.73	0.49	21	0.09	0.042
612784	Soil			0.37	30.09	17.54	66.5	108	26.3	10.3	377	2.61	239.5	2.3	3.0	2.1	66.3	0.14	0.91	0.29	19	1.10	0.085
612785	Soil			1.74	39.12	31.50	84.3	183	33.0	14.1	415	3.39	42.7	1.4	3.3	3.3	82.6	0.17	2.10	0.32	20	0.90	0.048
612786	Soil			1.16	35.63	21.20	87.6	139	23.8	11.5	381	2.66	38.2	1.1	1.4	1.2	120.9	0.39	1.40	0.30	12	2.03	0.072
612787	Soil			0.49	40.62	27.50	90.2	95	31.0	13.8	392	3.20	17.0	1.0	<0.2	1.4	116.9	0.12	0.66	0.41	11	1.67	0.080
612788	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
612789	Soil			0.93	68.83	102.2	139.2	151	48.3	39.5	2059	6.61	53.1	1.0	0.8	4.4	64.7	0.13	1.07	0.45	24	0.40	0.046
612790	Soil			1.23	35.39	52.36	94.3	189	31.3	20.2	1018	4.17	26.1	0.5	<0.2	2.4	34.5	0.03	0.81	0.41	22	0.04	0.054



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 26, 2011

Page: 4 of 6 Part 2

CERTIFICATE OF ANALYSIS

WHI11000952.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
612761	Soil	7.8	25.7	0.36	140.4	0.008	1	1.55	<0.001	0.08	<0.1	1.9	0.11	0.04	33	0.7	0.03	5.4	3.08	<0.1	<0.02
612762	Soil	7.8	24.7	0.32	107.1	0.006	2	1.65	<0.001	0.06	0.1	1.9	0.13	0.03	38	0.7	0.04	5.8	2.62	<0.1	<0.02
612763	Soil	5.7	39.5	0.39	77.9	0.007	2	2.16	<0.001	0.10	<0.1	1.1	0.10	0.09	62	1.0	0.05	7.1	4.08	<0.1	<0.02
612764	Soil	5.0	23.7	0.33	65.0	0.005	2	1.49	<0.001	0.08	<0.1	1.3	0.13	0.12	43	1.1	0.06	5.7	2.97	<0.1	<0.02
612765	Soil	6.0	27.9	0.25	118.6	0.010	2	1.57	<0.001	0.10	<0.1	0.9	0.08	0.07	72	0.8	0.05	6.9	3.44	<0.1	<0.02
612766	Soil	17.9	24.0	0.43	158.6	0.006	3	1.51	0.002	0.08	0.1	8.2	0.10	0.04	72	0.9	0.07	4.5	2.14	<0.1	0.04
612767	Soil	13.3	22.5	0.44	101.6	0.004	3	1.64	<0.001	0.07	<0.1	4.8	0.10	0.06	39	0.9	0.08	4.7	3.88	<0.1	0.03
612768	Soil	24.7	16.4	0.17	166.8	0.002	2	1.04	0.002	0.06	<0.1	5.3	0.09	0.07	252	1.0	0.07	2.4	1.40	<0.1	0.06
612769	Soil	10.9	22.1	0.25	170.7	0.003	<1	1.32	0.001	0.05	<0.1	2.7	0.11	0.07	659	0.9	0.04	3.6	0.88	<0.1	0.06
612770	Soil	9.1	22.3	0.19	137.3	0.004	1	1.41	<0.001	0.06	0.1	2.3	0.20	0.03	402	0.8	0.07	5.3	1.44	<0.1	<0.02
612771	Soil	12.2	17.8	0.17	109.1	0.002	2	0.65	0.001	0.05	0.1	5.1	0.23	0.03	2072	1.2	0.08	1.9	0.24	<0.1	0.07
612772	Soil	22.3	27.5	0.31	157.8	0.002	4	0.62	0.002	0.08	<0.1	5.5	0.13	0.04	196	1.6	<0.02	2.2	2.04	<0.1	0.08
612773	Soil	21.4	34.8	0.77	121.5	0.004	2	0.66	0.003	0.08	<0.1	5.3	0.14	0.05	202	1.9	<0.02	2.4	2.35	<0.1	0.05
612774	Soil	7.3	31.5	1.57	60.8	0.003	3	1.04	0.002	0.08	<0.1	6.1	0.09	0.07	63	1.0	0.03	3.5	3.74	<0.1	0.08
612775	Soil	5.0	21.0	0.43	62.1	<0.001	<1	0.32	0.001	0.07	<0.1	6.6	0.15	0.07	64	0.8	0.03	1.6	5.77	<0.1	0.04
612776	Soil	5.3	15.2	0.11	35.3	<0.001	1	0.35	<0.001	0.05	<0.1	5.3	0.72	<0.02	612	0.7	0.05	1.6	3.59	<0.1	<0.02
612777	Soil	5.9	17.1	0.46	36.4	<0.001	2	0.59	0.003	0.07	<0.1	6.0	0.10	0.10	178	0.9	0.06	1.9	6.20	<0.1	0.05
612778	Soil	11.1	25.3	1.98	93.5	0.002	2	0.48	0.005	0.07	<0.1	5.0	0.10	0.04	179	1.8	<0.02	2.0	2.11	<0.1	0.05
612779	Soil	5.4	11.7	0.11	23.3	<0.001	<1	0.24	0.001	0.07	<0.1	5.9	0.14	<0.02	205	0.8	0.17	1.0	3.48	<0.1	0.03
612780	Soil	7.5	16.2	0.24	39.5	0.002	1	0.56	<0.001	0.07	<0.1	4.9	0.07	0.03	152	0.8	0.06	2.2	2.36	<0.1	0.06
612781	Soil	6.7	18.1	0.27	60.3	0.010	<1	1.00	0.001	0.09	<0.1	2.9	0.10	0.03	87	1.2	0.11	3.8	7.92	0.1	<0.02
612782	Soil	7.7	20.3	0.42	45.1	0.003	4	0.51	0.001	0.07	<0.1	7.1	0.17	<0.02	131	0.4	0.04	1.6	3.23	<0.1	0.06
612783	Soil	5.2	25.8	0.48	57.5	0.002	2	1.19	<0.001	0.06	<0.1	3.5	0.11	<0.02	29	0.2	0.03	4.0	2.32	<0.1	<0.02
612784	Soil	9.7	25.2	0.29	89.4	0.004	8	0.57	0.004	0.06	<0.1	7.5	0.55	0.08	417	1.2	<0.02	1.6	1.88	<0.1	0.08
612785	Soil	12.2	17.8	0.38	101.8	0.004	3	0.88	0.003	0.06	<0.1	5.8	0.11	0.03	569	0.6	0.06	2.5	0.73	<0.1	0.06
612786	Soil	8.9	8.7	0.10	65.8	0.001	4	0.41	0.003	0.05	<0.1	4.3	0.09	0.06	206	0.7	0.07	0.9	0.48	<0.1	0.04
612787	Soil	8.9	9.5	0.17	82.8	0.001	4	0.49	0.002	0.06	<0.1	5.0	<0.02	0.06	99	0.3	0.06	1.1	0.66	<0.1	0.03
612788	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
612789	Soil	5.4	26.8	0.72	176.8	0.005	5	1.62	0.002	0.13	<0.1	9.5	0.27	0.03	183	0.2	0.11	4.8	7.55	<0.1	0.06
612790	Soil	3.7	24.6	0.40	56.1	0.005	4	1.18	0.002	0.08	<0.1	3.2	0.11	0.03	86	0.2	0.09	4.1	5.48	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 26, 2011

Page: 4 of 6 Part 3

CERTIFICATE OF ANALYSIS

WHI11000952.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
612761	Soil			0.56	16.6	1.1	<0.05	0.2	5.71	22.1	0.04	<1	1.3	36.5	<10	<2
612762	Soil			0.48	12.4	1.5	<0.05	0.2	5.27	20.0	0.05	<1	1.1	35.7	<10	<2
612763	Soil			0.48	15.1	5.4	<0.05	0.4	3.22	14.9	0.04	<1	1.2	36.7	<10	<2
612764	Soil			0.32	12.9	2.8	<0.05	0.2	3.56	11.4	0.04	<1	0.7	26.8	<10	<2
612765	Soil			0.46	20.4	1.4	<0.05	<0.1	2.64	14.1	<0.02	<1	0.5	20.2	<10	<2
612766	Soil			0.36	10.9	3.4	<0.05	0.9	26.70	49.7	0.04	<1	1.1	35.4	<10	<2
612767	Soil			0.35	14.5	1.2	<0.05	1.0	20.31	49.9	0.07	<1	1.0	38.7	<10	<2
612768	Soil			0.25	8.5	1.0	<0.05	1.3	26.00	38.6	0.05	<1	1.0	9.3	<10	<2
612769	Soil			0.48	8.7	0.9	<0.05	1.6	11.09	24.6	0.03	<1	1.1	12.5	<10	<2
612770	Soil			0.50	12.8	1.2	<0.05	0.5	4.56	25.3	0.04	<1	0.8	15.2	<10	<2
612771	Soil			0.19	4.8	0.6	<0.05	1.9	17.24	30.9	0.05	<1	0.9	5.4	<10	<2
612772	Soil			0.17	7.0	1.6	<0.05	2.6	15.17	45.8	0.03	<1	1.3	14.0	<10	<2
612773	Soil			0.16	7.0	5.0	<0.05	2.4	13.95	48.4	0.05	<1	1.0	17.0	<10	<2
612774	Soil			0.11	6.7	2.0	<0.05	2.7	9.73	17.7	0.04	<1	1.7	36.9	<10	<2
612775	Soil			0.03	6.6	1.9	<0.05	1.5	7.28	12.6	0.03	<1	1.3	5.6	15	<2
612776	Soil			0.03	4.7	3.2	<0.05	0.8	5.98	11.9	0.04	<1	0.7	4.7	<10	<2
612777	Soil			0.04	6.4	2.4	<0.05	1.8	6.10	13.3	0.04	<1	1.2	18.3	11	<2
612778	Soil			0.04	4.9	2.8	<0.05	4.3	9.27	28.5	0.02	<1	0.8	14.1	<10	<2
612779	Soil			<0.02	5.5	2.7	<0.05	1.2	6.11	11.4	0.06	<1	1.3	2.9	11	<2
612780	Soil			0.16	6.4	1.1	<0.05	2.1	8.27	14.8	0.02	<1	1.0	10.6	<10	<2
612781	Soil			0.52	13.4	5.4	<0.05	1.1	3.59	14.5	0.02	<1	0.3	18.6	<10	<2
612782	Soil			0.12	5.9	2.3	<0.05	1.8	9.75	15.4	0.07	<1	1.1	12.3	<10	<2
612783	Soil			0.18	7.7	4.6	<0.05	0.6	4.96	12.7	0.03	<1	0.8	33.6	<10	<2
612784	Soil			0.21	7.8	2.3	<0.05	2.1	16.39	21.6	0.02	<1	0.5	5.9	<10	<2
612785	Soil			0.22	5.3	11.8	<0.05	1.7	14.86	29.3	<0.02	<1	1.0	17.1	<10	<2
612786	Soil			0.14	4.2	1.1	<0.05	1.3	14.57	21.4	0.03	1	1.0	3.1	<10	<2
612787	Soil			0.11	3.8	7.1	<0.05	0.7	18.75	19.4	0.02	<1	1.1	5.7	<10	<2
612788	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
612789	Soil			0.14	11.2	10.0	<0.05	2.5	13.83	11.8	<0.02	<1	1.9	47.0	<10	<2
612790	Soil			0.23	10.4	12.7	<0.05	0.7	3.35	9.2	0.04	<1	0.6	30.7	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 26, 2011

Page: 5 of 6 Part 1

CERTIFICATE OF ANALYSIS

WHI11000952.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612791	Soil			0.39	40.41	28.08	70.7	200	29.4	13.6	643	2.99	29.8	2.0	<0.2	0.8	189.9	0.10	0.41	0.32	14	2.36	0.077
612792	Soil			0.52	34.00	20.20	82.5	119	27.1	13.8	503	2.78	26.3	1.3	0.5	2.0	137.5	0.16	0.59	0.31	16	1.77	0.077
612793	Soil			0.66	38.43	28.38	100.1	117	32.9	18.4	654	3.52	195.0	2.1	3.4	2.6	74.0	0.14	1.27	0.37	16	0.74	0.051
612794	Soil			0.48	40.84	29.99	81.4	83	32.4	18.7	598	3.69	59.3	1.5	5.6	2.6	117.6	0.09	1.28	0.38	16	1.39	0.059
612795	Soil			0.35	34.16	23.72	118.8	81	31.3	14.3	562	3.19	10.6	0.7	1.0	3.2	79.8	0.11	0.42	0.36	16	1.04	0.049
612796	Soil			0.39	27.79	25.95	82.6	100	26.4	12.1	398	3.25	12.5	0.9	0.8	2.1	96.9	0.09	0.40	0.33	17	1.28	0.055
612662	Soil			0.74	27.46	22.28	69.7	92	21.9	10.0	269	3.96	13.3	0.4	<0.2	0.7	8.1	0.11	0.49	0.37	24	0.05	0.052
612663	Soil			0.61	36.08	32.08	82.9	180	37.1	15.5	451	3.46	36.5	0.8	8.3	1.9	59.0	0.08	1.79	0.45	9	0.68	0.043
612664	Soil			0.45	21.26	36.08	70.7	188	33.2	13.7	403	3.58	11.6	1.3	0.8	5.5	51.0	0.26	0.53	0.34	19	0.91	0.082
612665	Soil			1.10	20.41	26.53	82.2	50	20.8	9.6	329	3.99	31.1	0.6	<0.2	1.2	7.1	0.12	0.76	0.38	38	0.03	0.041
612666	Soil			0.48	12.23	25.26	40.8	39	12.9	5.5	128	2.48	15.1	0.3	<0.2	1.8	4.8	0.06	0.40	0.19	19	<0.01	0.031
612667	Soil			0.87	30.92	33.88	133.6	138	29.3	16.1	949	3.68	16.0	1.3	0.3	1.3	68.2	0.42	0.65	0.37	26	0.74	0.151
612668	Soil			0.84	23.16	20.99	67.2	158	12.7	7.5	389	3.02	14.9	0.6	0.3	0.1	11.9	0.18	0.53	0.40	35	0.07	0.083
612669	Soil			1.55	23.14	21.25	103.6	139	16.8	14.2	1313	4.85	9.8	0.6	<0.2	1.8	7.5	0.11	0.89	0.46	58	0.02	0.078
612670	Soil			1.10	26.58	21.74	80.0	77	21.6	9.2	415	3.21	9.2	0.8	0.5	0.5	10.8	0.13	0.72	0.39	35	0.05	0.088
612671	Soil			1.02	26.08	24.00	86.9	54	26.4	13.3	472	3.68	11.6	0.7	<0.2	1.0	9.0	0.17	0.71	0.34	35	0.04	0.050
612672	Soil			0.63	27.30	23.53	115.7	85	29.2	14.4	717	3.41	10.1	1.3	<0.2	3.2	48.4	0.28	0.45	0.39	31	0.59	0.072
612673	Soil			1.02	21.44	25.70	70.6	51	21.8	11.0	575	3.18	8.8	1.4	<0.2	1.2	58.8	0.16	0.61	0.40	40	0.66	0.102
612674	Soil			0.63	25.22	22.22	94.2	104	22.1	10.3	609	2.82	9.3	1.8	0.5	1.3	126.3	0.70	0.46	0.29	21	1.72	0.129
612675	Soil			1.72	38.05	23.59	70.8	467	27.2	11.5	317	2.88	36.0	9.4	7.0	1.4	102.6	0.90	2.16	0.32	27	1.41	0.082
612676	Soil			1.13	64.72	22.46	92.3	516	37.4	13.4	322	3.37	59.9	2.2	29.8	2.1	35.5	0.40	2.05	0.40	29	0.34	0.021
612677	Soil			0.42	27.16	18.06	91.1	59	21.4	9.4	315	2.96	14.0	1.0	<0.2	2.8	60.4	0.32	0.78	0.24	15	0.70	0.078
612678	Soil			1.36	34.55	23.86	95.0	314	23.9	11.2	508	2.34	164.7	3.0	12.8	2.0	129.8	0.36	8.24	0.21	18	3.69	0.071
612679	Soil			0.88	38.63	23.93	117.7	137	41.4	15.8	448	3.30	92.0	1.7	15.1	2.1	72.1	0.26	3.18	0.32	17	0.78	0.089
612680	Soil			0.54	43.38	22.20	107.0	58	52.4	16.6	460	3.49	33.1	0.8	2.7	3.0	52.4	0.15	1.41	0.43	19	0.56	0.046
612681	Soil			0.48	75.58	40.14	118.0	114	49.0	31.3	805	4.97	27.7	0.6	4.1	3.2	32.8	0.06	0.59	0.70	17	0.09	0.017
612682	Soil			0.65	105.4	72.30	197.4	97	79.3	48.9	1636	7.71	36.4	0.6	1.6	3.2	45.4	0.06	1.02	0.99	29	<0.01	0.030
612683	Soil			0.51	49.81	27.49	117.9	59	55.4	19.3	570	3.80	17.5	0.7	6.2	4.6	77.7	0.11	0.70	0.40	17	1.31	0.043
612684	Soil			0.44	79.43	29.14	113.5	70	42.3	22.9	728	4.77	18.0	0.5	2.7	2.6	27.7	0.04	0.52	0.60	13	0.10	0.020
612685	Soil			1.02	65.09	39.20	55.7	146	11.4	6.4	266	6.00	26.7	0.4	3.0	2.8	16.5	0.06	0.65	0.54	17	0.02	0.064



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 26, 2011

Page: 5 of 6 Part 2

CERTIFICATE OF ANALYSIS

WHI11000952.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
612791	Soil	7.0	15.1	0.32	98.1	0.003	7	0.92	0.004	0.06	<0.1	4.3	0.09	0.10	163	0.9	0.06	2.6	2.83	<0.1	0.03
612792	Soil	10.2	16.4	0.41	76.7	0.004	4	0.91	0.003	0.06	<0.1	5.5	0.07	0.05	129	0.7	0.08	2.7	1.30	<0.1	0.04
612793	Soil	6.1	15.0	0.31	73.7	0.002	5	0.77	0.002	0.08	<0.1	5.3	0.36	0.05	306	0.9	0.07	2.3	2.86	<0.1	0.06
612794	Soil	6.4	12.5	0.26	75.0	0.002	4	0.68	0.003	0.05	<0.1	6.1	0.10	0.08	173	0.4	0.07	1.9	1.42	<0.1	0.03
612795	Soil	4.7	17.8	0.31	76.9	0.005	5	0.76	0.002	0.07	<0.1	4.0	0.07	0.05	86	0.3	0.06	2.7	2.25	<0.1	0.07
612796	Soil	4.5	17.9	0.35	86.7	0.003	3	1.00	0.002	0.06	<0.1	4.0	0.05	0.05	68	0.3	0.02	3.2	1.49	<0.1	0.05
612662	Soil	3.4	16.2	0.15	64.6	0.004	<1	0.83	0.001	0.06	<0.1	1.9	0.08	0.03	35	0.3	0.06	4.4	2.32	<0.1	<0.02
612663	Soil	5.8	7.0	0.09	116.7	0.001	2	0.47	0.002	0.06	<0.1	4.7	0.06	0.03	70	0.4	0.07	1.2	0.86	<0.1	0.04
612664	Soil	18.7	14.8	0.16	118.1	0.002	1	1.08	0.002	0.06	<0.1	6.1	0.09	0.04	73	0.5	0.09	2.0	1.30	<0.1	0.02
612665	Soil	6.9	21.9	0.29	69.7	0.007	<1	1.48	<0.001	0.05	0.1	1.7	0.12	0.02	37	0.4	0.06	5.1	2.28	<0.1	<0.02
612666	Soil	3.6	9.5	0.05	28.6	0.002	<1	0.59	0.001	0.04	<0.1	1.5	0.06	<0.02	40	0.3	0.02	2.5	2.24	<0.1	<0.02
612667	Soil	7.9	21.4	0.45	127.3	0.008	2	1.36	0.003	0.07	<0.1	3.9	0.08	0.09	51	0.4	0.03	4.0	3.62	<0.1	0.04
612668	Soil	5.4	19.1	0.15	93.4	0.007	<1	0.97	0.001	0.06	<0.1	0.7	0.09	0.08	25	0.1	0.07	5.2	3.64	<0.1	<0.02
612669	Soil	6.9	29.5	0.32	59.8	0.023	<1	1.73	<0.001	0.07	0.1	1.7	0.09	0.04	72	0.7	0.05	8.1	2.73	<0.1	<0.02
612670	Soil	7.7	25.4	0.46	61.1	0.008	<1	1.66	0.002	0.06	0.1	0.7	0.11	0.05	27	0.4	0.06	5.3	2.98	<0.1	<0.02
612671	Soil	7.8	26.9	0.46	70.3	0.007	<1	1.71	<0.001	0.05	0.1	1.6	0.10	0.02	30	0.2	0.02	4.7	2.60	<0.1	<0.02
612672	Soil	15.6	24.8	0.46	151.0	0.006	1	1.69	0.003	0.06	<0.1	5.8	0.10	0.03	39	<0.1	0.03	4.9	2.26	<0.1	0.03
612673	Soil	11.4	26.0	0.49	203.5	0.007	1	1.80	0.002	0.05	0.1	2.5	0.11	0.05	23	0.3	0.04	6.0	2.84	<0.1	<0.02
612674	Soil	23.1	16.4	0.24	194.2	0.004	2	1.04	0.002	0.05	<0.1	3.0	0.06	0.08	58	0.5	0.08	2.6	1.08	<0.1	0.02
612675	Soil	20.1	18.5	0.18	185.6	0.004	2	1.15	0.002	0.04	<0.1	3.2	0.14	0.07	728	0.9	0.03	2.2	0.78	<0.1	0.03
612676	Soil	10.3	16.7	0.13	82.8	0.001	<1	0.43	0.002	0.05	<0.1	6.3	0.22	<0.02	897	1.1	0.02	1.3	0.31	<0.1	0.05
612677	Soil	13.7	13.6	0.21	178.8	0.003	2	0.61	0.002	0.06	<0.1	4.9	0.08	0.05	66	0.7	0.03	1.5	0.54	<0.1	0.05
612678	Soil	11.8	11.3	1.48	69.0	0.003	4	0.32	0.006	0.05	<0.1	4.0	0.17	0.06	397	1.2	<0.02	0.9	0.40	<0.1	0.06
612679	Soil	10.8	16.6	0.27	64.0	0.002	2	0.39	0.003	0.06	<0.1	5.8	0.24	0.06	335	1.6	<0.02	1.3	1.40	<0.1	0.06
612680	Soil	7.9	25.0	0.42	58.7	0.002	1	0.47	0.002	0.08	<0.1	8.3	0.15	0.06	557	0.7	0.03	1.7	5.47	<0.1	0.06
612681	Soil	5.9	13.0	0.18	25.2	<0.001	1	0.30	0.001	0.06	<0.1	5.1	0.13	<0.02	186	0.3	0.12	1.4	4.47	<0.1	<0.02
612682	Soil	5.4	16.6	0.12	40.2	<0.001	1	0.25	0.001	0.06	<0.1	7.7	0.18	<0.02	139	0.2	0.12	1.7	4.88	<0.1	0.06
612683	Soil	8.3	29.5	1.12	77.6	0.004	8	0.78	0.004	0.08	<0.1	6.6	0.16	0.06	152	0.5	0.02	2.8	4.72	<0.1	0.08
612684	Soil	6.1	12.3	0.15	19.9	<0.001	3	0.33	0.002	0.07	<0.1	6.0	0.10	<0.02	160	0.3	0.13	1.2	2.50	<0.1	0.03
612685	Soil	4.4	22.9	0.15	35.5	0.005	4	1.02	0.004	0.08	<0.1	2.3	0.26	0.06	254	1.4	0.07	4.1	15.36	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 26, 2011

Page: 5 of 6 Part 3

CERTIFICATE OF ANALYSIS

WHI11000952.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
612791	Soil	0.15	7.2	5.6	<0.05	0.9	18.26	18.5	<0.02	<1	0.8	22.3	<10	<2
612792	Soil	0.23	5.4	1.3	<0.05	1.4	15.54	22.4	0.02	<1	0.9	23.1	<10	<2
612793	Soil	0.13	8.8	2.1	<0.05	1.8	12.54	13.6	<0.02	1	1.2	18.8	<10	<2
612794	Soil	0.12	6.6	3.1	<0.05	2.0	14.42	16.7	0.03	<1	1.2	13.7	<10	<2
612795	Soil	0.26	7.8	2.6	<0.05	2.5	7.07	12.6	<0.02	<1	0.6	22.5	<10	<2
612796	Soil	0.32	5.7	3.5	<0.05	1.7	8.40	11.8	0.03	1	0.9	27.5	<10	<2
612662	Soil	0.37	10.3	5.9	<0.05	<0.1	2.55	7.5	<0.02	<1	0.5	11.5	<10	<2
612663	Soil	0.09	4.9	2.1	<0.05	0.9	13.27	12.5	0.03	<1	0.8	3.8	<10	<2
612664	Soil	0.30	10.4	3.5	<0.05	0.6	23.45	77.0	0.05	<1	1.0	9.5	<10	<2
612665	Soil	0.86	10.9	1.0	<0.05	0.2	2.53	14.6	0.04	<1	0.7	20.9	<10	<2
612666	Soil	0.24	7.3	2.6	<0.05	0.5	1.27	6.9	<0.02	<1	0.3	2.3	<10	<2
612667	Soil	0.38	16.1	1.2	<0.05	0.8	15.18	24.8	0.04	<1	0.9	31.1	<10	<2
612668	Soil	0.38	12.4	5.6	<0.05	<0.1	2.93	10.6	0.02	<1	0.5	8.7	<10	<2
612669	Soil	0.95	13.1	3.5	<0.05	0.5	2.53	13.7	<0.02	<1	0.7	25.5	<10	<2
612670	Soil	0.32	10.6	2.2	<0.05	0.3	3.81	16.0	0.03	<1	0.8	28.3	<10	<2
612671	Soil	0.47	9.6	0.9	<0.05	0.1	3.60	18.8	0.04	<1	0.6	43.0	<10	<2
612672	Soil	0.41	12.5	2.1	<0.05	0.8	19.13	42.0	0.04	<1	0.9	32.8	<10	<2
612673	Soil	0.57	10.2	1.7	<0.05	0.5	13.97	32.2	0.04	<1	1.0	29.8	<10	<2
612674	Soil	0.29	6.4	1.1	<0.05	0.7	19.57	45.1	0.04	<1	1.1	11.1	<10	<2
612675	Soil	0.34	6.7	0.8	<0.05	1.6	14.58	69.8	0.04	<1	1.1	9.4	<10	<2
612676	Soil	0.09	3.5	3.0	<0.05	2.7	17.17	18.9	0.05	1	0.8	5.9	<10	<2
612677	Soil	0.18	5.6	0.8	<0.05	1.5	14.39	29.1	0.05	1	0.9	4.6	<10	<2
612678	Soil	0.11	3.3	0.5	<0.05	2.4	13.54	26.3	0.02	<1	0.8	3.2	<10	<2
612679	Soil	0.09	4.2	1.0	<0.05	2.8	15.59	23.9	0.04	3	0.9	3.4	<10	<2
612680	Soil	0.09	7.4	1.7	<0.05	1.8	13.34	16.6	0.04	2	1.0	11.9	<10	<2
612681	Soil	0.02	5.6	1.9	<0.05	1.3	6.27	11.3	0.05	<1	1.2	5.7	<10	<2
612682	Soil	0.03	5.0	0.9	<0.05	3.9	4.16	12.8	0.07	<1	1.8	3.3	<10	<2
612683	Soil	0.10	6.6	7.0	<0.05	3.3	8.34	18.5	0.03	<1	0.5	26.7	<10	<2
612684	Soil	0.03	4.8	2.0	<0.05	1.0	6.29	10.2	0.04	<1	1.4	4.7	<10	<2
612685	Soil	0.25	11.1	3.1	<0.05	1.5	1.93	8.5	0.04	<1	0.4	10.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 26, 2011

Page: 6 of 6 Part 1

CERTIFICATE OF ANALYSIS

WHI11000952.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612686	Soil	0.64	61.38	82.95	99.0	35	30.6	16.1	568	4.28	32.0	0.6	2.3	2.5	35.5	0.08	1.26	0.51	19	0.30	0.044	
612687	Soil	0.87	26.93	20.48	71.9	32	21.7	9.9	290	3.45	14.5	0.6	1.5	2.5	12.6	0.07	0.49	0.35	28	0.08	0.027	
612688	Soil	0.50	35.74	25.09	112.8	98	43.9	16.2	571	3.59	919.0	0.9	3.3	2.0	46.8	0.19	1.33	0.39	19	0.60	0.045	
612689	Soil	0.59	30.21	22.94	108.1	39	32.9	14.1	487	3.66	63.9	0.8	1.6	4.8	38.3	0.17	0.63	0.30	19	0.34	0.051	
612690	Soil	2.07	30.06	23.44	105.2	345	25.2	10.7	320	2.43	403.4	3.6	9.4	1.4	70.9	0.40	2.66	0.26	32	0.76	0.040	
612691	Soil	0.83	30.09	26.05	87.5	109	26.6	12.8	357	3.15	28.7	1.8	1.0	2.6	54.9	0.28	0.58	0.33	24	0.94	0.047	
612692	Soil	0.64	39.00	25.47	76.1	107	26.9	13.1	313	2.64	26.4	1.6	0.7	1.7	107.5	0.15	0.66	0.36	13	1.68	0.053	
612693	Soil	0.66	48.36	24.29	81.5	105	31.0	15.9	291	2.73	34.5	2.3	0.7	3.5	73.5	0.15	0.77	0.39	15	1.10	0.044	
612694	Soil	0.42	45.64	24.52	90.9	101	32.6	15.8	308	2.97	26.3	0.9	2.4	4.6	71.4	0.11	0.44	0.43	14	0.83	0.031	
612695	Soil	0.53	42.33	21.30	80.5	136	31.8	14.8	367	2.85	26.4	1.2	2.0	3.3	89.5	0.14	0.53	0.34	15	1.30	0.038	
612696	Soil	0.43	35.90	17.37	71.4	143	25.6	12.1	365	2.30	20.2	1.4	1.5	2.3	101.0	0.15	0.45	0.30	13	1.55	0.046	
612697	Soil	0.69	34.92	30.54	93.2	141	29.6	17.9	718	3.24	145.7	1.5	3.6	2.4	86.7	0.12	1.03	0.37	15	1.17	0.054	
612698	Soil	0.70	47.59	28.75	123.2	88	38.9	18.5	603	3.88	167.3	1.3	4.7	2.9	62.7	0.15	1.48	0.34	15	0.77	0.050	
612699	Soil	0.57	45.88	26.32	109.0	93	37.5	17.3	455	3.79	110.7	0.7	4.4	2.6	59.0	0.10	1.02	0.38	14	0.65	0.040	
612700	Soil	0.69	45.46	31.68	99.8	97	39.5	19.2	660	3.64	138.8	1.1	2.3	3.0	55.8	0.13	1.02	0.38	14	0.72	0.040	
120762	Soil	0.58	38.73	26.39	86.3	84	32.1	16.7	407	3.63	16.3	0.9	0.4	3.5	35.3	0.07	0.53	0.32	17	0.31	0.046	



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 6 of 6 Part 2

CERTIFICATE OF ANALYSIS

WHI11000952.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
612686	Soil	7.0	15.9	0.20	56.9	0.005	3	0.70	0.003	0.08	<0.1	4.3	0.08	0.02	52	0.4	0.05	2.8	4.93	<0.1	0.03
612687	Soil	7.4	19.9	0.32	69.4	0.004	2	1.18	0.003	0.07	<0.1	2.2	0.08	<0.02	53	0.2	0.02	4.8	1.53	<0.1	<0.02
612688	Soil	6.7	22.3	0.25	83.4	0.003	3	0.75	0.003	0.06	<0.1	5.4	0.70	0.04	889	0.4	0.03	2.7	2.18	<0.1	0.08
612689	Soil	9.8	26.7	0.60	72.6	0.003	3	1.09	0.003	0.06	<0.1	5.7	0.09	<0.02	98	1.1	0.03	2.9	1.87	<0.1	0.05
612690	Soil	5.5	20.3	0.15	103.4	0.004	3	0.59	0.003	0.05	<0.1	3.2	0.35	0.03	480	0.8	0.02	2.0	0.55	<0.1	0.07
612691	Soil	12.9	20.1	0.21	91.1	0.006	2	0.96	0.004	0.07	<0.1	5.7	0.12	0.04	88	0.5	0.05	2.8	1.49	<0.1	0.05
612692	Soil	9.3	14.1	0.23	121.9	0.003	9	0.70	0.004	0.07	<0.1	6.0	0.08	0.07	114	0.3	0.03	1.8	1.46	<0.1	0.04
612693	Soil	10.3	17.8	0.25	148.9	0.003	8	0.97	0.004	0.09	<0.1	9.0	0.14	0.04	191	0.3	0.06	2.7	3.42	<0.1	0.09
612694	Soil	9.7	18.4	0.37	105.6	0.002	3	0.91	0.003	0.08	<0.1	8.7	0.09	0.03	94	0.5	0.07	2.6	2.47	<0.1	0.06
612695	Soil	9.5	17.5	0.31	97.4	0.002	6	0.78	0.004	0.07	<0.1	7.7	0.09	0.05	168	0.5	<0.02	2.1	1.59	<0.1	0.06
612696	Soil	7.0	15.2	0.28	106.1	0.002	6	0.77	0.004	0.07	<0.1	6.0	0.08	0.06	154	0.6	0.06	2.2	1.46	<0.1	0.07
612697	Soil	4.9	17.3	0.34	81.7	0.003	6	0.78	0.005	0.08	<0.1	5.1	0.34	0.06	327	0.4	0.06	2.5	3.87	<0.1	0.06
612698	Soil	5.7	15.7	0.40	55.1	0.002	3	0.64	0.004	0.07	<0.1	6.1	0.23	0.05	465	0.7	0.05	2.1	2.45	<0.1	0.06
612699	Soil	4.3	13.9	0.31	62.5	0.002	4	0.65	0.004	0.08	<0.1	5.6	0.19	0.03	299	0.4	0.04	2.0	2.24	<0.1	0.05
612700	Soil	5.3	17.7	0.35	84.7	0.001	4	0.78	0.003	0.07	<0.1	6.3	0.24	0.04	296	0.4	<0.02	2.4	2.00	<0.1	0.06
120762	Soil	6.2	22.9	0.56	47.1	0.003	3	1.34	0.004	0.07	<0.1	4.8	0.06	0.03	79	0.3	0.03	3.8	2.19	<0.1	0.07



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: August 26, 2011

Page: 6 of 6 Part 3

CERTIFICATE OF ANALYSIS

WHI11000952.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
612686	Soil	0.25	12.0	>100	<0.05	1.1	4.70	12.4	<0.02	<1	0.9	10.0	<10	<2
612687	Soil	0.32	11.5	1.8	<0.05	1.2	2.70	15.3	0.03	<1	0.4	27.6	<10	<2
612688	Soil	0.23	7.5	2.3	<0.05	2.4	8.71	12.9	0.04	<1	0.5	14.7	<10	<2
612689	Soil	0.18	6.8	2.4	<0.05	2.0	8.74	23.8	0.03	<1	0.9	30.0	<10	<2
612690	Soil	0.26	5.1	2.3	<0.05	1.7	5.94	12.9	0.03	<1	0.5	5.2	<10	<2
612691	Soil	0.43	8.5	1.2	<0.05	1.5	16.20	34.0	0.04	<1	0.5	12.5	<10	<2
612692	Soil	0.19	6.6	5.3	<0.05	2.0	19.81	18.2	0.05	<1	0.8	11.8	<10	<2
612693	Soil	0.19	10.1	3.7	<0.05	3.1	20.72	21.7	0.05	<1	0.9	15.8	<10	<2
612694	Soil	0.18	7.3	1.0	<0.05	2.4	20.31	23.1	0.05	<1	1.1	21.1	<10	<2
612695	Soil	0.22	6.4	2.5	<0.05	2.3	17.11	24.5	0.05	<1	0.7	15.0	<10	<2
612696	Soil	0.23	6.0	0.7	<0.05	2.3	12.54	17.1	0.04	<1	0.8	14.9	<10	<2
612697	Soil	0.16	9.5	3.9	<0.05	2.3	8.24	12.2	0.02	<1	0.4	19.2	<10	<2
612698	Soil	0.09	5.1	1.9	<0.05	2.2	9.59	14.3	0.04	<1	1.0	19.5	<10	<2
612699	Soil	0.12	5.9	1.9	<0.05	2.0	7.77	10.0	0.04	<1	0.9	19.7	<10	<2
612700	Soil	0.13	5.9	4.9	<0.05	2.3	10.48	14.4	0.03	<1	1.3	23.1	<10	<2
120762	Soil	0.14	7.1	2.0	<0.05	2.6	8.49	18.9	0.03	<1	0.8	40.9	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: August 26, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

WHI11000952.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
121589	Soil	0.54	31.32	21.05	78.2	111	29.0	10.1	284	3.22	31.0	1.3	4.1	2.8	49.4	0.11	0.56	0.31	21	0.71	0.054
REP 121589	QC	0.55	31.31	20.74	78.7	113	28.8	9.9	283	3.24	30.8	1.3	3.9	2.9	49.3	0.11	0.57	0.31	21	0.70	0.056
121694	Soil	0.82	43.24	29.59	124.1	153	45.1	20.1	672	3.41	34.4	1.3	7.1	4.4	81.7	0.20	0.80	0.31	20	1.17	0.057
REP 121694	QC	0.86	43.40	31.24	128.0	154	46.0	19.8	685	3.45	35.5	1.4	7.8	4.7	83.5	0.18	0.83	0.32	20	1.19	0.059
612348	Soil	0.98	19.95	21.00	73.6	131	15.2	7.5	514	2.84	8.8	0.5	0.6	0.1	15.8	0.16	0.44	0.28	32	0.14	0.086
REP 612348	QC	1.00	22.00	21.70	79.1	146	16.9	7.9	549	3.12	9.3	0.5	2.8	0.1	16.9	0.18	0.46	0.30	33	0.15	0.094
612775	Soil	0.38	46.49	26.02	118.0	61	64.6	22.2	912	4.08	10.8	0.4	4.6	2.4	95.4	0.17	0.29	0.33	17	0.59	0.030
REP 612775	QC	0.43	47.65	26.99	126.8	73	67.4	22.9	968	4.29	11.7	0.4	4.9	2.7	107.8	0.16	0.34	0.35	18	0.62	0.034
612782	Soil	0.54	56.93	29.85	124.1	77	55.1	20.3	645	4.23	37.7	0.8	10.3	3.9	53.9	0.24	1.52	0.66	17	0.41	0.049
REP 612782	QC	0.50	56.08	26.18	126.9	81	54.6	20.0	583	4.24	39.5	0.7	4.1	3.5	53.4	0.17	1.33	0.49	16	0.41	0.049
612679	Soil	0.88	38.63	23.93	117.7	137	41.4	15.8	448	3.30	92.0	1.7	15.1	2.1	72.1	0.26	3.18	0.32	17	0.78	0.089
REP 612679	QC	0.86	38.14	24.69	120.1	139	42.4	16.2	448	3.30	92.8	1.8	16.3	2.2	76.7	0.25	3.24	0.33	17	0.78	0.087
612685	Soil	1.02	65.09	39.20	55.7	146	11.4	6.4	266	6.00	26.7	0.4	3.0	2.8	16.5	0.06	0.65	0.54	17	0.02	0.064
REP 612685	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
Reference Materials																					
STD DS8	Standard	13.59	107.6	125.1	308.1	1695	38.1	7.2	611	2.45	23.6	2.7	116.1	6.6	62.8	2.15	5.07	6.47	41	0.69	0.076
STD DS8	Standard	13.47	109.1	128.0	310.4	1784	36.7	7.5	624	2.47	25.3	2.3	113.2	5.6	61.7	2.38	5.00	5.88	41	0.71	0.079
STD DS8	Standard	14.15	113.9	133.5	339.8	1851	39.1	7.9	681	2.64	28.0	3.1	116.8	7.8	77.1	2.49	5.23	7.60	43	0.77	0.086
STD DS8	Standard	12.19	110.6	118.8	311.5	1671	38.1	7.7	594	2.46	25.5	2.6	102.2	6.4	60.9	2.24	5.15	6.34	41	0.70	0.073
STD DS8	Standard	12.76	113.2	120.0	302.6	1673	39.5	7.7	602	2.42	25.2	2.8	111.7	7.0	69.8	2.32	5.88	6.97	39	0.68	0.078
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 26, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

WHI11000952.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
121589	Soil	8.5	23.5	0.44	101.2	0.003	2	1.23	0.002	0.07	<0.1	4.1	0.10	0.04	179	0.3	0.04	3.6	1.11	<0.1	0.08
REP 121589	QC	8.7	23.0	0.46	104.2	0.002	2	1.22	0.002	0.07	<0.1	4.2	0.10	0.04	184	0.3	0.02	3.6	1.10	<0.1	0.09
121694	Soil	16.4	27.3	0.90	122.4	0.002	4	0.76	0.003	0.09	<0.1	5.8	0.28	0.03	208	0.8	0.02	2.4	8.05	<0.1	0.05
REP 121694	QC	16.9	27.8	0.91	123.0	0.002	4	0.79	0.003	0.09	<0.1	6.1	0.30	0.03	200	0.8	<0.02	2.6	8.68	<0.1	0.05
612348	Soil	5.6	17.2	0.16	155.5	0.003	2	1.03	0.002	0.07	<0.1	0.3	0.10	0.06	57	0.5	0.09	4.5	2.65	<0.1	<0.02
REP 612348	QC	5.9	18.7	0.16	166.0	0.003	1	1.11	0.002	0.07	<0.1	0.3	0.10	0.07	46	0.5	0.03	4.8	2.72	<0.1	<0.02
612775	Soil	5.0	21.0	0.43	62.1	<0.001	<1	0.32	0.001	0.07	<0.1	6.6	0.15	0.07	64	0.8	0.03	1.6	5.77	<0.1	0.04
REP 612775	QC	6.2	22.4	0.43	69.4	<0.001	2	0.37	0.001	0.08	<0.1	6.7	0.18	0.07	77	1.0	0.03	1.7	7.35	<0.1	0.03
612782	Soil	7.7	20.3	0.42	45.1	0.003	4	0.51	0.001	0.07	<0.1	7.1	0.17	<0.02	131	0.4	0.04	1.6	3.23	<0.1	0.06
REP 612782	QC	7.5	20.7	0.43	46.3	0.003	2	0.52	0.002	0.07	<0.1	7.3	0.12	0.03	106	0.3	0.03	1.8	3.17	<0.1	0.05
612679	Soil	10.8	16.6	0.27	64.0	0.002	2	0.39	0.003	0.06	<0.1	5.8	0.24	0.06	335	1.6	<0.02	1.3	1.40	<0.1	0.06
REP 612679	QC	11.3	16.8	0.27	68.2	0.002	3	0.39	0.003	0.07	<0.1	5.9	0.26	0.06	339	1.6	0.04	1.3	1.43	<0.1	0.06
612685	Soil	4.4	22.9	0.15	35.5	0.005	4	1.02	0.004	0.08	<0.1	2.3	0.26	0.06	254	1.4	0.07	4.1	15.36	<0.1	0.05
REP 612685	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
Reference Materials																					
STD DS8	Standard	14.6	118.4	0.60	268.3	0.111	2	0.89	0.081	0.39	2.9	2.0	5.56	0.16	199	5.4	4.91	4.6	2.49	<0.1	0.08
STD DS8	Standard	14.5	116.1	0.60	274.2	0.113	2	0.90	0.084	0.41	3.0	2.1	5.47	0.16	203	5.3	4.74	4.6	2.39	0.2	0.09
STD DS8	Standard	18.3	128.0	0.65	314.5	0.123	2	0.98	0.092	0.44	3.2	2.3	5.84	0.17	210	5.8	5.20	5.2	2.70	<0.1	0.09
STD DS8	Standard	14.4	119.3	0.59	252.8	0.119	3	0.87	0.084	0.41	2.7	2.3	5.19	0.17	193	4.7	4.63	4.5	2.39	0.1	0.08
STD DS8	Standard	14.9	118.4	0.60	263.3	0.116	2	0.87	0.080	0.40	2.9	2.1	5.10	0.16	178	4.5	4.58	4.5	2.41	<0.1	0.07
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: August 26, 2011

Page: 1 of 1 Part 3

QUALITY CONTROL REPORT

WHI11000952.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
121589	Soil	0.28	7.1	1.6	<0.05	3.1	10.27	16.8	0.04	<1	1.0	31.6	<10	<2
REP 121589	QC	0.27	6.8	1.3	<0.05	3.0	10.13	17.3	0.03	<1	1.0	30.6	<10	<2
121694	Soil	0.09	8.9	3.3	<0.05	2.0	10.01	35.4	0.04	<1	1.0	24.2	<10	<2
REP 121694	QC	0.09	9.3	4.3	<0.05	2.0	10.40	36.4	0.04	<1	1.1	24.9	<10	<2
612348	Soil	0.19	14.7	3.3	<0.05	<0.1	3.36	13.4	0.03	<1	0.8	12.7	<10	<2
REP 612348	QC	0.21	15.6	2.5	<0.05	0.1	3.63	13.7	0.02	<1	0.7	14.3	<10	<2
612775	Soil	0.03	6.6	1.9	<0.05	1.5	7.28	12.6	0.03	<1	1.3	5.6	15	<2
REP 612775	QC	0.04	7.4	2.3	<0.05	1.2	7.71	14.8	0.04	<1	1.3	6.5	12	<2
612782	Soil	0.12	5.9	2.3	<0.05	1.8	9.75	15.4	0.07	<1	1.1	12.3	<10	<2
REP 612782	QC	0.07	6.2	2.3	<0.05	1.8	9.51	15.0	0.03	2	0.8	11.1	<10	<2
612679	Soil	0.09	4.2	1.0	<0.05	2.8	15.59	23.9	0.04	3	0.9	3.4	<10	<2
REP 612679	QC	0.10	4.7	1.4	<0.05	1.9	15.61	25.2	0.06	<1	0.6	4.0	<10	<2
612685	Soil	0.25	11.1	3.1	<0.05	1.5	1.93	8.5	0.04	<1	0.4	10.1	<10	<2
REP 612685	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
Reference Materials														
STD DS8	Standard	1.25	38.1	6.4	<0.05	1.7	5.70	27.9	2.18	55	5.4	27.3	118	333
STD DS8	Standard	1.21	38.4	6.7	<0.05	2.1	5.60	27.4	2.19	44	6.2	27.1	121	336
STD DS8	Standard	1.36	42.7	7.6	<0.05	2.3	6.89	32.6	2.50	56	5.7	29.8	124	370
STD DS8	Standard	1.27	37.6	6.3	<0.05	2.0	5.95	25.1	2.15	48	5.6	25.1	92	337
STD DS8	Standard	1.24	36.8	6.6	<0.05	1.9	5.94	25.8	2.15	49	4.4	25.9	111	312
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



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Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: July 29, 2011
Report Date: September 12, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI11000953.2

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-16
P.O. Number: NA-10337
Number of Samples: 1

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	1	Crush, split and pulverize 250 g rock to 200 mesh			WHI
3B01	1	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX1	1	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

ADDITIONAL COMMENTS

Version 2: Received weight included.

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: David Clark
Simon Ridgway
database backup
Scott Turton



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

WHI11000953.2

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
118638	Rock	0.51	11	0.2	36.3	19.4	130	<0.1	40.1	15.1	641	4.24	30.8	1.8	3.7	17	<0.1	<0.1	0.5	17	0.01



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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

WHI11000953.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
118638	Rock	0.030	3	30	0.28	53	0.002	<20	0.79	0.003	0.16	<0.1	0.04	4.3	<0.1	<0.05	4	0.7	<0.2



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830 - 355 Burrard St.
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Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

WHI11000953.2

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Reference Materials																				
STD DS8	Standard		12.5	109.6	143.3	326	1.9	39.1	7.8	641	2.57	27.8	92.8	7.5	75	2.4	4.4	7.4	40	0.70
STD OREAS45CA	Standard		0.7	480.3	21.1	60	0.2	212.7	86.8	884	14.35	3.5	36.4	7.2	17	<0.1	<0.1	0.2	185	0.40
STD OXC88	Standard	214																		
STD OXH82	Standard	1405																		
STD OXC88 Expected		203																		
STD OXH82 Expected		1278																		
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7
STD OREAS45CA Expected			1	494	20	60	0.275	240	92	943	15.69	3.8	43	7	15	0.1	0.13	0.19	215	0.4265
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																				
G1	Prep Blank	8	0.2	2.7	3.5	47	<0.1	2.7	3.8	576	2.01	57.2	<0.5	5.7	74	<0.1	<0.1	0.1	34	0.46



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830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: September 12, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

WHI11000953.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Reference Materials																			
STD DS8 Standard	0.086	13	118	0.63	305	0.112	<20	0.92	0.088	0.42	2.8	0.20	1.8	5.4	0.17	5	5.9	4.6	
STD OREAS45CA Standard	0.034	16	588	0.13	158	0.118	<20	3.34	0.013	0.07	<0.1	0.02	32.1	<0.1	<0.05	17	0.6	<0.2	
STD OXC88 Standard																			
STD OXH82 Standard																			
STD OXC88 Expected																			
STD OXH82 Expected																			
STD DS8 Expected	0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5	
STD OREAS45CA Expected	0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	39.7	0.07	0.021	18.4	0.5		
BLK Blank																			
BLK Blank																			
BLK Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
Prep Wash																			
G1 Prep Blank	0.077	11	6	0.51	154	0.120	<20	0.90	0.088	0.47	<0.1	0.02	1.7	0.3	<0.05	5	<0.5	<0.2	



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Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 06, 2011
Report Date: September 13, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001025.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-18
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: database backup
Simon Ridgway
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, 1F05, and RJSV.

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
119616	Soil			0.47	24.71	20.44	232.3	104	19.2	7.6	492	3.04	22.0	2.3	1.7	1.0	95.4	0.64	1.99	0.26	17	1.61	0.157
119617	Soil			0.34	25.61	22.07	121.1	94	17.8	10.1	617	2.60	15.9	1.1	0.9	1.0	94.3	0.53	1.00	0.26	15	1.56	0.119
119618	Soil			0.59	30.33	21.40	89.0	149	28.8	10.7	850	3.50	20.8	2.2	1.8	1.5	71.2	0.31	0.94	0.26	21	1.08	0.086
119619	Soil			0.65	27.82	13.46	95.8	104	23.2	8.8	393	2.86	24.1	1.2	1.5	1.6	47.7	0.31	1.26	0.22	21	0.30	0.077
119620	Soil			0.66	29.81	22.18	140.8	127	18.2	15.4	856	2.40	13.1	3.2	1.0	1.2	153.0	0.44	0.56	0.28	16	2.24	0.170
119621	Soil			0.62	27.95	21.73	72.2	159	20.3	11.0	996	2.96	14.8	3.9	0.7	1.5	94.2	0.34	0.58	0.29	21	1.40	0.159
119622	Soil			0.62	29.41	19.77	76.7	152	22.1	11.3	1143	3.64	49.8	2.6	0.6	1.9	69.5	0.25	0.43	0.30	27	0.96	0.124
119623	Soil			0.71	21.32	16.49	97.5	45	15.1	11.1	984	3.11	22.3	0.4	0.7	0.5	10.2	0.35	0.50	0.37	27	0.07	0.039
119624	Soil			0.79	29.61	14.40	70.0	110	16.2	7.6	422	2.49	20.0	6.2	1.5	0.8	82.4	0.21	0.48	0.31	27	0.92	0.071
119625	Soil			0.58	32.09	14.23	58.8	190	17.9	8.0	547	2.11	42.3	1.4	0.7	1.4	120.8	0.60	0.46	0.27	18	1.61	0.148
119626	Soil			0.58	27.32	23.07	58.2	142	21.0	9.7	324	2.93	46.0	1.0	1.4	1.8	46.5	0.05	0.45	0.26	16	0.39	0.052
119627	Soil			0.55	31.01	17.94	87.9	217	21.0	8.1	328	2.72	192.9	4.2	2.2	1.4	84.1	0.21	0.98	0.27	18	0.89	0.100
119628	Soil			0.50	23.75	18.73	99.1	99	16.4	8.3	692	2.63	17.2	2.2	1.3	1.3	68.1	0.40	1.14	0.33	12	1.13	0.143
119629	Soil			0.29	38.09	32.28	91.6	107	27.4	16.4	883	3.15	18.6	1.1	2.0	3.9	34.2	0.12	0.49	0.50	7	0.49	0.054
119630	Soil			0.73	31.89	29.81	102.3	89	27.0	14.7	879	4.03	13.8	2.0	0.7	2.9	59.4	0.20	0.44	0.37	19	0.82	0.109
119631	Soil			0.68	28.11	17.11	69.7	49	20.4	9.2	254	3.23	37.2	0.5	11.8	1.0	11.0	0.08	0.89	0.37	24	0.04	0.051
119632	Soil			0.57	52.79	47.49	83.5	185	21.2	8.7	143	5.26	10.5	0.6	1.0	2.6	16.4	0.06	0.42	0.46	16	0.11	0.032
119633	Soil			0.38	41.14	32.47	188.3	209	36.7	17.1	604	3.99	18.7	0.5	1.8	2.1	19.7	0.28	0.62	0.41	17	0.16	0.021
119634	Soil			0.42	40.49	21.28	95.8	32	26.5	12.9	336	3.62	14.5	0.5	1.1	2.1	11.1	0.06	0.64	0.34	21	0.06	0.031
119635	Soil			0.47	18.00	33.07	59.4	60	17.7	12.5	805	2.17	187.1	0.5	34.0	1.2	14.8	0.14	0.81	0.21	14	0.20	0.055
119636	Soil			3.16	18.67	42.52	69.0	84	18.1	12.4	1324	2.32	191.8	0.5	47.6	1.8	20.6	0.21	1.17	0.27	15	0.49	0.058
119637	Soil			0.40	36.36	30.58	112.4	187	30.9	12.9	811	3.54	18.0	1.0	2.8	1.4	87.3	0.31	2.64	0.29	11	1.33	0.080
119638	Soil			0.49	28.35	25.15	74.5	139	25.6	10.5	322	3.43	13.6	0.8	3.4	2.7	79.2	0.10	0.81	0.30	13	1.10	0.062
119639	Soil			0.39	32.93	20.59	75.6	197	23.5	11.9	452	2.86	7.6	1.1	1.2	1.0	129.4	0.16	0.32	0.24	12	2.41	0.095
119640	Soil			0.65	28.43	25.61	68.8	194	23.6	13.4	576	3.26	8.7	1.1	1.1	1.3	130.7	0.14	0.35	0.27	14	2.24	0.099
119641	Soil			0.50	29.14	22.08	76.7	213	24.8	13.3	477	3.15	7.7	1.0	1.0	2.4	73.5	0.13	0.27	0.28	16	1.12	0.062
119642	Soil			0.86	23.10	38.04	73.7	119	20.2	13.1	287	3.64	25.6	0.5	1.1	2.0	20.6	0.06	0.53	0.32	17	0.18	0.041
119643	Soil			0.42	33.08	17.62	61.9	177	25.7	10.5	357	2.02	13.2	1.4	2.4	0.7	285.1	0.13	0.35	0.22	11	2.39	0.073
119644	Soil			0.34	21.26	17.35	74.9	130	18.2	8.2	270	2.30	13.0	1.1	2.2	1.0	112.9	0.10	0.28	0.22	12	1.05	0.048
119645	Soil			0.35	23.68	18.60	85.7	145	18.2	9.5	404	2.30	12.6	1.2	1.2	1.2	118.5	0.14	0.28	0.25	14	1.38	0.056



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
119616	Soil	13.7	12.8	0.14	133.9	0.003	3	0.86	0.003	0.07	<0.1	3.3	0.08	0.12	95	0.3	0.03	1.7	1.03	<0.1	0.04
119617	Soil	17.9	12.5	0.14	192.1	0.003	2	0.89	0.003	0.08	<0.1	3.2	0.05	0.08	98	0.2	0.05	1.8	0.53	<0.1	<0.02
119618	Soil	14.6	20.9	0.24	164.1	0.002	1	1.04	0.003	0.08	<0.1	4.3	0.09	0.06	210	0.4	0.03	2.5	1.10	<0.1	0.05
119619	Soil	8.9	22.1	0.20	113.4	0.002	1	0.82	0.003	0.10	<0.1	2.9	0.11	0.05	164	0.4	0.03	2.5	1.19	<0.1	0.05
119620	Soil	17.7	15.6	0.35	114.7	0.004	7	1.14	0.005	0.08	<0.1	3.4	0.08	0.20	100	0.4	0.05	2.8	2.74	<0.1	0.05
119621	Soil	23.6	19.8	0.34	114.4	0.004	2	1.56	0.003	0.07	<0.1	4.2	0.08	0.11	75	0.2	0.04	4.1	2.26	<0.1	0.06
119622	Soil	18.4	23.1	0.38	136.3	0.004	2	1.68	0.002	0.09	<0.1	6.0	0.10	0.08	77	0.1	0.03	4.6	1.84	<0.1	0.03
119623	Soil	4.6	11.4	0.09	117.1	0.005	1	0.67	<0.001	0.08	<0.1	2.0	0.06	<0.02	20	0.2	0.04	2.9	2.17	<0.1	<0.02
119624	Soil	5.1	18.4	0.31	173.2	0.007	2	1.10	0.003	0.05	<0.1	2.6	0.08	0.06	53	0.4	0.04	3.5	1.12	<0.1	0.03
119625	Soil	8.0	14.6	0.34	213.8	0.004	2	1.06	0.005	0.06	<0.1	4.3	0.09	0.13	84	0.4	0.03	2.7	2.99	<0.1	0.07
119626	Soil	6.1	17.0	0.30	90.2	0.003	2	0.99	0.002	0.05	<0.1	3.6	0.07	0.04	78	0.4	0.03	2.4	2.23	<0.1	0.05
119627	Soil	9.9	18.1	0.31	118.0	0.003	2	1.08	0.002	0.06	<0.1	3.7	0.08	0.07	131	0.5	0.04	2.7	1.62	<0.1	0.07
119628	Soil	11.4	10.8	0.11	136.0	0.002	1	0.75	0.003	0.04	<0.1	3.6	0.05	0.10	75	0.3	0.04	1.4	0.53	<0.1	0.06
119629	Soil	15.7	9.8	0.10	92.2	<0.001	1	0.48	0.002	0.04	<0.1	10.3	0.05	0.03	104	0.1	0.09	0.8	1.74	<0.1	0.06
119630	Soil	21.1	18.8	0.31	129.5	0.003	2	1.28	0.002	0.04	<0.1	10.3	0.07	0.06	72	0.3	0.06	3.2	2.58	<0.1	0.06
119631	Soil	6.3	13.9	0.11	80.9	0.002	<1	1.01	<0.001	0.05	<0.1	2.7	0.13	0.02	74	0.3	0.04	2.9	1.64	<0.1	0.03
119632	Soil	3.7	21.7	0.23	54.7	0.002	2	1.05	0.001	0.08	<0.1	4.9	0.11	0.02	107	0.4	0.03	3.8	9.23	<0.1	0.03
119633	Soil	4.0	12.5	0.08	107.8	<0.001	2	0.37	0.002	0.06	<0.1	7.7	0.10	<0.02	229	0.2	0.05	1.3	1.72	<0.1	0.03
119634	Soil	4.8	14.6	0.15	64.4	0.002	<1	0.48	0.001	0.05	<0.1	3.7	0.06	<0.02	42	0.2	0.03	2.2	2.42	<0.1	<0.02
119635	Soil	4.2	7.9	0.07	74.4	0.002	1	0.41	0.002	0.06	<0.1	2.9	0.08	0.03	39	0.2	0.06	1.5	3.39	<0.1	<0.02
119636	Soil	5.6	11.1	0.11	88.9	0.003	2	0.61	0.003	0.07	<0.1	3.2	0.15	0.05	89	0.4	<0.02	2.0	1.72	<0.1	0.02
119637	Soil	7.6	11.9	0.13	139.6	0.002	3	0.75	0.003	0.06	<0.1	6.5	0.09	0.07	115	0.5	0.04	2.2	2.35	<0.1	0.03
119638	Soil	8.5	14.8	0.22	140.9	0.002	2	0.88	0.003	0.05	<0.1	6.5	0.09	0.06	110	0.4	0.04	2.5	1.82	<0.1	0.05
119639	Soil	6.3	13.1	0.26	126.9	0.002	6	0.71	0.003	0.05	<0.1	3.8	0.08	0.12	104	0.7	0.04	2.0	0.96	<0.1	0.04
119640	Soil	7.3	16.7	0.29	119.9	0.002	4	0.88	0.004	0.05	<0.1	3.7	0.08	0.12	83	0.5	0.04	2.3	1.19	<0.1	0.04
119641	Soil	9.1	18.7	0.32	110.2	0.002	3	1.08	0.002	0.06	<0.1	6.7	0.08	0.06	108	0.5	0.03	2.8	1.12	<0.1	0.05
119642	Soil	2.5	16.6	0.16	41.2	0.001	1	0.85	0.002	0.06	<0.1	3.5	0.08	0.03	42	0.3	0.05	2.8	2.00	<0.1	<0.02
119643	Soil	4.8	13.3	0.31	107.1	0.002	9	0.73	0.004	0.05	<0.1	3.1	0.11	0.10	160	1.0	0.03	1.8	1.37	<0.1	0.04
119644	Soil	3.9	13.7	0.25	89.2	0.002	2	0.84	0.003	0.04	<0.1	3.2	0.09	0.07	131	0.5	0.02	2.3	1.23	<0.1	0.03
119645	Soil	4.5	15.6	0.28	93.3	0.002	3	0.89	0.003	0.05	<0.1	3.6	0.07	0.07	122	0.5	0.04	2.6	0.97	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 2 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
119616	Soil	0.31	14.0	0.4	<0.05	1.4	18.12	23.8	0.04	<1	1.2	5.0	<10	<2
119617	Soil	0.27	6.9	1.3	<0.05	0.8	18.85	38.9	0.04	<1	1.2	5.9	<10	<2
119618	Soil	0.22	6.5	4.4	<0.05	1.4	19.90	32.6	0.04	<1	1.2	10.8	<10	<2
119619	Soil	0.21	8.4	1.7	<0.05	1.2	5.26	23.1	0.03	<1	0.5	9.1	<10	<2
119620	Soil	0.34	8.9	1.6	<0.05	1.4	28.38	33.0	0.04	<1	1.1	16.6	<10	<2
119621	Soil	0.36	10.0	0.9	<0.05	1.5	39.39	37.5	0.04	<1	1.7	22.5	<10	<2
119622	Soil	0.32	10.4	1.8	<0.05	0.8	32.69	37.6	0.04	<1	1.3	29.2	<10	<2
119623	Soil	0.32	12.9	1.5	<0.05	<0.1	2.62	9.7	0.04	<1	0.4	6.5	<10	<2
119624	Soil	0.58	11.4	1.5	<0.05	0.9	4.87	8.2	0.04	<1	0.7	21.5	<10	<2
119625	Soil	0.43	13.7	1.5	<0.05	1.6	16.07	13.1	0.03	<1	1.0	10.2	<10	<2
119626	Soil	0.20	8.8	2.7	<0.05	1.7	11.50	13.2	0.03	1	0.9	24.0	<10	<2
119627	Soil	0.27	13.1	1.3	<0.05	1.6	16.34	13.2	0.03	<1	1.1	21.9	<10	<2
119628	Soil	0.18	7.4	0.4	<0.05	1.5	16.56	21.8	0.03	<1	1.1	3.6	<10	<2
119629	Soil	0.04	6.3	1.0	<0.05	2.2	30.47	24.0	0.05	<1	1.4	6.4	<10	<2
119630	Soil	0.19	10.7	2.2	<0.05	1.5	34.07	43.5	0.06	<1	1.5	31.0	<10	<2
119631	Soil	0.17	9.2	0.8	<0.05	0.6	5.81	12.6	0.04	<1	0.7	8.4	<10	<2
119632	Soil	0.12	9.9	1.4	<0.05	1.0	4.25	8.3	0.05	<1	0.9	25.2	<10	<2
119633	Soil	0.04	6.1	2.5	<0.05	1.0	18.33	10.1	0.05	<1	1.3	4.5	<10	<2
119634	Soil	0.08	6.2	0.9	<0.05	0.2	3.54	9.8	0.04	<1	0.8	10.8	<10	<2
119635	Soil	0.09	8.9	0.9	<0.05	0.5	5.37	9.5	0.03	<1	0.7	4.3	<10	<2
119636	Soil	0.19	8.3	1.4	<0.05	0.9	5.77	12.5	0.02	<1	0.7	10.5	<10	<2
119637	Soil	0.17	11.3	0.6	<0.05	1.0	20.84	16.1	0.05	<1	1.0	14.0	<10	<2
119638	Soil	0.24	8.4	1.4	<0.05	1.4	16.04	19.5	0.04	<1	0.9	23.6	<10	<2
119639	Soil	0.16	5.5	1.7	<0.05	1.1	14.16	15.2	0.04	<1	0.9	21.8	<10	<2
119640	Soil	0.19	5.9	2.1	<0.05	1.1	16.30	20.1	0.04	<1	1.0	25.8	<10	<2
119641	Soil	0.17	6.7	2.4	<0.05	1.3	20.01	23.0	0.05	<1	0.9	33.4	<10	<2
119642	Soil	0.17	8.9	3.4	<0.05	0.9	4.24	7.1	0.04	<1	0.6	20.5	<10	<2
119643	Soil	0.23	8.7	1.1	<0.05	1.5	12.27	10.0	0.03	<1	0.8	24.1	<10	<2
119644	Soil	0.19	9.0	0.7	<0.05	1.1	7.30	8.8	0.03	<1	0.6	25.3	<10	<2
119645	Soil	0.26	7.6	0.6	<0.05	1.3	7.98	10.6	0.03	<1	0.7	28.0	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
119646	Soil			0.34	30.97	20.06	85.7	208	20.1	10.5	473	2.40	13.3	1.5	1.8	1.1	212.1	0.16	0.38	0.24	15	1.78	0.070
119647	Soil			0.31	22.57	19.53	78.6	123	18.8	8.6	258	2.29	12.2	1.4	2.2	1.4	220.5	0.12	0.27	0.25	14	1.65	0.046
119648	Soil			0.40	21.53	20.81	80.5	131	18.7	8.8	307	2.51	10.8	1.0	1.6	1.4	190.0	0.10	0.27	0.26	13	1.62	0.058
119649	Soil			0.27	25.40	17.04	79.5	132	21.3	9.5	311	2.47	12.3	0.7	1.6	1.5	125.5	0.11	0.28	0.22	14	0.95	0.047
119767	Soil			0.55	38.62	44.71	88.0	193	30.0	22.1	499	3.44	11.1	0.4	1.2	2.8	154.8	0.14	0.61	0.39	12	1.90	0.033
119768	Soil			0.44	32.75	31.75	90.4	157	24.9	16.0	808	3.28	7.1	1.4	0.7	1.6	121.2	0.30	0.35	0.31	11	2.34	0.087
119769	Soil			0.65	37.44	30.38	86.0	316	30.9	17.4	273	3.79	12.3	1.0	1.9	2.7	72.5	0.12	0.43	0.31	12	1.42	0.069
119770	Soil			0.59	27.04	30.69	71.5	202	27.1	14.5	441	3.75	14.4	1.5	0.7	2.7	59.4	0.10	0.43	0.29	14	1.03	0.057
119771	Soil			0.45	28.97	25.76	63.5	247	24.1	9.7	260	2.65	9.3	1.4	0.8	1.2	130.0	0.07	0.39	0.25	9	2.20	0.067
119772	Soil			0.32	24.78	23.54	59.8	192	21.9	9.0	165	2.38	5.2	0.8	1.0	1.8	60.8	0.05	0.21	0.25	8	0.90	0.035
119773	Soil			0.48	24.92	28.46	71.8	197	21.4	10.2	366	2.82	9.0	0.8	1.2	1.6	94.6	0.06	0.45	0.29	10	1.11	0.057
119774	Soil			0.38	23.16	23.96	75.8	191	19.7	9.8	315	2.60	8.9	1.1	1.0	1.0	134.4	0.07	0.41	0.26	9	1.43	0.056
119775	Soil			0.38	25.73	28.05	79.8	192	22.4	10.1	261	2.84	10.7	1.0	1.2	1.7	65.1	0.09	0.36	0.29	11	0.91	0.045
119776	Soil			0.40	22.92	22.98	83.1	135	21.0	8.8	226	2.62	14.2	0.9	2.9	1.5	66.5	0.11	0.33	0.32	13	0.88	0.045
119777	Soil			0.33	24.16	23.51	86.5	134	22.1	9.3	274	2.45	8.0	0.7	2.1	1.5	94.9	0.08	0.27	0.30	10	1.06	0.045
119778	Soil			0.28	18.41	20.45	75.4	100	21.6	8.5	217	2.42	6.9	0.5	1.2	1.8	64.6	0.08	0.21	0.27	9	0.74	0.029
119779	Soil			0.33	20.29	24.33	83.2	139	22.1	9.8	239	2.66	7.9	0.8	1.1	2.1	69.1	0.10	0.25	0.32	11	0.65	0.033
120122	Soil			0.66	38.41	40.33	91.8	208	36.8	14.8	478	3.82	17.8	0.7	1.0	2.3	87.4	0.11	0.45	0.33	13	1.48	0.065
120123	Soil			0.58	34.57	27.04	76.0	78	29.0	11.0	310	2.94	20.8	0.7	4.6	1.7	59.4	0.11	1.25	0.32	11	0.88	0.050
120124	Soil			0.26	38.76	22.83	59.8	263	23.5	10.0	230	2.21	3.7	1.1	1.4	2.7	127.0	0.08	0.28	0.29	12	1.25	0.068
120125	Soil			0.35	27.34	15.87	54.9	198	18.2	8.7	305	2.03	4.7	1.4	1.2	0.9	144.2	0.13	0.23	0.22	12	2.32	0.065
120126	Soil			0.44	24.43	19.00	67.1	188	21.1	10.0	305	2.55	15.1	1.5	1.2	1.3	99.2	0.16	0.33	0.25	15	1.94	0.054
120127	Soil			0.37	28.52	21.04	73.8	170	26.1	11.6	377	2.69	13.0	1.3	1.2	2.1	82.5	0.16	0.35	0.31	16	1.39	0.049
120128	Soil			0.46	37.33	20.37	83.2	203	23.7	11.8	601	2.61	15.8	1.9	2.1	1.4	112.1	0.17	0.44	0.29	17	1.88	0.068
120129	Soil			0.41	28.66	19.71	91.1	197	21.7	9.4	363	2.41	12.6	1.4	1.1	1.7	104.4	0.20	0.36	0.26	17	1.47	0.057
120130	Soil			0.39	27.42	18.92	86.1	191	20.6	10.1	436	2.44	11.4	1.2	1.6	1.7	105.2	0.15	0.37	0.27	18	1.28	0.057
120131	Soil			0.81	12.28	15.15	54.7	55	13.0	6.4	253	2.05	9.1	0.8	1.0	1.7	65.1	0.13	0.47	0.25	33	0.87	0.037
120132	Soil			0.45	32.90	15.11	56.4	189	21.5	9.1	306	2.23	7.4	2.1	1.4	1.1	124.7	0.13	0.46	0.23	13	2.28	0.056
120133	Soil			0.42	33.21	17.50	63.9	145	23.8	10.8	420	2.77	6.5	1.5	1.1	1.3	122.9	0.18	0.38	0.26	14	2.21	0.057
120134	Soil			0.54	37.57	21.55	94.5	246	26.2	12.8	367	2.68	8.0	1.4	1.3	1.8	109.3	0.18	0.56	0.27	13	1.86	0.047



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
119646	Soil	5.4	16.8	0.33	106.8	0.003	5	0.93	0.003	0.06	<0.1	3.7	0.08	0.09	155	0.8	0.03	2.7	1.24	<0.1	0.04
119647	Soil	4.0	15.0	0.31	105.8	0.002	6	0.85	0.003	0.05	<0.1	3.7	0.08	0.07	110	0.5	<0.02	2.5	1.19	<0.1	0.03
119648	Soil	4.0	14.8	0.27	106.1	0.002	4	0.89	0.004	0.06	<0.1	3.7	0.08	0.08	117	0.4	0.02	2.6	1.13	<0.1	0.04
119649	Soil	5.1	17.0	0.33	79.9	0.003	3	0.94	0.002	0.06	<0.1	3.7	0.07	0.05	116	0.5	0.02	2.8	1.11	<0.1	0.03
119767	Soil	2.8	16.2	0.32	100.8	0.002	3	1.03	0.001	0.07	<0.1	6.5	0.11	0.03	74	0.4	0.05	3.1	3.14	<0.1	0.07
119768	Soil	12.1	13.9	0.20	135.0	0.002	4	0.86	0.004	0.05	<0.1	5.9	0.09	0.10	110	0.5	0.04	2.2	1.99	<0.1	0.05
119769	Soil	7.4	13.7	0.24	158.6	0.001	3	0.79	0.004	0.05	<0.1	8.0	0.08	0.08	129	0.7	0.06	2.2	1.35	<0.1	0.05
119770	Soil	9.5	15.8	0.20	100.9	0.001	2	0.91	0.002	0.05	<0.1	6.4	0.08	0.05	140	0.4	0.04	2.2	1.17	<0.1	0.04
119771	Soil	5.0	11.1	0.16	153.6	0.002	3	0.64	0.003	0.05	<0.1	3.4	0.09	0.08	200	0.6	0.03	1.6	2.16	<0.1	0.03
119772	Soil	2.7	10.8	0.17	96.5	0.001	2	0.64	0.002	0.05	<0.1	3.7	0.10	0.04	178	0.4	<0.02	1.7	2.17	<0.1	0.03
119773	Soil	4.1	11.5	0.19	102.6	0.001	2	0.67	0.002	0.05	<0.1	4.3	0.07	0.05	169	0.5	0.03	1.8	1.26	<0.1	0.02
119774	Soil	3.7	9.8	0.17	120.7	0.001	3	0.64	0.002	0.05	<0.1	3.1	0.07	0.07	171	0.5	<0.02	1.7	1.23	<0.1	0.03
119775	Soil	4.4	13.2	0.21	102.2	0.001	2	0.79	0.002	0.05	<0.1	4.1	0.07	0.04	126	0.4	0.02	2.2	1.49	<0.1	0.02
119776	Soil	3.6	13.3	0.26	114.3	0.002	2	0.86	0.001	0.05	<0.1	3.1	0.11	0.05	117	0.3	0.02	2.5	1.30	<0.1	0.05
119777	Soil	3.2	10.8	0.22	102.9	0.001	4	0.69	0.002	0.05	<0.1	3.2	0.10	0.08	139	0.5	<0.02	1.9	1.17	<0.1	0.05
119778	Soil	2.6	10.2	0.23	70.5	0.001	3	0.71	0.002	0.05	<0.1	3.2	0.09	0.05	88	0.2	<0.02	1.9	1.14	<0.1	0.05
119779	Soil	3.1	13.1	0.25	92.1	0.001	3	0.88	0.001	0.06	<0.1	3.7	0.10	0.05	109	0.2	<0.02	2.5	1.34	<0.1	0.03
120122	Soil	7.3	15.0	0.25	113.7	0.002	4	0.86	0.003	0.05	<0.1	5.4	0.13	0.08	233	0.4	0.04	2.4	2.78	<0.1	0.04
120123	Soil	4.5	10.6	0.16	114.8	0.001	3	0.53	0.002	0.06	<0.1	4.4	0.08	0.05	176	0.3	0.03	1.6	1.43	<0.1	0.05
120124	Soil	6.4	18.0	0.30	169.9	0.002	4	1.07	0.002	0.05	<0.1	6.2	0.10	0.08	89	0.5	0.03	3.0	3.02	<0.1	0.05
120125	Soil	6.0	13.7	0.28	163.4	0.002	5	0.89	0.003	0.04	<0.1	2.8	0.07	0.13	73	0.4	0.04	2.4	0.77	<0.1	0.03
120126	Soil	5.4	15.2	0.29	119.8	0.002	3	0.86	0.003	0.04	<0.1	3.2	0.08	0.08	126	0.4	0.05	2.6	0.73	<0.1	0.03
120127	Soil	6.1	19.3	0.40	115.4	0.003	4	1.14	0.002	0.05	<0.1	4.4	0.09	0.05	110	0.4	0.05	3.4	1.22	<0.1	0.05
120128	Soil	6.2	18.3	0.38	141.7	0.003	3	1.11	0.003	0.05	<0.1	3.7	0.11	0.09	133	0.6	0.04	3.4	1.35	<0.1	0.04
120129	Soil	6.5	17.8	0.34	113.8	0.003	3	1.04	0.003	0.06	<0.1	4.2	0.08	0.07	132	0.5	<0.02	3.1	1.00	<0.1	0.04
120130	Soil	6.4	17.9	0.36	121.9	0.003	4	1.04	0.003	0.05	<0.1	4.1	0.09	0.06	130	0.6	0.03	3.1	1.15	<0.1	0.05
120131	Soil	7.7	16.6	0.27	119.9	0.015	2	1.00	0.002	0.04	0.2	1.8	0.10	0.03	49	0.2	<0.02	4.0	1.07	<0.1	0.02
120132	Soil	5.3	14.1	0.30	137.6	0.003	5	0.87	0.003	0.05	<0.1	2.9	0.08	0.10	121	0.5	<0.02	2.4	0.97	<0.1	0.04
120133	Soil	6.2	14.3	0.31	141.5	0.002	5	0.87	0.003	0.04	<0.1	3.5	0.08	0.09	95	0.6	0.04	2.3	0.67	<0.1	0.04
120134	Soil	4.7	15.5	0.36	110.6	0.002	4	0.90	0.002	0.05	<0.1	4.3	0.10	0.07	131	0.3	0.05	2.8	1.31	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 3 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
119646	Soil			0.29	7.9	0.8	<0.05	1.4	10.56	12.5	0.04	<1	0.7	29.8	<10	<2
119647	Soil			0.29	8.2	0.6	<0.05	1.3	7.20	10.0	0.03	<1	0.6	32.5	<10	<2
119648	Soil			0.26	8.5	0.7	<0.05	1.3	8.29	9.1	0.04	<1	0.7	29.7	<10	<2
119649	Soil			0.24	7.1	0.5	<0.05	1.3	9.21	11.8	0.03	<1	0.7	35.1	<10	<2
119767	Soil			0.08	7.2	3.6	<0.05	2.5	12.44	9.8	0.06	<1	0.9	43.5	<10	<2
119768	Soil			0.17	6.9	3.2	<0.05	1.3	25.08	35.0	0.05	<1	1.1	24.6	<10	<2
119769	Soil			0.13	5.1	1.2	<0.05	1.7	24.25	18.0	0.05	<1	1.1	25.8	<10	<2
119770	Soil			0.16	5.6	1.5	<0.05	1.4	20.51	27.7	0.05	<1	1.1	22.2	<10	<2
119771	Soil			0.17	7.5	0.9	<0.05	1.2	12.23	12.3	0.04	<1	0.7	17.3	<10	<2
119772	Soil			0.12	6.4	1.0	<0.05	1.0	7.88	6.4	0.03	<1	0.7	23.7	<10	<2
119773	Soil			0.13	6.4	1.5	<0.05	1.1	11.40	11.7	0.04	<1	0.8	19.9	<10	<2
119774	Soil			0.14	6.8	0.8	<0.05	1.0	10.08	8.9	0.04	<1	0.8	15.6	<10	<2
119775	Soil			0.16	7.0	1.0	<0.05	1.1	10.19	9.7	0.04	<1	0.8	25.5	<10	<2
119776	Soil			0.19	7.8	0.5	<0.05	1.3	6.48	7.8	0.06	2	0.7	23.9	<10	<2
119777	Soil			0.14	7.1	0.5	<0.05	1.4	8.33	8.3	0.05	2	1.1	22.2	<10	<2
119778	Soil			0.12	6.3	0.7	<0.05	1.3	6.21	7.1	0.04	<1	0.6	26.9	<10	<2
119779	Soil			0.17	7.5	1.0	<0.05	1.3	6.92	7.7	0.04	1	0.7	26.5	<10	<2
120122	Soil			0.17	6.4	2.4	<0.05	1.6	18.60	18.7	0.04	<1	1.3	25.3	<10	<2
120123	Soil			0.11	5.3	1.8	<0.05	1.7	10.97	9.8	0.04	<1	0.9	10.0	<10	<2
120124	Soil			0.20	8.5	2.1	<0.05	1.8	21.46	15.5	0.04	2	1.1	38.7	<10	<2
120125	Soil			0.16	3.6	0.7	<0.05	1.3	15.64	14.3	0.04	<1	1.0	25.8	<10	<2
120126	Soil			0.24	4.2	0.7	<0.05	1.4	9.85	14.4	0.03	<1	0.7	23.4	<10	<2
120127	Soil			0.31	6.2	0.9	<0.05	1.7	10.41	16.1	0.04	<1	1.0	37.3	<10	<2
120128	Soil			0.35	7.7	0.8	<0.05	1.8	11.75	15.0	0.04	<1	1.1	31.0	<10	<2
120129	Soil			0.37	7.0	1.7	<0.05	1.7	11.08	14.8	0.03	<1	0.8	29.4	<10	<2
120130	Soil			0.34	7.1	0.6	<0.05	1.5	10.34	14.8	0.04	2	0.6	29.5	<10	<2
120131	Soil			0.87	8.1	1.4	<0.05	0.8	3.86	15.4	0.02	<1	0.5	14.6	<10	<2
120132	Soil			0.25	4.7	0.7	<0.05	1.6	11.63	10.7	0.02	<1	0.6	24.1	<10	<2
120133	Soil			0.23	4.3	1.2	<0.05	1.4	12.23	15.1	0.03	<1	0.8	24.4	<10	<2
120134	Soil			0.21	6.1	1.1	<0.05	1.8	10.99	12.2	0.04	1	0.7	28.6	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
120633	Soil			0.61	34.72	23.67	102.6	118	34.2	12.1	336	3.71	13.7	2.4	3.7	3.3	32.6	0.22	0.86	0.30	26	0.68	0.071
120634	Soil			0.72	37.06	23.31	106.1	101	39.6	16.3	515	3.40	23.4	0.8	3.4	4.9	46.1	0.20	0.68	0.31	22	1.28	0.090
120635	Soil			0.65	37.50	22.48	105.4	79	37.8	14.2	515	3.04	17.5	0.9	3.2	4.2	45.2	0.21	0.56	0.32	20	1.24	0.081
120636	Soil			0.55	72.79	46.40	98.4	85	38.6	20.6	1081	4.22	34.1	0.4	12.3	2.8	17.4	0.05	1.41	0.54	8	0.04	0.020
120637	Soil			0.53	67.56	28.40	68.2	80	21.8	11.6	297	3.63	43.8	0.5	2.9	2.9	15.5	0.03	2.66	0.43	6	0.04	0.025
120638	Soil			0.54	64.67	26.88	99.1	91	29.2	14.0	598	3.67	35.8	2.6	4.2	1.5	37.5	0.15	1.15	0.43	11	0.58	0.039
120639	Soil			0.42	56.91	27.78	108.8	63	42.0	18.3	517	3.71	20.4	0.6	2.8	3.3	26.6	0.10	0.55	0.46	15	0.19	0.031
120640	Soil			0.44	51.65	24.05	87.9	69	34.4	13.0	287	3.54	45.3	0.7	2.8	1.9	38.6	0.06	0.77	0.43	14	0.31	0.024
120641	Soil			0.42	30.45	21.17	91.0	44	29.7	12.3	796	2.89	39.0	0.7	1.7	1.5	40.6	0.20	0.61	0.35	14	0.76	0.047
120642	Soil			0.37	31.72	17.73	88.6	39	36.6	11.5	144	2.82	21.8	0.7	2.5	3.0	28.3	0.10	0.55	0.31	15	0.37	0.023
120643	Soil			0.78	59.00	42.95	85.0	63	21.3	15.4	895	4.53	21.5	0.5	2.4	2.4	9.3	0.11	0.87	0.44	19	0.03	0.038
120644	Soil			0.61	26.48	14.59	67.6	67	21.5	8.5	268	2.57	23.6	1.0	1.6	1.7	58.0	0.15	0.71	0.25	17	0.83	0.081
120645	Soil			0.50	40.56	26.15	90.8	86	31.4	12.6	397	3.12	36.3	0.7	3.1	3.0	63.9	0.11	0.75	0.36	14	0.62	0.028
120646	Soil			0.34	33.13	19.81	71.6	111	24.3	10.5	497	2.63	22.7	1.3	2.9	2.0	68.7	0.12	0.53	0.29	15	0.92	0.048
120647	Soil			0.53	43.54	22.27	92.6	98	33.7	12.7	395	3.01	65.2	0.9	7.0	2.0	55.1	0.16	1.60	0.33	13	0.62	0.043
120648	Soil			0.45	24.50	21.86	78.7	137	23.6	8.9	272	2.58	66.7	1.7	3.2	2.1	67.6	0.11	0.54	0.28	17	1.03	0.052
120649	Soil			0.53	19.23	20.52	58.6	25	18.7	9.0	256	2.98	14.2	0.7	0.6	2.6	15.8	0.12	0.41	0.29	21	0.17	0.026
120650	Soil			0.79	29.16	19.81	87.1	213	23.1	9.9	388	2.33	699.4	5.5	7.8	1.2	89.4	0.18	1.61	0.24	19	1.38	0.058
121885	Soil			0.65	28.58	19.88	65.5	137	24.2	11.4	736	2.38	32.4	5.5	4.0	1.1	96.4	0.24	0.88	0.25	17	1.45	0.051
121886	Soil			0.79	31.32	19.75	76.8	178	22.8	10.0	408	2.41	16.1	2.5	9.3	1.3	87.6	0.27	0.79	0.21	15	1.68	0.051
121887	Soil			0.68	18.90	14.81	67.6	61	21.2	9.9	390	3.18	14.6	1.2	2.3	3.2	17.6	0.19	0.53	0.23	30	0.24	0.039
121888	Soil			0.68	19.14	16.24	59.5	40	21.2	10.0	295	3.34	15.0	0.6	1.6	3.7	13.2	0.09	0.47	0.23	28	0.10	0.019
121889	Soil			0.84	29.29	14.60	61.1	181	23.9	10.4	312	2.35	25.2	2.1	7.1	2.7	268.1	0.26	1.24	0.19	16	6.58	0.056
121890	Soil			0.46	24.51	27.29	69.5	52	28.8	14.6	244	3.13	20.4	1.0	2.0	4.9	68.9	0.11	0.57	0.42	17	0.93	0.018
121891	Soil			0.81	25.85	16.52	49.3	150	17.3	9.4	561	2.59	26.5	1.6	2.9	0.8	137.9	0.24	1.26	0.20	15	2.51	0.072
121892	Soil			0.89	25.41	17.46	72.5	123	23.3	10.7	450	2.79	13.6	3.2	2.4	1.4	77.2	0.39	0.64	0.26	30	1.07	0.062
121893	Soil			1.00	17.70	17.83	69.7	171	19.1	9.4	665	2.83	12.6	8.7	2.5	1.3	77.9	0.32	0.50	0.22	28	0.80	0.073
121894	Soil			1.78	13.78	22.06	74.0	67	19.9	8.1	337	4.07	21.2	0.8	1.4	3.6	23.7	0.11	1.05	0.34	69	0.19	0.018
121895	Soil			0.86	19.60	16.56	94.4	203	24.9	9.7	426	2.95	20.6	3.9	2.7	1.5	74.6	0.93	1.11	0.25	40	0.97	0.073
121896	Soil			3.41	35.60	21.66	80.1	99	24.5	9.7	323	3.29	50.1	0.9	3.0	1.2	13.8	0.25	1.42	0.29	27	0.15	0.054



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: September 13, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
120633	Soil	21.0	33.7	0.44	710.7	0.003	2	0.91	0.002	0.04	<0.1	6.2	0.10	0.05	157	1.0	0.03	2.5	1.72	<0.1	0.07
120634	Soil	16.6	38.4	1.08	165.5	0.004	4	0.83	0.002	0.06	<0.1	6.0	0.16	0.04	103	1.1	<0.02	2.9	3.70	<0.1	0.07
120635	Soil	16.0	31.8	0.89	116.1	0.003	3	0.77	0.003	0.06	<0.1	6.2	0.15	0.05	60	1.1	0.02	2.7	2.91	<0.1	0.08
120636	Soil	4.9	6.3	0.06	17.8	<0.001	1	0.34	0.001	0.06	<0.1	5.3	0.19	<0.02	215	0.5	0.09	1.0	12.71	<0.1	0.03
120637	Soil	4.8	4.5	0.02	11.7	<0.001	<1	0.28	0.002	0.05	<0.1	5.6	0.23	<0.02	370	0.8	0.04	0.7	6.87	<0.1	<0.02
120638	Soil	4.4	9.6	0.12	22.3	<0.001	2	0.38	0.003	0.05	<0.1	4.3	0.13	0.04	453	0.6	0.06	1.1	3.33	<0.1	0.05
120639	Soil	6.9	17.8	0.32	34.6	0.002	2	0.47	0.001	0.06	<0.1	5.0	0.12	0.02	132	0.3	0.06	1.6	3.13	<0.1	0.03
120640	Soil	4.5	14.6	0.16	33.3	<0.001	2	0.31	0.003	0.05	<0.1	5.1	0.19	0.03	214	0.4	0.06	1.3	4.06	<0.1	0.04
120641	Soil	4.8	18.2	0.45	69.5	0.002	2	0.57	0.003	0.05	<0.1	3.7	0.10	0.06	189	0.5	0.03	2.0	1.54	<0.1	0.05
120642	Soil	6.5	22.1	0.42	36.2	0.002	3	0.55	0.003	0.04	<0.1	5.6	0.09	0.04	92	0.6	<0.02	1.7	1.33	<0.1	0.04
120643	Soil	4.6	19.5	0.30	42.1	0.003	1	1.28	<0.001	0.05	<0.1	2.9	0.10	0.02	769	0.3	0.10	4.0	8.31	<0.1	0.05
120644	Soil	6.8	17.1	0.30	116.9	0.003	1	0.88	0.002	0.05	<0.1	3.5	0.08	0.07	150	0.4	0.02	2.6	1.16	<0.1	0.06
120645	Soil	6.0	16.9	0.41	60.8	0.002	3	0.79	0.003	0.05	<0.1	5.1	0.09	0.03	189	0.4	0.04	2.4	1.19	<0.1	0.05
120646	Soil	6.1	16.9	0.36	95.9	0.002	2	1.01	0.002	0.05	<0.1	4.4	0.09	0.05	177	0.5	0.03	2.9	1.38	<0.1	0.07
120647	Soil	5.7	18.1	0.44	46.3	0.002	3	0.70	0.003	0.05	<0.1	5.7	0.11	0.05	167	0.8	0.02	2.1	2.16	<0.1	0.07
120648	Soil	7.7	20.1	0.49	105.9	0.003	3	1.13	0.002	0.05	<0.1	3.8	0.09	0.04	170	0.8	0.03	3.4	1.05	<0.1	0.06
120649	Soil	5.2	18.0	0.33	104.7	0.001	2	1.31	<0.001	0.03	<0.1	2.7	0.08	<0.02	70	0.1	0.04	3.9	0.72	<0.1	0.03
120650	Soil	6.1	18.4	0.31	110.2	0.003	2	0.89	0.003	0.06	<0.1	3.3	0.17	0.07	735	0.9	<0.02	2.5	0.80	<0.1	0.06
121885	Soil	9.6	19.6	0.40	123.9	0.004	2	0.94	0.002	0.04	<0.1	2.7	0.10	0.06	189	0.9	0.03	2.7	0.84	<0.1	0.04
121886	Soil	11.4	14.4	0.33	175.2	0.002	3	0.65	0.005	0.06	<0.1	2.4	0.10	0.08	233	1.1	<0.02	1.9	0.65	<0.1	0.05
121887	Soil	14.2	23.1	0.30	115.2	0.003	1	1.20	0.002	0.05	<0.1	2.9	0.10	0.02	79	0.5	0.04	3.2	0.86	<0.1	0.03
121888	Soil	11.3	22.0	0.34	91.2	0.002	2	1.26	0.002	0.06	<0.1	1.9	0.10	<0.02	46	0.3	<0.02	3.6	0.96	<0.1	<0.02
121889	Soil	8.8	14.0	1.13	57.9	0.002	4	0.67	0.007	0.07	<0.1	3.6	0.10	0.03	341	0.7	0.03	1.7	0.49	<0.1	0.09
121890	Soil	8.8	21.7	0.67	73.0	0.002	3	1.33	0.003	0.06	<0.1	5.4	0.07	<0.02	154	0.2	0.06	3.6	0.69	<0.1	0.09
121891	Soil	9.2	11.3	0.30	106.1	0.001	4	0.69	0.003	0.04	<0.1	2.1	0.06	0.07	568	0.6	0.04	1.7	0.39	<0.1	0.02
121892	Soil	8.2	17.9	0.23	239.0	0.003	2	1.10	0.003	0.06	<0.1	2.4	0.13	0.06	100	0.3	0.02	3.3	1.01	<0.1	0.04
121893	Soil	22.6	17.1	0.17	119.1	0.003	1	1.12	0.002	0.04	<0.1	2.2	0.12	0.05	110	0.4	0.02	2.8	0.39	<0.1	0.04
121894	Soil	9.6	26.9	0.39	127.1	0.016	1	1.92	<0.001	0.06	0.2	2.0	0.19	<0.02	31	0.2	0.05	7.0	1.25	<0.1	0.05
121895	Soil	15.8	25.4	0.43	173.3	0.010	1	1.52	0.005	0.06	0.1	2.6	0.11	0.05	135	0.3	0.02	3.9	0.76	<0.1	0.03
121896	Soil	5.5	13.4	0.14	131.6	0.003	2	0.81	0.001	0.07	<0.1	2.3	0.15	0.02	127	0.8	0.07	2.3	1.25	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 4 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
120633	Soil			0.15	6.3	0.8	<0.05	1.8	20.98	37.0	0.05	2	1.1	18.9	<10	<2
120634	Soil			0.12	5.8	1.6	<0.05	2.4	13.85	37.5	0.03	<1	1.0	27.6	<10	<2
120635	Soil			0.12	5.5	1.4	<0.05	2.8	14.23	34.1	0.04	<1	1.1	25.3	<10	<2
120636	Soil			<0.02	8.5	1.6	<0.05	2.6	3.36	10.6	0.05	<1	0.7	3.3	<10	2
120637	Soil			<0.02	5.3	2.8	<0.05	0.9	2.75	10.7	0.05	1	0.9	1.2	<10	<2
120638	Soil			0.03	4.9	1.1	<0.05	2.1	4.88	9.2	0.04	1	1.0	3.1	<10	<2
120639	Soil			0.05	5.0	6.9	<0.05	1.6	6.94	14.5	0.03	<1	0.8	12.1	<10	<2
120640	Soil			0.04	5.7	1.4	<0.05	1.8	5.08	8.7	0.04	<1	1.0	4.7	<10	<2
120641	Soil			0.14	4.7	1.9	<0.05	1.7	6.00	10.2	0.03	1	0.6	14.2	<10	<2
120642	Soil			0.10	4.1	1.2	<0.05	1.9	7.10	14.0	0.04	<1	0.6	15.0	<10	<2
120643	Soil			0.21	9.0	2.1	<0.05	1.8	2.45	9.6	0.05	1	1.1	28.5	<10	<2
120644	Soil			0.23	5.6	1.2	<0.05	1.9	7.97	14.6	0.03	<1	0.9	14.2	<10	<2
120645	Soil			0.13	4.6	1.0	<0.05	2.4	8.37	13.6	0.04	1	0.8	20.5	<10	<2
120646	Soil			0.19	6.7	1.3	<0.05	2.2	9.11	13.5	0.03	<1	0.9	24.0	<10	<2
120647	Soil			0.14	6.1	1.6	<0.05	2.2	9.91	11.5	0.06	<1	0.9	16.5	<10	<2
120648	Soil			0.25	5.7	6.5	<0.05	2.4	9.40	15.6	<0.02	<1	0.6	31.4	<10	<2
120649	Soil			0.18	4.2	1.9	<0.05	1.5	4.51	13.2	0.03	<1	0.6	26.8	<10	<2
120650	Soil			0.29	6.4	3.6	<0.05	2.3	8.51	12.9	0.03	1	0.7	15.5	<10	<2
121885	Soil			0.30	5.1	1.6	<0.05	1.4	10.32	22.1	0.03	2	0.8	20.5	<10	<2
121886	Soil			0.19	4.5	9.5	<0.05	1.8	8.60	24.3	0.05	<1	0.7	12.9	<10	<2
121887	Soil			0.31	7.3	0.9	<0.05	0.9	7.53	43.6	0.04	<1	0.8	17.8	<10	<2
121888	Soil			0.22	8.2	1.6	<0.05	1.1	3.24	28.2	0.04	<1	0.7	27.4	<10	<2
121889	Soil			0.13	5.2	0.9	<0.05	2.8	8.48	19.2	0.03	<1	0.6	12.6	<10	<2
121890	Soil			0.16	4.2	1.3	<0.05	3.7	13.07	24.0	0.04	<1	1.1	34.4	<10	<2
121891	Soil			0.13	3.4	0.6	<0.05	0.9	9.94	22.1	0.03	<1	0.8	12.4	<10	<2
121892	Soil			0.40	7.0	0.7	<0.05	1.4	4.84	22.1	0.03	<1	0.7	13.4	<10	<2
121893	Soil			0.24	6.7	0.4	<0.05	1.3	11.87	48.8	0.04	<1	1.1	9.4	<10	<2
121894	Soil			1.26	7.2	1.2	<0.05	2.6	2.30	22.0	0.03	<1	0.4	22.3	<10	<2
121895	Soil			0.57	7.5	0.6	<0.05	1.0	10.39	32.5	0.03	<1	1.0	12.0	<10	<2
121896	Soil			0.19	9.9	1.4	<0.05	0.3	4.55	14.8	0.03	<1	0.6	8.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
Unit	MDL	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
121897	Soil	1.02	15.82	16.14	68.4	53	20.5	9.2	477	3.05	44.4	1.0	0.6	1.8	89.4	0.26	1.04	0.26	45	0.90	0.053
121898	Soil	0.94	27.07	24.62	73.5	218	20.7	8.7	481	2.99	337.9	1.4	4.3	1.3	70.3	0.26	3.74	0.27	29	1.63	0.150
121899	Soil	1.01	21.51	15.19	134.3	161	21.5	6.5	237	2.74	186.9	3.3	2.8	1.3	52.9	0.30	3.10	0.23	26	0.84	0.109
121900	Soil	0.56	24.92	18.26	76.8	75	24.1	10.9	905	3.31	25.9	1.8	0.8	1.7	54.7	0.16	0.64	0.29	23	0.77	0.101
120851	Soil	0.82	23.45	19.32	120.8	55	17.3	13.9	2408	3.98	13.2	0.3	0.4	0.5	13.1	0.35	0.51	0.34	38	0.05	0.074
120852	Soil	1.26	21.37	17.64	102.0	78	15.7	12.6	1173	4.01	11.6	0.3	<0.2	0.4	11.5	0.26	0.45	0.40	33	0.05	0.061
120853	Soil	0.96	18.02	11.74	48.2	31	11.9	7.6	373	3.23	12.4	0.3	0.9	1.0	27.6	0.04	0.35	0.34	34	0.22	0.041
120854	Soil	0.98	11.19	13.83	50.5	62	15.6	6.5	375	2.63	10.2	0.4	0.8	1.2	43.8	0.05	0.40	0.25	42	0.56	0.047
120855	Soil	1.21	32.71	50.07	105.5	95	34.1	17.5	525	5.15	35.3	0.4	1.5	1.3	35.6	0.05	1.43	0.31	29	0.02	0.058
120856	Soil	1.20	17.50	19.14	77.3	61	14.9	8.0	345	4.30	11.3	0.4	0.3	2.2	8.8	0.07	0.44	0.37	47	0.03	0.043
120857	Soil	1.93	41.76	21.06	145.6	416	36.7	15.8	393	2.98	124.5	3.0	15.4	3.6	123.0	0.36	4.30	0.21	21	2.29	0.081
120858	Soil	0.63	25.48	15.97	102.3	122	29.2	13.4	444	2.69	189.3	0.9	12.8	3.1	192.2	0.24	1.88	0.18	16	4.66	0.048
120859	Soil	0.56	32.41	16.71	101.3	95	34.7	14.3	455	3.13	29.7	0.9	5.0	4.3	144.6	0.13	0.88	0.22	17	3.68	0.057
120860	Soil	0.66	33.35	20.92	126.6	141	33.8	14.3	694	3.41	120.4	1.0	7.0	2.3	55.1	0.29	1.80	0.24	22	0.82	0.085
120861	Soil	0.47	31.18	16.05	106.3	87	32.2	12.5	562	3.05	49.6	0.6	3.6	1.4	41.0	0.16	0.84	0.23	14	1.07	0.062
120862	Soil	0.52	34.87	37.24	96.5	57	38.3	21.3	1185	3.92	14.8	0.5	1.1	1.5	34.4	0.12	0.43	0.32	19	0.28	0.090
120863	Soil	2.47	47.98	25.73	114.0	864	34.3	12.9	262	2.69	1149	5.0	36.0	2.0	141.7	0.46	5.43	0.24	24	1.48	0.067
120864	Soil	2.00	44.74	23.60	94.9	430	34.3	14.6	378	3.01	829.9	2.0	17.1	1.8	91.4	0.28	3.38	0.28	18	1.88	0.052
120865	Soil	1.04	26.39	27.94	68.2	86	17.0	16.8	868	4.64	19.6	0.4	0.6	2.7	6.9	0.08	0.41	0.33	43	0.03	0.062
120866	Soil	1.02	43.10	66.18	109.9	237	49.2	24.2	489	4.11	25.7	0.5	1.7	2.2	104.9	0.06	0.41	0.36	16	1.77	0.049
120867	Soil	0.73	29.54	34.09	81.4	212	31.4	11.1	308	3.58	13.1	0.9	1.4	1.5	123.7	0.05	0.27	0.30	17	1.88	0.077
120868	Soil	0.91	39.89	39.89	89.8	245	39.8	16.9	399	4.19	12.8	0.6	1.9	2.8	73.9	0.07	0.41	0.28	16	0.91	0.052
120869	Soil	0.66	27.61	23.74	55.0	189	26.5	10.9	363	3.20	9.0	1.3	1.2	1.2	180.6	0.05	0.26	0.18	15	2.09	0.078
120870	Soil	0.77	33.41	26.05	77.2	184	33.6	13.2	299	3.78	10.0	0.6	1.5	3.3	69.0	0.05	0.25	0.24	19	0.75	0.041
120871	Soil	0.75	28.44	28.94	75.9	236	30.6	15.0	594	3.36	16.7	0.7	1.8	3.5	146.6	0.11	0.27	0.25	15	1.41	0.062
120872	Soil	0.52	40.59	23.25	71.1	164	25.0	10.5	294	2.70	14.9	1.1	3.2	2.2	104.8	0.18	0.36	0.42	15	1.68	0.067
120873	Soil	0.60	38.52	22.50	78.8	200	25.5	10.9	387	2.61	11.8	1.4	2.8	1.8	108.1	0.19	0.45	0.42	17	2.01	0.076
120874	Soil	0.55	28.13	30.87	76.4	172	25.3	12.1	256	2.92	6.9	1.2	2.6	4.2	76.5	0.15	0.37	0.39	18	0.85	0.041
119844	Soil	0.53	46.73	33.60	83.0	216	32.0	13.0	296	3.47	16.7	0.9	3.8	2.7	77.5	0.09	0.75	0.45	19	0.96	0.055
119845	Soil	0.67	32.60	33.55	73.1	141	28.8	15.0	440	3.72	11.1	0.6	1.5	4.8	40.1	0.12	0.41	0.37	20	0.37	0.044



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
121897	Soil	9.7	25.5	0.39	146.8	0.008	1	1.74	0.003	0.06	0.2	2.4	0.14	0.03	110	0.3	0.04	5.1	1.20	<0.1	0.03
121898	Soil	23.3	17.6	0.18	102.9	0.004	2	1.11	0.003	0.05	<0.1	4.0	0.22	0.06	1561	0.5	0.04	2.9	0.57	<0.1	0.04
121899	Soil	7.6	19.2	0.22	106.6	0.004	2	1.10	0.003	0.07	<0.1	2.3	0.19	0.07	626	0.5	0.04	3.0	1.19	<0.1	0.06
121900	Soil	10.7	20.4	0.38	107.7	0.004	3	1.56	0.003	0.09	<0.1	4.1	0.09	0.06	53	0.2	0.04	4.0	2.07	<0.1	0.03
120851	Soil	3.3	21.2	0.23	137.4	0.005	3	1.50	0.002	0.15	<0.1	1.8	0.11	0.03	30	0.2	0.06	6.5	3.98	<0.1	<0.02
120852	Soil	3.6	18.0	0.14	73.7	0.005	1	1.13	0.002	0.11	<0.1	1.4	0.05	0.04	27	0.2	0.04	5.3	3.45	<0.1	<0.02
120853	Soil	3.6	15.1	0.22	102.0	0.006	2	0.90	0.005	0.13	<0.1	2.3	0.09	<0.02	19	<0.1	0.05	5.6	1.57	<0.1	<0.02
120854	Soil	7.3	20.9	0.39	173.2	0.012	<1	1.24	0.004	0.06	0.2	1.5	0.11	0.04	31	0.1	0.03	5.3	1.32	<0.1	<0.02
120855	Soil	2.5	18.0	0.14	42.1	0.003	2	0.86	0.002	0.08	<0.1	2.4	0.25	0.05	213	0.4	0.05	2.3	3.45	<0.1	<0.02
120856	Soil	6.5	21.8	0.23	63.4	0.008	3	1.58	0.001	0.09	<0.1	1.7	0.11	<0.02	24	0.2	0.06	6.5	2.40	<0.1	<0.02
120857	Soil	11.8	14.7	1.20	92.2	0.003	4	0.46	0.006	0.09	<0.1	4.7	0.41	0.05	278	1.5	0.03	1.4	1.01	<0.1	0.07
120858	Soil	7.7	16.6	2.42	58.7	0.002	2	0.30	0.007	0.07	<0.1	5.0	0.61	0.02	392	1.4	<0.02	1.1	1.23	<0.1	0.04
120859	Soil	11.3	18.5	2.00	121.0	0.002	3	0.41	0.006	0.08	<0.1	5.7	0.20	0.03	151	1.6	<0.02	1.4	2.98	<0.1	0.05
120860	Soil	9.6	21.4	0.34	76.2	0.003	3	0.43	0.005	0.08	<0.1	4.9	0.31	0.06	323	1.5	0.03	1.5	0.81	<0.1	0.06
120861	Soil	9.2	16.2	0.39	62.6	<0.001	3	0.32	0.004	0.08	<0.1	4.0	0.14	0.06	129	1.1	<0.02	1.0	0.90	<0.1	0.03
120862	Soil	4.3	25.2	0.71	57.0	0.003	2	1.35	0.003	0.08	<0.1	3.0	0.12	0.06	56	0.3	0.04	3.8	3.56	<0.1	0.04
120863	Soil	10.0	16.5	0.27	83.8	0.001	4	0.47	0.004	0.08	<0.1	3.6	3.58	0.05	853	1.3	<0.02	1.5	0.71	<0.1	0.08
120864	Soil	8.0	12.4	0.51	87.3	<0.001	3	0.40	0.004	0.07	<0.1	4.4	2.35	0.03	889	0.9	0.06	1.1	0.70	<0.1	0.03
120865	Soil	4.3	21.4	0.21	63.4	0.003	1	1.64	0.001	0.08	<0.1	2.0	0.13	0.03	51	0.3	0.06	6.2	5.81	<0.1	0.02
120866	Soil	4.1	20.1	0.36	102.5	0.001	5	1.09	0.003	0.07	<0.1	5.3	0.14	0.08	206	0.5	0.07	3.2	3.81	<0.1	0.06
120867	Soil	6.4	20.5	0.32	109.1	0.002	4	1.16	0.005	0.07	<0.1	3.7	0.11	0.10	153	0.4	0.05	3.5	2.75	<0.1	0.03
120868	Soil	4.8	20.3	0.34	155.3	0.002	4	1.09	0.003	0.09	<0.1	6.4	0.11	0.05	136	0.4	0.04	3.3	3.14	<0.1	0.04
120869	Soil	6.9	17.7	0.27	124.9	0.002	4	1.06	0.006	0.07	<0.1	3.9	0.10	0.11	107	0.6	0.03	3.1	2.13	<0.1	0.03
120870	Soil	4.5	23.9	0.38	129.1	0.002	3	1.33	0.003	0.08	<0.1	6.4	0.12	0.04	97	0.4	0.03	4.2	2.80	<0.1	0.05
120871	Soil	6.0	22.4	0.35	155.1	0.001	4	1.29	0.003	0.07	<0.1	6.3	0.10	0.06	95	0.5	0.03	3.4	1.87	<0.1	0.06
120872	Soil	7.2	16.3	0.34	94.0	0.002	6	0.95	0.005	0.07	<0.1	5.5	0.08	0.06	105	0.5	<0.02	2.6	1.02	<0.1	0.05
120873	Soil	8.4	18.4	0.35	110.9	0.003	6	1.07	0.004	0.07	<0.1	4.9	0.09	0.09	141	0.6	0.05	3.0	1.10	<0.1	0.04
120874	Soil	6.6	22.2	0.40	96.0	0.002	4	1.30	0.002	0.07	<0.1	5.8	0.08	0.04	86	0.3	0.04	3.4	1.41	<0.1	0.05
119844	Soil	7.8	22.1	0.39	83.7	0.003	4	1.27	0.003	0.07	<0.1	6.5	0.08	0.04	176	0.2	0.02	3.9	2.59	<0.1	0.04
119845	Soil	6.0	23.0	0.37	97.8	0.002	4	1.40	0.002	0.08	<0.1	8.7	0.10	0.03	72	0.2	<0.02	3.6	3.03	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 5 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
121897	Soil	0.62	7.4	1.0	<0.05	0.7	4.56	28.6	0.04	<1	0.8	15.4	<10	<2
121898	Soil	0.29	6.3	0.9	<0.05	1.1	21.59	44.9	0.04	<1	1.3	7.9	<10	<2
121899	Soil	0.34	12.7	1.3	<0.05	1.6	7.65	17.0	0.04	<1	0.9	12.1	<10	<2
121900	Soil	0.23	10.1	0.9	<0.05	1.0	17.09	27.7	0.04	<1	1.3	27.3	<10	<2
120851	Soil	0.29	22.7	2.8	<0.05	0.2	2.29	8.0	0.03	<1	0.7	16.6	<10	<2
120852	Soil	0.29	17.8	1.2	<0.05	<0.1	2.07	7.7	0.03	<1	0.7	11.6	<10	<2
120853	Soil	0.38	19.7	1.0	<0.05	0.1	1.78	7.6	0.03	<1	0.4	8.7	<10	<2
120854	Soil	0.67	8.6	1.2	<0.05	0.4	1.99	15.0	<0.02	<1	0.3	17.9	<10	<2
120855	Soil	0.12	8.7	6.5	<0.05	0.4	2.79	6.2	0.04	<1	0.9	12.2	<10	<2
120856	Soil	0.78	15.4	1.3	<0.05	0.5	1.92	13.5	0.03	<1	0.5	21.8	<10	<2
120857	Soil	0.09	4.9	0.9	<0.05	2.4	11.49	30.6	0.04	<1	0.9	4.8	<10	<2
120858	Soil	0.05	4.2	1.3	<0.05	1.3	8.92	20.2	0.03	<1	0.7	3.2	<10	<2
120859	Soil	0.05	5.9	1.1	<0.05	1.7	9.71	28.7	0.03	<1	0.8	6.6	<10	<2
120860	Soil	0.08	4.8	1.2	<0.05	1.5	11.15	25.5	0.04	<1	0.8	3.1	<10	<2
120861	Soil	0.03	4.6	1.1	<0.05	1.2	9.83	24.4	0.03	<1	0.8	2.3	<10	<2
120862	Soil	0.16	7.8	1.2	<0.05	1.3	5.27	13.0	0.03	<1	1.4	32.7	<10	<2
120863	Soil	0.09	4.0	1.3	<0.05	2.9	10.82	24.6	0.04	<1	0.9	4.1	<10	<2
120864	Soil	0.06	3.7	0.9	<0.05	1.0	12.32	18.7	0.03	<1	1.0	3.6	<10	<2
120865	Soil	0.42	13.6	2.0	<0.05	0.9	2.89	10.8	0.03	<1	0.8	31.7	<10	<2
120866	Soil	0.16	6.5	27.5	<0.05	2.6	14.57	12.5	0.06	<1	1.2	37.5	<10	<2
120867	Soil	0.25	7.5	2.8	<0.05	1.4	14.32	15.9	0.03	<1	1.3	32.8	<10	<2
120868	Soil	0.14	9.0	2.9	<0.05	1.4	14.82	12.6	0.04	<1	1.2	32.8	<10	<2
120869	Soil	0.22	8.0	2.2	<0.05	1.0	16.54	16.7	0.03	<1	1.0	23.3	<10	<2
120870	Soil	0.21	9.4	2.2	<0.05	1.8	13.34	12.0	0.04	<1	1.0	39.1	<10	<2
120871	Soil	0.16	7.0	4.4	<0.05	2.0	19.40	21.5	0.04	<1	1.2	41.0	<10	<2
120872	Soil	0.23	5.6	5.4	<0.05	1.5	13.87	14.8	0.05	1	0.8	32.3	<10	<2
120873	Soil	0.29	6.6	2.1	<0.05	1.6	12.60	15.4	0.04	<1	0.9	31.8	<10	<2
120874	Soil	0.25	6.9	7.9	<0.05	1.8	11.41	13.6	0.05	<1	1.0	49.7	<10	<2
119844	Soil	0.30	7.4	4.2	<0.05	1.6	15.82	13.6	0.04	<1	1.1	46.3	<10	<2
119845	Soil	0.21	9.7	6.2	<0.05	1.4	15.65	15.5	0.07	<1	0.9	51.3	<10	<2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
119846	Soil			0.57	35.18	36.29	77.4	135	29.5	17.4	538	3.55	11.6	0.8	1.0	4.3	104.0	0.14	0.40	0.37	18	0.97	0.043
119847	Soil			0.51	35.81	31.45	71.9	180	25.0	12.8	416	2.93	17.7	1.1	1.0	2.1	156.7	0.15	0.38	0.36	16	1.73	0.054
119848	Soil			0.45	35.83	25.79	62.7	161	22.4	12.1	364	2.53	11.3	2.1	1.2	2.6	130.2	0.09	0.34	0.37	16	1.59	0.054
119849	Soil			0.38	34.78	21.62	80.2	148	22.7	11.7	444	2.68	12.6	1.7	1.2	2.3	89.5	0.11	0.31	0.35	19	1.29	0.055
119850	Soil			0.33	34.31	23.15	83.9	122	25.7	13.4	409	2.96	10.7	1.6	2.0	2.7	93.7	0.12	0.34	0.39	23	1.43	0.056
119887	Soil			0.56	36.41	75.33	230.2	141	23.0	10.3	534	2.78	72.7	3.5	4.1	0.8	71.7	1.03	2.24	0.29	28	1.10	0.064
119888	Soil			0.57	31.38	20.97	89.9	56	25.3	9.8	307	2.76	21.1	3.4	0.9	2.0	63.1	0.33	1.39	0.31	25	0.63	0.064
119889	Soil			0.72	33.72	17.79	74.5	25	21.6	8.9	240	2.76	31.7	1.0	1.5	1.4	36.1	0.10	2.07	0.31	22	0.05	0.060
119890	Soil			0.83	31.55	16.15	88.7	65	21.1	8.1	274	2.73	27.2	1.2	0.7	0.5	27.0	0.24	1.89	0.33	20	0.07	0.096
119891	Soil			0.70	32.02	19.14	108.2	89	26.3	9.6	222	3.10	23.0	2.4	1.3	3.0	46.8	0.19	1.27	0.33	19	0.48	0.098
119892	Soil			0.57	27.27	31.07	81.3	72	21.2	12.5	1480	3.27	15.0	4.2	0.5	2.7	70.8	0.30	0.56	0.43	23	0.81	0.114
119893	Soil			0.70	34.72	28.29	96.8	94	21.3	11.2	536	3.02	15.2	3.0	0.3	2.1	74.3	0.41	0.75	0.57	25	0.90	0.150
119894	Soil			0.46	35.56	33.07	75.7	78	24.1	14.4	2236	3.83	16.3	3.8	1.7	4.1	87.7	0.23	0.49	0.45	23	1.08	0.119
119895	Soil			0.68	21.14	12.77	85.8	53	14.1	6.5	388	2.95	31.3	0.4	<0.2	1.0	37.4	0.24	0.33	0.40	30	0.38	0.054
119896	Soil			1.02	28.31	21.99	73.3	83	23.4	13.2	659	4.09	28.7	0.6	<0.2	1.4	12.9	0.27	0.67	0.38	36	0.05	0.055
119897	Soil			0.78	39.93	25.80	79.7	126	21.8	11.0	607	3.15	172.4	2.7	0.7	1.7	78.4	0.25	0.82	0.42	27	0.74	0.079
119898	Soil			0.64	49.35	20.20	89.7	214	27.2	10.4	374	3.10	589.8	2.4	2.8	1.9	95.3	0.17	0.87	0.38	25	0.83	0.122
119899	Soil			1.09	24.19	26.72	83.0	92	15.2	10.7	682	5.33	19.1	0.5	<0.2	1.2	10.3	0.14	0.58	0.45	51	0.03	0.093
119900	Soil			0.81	21.05	24.52	70.8	92	11.1	6.7	277	3.25	10.1	0.4	<0.2	1.2	16.4	0.12	0.46	0.41	40	0.04	0.039
118580	Soil			0.29	38.62	20.72	80.3	152	23.1	9.6	229	2.45	9.8	1.0	1.4	2.4	205.2	0.13	0.35	0.31	20	1.14	0.052
118581	Soil			0.81	43.05	39.21	97.8	265	34.9	16.2	317	3.56	13.9	0.7	1.5	4.9	76.6	0.13	0.58	0.41	19	0.84	0.050
118582	Soil			0.54	37.16	37.78	103.7	133	31.6	16.5	404	3.76	11.2	0.6	2.0	5.2	36.7	0.11	0.54	0.37	18	0.27	0.051
118583	Soil			0.27	20.62	23.35	76.9	114	22.0	11.8	272	2.79	6.8	0.8	0.9	4.0	73.9	0.07	0.30	0.33	17	0.66	0.040
118584	Soil			0.58	30.10	23.54	73.9	92	20.5	9.2	421	2.92	18.2	2.1	1.0	1.6	78.0	0.23	0.83	0.42	21	0.94	0.084
118585	Soil			0.61	27.77	24.90	64.2	51	17.2	9.2	400	2.94	9.6	1.0	<0.2	2.3	26.1	0.10	0.52	0.38	21	0.29	0.052
118586	Soil			0.45	49.18	34.46	98.8	68	28.1	16.6	482	3.03	14.3	1.2	1.3	2.7	59.9	0.13	0.50	0.54	11	0.83	0.066
118587	Soil			0.63	42.82	43.67	102.4	237	37.4	17.2	468	4.12	17.8	1.2	0.9	3.5	75.1	0.14	0.51	0.39	14	1.00	0.070
118588	Soil			0.70	63.62	66.89	120.9	333	51.0	26.3	326	5.13	23.2	0.5	0.9	4.1	32.2	0.08	0.49	0.46	18	0.28	0.017
118589	Soil			0.60	48.93	44.59	105.6	182	38.2	18.4	520	4.63	16.8	0.8	0.8	5.0	23.1	0.10	0.40	0.48	21	0.18	0.046
118590	Soil			0.37	44.62	25.49	83.3	64	27.7	11.4	239	3.46	9.2	0.7	1.0	4.4	26.6	0.05	1.13	0.41	16	0.11	0.038



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 13, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
119846	Soil	7.9	20.8	0.36	110.2	0.002	5	1.21	0.002	0.07	<0.1	8.8	0.09	0.05	80	0.3	<0.02	3.5	2.08	<0.1	0.05
119847	Soil	9.0	16.4	0.30	119.2	0.002	5	1.03	0.003	0.06	<0.1	6.5	0.09	0.07	113	0.4	0.04	2.8	1.37	<0.1	0.03
119848	Soil	6.9	16.5	0.30	118.1	0.002	4	1.04	0.005	0.05	<0.1	6.5	0.09	0.09	108	0.5	0.03	2.9	1.26	<0.1	0.06
119849	Soil	7.1	17.7	0.35	109.8	0.002	3	1.15	0.003	0.06	<0.1	5.5	0.08	0.07	103	0.4	0.03	3.4	1.07	<0.1	0.04
119850	Soil	7.1	22.3	0.46	109.1	0.003	5	1.43	0.003	0.09	<0.1	6.1	0.08	0.07	92	0.3	0.04	4.3	1.57	<0.1	0.05
119887	Soil	9.7	17.3	0.27	107.0	0.003	2	0.90	0.002	0.04	<0.1	2.3	0.09	0.06	357	0.7	0.02	2.4	0.66	<0.1	0.02
119888	Soil	11.3	25.0	0.36	186.6	0.003	2	1.30	0.001	0.06	<0.1	2.8	0.12	0.03	66	0.5	0.02	3.6	1.27	<0.1	0.04
119889	Soil	12.3	18.8	0.16	106.7	0.002	1	0.77	<0.001	0.05	<0.1	1.9	0.13	0.02	147	0.5	<0.02	2.7	1.14	<0.1	<0.02
119890	Soil	10.3	17.4	0.13	119.0	0.002	1	0.70	0.001	0.06	<0.1	1.0	0.12	0.05	152	0.4	0.03	2.4	1.23	<0.1	<0.02
119891	Soil	13.7	21.8	0.30	114.5	0.002	2	1.01	0.002	0.07	<0.1	5.9	0.09	0.05	101	0.3	0.02	2.5	1.39	<0.1	0.07
119892	Soil	23.1	19.8	0.37	108.3	0.005	2	1.47	0.002	0.07	<0.1	5.2	0.09	0.07	34	0.1	0.07	3.9	2.06	<0.1	0.03
119893	Soil	19.1	21.9	0.41	104.5	0.006	3	1.49	0.002	0.08	<0.1	4.7	0.07	0.08	51	0.2	0.07	4.2	2.91	<0.1	0.05
119894	Soil	44.3	22.4	0.56	83.5	0.005	3	1.69	0.001	0.08	<0.1	8.7	0.09	0.07	59	0.1	0.04	4.1	2.03	<0.1	0.07
119895	Soil	4.0	19.3	0.29	209.8	0.004	3	1.35	0.002	0.12	<0.1	2.6	0.11	0.02	15	0.1	0.03	4.9	1.68	<0.1	<0.02
119896	Soil	6.9	26.6	0.37	74.6	0.012	3	1.54	0.002	0.10	<0.1	2.6	0.08	0.03	47	0.3	0.02	4.3	3.79	<0.1	<0.02
119897	Soil	7.7	18.3	0.29	156.7	0.006	3	1.07	0.002	0.10	<0.1	6.5	0.13	0.06	302	0.2	0.04	3.1	3.63	<0.1	0.03
119898	Soil	12.6	26.4	0.48	127.5	0.006	6	1.33	0.005	0.12	<0.1	6.0	0.12	0.09	171	1.0	<0.02	3.9	5.87	<0.1	0.05
119899	Soil	5.8	24.4	0.21	78.2	0.007	2	1.49	0.001	0.08	<0.1	2.2	0.10	0.03	32	0.3	0.05	7.0	4.20	<0.1	<0.02
119900	Soil	8.7	17.3	0.23	58.2	0.015	3	0.96	0.001	0.11	<0.1	1.9	0.08	<0.02	31	0.1	0.05	5.9	2.08	<0.1	<0.02
118580	Soil	7.3	20.2	0.46	95.2	0.004	7	1.24	0.003	0.09	<0.1	5.1	0.09	0.06	136	0.4	0.02	3.8	2.03	<0.1	0.04
118581	Soil	6.4	24.6	0.45	93.5	0.004	5	1.33	0.003	0.08	<0.1	7.0	0.09	0.03	74	0.2	<0.02	4.1	2.63	<0.1	0.06
118582	Soil	5.9	21.4	0.45	59.5	0.003	3	1.39	0.002	0.07	<0.1	5.6	0.06	<0.02	66	0.3	0.03	3.9	2.19	<0.1	0.07
118583	Soil	4.7	20.8	0.37	90.6	0.002	3	1.25	0.002	0.07	<0.1	6.4	0.08	0.03	76	0.2	0.05	3.7	2.02	<0.1	0.04
118584	Soil	12.2	14.7	0.16	682.1	0.002	1	1.19	0.002	0.05	<0.1	4.7	0.11	0.05	98	0.2	<0.02	2.7	1.17	<0.1	<0.02
118585	Soil	8.9	11.2	0.10	136.1	0.002	2	0.95	0.002	0.07	<0.1	4.4	0.09	0.03	42	0.1	0.06	2.4	1.33	<0.1	0.03
118586	Soil	10.9	12.2	0.23	114.2	0.002	4	0.78	0.004	0.08	<0.1	7.3	0.07	0.06	64	0.2	0.06	1.9	2.45	<0.1	0.05
118587	Soil	10.0	12.4	0.24	93.3	0.002	5	0.77	0.004	0.09	<0.1	9.2	0.15	0.07	244	0.5	0.05	2.2	4.47	<0.1	0.05
118588	Soil	4.3	19.0	0.38	96.9	0.003	3	1.20	0.001	0.09	<0.1	6.7	0.18	0.02	427	0.5	0.06	3.5	4.61	<0.1	0.06
118589	Soil	9.2	19.5	0.32	104.2	0.004	3	1.18	0.002	0.11	<0.1	8.0	0.12	0.02	100	0.2	0.06	3.6	4.34	<0.1	0.04
118590	Soil	8.7	16.1	0.23	72.3	0.002	2	0.74	0.002	0.08	<0.1	4.4	0.07	<0.02	43	<0.1	0.03	2.8	2.56	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 13, 2011

Page: 6 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
119846	Soil	0.24	7.7	4.4	<0.05	1.6	18.68	18.5	0.07	<1	1.0	46.0	<10	<2
119847	Soil	0.24	6.4	7.9	<0.05	1.2	16.27	21.5	0.04	<1	1.0	32.9	<10	<2
119848	Soil	0.28	6.9	1.9	<0.05	1.9	12.64	14.7	0.06	<1	0.8	31.8	<10	<2
119849	Soil	0.30	6.8	1.6	<0.05	1.5	12.28	14.5	0.02	<1	1.0	38.1	<10	<2
119850	Soil	0.41	8.6	1.6	<0.05	1.7	10.68	15.1	0.05	<1	1.0	49.0	<10	<2
119887	Soil	0.23	5.0	1.9	<0.05	0.8	10.02	17.3	0.03	<1	0.8	12.3	<10	<2
119888	Soil	0.28	10.9	8.7	<0.05	1.1	4.46	18.6	0.03	<1	0.7	24.3	<10	<2
119889	Soil	0.13	9.6	3.4	<0.05	0.3	3.73	20.8	0.04	<1	0.4	8.8	<10	<2
119890	Soil	0.12	12.7	2.1	<0.05	0.2	3.57	17.4	0.04	<1	0.5	7.7	<10	<2
119891	Soil	0.19	7.9	3.0	<0.05	1.7	11.54	23.9	0.04	<1	0.9	20.4	<10	<2
119892	Soil	0.27	14.6	1.8	<0.05	1.1	24.93	42.3	0.06	1	1.3	32.6	<10	<2
119893	Soil	0.37	15.1	1.4	<0.05	0.9	24.95	26.9	0.05	<1	1.3	30.6	<10	<2
119894	Soil	0.23	9.5	4.5	<0.05	1.5	47.17	73.4	0.05	2	1.6	44.2	<10	<2
119895	Soil	0.36	19.4	1.4	<0.05	0.3	2.52	5.5	0.03	<1	0.5	24.3	<10	<2
119896	Soil	0.54	13.3	2.4	<0.05	0.2	2.76	12.0	0.04	<1	1.1	40.2	<10	<2
119897	Soil	0.40	16.0	4.6	<0.05	1.0	11.00	12.7	0.06	<1	1.0	19.9	<10	<2
119898	Soil	0.35	25.8	1.7	<0.05	1.5	20.31	13.7	0.04	<1	1.1	25.4	<10	<2
119899	Soil	0.63	15.2	2.8	<0.05	0.2	2.42	9.3	0.04	<1	0.7	25.4	<10	<2
119900	Soil	0.55	20.9	19.3	<0.05	<0.1	2.24	13.2	0.05	<1	0.3	12.3	<10	<2
118580	Soil	0.38	10.3	6.9	<0.05	1.4	10.06	12.6	0.04	<1	0.9	42.3	<10	<2
118581	Soil	0.32	8.4	3.7	<0.05	2.3	12.28	13.3	0.05	<1	1.2	54.2	<10	<2
118582	Soil	0.14	5.9	2.0	<0.05	3.1	11.43	13.2	0.04	<1	0.9	56.2	<10	<2
118583	Soil	0.23	8.9	2.1	<0.05	1.5	8.96	11.0	0.06	2	0.9	47.3	<10	<2
118584	Soil	0.29	9.9	1.4	<0.05	0.8	17.71	17.7	0.05	<1	1.3	9.9	<10	<2
118585	Soil	0.24	10.1	5.3	<0.05	0.7	10.98	21.0	0.04	<1	0.9	8.6	<10	<2
118586	Soil	0.12	6.6	2.9	<0.05	1.6	23.92	18.9	0.06	1	1.3	20.5	<10	<2
118587	Soil	0.21	9.8	3.9	<0.05	1.6	21.50	19.7	0.05	<1	1.0	18.8	<10	<2
118588	Soil	0.13	7.6	10.3	<0.05	2.4	8.97	8.0	0.06	<1	1.1	47.0	<10	<2
118589	Soil	0.16	8.9	5.3	<0.05	1.6	15.71	18.6	0.04	<1	1.1	39.3	<10	<2
118590	Soil	0.09	6.4	6.1	<0.05	0.5	5.55	16.0	0.04	<1	1.0	20.8	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 13, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
118591	Soil	0.51	16.28	25.16	54.2	48	18.3	9.8	502	2.15	28.8	0.6	2.6	4.0	16.8	0.11	0.63	0.17	9	0.07	0.028
118592	Soil	0.60	51.37	43.83	100.1	181	37.4	21.2	584	4.22	8.3	0.5	5.5	5.5	45.5	0.12	0.38	0.51	20	0.77	0.052
118593	Soil	0.75	60.53	43.70	127.3	301	42.0	22.4	294	5.36	14.8	1.3	2.8	5.9	88.5	0.25	0.58	0.61	18	1.77	0.075
118594	Soil	0.91	40.09	41.11	98.8	195	40.9	21.3	384	3.65	16.8	1.2	2.4	3.8	69.4	0.13	0.52	0.47	18	0.78	0.049
118595	Soil	0.79	29.05	30.95	72.9	210	24.1	11.2	349	2.61	8.9	1.0	2.9	2.3	105.1	0.08	0.42	0.37	16	1.42	0.064
118596	Soil	0.86	39.21	31.60	69.5	321	32.7	14.3	477	3.43	20.0	2.5	2.2	3.0	153.7	0.25	0.49	0.38	13	2.76	0.088
118597	Soil	0.45	33.43	25.26	67.1	213	21.6	11.6	492	2.69	15.4	1.4	2.0	1.8	131.7	0.12	0.40	0.39	18	1.74	0.071
118598	Soil	1.57	36.70	30.23	86.1	177	21.9	8.7	167	5.91	15.2	0.5	1.4	2.7	5.1	0.07	0.73	0.51	39	0.02	0.038
118599	Soil	0.49	25.55	23.86	75.6	32	25.7	13.2	318	3.89	12.5	0.5	1.3	3.4	12.4	0.08	0.36	0.38	28	0.04	0.026
118600	Soil	0.68	28.35	29.84	79.1	124	27.2	15.6	286	4.01	12.8	0.7	0.8	3.7	51.3	0.07	0.43	0.37	23	0.25	0.051
119182	Soil	0.81	26.38	14.47	66.6	116	13.0	6.7	349	2.65	13.0	0.6	1.3	0.3	9.8	0.10	0.75	0.36	35	0.02	0.060
119183	Soil	0.54	32.27	18.42	97.5	91	22.7	8.7	204	3.07	82.8	0.7	5.3	0.5	20.9	0.14	1.37	0.37	24	0.14	0.065
119184	Soil	0.88	43.33	28.56	109.5	157	34.3	13.5	303	3.73	51.8	0.6	6.3	1.5	35.3	0.11	3.11	0.52	16	0.30	0.060
119185	Soil	1.01	53.34	50.90	124.7	427	50.9	18.6	731	6.12	64.5	1.5	38.3	4.3	67.8	0.12	9.08	0.59	13	0.58	0.128
119186	Soil	0.78	25.42	16.02	92.0	86	16.9	7.5	320	3.38	23.5	0.9	0.2	0.2	15.8	0.22	1.14	0.37	31	0.08	0.077
119187	Soil	0.89	25.41	18.46	100.4	124	19.2	9.2	451	3.94	20.3	0.9	1.0	0.6	25.8	0.43	1.06	0.38	35	0.25	0.090
119188	Soil	0.80	34.29	19.53	68.9	113	23.6	9.0	385	3.04	118.4	2.9	1.9	1.7	66.2	0.18	3.26	0.35	20	0.70	0.144
119189	Soil	0.63	30.31	21.20	63.7	82	21.3	10.7	676	3.29	17.8	2.0	0.5	2.4	48.2	0.16	0.73	0.39	22	0.64	0.144
119190	Soil	0.59	42.22	28.30	80.6	70	27.2	15.0	936	3.81	31.1	2.1	1.1	4.1	42.6	0.15	0.69	0.48	20	0.44	0.103
119191	Soil	0.71	38.73	21.46	101.9	69	24.8	11.3	485	3.18	29.0	1.2	0.5	1.2	26.0	0.27	1.70	0.40	20	0.07	0.064
119192	Soil	0.61	50.65	18.87	88.8	155	22.6	11.7	996	2.54	27.8	9.7	1.0	0.8	183.8	0.34	0.74	0.36	21	2.44	0.174
119193	Soil	1.07	27.47	27.98	99.1	70	21.6	15.7	557	4.58	49.3	0.7	0.3	2.3	28.2	0.24	0.69	0.43	37	0.24	0.059
119194	Soil	1.23	16.74	16.98	75.5	42	17.8	10.1	549	3.82	15.3	0.6	0.3	1.9	12.4	0.13	0.53	0.40	50	0.05	0.039
119195	Soil	1.29	31.56	31.44	95.8	87	16.5	13.3	979	4.89	19.0	0.4	<0.2	0.7	27.2	0.29	0.59	0.46	47	0.11	0.076
119196	Soil	0.72	23.48	22.27	77.4	68	11.0	10.4	1332	3.04	9.9	0.3	1.0	0.5	12.3	0.24	0.36	0.47	43	0.01	0.070
119197	Soil	0.87	16.31	14.29	42.5	22	12.2	5.0	88	1.91	31.2	0.3	0.4	3.8	8.0	0.04	0.74	0.22	31	<0.01	0.016
119198	Soil	0.49	51.35	21.36	82.1	30	30.1	13.8	200	3.68	52.6	0.5	1.2	2.4	20.5	0.06	1.67	0.51	18	0.08	0.032
119199	Soil	2.37	27.30	24.94	62.5	87	19.6	7.9	503	2.98	82.4	0.6	6.5	0.6	20.2	0.23	1.05	0.40	34	0.16	0.053
119200	Soil	1.13	28.37	37.40	69.0	54	25.4	14.5	422	2.59	96.1	0.6	14.5	3.4	22.9	0.16	1.40	0.37	14	0.13	0.037
118062	Soil	0.41	16.72	14.33	41.2	30	12.8	5.3	84	2.45	8.2	0.4	0.7	2.6	11.0	0.09	0.40	0.26	16	0.03	0.019



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
118591	Soil	5.2	8.1	0.09	50.1	0.002	2	0.32	0.002	0.05	<0.1	3.4	0.07	<0.02	48	<0.1	<0.02	0.9	1.68	<0.1	<0.02
118592	Soil	6.1	23.3	0.39	182.4	0.004	5	1.27	0.003	0.11	<0.1	8.2	0.12	0.05	85	0.3	0.03	4.1	2.82	<0.1	0.05
118593	Soil	8.3	15.8	0.32	109.8	0.002	4	0.93	0.004	0.08	<0.1	9.0	0.13	0.06	149	0.6	0.09	2.5	2.15	<0.1	0.07
118594	Soil	6.0	21.7	0.35	151.9	0.002	4	1.28	0.003	0.08	<0.1	5.8	0.14	0.05	95	0.3	0.05	3.2	3.46	<0.1	0.04
118595	Soil	4.3	21.5	0.37	99.3	0.003	5	1.03	0.004	0.07	<0.1	4.7	0.09	0.08	84	0.3	0.04	2.7	2.19	<0.1	0.06
118596	Soil	10.1	13.0	0.20	178.9	0.002	4	0.72	0.004	0.06	<0.1	4.9	0.13	0.10	136	0.7	0.05	1.9	0.77	<0.1	0.04
118597	Soil	7.5	17.3	0.31	121.0	0.003	5	1.06	0.004	0.06	<0.1	4.5	0.10	0.08	145	0.5	0.03	2.7	1.29	<0.1	0.04
118598	Soil	3.7	19.1	0.18	30.9	0.004	2	1.21	<0.001	0.07	<0.1	3.3	0.13	<0.02	46	0.3	0.08	5.8	2.54	<0.1	0.04
118599	Soil	4.5	23.7	0.41	64.2	0.002	3	1.78	0.002	0.09	<0.1	2.8	0.09	<0.02	26	0.1	0.06	4.9	1.47	<0.1	0.03
118600	Soil	4.8	23.4	0.38	71.4	0.002	4	1.68	0.003	0.09	<0.1	5.2	0.11	<0.02	29	0.2	0.06	4.1	1.64	<0.1	0.04
119182	Soil	6.6	15.5	0.10	67.9	0.004	1	0.86	0.002	0.07	<0.1	0.7	0.13	0.05	39	0.3	0.04	4.0	4.52	<0.1	<0.02
119183	Soil	5.1	16.0	0.10	73.9	0.002	2	0.66	0.002	0.09	<0.1	1.5	0.09	0.04	135	0.3	0.02	2.4	3.47	<0.1	<0.02
119184	Soil	6.2	8.0	0.06	127.1	<0.001	2	0.64	0.003	0.08	<0.1	5.9	0.13	0.04	123	0.2	0.07	1.6	2.17	<0.1	<0.02
119185	Soil	17.8	9.0	0.13	85.6	0.002	2	0.62	0.003	0.06	<0.1	10.7	0.18	0.04	522	0.6	0.10	1.1	2.07	<0.1	0.04
119186	Soil	8.5	20.9	0.18	69.1	0.006	2	0.94	0.003	0.09	<0.1	0.7	0.09	0.04	40	0.2	0.05	3.7	3.57	<0.1	<0.02
119187	Soil	7.6	26.0	0.32	76.5	0.009	2	1.28	0.003	0.08	<0.1	1.6	0.08	0.05	40	0.3	0.02	3.9	2.85	<0.1	<0.02
119188	Soil	13.4	19.2	0.20	128.3	0.004	3	0.95	0.004	0.08	<0.1	4.3	0.14	0.09	232	0.4	0.04	2.3	2.29	<0.1	0.05
119189	Soil	13.9	17.0	0.20	164.1	0.003	2	1.02	0.004	0.08	<0.1	5.7	0.06	0.08	48	0.1	0.05	2.6	0.99	<0.1	0.02
119190	Soil	18.6	18.3	0.25	96.5	0.003	3	1.19	0.003	0.10	<0.1	10.3	0.09	0.05	60	0.1	0.08	2.7	1.57	<0.1	0.02
119191	Soil	9.0	17.7	0.16	89.0	0.003	2	0.81	0.002	0.12	<0.1	2.4	0.08	0.03	61	0.3	0.04	2.5	1.01	<0.1	<0.02
119192	Soil	12.8	17.8	0.36	238.7	0.005	5	1.23	0.006	0.07	<0.1	3.7	0.09	0.18	148	0.8	<0.02	3.0	2.14	<0.1	0.02
119193	Soil	6.2	24.4	0.38	86.1	0.009	3	1.68	0.003	0.12	<0.1	2.9	0.10	0.04	29	0.2	0.05	4.6	5.71	<0.1	<0.02
119194	Soil	11.0	27.8	0.36	91.9	0.012	2	1.74	0.002	0.09	0.2	2.2	0.12	<0.02	31	0.2	0.03	6.0	2.01	<0.1	<0.02
119195	Soil	6.5	21.6	0.17	94.4	0.008	2	1.05	0.002	0.10	<0.1	1.8	0.09	0.03	20	0.3	0.08	5.6	3.06	<0.1	<0.02
119196	Soil	8.1	17.4	0.16	69.2	0.008	3	1.10	0.002	0.10	<0.1	1.2	0.11	<0.02	18	0.1	0.04	6.1	2.71	<0.1	<0.02
119197	Soil	9.7	7.3	0.04	24.6	0.009	1	0.37	0.002	0.04	<0.1	1.5	0.08	<0.02	31	0.2	<0.02	3.1	2.10	<0.1	<0.02
119198	Soil	6.3	10.3	0.08	40.3	0.001	1	0.37	0.002	0.09	<0.1	3.4	0.08	<0.02	125	0.1	0.04	1.8	2.20	<0.1	<0.02
119199	Soil	7.3	19.3	0.09	79.2	0.005	<1	0.73	0.003	0.07	<0.1	1.6	0.12	0.04	44	0.2	0.05	4.2	1.80	<0.1	<0.02
119200	Soil	7.0	14.3	0.07	60.4	0.002	1	0.45	0.004	0.07	<0.1	3.4	0.08	0.02	273	0.1	0.02	1.6	1.46	<0.1	<0.02
118062	Soil	5.3	10.1	0.06	49.4	0.001	1	0.59	0.002	0.08	<0.1	1.5	0.06	<0.02	17	<0.1	<0.02	2.0	1.24	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 7 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
118591	Soil	0.06	5.2	2.9	<0.05	0.5	5.34	9.0	0.02	<1	0.5	4.5	<10	<2
118592	Soil	0.26	7.8	3.1	<0.05	1.6	13.49	16.1	0.07	<1	1.1	47.5	<10	<2
118593	Soil	0.16	6.3	2.2	<0.05	2.5	20.51	19.2	0.06	<1	1.1	27.9	<10	<2
118594	Soil	0.20	9.4	3.0	<0.05	2.2	14.19	15.3	0.07	<1	1.2	47.2	<10	<2
118595	Soil	0.24	7.8	8.5	<0.05	2.8	10.20	11.3	0.05	<1	0.8	36.8	<10	<2
118596	Soil	0.21	5.4	2.1	<0.05	2.5	17.23	23.0	0.06	2	0.8	17.4	<10	<2
118597	Soil	0.30	7.8	1.6	<0.05	1.6	13.09	17.2	0.04	<1	0.8	30.4	<10	<2
118598	Soil	0.51	11.5	3.1	<0.05	2.0	2.61	6.3	0.05	<1	0.4	17.9	<10	<2
118599	Soil	0.24	10.6	3.2	<0.05	1.5	2.45	9.1	0.04	<1	0.7	50.5	<10	<2
118600	Soil	0.23	8.8	4.5	<0.05	1.1	7.50	12.3	0.04	<1	0.8	41.7	<10	<2
119182	Soil	0.23	16.9	1.0	<0.05	<0.1	2.07	11.4	0.02	<1	0.3	5.4	<10	<2
119183	Soil	0.15	12.1	1.2	<0.05	0.1	2.56	8.8	0.04	<1	0.6	6.0	<10	<2
119184	Soil	0.10	10.1	3.7	<0.05	0.6	11.07	10.7	0.07	<1	1.2	3.2	<10	<2
119185	Soil	0.09	6.9	1.2	<0.05	1.2	39.23	28.3	0.07	1	1.5	4.2	<10	3
119186	Soil	0.21	15.5	1.8	<0.05	<0.1	3.43	14.8	0.04	<1	0.5	10.1	<10	<2
119187	Soil	0.33	12.5	2.2	<0.05	<0.1	3.11	13.8	0.05	<1	0.8	26.7	<10	<2
119188	Soil	0.26	11.4	1.5	<0.05	1.2	16.21	27.5	0.06	<1	1.2	12.8	<10	<2
119189	Soil	0.22	10.6	2.3	<0.05	0.7	17.66	32.9	0.04	<1	1.2	14.7	<10	<2
119190	Soil	0.17	8.4	1.7	<0.05	0.9	33.53	46.3	0.06	<1	1.4	22.8	<10	<2
119191	Soil	0.17	8.1	2.2	<0.05	0.2	4.05	17.1	0.06	<1	0.6	8.6	<10	<2
119192	Soil	0.34	8.9	0.7	<0.05	0.8	22.99	20.9	0.04	<1	1.1	17.5	<10	<2
119193	Soil	0.56	14.9	1.2	<0.05	0.3	2.88	12.6	0.06	<1	1.0	50.3	<10	<2
119194	Soil	0.77	14.2	1.7	<0.05	0.1	2.65	17.9	0.03	<1	0.7	33.7	<10	<2
119195	Soil	0.44	18.5	7.1	<0.05	<0.1	2.55	10.4	0.03	<1	0.5	11.7	<10	<2
119196	Soil	0.32	17.8	6.8	<0.05	<0.1	2.19	13.2	0.04	<1	0.4	7.3	<10	<2
119197	Soil	0.36	10.6	3.0	<0.05	1.0	1.42	15.1	<0.02	<1	<0.1	0.9	<10	<2
119198	Soil	0.09	8.0	1.7	<0.05	0.1	2.32	10.3	0.05	<1	0.7	1.6	<10	<2
119199	Soil	0.31	10.6	6.4	<0.05	<0.1	2.71	11.4	0.04	<1	0.4	4.7	<10	<2
119200	Soil	0.18	6.6	5.5	<0.05	0.5	3.30	12.0	0.04	<1	0.6	5.1	<10	<2
118062	Soil	0.12	8.5	1.7	<0.05	0.3	1.52	8.7	0.03	<1	0.4	3.8	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 13, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
118063	Soil			0.56	32.80	21.07	127.8	327	21.7	7.0	204	2.80	13.5	3.8	2.0	1.4	98.7	0.21	0.56	0.43	22	1.27	0.141
118064	Soil			0.73	30.21	35.69	117.2	100	28.7	20.0	846	4.08	14.3	0.8	1.2	2.8	22.1	0.24	0.52	0.49	28	0.18	0.065
118065	Soil			0.79	26.22	26.19	123.3	98	21.3	10.6	497	4.67	9.9	0.7	1.0	0.6	19.1	0.27	0.48	0.51	37	0.08	0.086
118066	Soil			0.90	24.84	23.58	83.9	308	11.8	9.9	960	3.53	7.3	0.6	1.0	0.1	13.6	0.20	0.57	0.42	44	0.06	0.153
118067	Soil			0.78	28.85	24.55	111.6	106	18.1	9.2	923	4.04	7.7	1.9	0.3	1.5	58.0	0.32	0.41	0.42	33	0.80	0.257
118068	Soil			0.67	34.08	35.18	108.8	129	20.8	16.6	1861	4.88	10.9	0.5	0.9	1.2	13.1	0.29	0.46	0.43	34	0.04	0.111
118069	Soil			0.89	47.23	46.33	121.3	110	26.3	32.2	3536	3.94	13.2	1.5	0.8	2.1	38.9	0.45	0.69	0.51	26	0.81	0.180
118070	Soil			0.57	26.00	22.01	70.4	85	18.7	9.4	680	2.72	18.2	2.2	14.5	1.2	119.2	0.26	1.16	0.31	15	2.05	0.152
118071	Soil			0.56	25.06	25.22	91.2	90	21.5	11.2	851	3.58	10.2	2.6	3.5	2.0	51.8	0.19	0.56	0.36	18	0.83	0.117
118072	Soil			0.75	24.87	19.98	85.4	148	22.0	9.2	401	2.84	10.7	1.7	3.4	2.0	49.8	0.29	0.62	0.36	24	0.69	0.121
118073	Soil			0.95	22.45	23.85	91.3	58	16.8	8.5	334	3.08	22.5	1.1	1.3	0.4	49.2	0.27	1.04	0.37	33	0.61	0.098
118074	Soil			0.81	13.39	17.25	57.7	83	14.7	7.4	326	3.24	13.6	0.9	2.5	0.5	19.7	0.16	0.74	0.29	47	0.16	0.079
118075	Soil			0.69	21.91	18.09	88.9	260	12.8	9.4	422	2.69	18.8	9.7	4.6	1.2	71.0	0.69	1.29	0.23	19	0.92	0.083
118076	Soil			1.03	19.07	21.02	67.3	360	15.5	7.3	417	2.54	23.1	6.9	3.5	0.9	67.6	0.25	1.01	0.22	30	0.78	0.069
118077	Soil			0.49	28.51	20.99	98.3	59	26.8	10.6	293	3.27	26.4	1.5	2.6	3.4	21.1	0.11	1.62	0.26	29	0.28	0.056
118078	Soil			0.63	34.03	18.86	100.8	96	33.2	15.3	430	3.18	19.7	0.9	2.4	5.9	93.1	0.14	0.68	0.32	18	3.38	0.066
118079	Soil			0.54	37.98	25.69	102.4	65	36.1	14.9	374	3.15	49.4	0.9	3.1	5.2	84.9	0.16	0.79	0.34	22	2.04	0.085
118080	Soil			0.25	45.92	18.94	100.0	39	45.0	16.1	374	2.78	30.6	0.7	5.6	5.3	128.9	0.16	0.35	0.46	12	3.35	0.046
118081	Soil			0.60	48.97	28.45	123.7	105	44.4	17.2	514	3.64	27.7	0.8	4.3	4.9	70.1	0.25	0.81	0.38	21	0.99	0.063
118082	Soil			0.56	41.20	21.66	110.6	75	41.4	14.1	327	3.40	49.1	0.9	3.7	3.0	52.8	0.16	0.83	0.35	18	0.47	0.053
118083	Soil			0.47	34.89	22.43	95.1	62	38.6	12.2	404	2.94	40.8	1.0	5.6	2.2	70.6	0.16	1.01	0.32	13	0.88	0.059
118084	Soil			0.63	41.52	25.99	106.9	82	48.0	13.8	450	3.64	14.1	0.8	4.1	4.0	43.8	0.12	0.51	0.37	17	0.18	0.045
118085	Soil			0.53	45.96	33.82	116.5	85	41.8	13.2	336	3.41	15.9	0.9	3.5	3.3	40.8	0.17	0.46	0.42	14	0.45	0.072
118086	Soil			0.42	32.58	16.01	94.9	67	28.3	10.4	242	2.89	95.0	0.9	2.7	3.9	50.7	0.13	0.58	0.26	15	0.70	0.063
118087	Soil			0.41	50.20	31.57	104.1	86	29.9	16.7	253	2.86	33.1	0.7	4.2	3.2	51.8	0.10	2.12	0.54	8	0.55	0.037
118088	Soil			0.58	46.15	31.50	88.1	115	30.7	19.3	890	4.07	21.4	1.3	1.2	3.0	84.4	0.19	0.63	0.42	20	0.98	0.080
118089	Soil			0.61	32.21	30.17	75.3	87	26.7	16.7	545	3.63	32.7	1.0	0.8	3.4	26.7	0.10	0.50	0.33	23	0.17	0.046
118090	Soil			0.86	43.65	51.36	103.5	257	46.2	22.4	517	5.22	29.6	0.9	1.6	3.7	83.3	0.10	0.50	0.41	18	1.08	0.058
118091	Soil			0.64	46.29	46.53	117.2	236	44.7	22.2	374	4.58	36.2	0.7	0.9	3.1	69.7	0.08	0.49	0.43	19	0.98	0.052
118092	Soil			0.61	30.16	31.93	75.2	164	25.8	16.4	478	3.29	28.5	2.3	0.7	1.8	44.5	0.13	0.44	0.37	20	0.50	0.069



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
118063	Soil	11.5	21.7	0.30	137.7	0.007	3	1.40	0.006	0.08	<0.1	3.4	0.07	0.13	99	0.8	0.03	3.5	5.09	<0.1	0.04
118064	Soil	8.1	18.3	0.20	115.3	0.003	1	1.24	0.003	0.10	<0.1	4.0	0.10	0.02	36	0.1	0.07	3.9	1.58	<0.1	0.02
118065	Soil	6.5	27.8	0.38	66.6	0.007	3	1.79	0.003	0.12	<0.1	1.3	0.09	0.05	31	0.3	0.05	6.0	4.87	<0.1	<0.02
118066	Soil	4.9	22.8	0.10	84.2	0.004	2	1.12	0.003	0.11	<0.1	0.4	0.10	0.12	54	0.5	0.05	5.7	2.52	<0.1	<0.02
118067	Soil	5.4	24.3	0.33	162.7	0.006	3	1.59	0.004	0.11	<0.1	2.8	0.09	0.13	24	0.3	0.05	5.0	4.54	<0.1	0.03
118068	Soil	4.3	24.7	0.28	112.7	0.006	3	1.71	0.003	0.11	<0.1	2.5	0.10	0.08	53	0.3	0.03	5.5	4.36	<0.1	<0.02
118069	Soil	10.5	22.4	0.32	188.4	0.009	4	1.68	0.005	0.13	<0.1	8.6	0.12	0.11	50	0.2	0.05	4.1	3.43	<0.1	0.02
118070	Soil	16.1	12.6	0.20	213.9	0.004	4	0.94	0.004	0.06	<0.1	4.2	0.09	0.16	69	0.1	0.05	2.1	1.49	<0.1	0.05
118071	Soil	17.2	17.4	0.20	124.1	0.004	2	1.24	0.002	0.07	<0.1	6.4	0.09	0.07	53	<0.1	0.05	2.3	3.26	<0.1	0.03
118072	Soil	14.0	18.1	0.23	152.6	0.005	2	1.09	0.004	0.06	<0.1	5.0	0.13	0.08	105	0.2	0.04	2.6	2.33	<0.1	0.05
118073	Soil	7.0	17.6	0.14	130.0	0.005	1	1.10	0.002	0.05	<0.1	1.7	0.16	0.05	130	0.3	0.08	3.8	2.39	<0.1	<0.02
118074	Soil	9.7	26.2	0.30	144.4	0.007	1	1.91	<0.001	0.04	0.1	1.2	0.15	0.04	56	0.3	<0.02	5.1	1.20	<0.1	<0.02
118075	Soil	21.5	12.2	0.12	136.7	0.002	1	0.73	0.002	0.04	<0.1	3.8	0.13	0.06	129	0.4	0.02	1.4	0.47	<0.1	0.03
118076	Soil	17.2	20.9	0.15	110.9	0.004	1	0.95	<0.001	0.04	<0.1	2.5	0.17	0.05	182	0.6	0.03	2.5	0.40	<0.1	<0.02
118077	Soil	11.6	35.2	0.28	70.2	0.003	2	0.70	0.001	0.06	<0.1	5.7	0.09	0.02	81	0.6	<0.02	2.1	1.08	<0.1	0.06
118078	Soil	13.8	21.5	1.89	109.7	0.001	3	0.32	0.007	0.08	<0.1	7.5	0.12	0.04	186	1.2	<0.02	1.0	3.04	<0.1	0.04
118079	Soil	13.4	33.5	1.29	94.4	0.003	3	0.58	0.004	0.08	<0.1	7.2	0.29	0.05	184	1.3	0.02	2.3	4.13	<0.1	0.06
118080	Soil	5.7	18.3	1.35	61.6	0.002	2	0.62	0.003	0.10	<0.1	7.1	0.08	0.03	113	0.2	<0.02	2.0	3.84	<0.1	0.08
118081	Soil	15.0	30.9	0.98	96.6	0.003	4	0.90	0.003	0.08	<0.1	8.6	0.14	0.04	222	0.7	0.02	2.9	4.83	<0.1	0.07
118082	Soil	11.0	26.5	0.27	66.5	0.002	3	0.49	0.002	0.07	<0.1	8.7	0.19	0.04	138	1.0	0.02	1.8	2.17	<0.1	0.07
118083	Soil	7.0	21.1	0.38	38.7	0.001	3	0.58	0.004	0.07	<0.1	6.8	0.19	0.06	191	0.5	<0.02	1.9	2.74	<0.1	0.10
118084	Soil	9.4	32.1	0.64	36.6	0.003	2	1.10	<0.001	0.07	<0.1	10.0	0.09	0.03	107	0.2	0.02	3.0	3.79	<0.1	0.08
118085	Soil	8.5	23.1	0.41	51.0	0.002	3	0.84	0.002	0.08	<0.1	8.9	0.09	0.04	132	0.3	0.03	2.3	3.74	<0.1	0.10
118086	Soil	13.3	21.3	0.34	81.5	0.001	3	0.66	0.001	0.07	<0.1	7.6	0.27	0.05	153	1.1	0.03	1.8	1.46	<0.1	0.07
118087	Soil	5.9	8.3	0.14	79.0	<0.001	3	0.42	0.002	0.08	<0.1	8.3	0.12	<0.02	111	0.3	0.14	1.0	2.07	<0.1	0.04
118088	Soil	13.2	19.9	0.36	158.4	0.002	3	1.38	0.002	0.07	<0.1	11.4	0.11	0.05	108	0.2	0.05	3.5	2.61	<0.1	0.05
118089	Soil	7.9	23.4	0.43	80.7	0.003	2	1.71	<0.001	0.09	<0.1	6.4	0.15	0.03	38	0.1	0.05	4.5	6.13	<0.1	0.03
118090	Soil	8.1	22.5	0.38	80.8	0.002	3	1.41	0.002	0.07	<0.1	10.0	0.14	0.05	162	0.5	0.10	3.6	4.52	<0.1	0.03
118091	Soil	6.9	22.6	0.41	86.0	0.002	4	1.44	0.003	0.08	<0.1	9.5	0.11	0.05	95	0.4	0.07	4.2	4.32	<0.1	0.05
118092	Soil	9.3	23.3	0.32	91.4	0.002	3	1.40	0.003	0.07	<0.1	5.6	0.07	0.08	97	0.4	0.07	3.7	2.16	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 13, 2011

Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
118063	Soil	0.48	20.4	1.3	<0.05	1.1	19.40	13.4	0.04	<1	1.1	30.4	<10	<2
118064	Soil	0.29	13.3	2.1	<0.05	0.6	8.07	22.2	0.07	<1	0.8	18.3	<10	<2
118065	Soil	0.41	14.3	3.3	<0.05	<0.1	2.73	10.9	0.06	<1	0.9	45.4	<10	<2
118066	Soil	0.25	18.8	3.0	<0.05	<0.1	1.57	7.6	0.04	<1	0.5	5.5	<10	<2
118067	Soil	0.28	17.2	1.4	<0.05	0.6	9.24	12.8	0.05	<1	1.2	24.1	<10	<2
118068	Soil	0.46	14.1	1.9	<0.05	0.3	3.17	8.0	0.05	<1	0.9	34.1	<10	<2
118069	Soil	0.30	13.6	5.8	<0.05	0.7	26.12	23.6	0.07	<1	1.7	27.3	<10	<2
118070	Soil	0.31	8.6	2.5	<0.05	1.2	29.35	22.1	0.06	<1	1.1	10.6	<10	<2
118071	Soil	0.27	11.1	1.1	<0.05	0.8	32.96	61.8	0.06	<1	1.6	13.7	<10	<2
118072	Soil	0.40	10.4	1.1	<0.05	1.8	19.09	26.1	0.04	<1	1.2	9.9	<10	<2
118073	Soil	0.34	13.2	0.8	<0.05	0.2	7.10	22.1	0.04	<1	0.7	9.5	<10	<2
118074	Soil	0.61	7.5	0.8	<0.05	0.1	5.16	24.6	0.05	<1	0.9	15.8	<10	<2
118075	Soil	0.17	8.2	0.5	<0.05	0.9	14.08	39.1	0.04	<1	1.0	6.6	<10	<2
118076	Soil	0.24	8.0	0.5	<0.05	0.6	10.26	34.6	0.03	<1	0.9	9.9	<10	<2
118077	Soil	0.15	6.0	2.4	<0.05	1.6	10.21	27.0	0.04	<1	0.8	11.1	<10	<2
118078	Soil	0.04	5.9	1.7	<0.05	1.9	10.74	32.3	0.05	<1	0.8	5.8	<10	<2
118079	Soil	0.12	7.9	5.1	<0.05	2.2	13.17	30.9	0.05	<1	0.8	17.7	<10	<2
118080	Soil	0.03	7.3	1.0	<0.05	4.9	9.57	12.4	0.03	<1	1.0	16.0	<10	<2
118081	Soil	0.13	8.2	8.3	<0.05	2.6	12.37	30.9	0.05	<1	1.1	28.8	<10	<2
118082	Soil	0.11	5.9	1.6	<0.05	2.0	14.24	23.3	0.04	<1	0.8	11.1	<10	<2
118083	Soil	0.16	5.9	5.3	<0.05	3.0	11.45	13.7	0.05	<1	0.9	13.7	<10	<2
118084	Soil	0.17	6.7	3.7	<0.05	2.3	20.00	17.8	0.04	<1	1.4	31.9	<10	<2
118085	Soil	0.15	7.8	13.2	<0.05	2.8	16.76	15.1	0.05	<1	1.4	22.4	<10	<2
118086	Soil	0.12	6.6	1.0	<0.05	2.7	13.75	28.6	0.04	<1	0.9	14.4	<10	<2
118087	Soil	0.08	5.8	1.7	<0.05	1.4	15.24	13.1	0.06	<1	1.2	4.9	<10	<2
118088	Soil	0.20	8.2	1.5	<0.05	1.4	30.88	29.8	0.05	<1	1.6	31.5	<10	<2
118089	Soil	0.33	12.1	16.9	<0.05	1.1	12.03	19.5	0.06	<1	1.4	47.2	<10	<2
118090	Soil	0.17	8.7	2.0	<0.05	1.5	21.47	22.2	0.06	<1	1.1	40.6	<10	<2
118091	Soil	0.20	9.1	1.0	<0.05	1.8	19.99	18.4	0.06	<1	1.2	51.5	<10	<2
118092	Soil	0.38	10.4	2.2	<0.05	1.3	16.88	23.9	0.04	<1	0.9	29.3	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
118093	Soil	0.37	35.75	24.15	80.3	195	22.4	11.1	602	2.10	10.5	1.6	2.2	1.3	135.7	0.11	0.34	0.33	18	1.93	0.075
118094	Soil	0.31	43.36	21.40	83.3	169	25.7	12.1	465	2.48	11.7	1.6	2.0	1.8	155.0	0.11	0.36	0.33	18	1.42	0.060
118095	Soil	0.42	43.58	24.13	91.5	188	28.1	13.9	496	2.93	14.4	1.4	1.4	1.7	130.0	0.12	0.51	0.34	20	1.53	0.063
118096	Soil	0.46	35.26	24.78	97.0	121	26.7	13.7	441	3.31	19.7	0.8	3.9	3.2	70.7	0.08	0.55	0.35	16	0.79	0.046
118097	Soil	0.56	42.16	28.23	115.5	157	31.8	15.7	453	3.59	16.9	1.3	3.4	2.7	70.6	0.12	0.53	0.42	19	0.66	0.055
118098	Soil	0.37	31.08	21.14	102.9	142	25.2	11.6	316	2.97	13.0	1.2	1.6	2.4	80.1	0.08	0.37	0.33	20	0.96	0.058
118099	Soil	0.36	34.95	21.31	98.9	171	24.0	11.1	445	2.82	10.6	1.1	2.0	1.8	164.5	0.11	0.36	0.30	20	1.34	0.064
118100	Soil	0.78	18.45	15.37	62.7	11	15.5	7.2	120	2.54	65.5	0.4	0.6	3.7	10.6	0.07	0.73	0.31	33	0.02	0.019
612797	Soil	0.76	50.93	27.58	133.0	291	27.6	14.4	811	3.35	12.8	0.9	0.4	1.6	114.6	0.36	0.40	0.40	28	0.50	0.070
612798	Soil	0.67	17.48	20.06	109.8	105	13.6	8.1	575	4.62	5.2	0.4	<0.2	0.4	16.6	0.19	0.29	0.47	39	0.07	0.080
612799	Soil	2.09	20.68	42.11	90.4	253	22.1	15.4	2245	5.04	14.3	0.6	0.8	0.5	13.8	0.32	0.66	0.36	48	0.04	0.079
612800	Soil	0.78	17.38	17.38	72.3	37	16.2	8.2	389	3.37	14.5	0.4	<0.2	1.2	38.7	0.08	0.38	0.33	29	0.20	0.051
118124	Soil	0.92	67.09	27.22	97.3	519	30.7	12.1	896	3.10	13.9	3.3	0.6	1.5	166.7	0.33	0.66	0.32	31	0.87	0.160
118125	Soil	0.82	13.15	18.86	99.3	282	12.0	7.3	502	3.90	7.8	0.4	4.8	0.7	7.4	0.25	0.51	0.33	39	0.03	0.052
118126	Soil	0.66	16.04	19.74	74.0	43	14.5	6.4	246	3.13	10.0	0.5	3.3	0.5	13.3	0.17	0.45	0.31	31	0.04	0.036
118127	Soil	0.88	14.67	13.44	63.3	42	12.2	6.5	269	2.94	8.2	0.4	1.5	1.1	8.1	0.14	0.57	0.30	38	0.03	0.028
118128	Soil	0.89	19.45	14.57	62.8	59	13.4	9.5	448	3.02	8.1	0.4	1.5	1.3	22.5	0.09	0.43	0.31	35	0.20	0.030
118129	Soil	0.85	27.23	18.98	97.3	98	14.7	10.0	1390	3.14	10.5	0.6	1.5	0.3	15.3	0.29	0.36	0.39	30	0.06	0.049
118130	Soil	0.61	21.89	22.61	95.0	39	20.9	13.3	843	3.57	11.0	0.8	1.0	1.7	43.7	0.26	0.42	0.32	27	0.41	0.072
118131	Soil	0.47	24.23	19.75	66.5	35	23.7	10.2	318	3.08	17.0	0.9	2.5	2.2	21.5	0.10	0.59	0.27	25	0.20	0.048
118132	Soil	0.39	19.21	17.43	191.6	184	10.6	5.4	311	2.23	154.7	2.1	3.2	0.7	243.5	0.98	2.73	0.19	15	2.42	0.269
118133	Soil	1.02	18.12	13.15	72.8	74	14.8	5.7	288	2.40	36.5	0.8	1.1	0.2	22.6	0.38	1.92	0.25	27	0.23	0.086
118134	Soil	0.52	24.58	18.46	99.4	251	14.7	5.2	221	1.83	111.3	4.9	5.2	0.7	109.3	0.38	2.51	0.18	17	1.15	0.083
118135	Soil	0.65	20.75	14.20	96.3	70	20.7	7.4	244	2.66	25.5	1.2	0.9	2.0	53.7	0.16	0.86	0.27	31	0.54	0.038
118136	Soil	0.54	28.50	17.94	88.2	66	28.3	11.6	355	2.93	33.3	1.6	2.0	2.6	60.9	0.24	1.06	0.25	28	0.47	0.037
118137	Soil	0.59	26.89	16.79	72.4	26	26.9	11.1	303	3.38	20.3	1.0	3.9	1.5	45.9	0.09	0.97	0.24	26	0.34	0.042
118138	Soil	0.87	30.20	15.24	90.3	232	23.7	8.8	272	2.33	18.3	2.2	6.3	1.5	77.7	0.35	0.47	0.17	22	1.01	0.063
118139	Soil	0.88	36.26	18.09	101.7	252	28.9	11.7	312	2.52	43.0	1.3	5.5	3.2	59.1	0.30	0.97	0.21	24	1.19	0.062
118140	Soil	0.51	33.36	18.60	90.4	126	26.1	11.2	340	2.70	27.9	1.5	3.2	2.0	30.6	0.20	0.88	0.21	20	0.49	0.063
118141	Soil	0.52	34.37	19.61	110.6	110	29.5	12.7	427	2.77	115.0	0.8	6.9	2.4	102.7	0.23	2.27	0.22	18	1.75	0.067



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 13, 2011

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
118093	Soil	7.2	22.5	0.41	114.7	0.003	5	1.28	0.004	0.08	<0.1	5.1	0.14	0.10	143	0.5	0.02	3.8	4.60	<0.1	0.05
118094	Soil	7.0	22.1	0.45	101.4	0.003	7	1.39	0.004	0.09	<0.1	6.4	0.13	0.07	144	0.5	0.03	4.2	3.90	<0.1	0.04
118095	Soil	6.8	22.4	0.43	112.8	0.003	5	1.48	0.003	0.09	<0.1	5.9	0.10	0.07	131	0.4	0.05	4.1	2.64	<0.1	0.04
118096	Soil	6.0	18.0	0.30	84.2	0.002	4	0.97	0.003	0.09	<0.1	5.0	0.08	0.04	109	0.2	0.07	3.3	2.64	<0.1	0.05
118097	Soil	6.5	22.0	0.39	103.5	0.003	3	1.23	0.002	0.08	<0.1	4.9	0.09	0.04	124	0.3	0.06	3.8	2.42	<0.1	0.05
118098	Soil	6.8	21.5	0.43	89.8	0.003	5	1.40	0.002	0.10	<0.1	5.8	0.09	0.05	120	0.3	0.03	4.1	2.30	<0.1	0.04
118099	Soil	7.0	21.6	0.41	103.4	0.003	6	1.39	0.004	0.10	<0.1	5.9	0.12	0.07	153	0.5	0.04	3.9	2.68	<0.1	0.05
118100	Soil	9.3	13.6	0.12	59.7	0.005	1	1.02	<0.001	0.06	<0.1	2.0	0.16	<0.02	20	0.2	0.05	4.5	2.74	<0.1	0.03
612797	Soil	10.2	26.1	0.43	127.6	0.007	3	1.45	0.004	0.11	<0.1	4.1	0.11	0.05	48	0.3	0.07	5.3	3.78	<0.1	0.03
612798	Soil	5.0	25.7	0.24	96.0	0.008	3	1.40	0.001	0.14	<0.1	1.4	0.09	0.04	31	0.2	0.06	7.8	4.09	<0.1	<0.02
612799	Soil	7.8	32.2	0.22	199.5	0.012	2	1.37	0.002	0.09	<0.1	1.6	0.13	0.05	46	0.3	0.07	5.7	2.75	<0.1	<0.02
612800	Soil	7.4	19.6	0.29	110.6	0.005	1	1.17	0.002	0.08	<0.1	2.0	0.08	<0.02	22	<0.1	0.05	4.9	1.40	<0.1	<0.02
118124	Soil	18.9	26.7	0.48	169.1	0.011	3	1.83	0.005	0.08	0.1	4.4	0.12	0.08	68	0.4	0.03	4.3	5.49	<0.1	0.05
118125	Soil	6.1	20.4	0.22	49.8	0.008	1	1.21	0.001	0.07	<0.1	1.2	0.10	<0.02	20	0.2	0.04	4.9	2.04	<0.1	<0.02
118126	Soil	6.9	15.9	0.25	58.0	0.008	2	1.04	0.001	0.07	<0.1	1.4	0.09	<0.02	18	0.2	0.05	4.2	1.90	<0.1	<0.02
118127	Soil	9.0	15.6	0.22	65.2	0.018	2	0.94	0.001	0.08	0.1	1.8	0.09	<0.02	6	0.1	0.03	5.0	2.73	<0.1	<0.02
118128	Soil	6.5	16.2	0.18	82.4	0.007	2	0.88	0.001	0.09	<0.1	2.1	0.09	<0.02	8	0.1	0.06	4.1	1.97	<0.1	<0.02
118129	Soil	5.5	12.8	0.09	77.7	0.006	2	0.88	<0.001	0.09	<0.1	1.7	0.10	0.03	18	0.3	0.04	3.6	2.77	<0.1	<0.02
118130	Soil	6.6	18.8	0.33	115.8	0.003	2	1.46	0.002	0.09	<0.1	2.9	0.10	0.03	26	0.2	0.04	4.1	2.63	<0.1	0.03
118131	Soil	8.7	19.1	0.39	90.8	0.004	2	1.63	<0.001	0.07	<0.1	3.1	0.11	0.02	25	0.2	0.04	3.7	2.06	<0.1	0.03
118132	Soil	17.7	8.4	0.08	121.9	0.003	3	0.88	0.003	0.07	<0.1	2.3	0.09	0.08	650	0.3	0.05	1.6	0.54	<0.1	<0.02
118133	Soil	5.8	13.9	0.16	123.7	0.005	1	0.76	0.002	0.07	<0.1	0.7	0.13	0.06	79	0.4	0.05	2.8	1.01	<0.1	<0.02
118134	Soil	11.3	12.6	0.14	146.5	0.004	3	0.73	0.003	0.05	<0.1	2.1	0.10	0.06	467	0.4	0.02	1.5	0.73	<0.1	0.03
118135	Soil	8.2	18.9	0.25	155.1	0.005	1	1.25	0.002	0.07	<0.1	2.7	0.16	0.03	91	0.3	0.06	3.9	1.56	<0.1	0.02
118136	Soil	9.8	20.2	0.26	201.5	0.002	1	1.25	<0.001	0.05	<0.1	3.3	0.14	0.02	120	0.3	<0.02	3.2	1.16	<0.1	0.02
118137	Soil	8.1	21.0	0.29	133.8	0.003	2	1.32	0.001	0.07	<0.1	2.3	0.13	<0.02	65	0.4	<0.02	3.3	1.78	<0.1	<0.02
118138	Soil	23.6	17.0	0.33	114.9	0.003	3	0.63	0.003	0.07	<0.1	4.3	0.20	0.06	314	1.1	0.02	1.9	1.60	<0.1	0.03
118139	Soil	19.1	20.6	0.64	126.8	0.002	3	0.46	0.006	0.09	<0.1	5.4	0.21	0.03	406	1.1	0.03	1.3	1.39	<0.1	0.06
118140	Soil	17.7	20.5	0.39	249.7	0.004	3	0.83	0.002	0.08	<0.1	5.0	0.13	0.05	111	1.1	<0.02	2.3	3.34	<0.1	0.06
118141	Soil	9.3	16.8	0.87	57.6	0.003	3	0.31	0.005	0.07	<0.1	6.7	0.47	0.04	367	1.0	<0.02	1.0	1.20	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 13, 2011

Page: 9 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
118093	Soil			0.41	12.5	1.7	<0.05	1.9	12.87	16.1	0.05	<1	1.0	35.8	<10	<2
118094	Soil			0.33	13.0	0.9	<0.05	1.6	13.99	15.9	0.05	<1	1.1	42.9	<10	<2
118095	Soil			0.36	10.6	1.1	<0.05	1.4	13.63	15.9	0.04	<1	1.0	41.1	<10	<2
118096	Soil			0.22	8.4	0.9	<0.05	1.7	7.81	13.4	0.04	<1	1.0	30.2	<10	<2
118097	Soil			0.25	9.1	0.9	<0.05	2.0	10.80	16.0	0.05	1	1.3	38.4	<10	2
118098	Soil			0.31	10.1	0.6	<0.05	1.4	10.11	14.5	0.05	<1	0.9	43.0	<10	<2
118099	Soil			0.37	14.1	0.6	<0.05	1.6	12.22	15.5	0.05	<1	0.9	42.1	<10	<2
118100	Soil			0.61	17.1	1.0	<0.05	1.5	2.23	16.9	0.02	<1	0.2	8.8	<10	<2
612797	Soil			0.57	20.8	1.9	<0.05	0.6	16.24	17.5	0.04	<1	1.3	48.6	<10	<2
612798	Soil			0.40	20.6	2.6	<0.05	<0.1	1.95	9.2	0.04	<1	0.5	20.1	<10	<2
612799	Soil			0.46	19.5	12.4	<0.05	<0.1	4.12	17.2	0.04	<1	0.7	21.0	<10	<2
612800	Soil			0.29	14.8	1.3	<0.05	0.1	2.59	13.9	0.02	<1	0.4	25.2	<10	<2
118124	Soil			0.64	21.4	2.8	<0.05	0.7	41.27	27.0	0.05	<1	2.0	64.2	<10	<2
118125	Soil			0.74	15.2	1.7	<0.05	0.1	1.61	11.2	0.05	<1	0.4	16.9	<10	<2
118126	Soil			0.36	12.2	1.8	<0.05	<0.1	2.45	13.2	0.04	<1	0.4	15.6	<10	<2
118127	Soil			0.60	17.4	0.9	<0.05	0.1	2.14	16.3	0.03	<1	0.3	9.6	<10	<2
118128	Soil			0.50	15.9	1.4	<0.05	0.1	1.99	11.9	<0.02	<1	0.4	11.3	<10	<2
118129	Soil			0.28	16.9	1.7	<0.05	<0.1	2.72	12.3	0.03	<1	0.8	4.3	<10	<2
118130	Soil			0.30	15.8	1.3	<0.05	0.7	5.45	19.5	0.05	<1	1.0	30.2	<10	<2
118131	Soil			0.28	10.6	1.3	<0.05	0.7	6.73	34.1	0.05	<1	1.0	27.7	<10	<2
118132	Soil			0.20	7.9	1.1	<0.05	0.6	14.57	41.9	0.04	2	0.8	7.6	<10	<2
118133	Soil			0.24	11.0	1.0	<0.05	0.2	2.24	12.5	0.03	<1	0.4	8.4	<10	<2
118134	Soil			0.21	6.2	0.7	<0.05	1.0	8.49	22.0	0.04	1	0.6	7.5	<10	<2
118135	Soil			0.50	11.9	0.9	<0.05	0.8	3.57	16.7	0.05	<1	0.7	19.6	<10	<2
118136	Soil			0.30	7.9	0.9	<0.05	1.0	4.60	28.6	0.06	<1	0.7	15.6	<10	<2
118137	Soil			0.29	10.0	0.6	<0.05	0.4	3.64	21.2	0.03	<1	0.7	23.4	<10	<2
118138	Soil			0.26	6.6	1.2	<0.05	1.4	14.12	36.3	0.02	<1	1.0	15.3	<10	<2
118139	Soil			0.08	6.2	1.6	<0.05	1.8	12.31	33.7	0.02	<1	0.7	9.2	<10	<2
118140	Soil			0.19	7.8	0.6	<0.05	1.6	14.18	32.1	0.04	<1	0.8	16.5	<10	<2
118141	Soil			0.06	4.1	0.9	<0.05	1.5	10.59	20.2	0.04	<1	0.6	3.5	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
118142	Soil	0.54	36.37	19.13	105.9	108	37.4	14.7	384	3.12	67.6	0.8	7.8	4.2	85.9	0.13	1.24	0.26	16	1.50	0.063	
118143	Soil	0.25	44.55	19.82	103.1	47	48.2	14.5	463	3.20	9.8	0.4	2.4	2.8	51.4	0.12	0.34	0.33	13	0.37	0.038	
118144	Soil	0.41	42.14	21.43	110.7	49	46.1	14.3	380	3.32	13.4	0.6	3.3	3.1	50.5	0.14	0.50	0.32	13	0.33	0.046	
118145	Soil	0.92	34.91	21.79	69.5	152	22.2	10.0	350	2.50	28.0	2.3	4.6	1.7	129.6	0.35	1.50	0.25	20	2.30	0.087	
118146	Soil	0.49	50.60	24.22	87.5	71	30.1	14.9	419	3.41	26.0	1.2	3.3	2.5	38.8	0.04	1.18	0.40	12	0.08	0.030	
118147	Soil	0.48	58.08	74.69	114.0	150	37.4	21.5	724	4.42	29.5	0.4	2.5	2.7	41.7	0.05	1.75	0.42	15	0.14	0.032	
118148	Soil	1.08	50.60	56.91	123.9	259	48.1	25.9	648	5.22	35.2	0.7	1.5	2.5	69.3	0.14	0.82	0.43	25	0.71	0.058	
118149	Soil	0.57	59.23	63.84	132.7	234	49.1	27.0	424	4.61	17.2	0.5	1.9	4.3	47.8	0.08	0.39	0.45	22	0.46	0.037	
118150	Soil	0.70	55.09	53.60	136.2	201	51.1	25.8	374	4.19	25.9	0.5	1.7	3.5	58.3	0.09	0.46	0.45	18	0.74	0.042	
118151	Soil	0.54	30.52	33.99	81.7	68	27.4	13.5	258	3.91	12.2	0.5	0.5	3.0	23.5	0.08	0.40	0.28	20	0.14	0.030	
118152	Soil	0.77	21.73	23.18	65.9	53	20.6	9.9	204	3.87	10.3	0.5	0.3	3.3	8.5	0.08	0.47	0.28	33	0.03	0.016	
118153	Soil	0.35	19.05	24.10	58.0	105	17.5	9.4	391	2.58	14.1	0.9	2.9	2.0	104.6	0.06	0.24	0.21	15	0.80	0.046	
118789	Soil	0.87	23.38	25.13	108.6	36	25.5	12.1	405	3.15	11.0	0.7	1.4	0.6	9.7	0.29	0.72	0.24	34	0.05	0.040	
118790	Soil	0.93	19.21	14.34	55.2	41	14.6	6.3	252	2.90	7.6	0.4	0.7	0.3	8.2	0.10	0.57	0.23	40	0.04	0.039	
118791	Soil	1.18	17.10	19.03	54.4	44	13.4	6.3	344	3.49	8.1	0.5	1.5	0.2	6.8	0.10	0.68	0.34	52	0.04	0.070	
118792	Soil	0.78	21.83	19.79	79.2	28	25.5	12.0	454	2.98	8.0	0.9	1.6	0.9	9.9	0.16	0.54	0.22	34	0.06	0.048	
118793	Soil	0.58	28.11	19.97	67.2	18	25.3	13.5	575	3.65	8.9	0.6	0.4	2.5	14.6	0.12	0.41	0.28	30	0.13	0.037	
118794	Soil	0.52	25.52	21.11	61.9	11	23.0	12.5	841	3.25	10.4	0.5	1.2	2.0	13.7	0.07	0.44	0.27	27	0.12	0.039	
118795	Soil	0.25	23.48	24.26	72.4	94	26.8	12.7	700	2.65	19.3	1.4	2.1	1.3	60.1	0.42	0.86	0.22	9	1.03	0.109	
118796	Soil	0.95	23.58	20.52	68.2	62	24.3	10.5	235	3.20	15.8	2.8	7.1	2.9	18.5	0.16	1.15	0.30	33	0.14	0.056	
118797	Soil	0.99	16.86	16.29	60.5	46	16.9	7.9	394	2.74	15.1	0.9	2.1	0.5	23.3	0.10	1.05	0.31	36	0.29	0.085	
118798	Soil	1.06	29.60	23.00	94.6	110	32.4	13.6	511	3.47	65.8	1.1	8.2	1.8	38.9	0.19	2.29	0.31	22	0.58	0.077	
118799	Soil	2.33	53.66	28.20	113.4	266	37.3	15.4	310	3.36	131.3	2.9	26.1	2.5	56.2	0.29	8.42	0.37	20	0.48	0.079	
118800	Soil	1.53	34.55	22.35	95.6	321	26.9	11.7	368	2.79	53.1	2.8	9.1	1.3	57.0	0.37	3.90	0.25	18	0.81	0.059	
118921	Soil	1.36	47.53	64.46	88.2	300	26.1	30.2	1748	5.30	20.7	0.8	<0.2	2.4	61.9	0.18	0.84	0.38	29	0.53	0.108	
118922	Soil	0.59	38.80	36.04	103.0	248	41.1	17.9	352	4.18	20.3	0.7	1.2	2.9	96.0	0.05	0.37	0.37	18	1.18	0.052	
118923	Soil	0.39	24.51	16.48	55.8	123	18.6	9.6	190	1.96	24.0	1.5	0.5	0.8	129.3	0.07	0.29	0.22	11	1.81	0.052	
118924	Soil	0.53	29.57	28.60	75.9	139	27.6	12.6	439	2.75	20.3	1.1	1.0	1.6	117.0	0.15	0.37	0.29	16	1.73	0.060	
118925	Soil	0.54	28.32	25.29	71.4	97	23.0	12.1	452	2.41	14.1	0.6	1.9	1.7	126.0	0.10	0.41	0.26	13	1.81	0.067	
118926	Soil	0.67	22.86	24.17	108.9	80	24.8	15.4	570	2.61	13.1	0.5	1.3	2.0	127.4	0.08	0.41	0.28	14	1.48	0.058	



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
118142	Soil	12.8	18.3	0.83	82.0	0.003	3	0.34	0.004	0.07	<0.1	6.9	0.36	0.03	325	1.3	<0.02	1.2	2.33	<0.1	0.03
118143	Soil	5.6	20.8	0.58	48.1	0.001	3	0.86	<0.001	0.08	<0.1	6.1	0.07	0.06	44	0.3	0.02	2.5	1.16	<0.1	0.08
118144	Soil	6.5	17.3	0.41	48.2	0.002	2	0.65	0.002	0.08	<0.1	7.0	0.11	0.04	108	0.4	<0.02	1.9	2.56	<0.1	0.06
118145	Soil	8.6	11.1	1.01	64.6	0.002	3	0.56	0.003	0.06	<0.1	4.3	0.09	0.04	187	0.5	0.05	1.4	1.27	<0.1	0.05
118146	Soil	5.7	7.7	0.16	60.8	<0.001	2	0.44	0.001	0.07	<0.1	3.9	0.06	<0.02	101	0.2	0.08	1.3	1.79	<0.1	<0.02
118147	Soil	5.2	11.5	0.30	68.5	<0.001	3	0.87	<0.001	0.09	<0.1	6.6	0.10	<0.02	546	0.2	0.05	2.3	4.37	<0.1	0.04
118148	Soil	6.3	20.6	0.33	114.7	0.003	4	1.34	0.003	0.08	<0.1	5.8	0.16	0.06	489	0.5	0.08	4.5	5.60	<0.1	0.04
118149	Soil	6.3	28.5	0.60	120.7	0.004	5	1.72	0.002	0.10	<0.1	7.3	0.10	0.03	103	0.3	0.08	5.7	3.90	<0.1	0.08
118150	Soil	5.5	21.5	0.51	112.6	0.002	4	1.47	0.002	0.10	<0.1	8.2	0.13	0.03	114	0.5	0.09	4.5	4.85	<0.1	0.07
118151	Soil	3.5	21.2	0.39	70.7	0.001	3	1.56	<0.001	0.09	<0.1	3.1	0.09	<0.02	64	0.2	0.05	4.2	1.84	<0.1	0.06
118152	Soil	7.0	19.9	0.34	76.7	0.003	2	1.76	<0.001	0.06	<0.1	2.5	0.12	<0.02	89	0.3	0.04	5.0	1.92	<0.1	0.05
118153	Soil	5.6	12.5	0.24	92.8	0.002	2	0.96	0.002	0.06	<0.1	3.8	0.07	0.04	75	0.2	<0.02	2.8	1.17	<0.1	0.03
118789	Soil	10.2	21.5	0.40	70.3	0.013	2	1.53	0.002	0.06	0.1	1.8	0.09	<0.02	73	0.3	0.05	4.0	1.82	<0.1	<0.02
118790	Soil	7.4	17.7	0.26	52.4	0.012	1	1.42	<0.001	0.05	<0.1	1.1	0.11	0.02	13	0.3	0.05	4.7	2.15	<0.1	<0.02
118791	Soil	8.0	21.4	0.25	63.5	0.019	2	1.38	0.002	0.07	0.1	0.9	0.12	0.07	45	0.4	0.08	6.6	2.24	<0.1	<0.02
118792	Soil	9.4	22.6	0.39	75.5	0.010	2	1.66	0.002	0.06	<0.1	1.9	0.10	0.03	25	0.2	0.04	4.0	2.66	<0.1	<0.02
118793	Soil	7.6	20.2	0.42	114.1	0.003	2	2.00	<0.001	0.06	<0.1	3.9	0.11	<0.02	26	0.2	0.04	4.7	2.14	<0.1	0.04
118794	Soil	6.4	19.5	0.40	121.5	0.004	2	1.68	0.002	0.06	<0.1	2.8	0.11	<0.02	17	0.2	0.06	4.5	1.80	<0.1	0.02
118795	Soil	24.4	7.8	0.07	107.4	0.001	2	0.78	0.002	0.04	<0.1	4.4	0.08	0.06	105	0.3	0.03	1.0	0.90	<0.1	0.03
118796	Soil	10.5	22.8	0.27	303.5	0.004	2	1.74	0.001	0.05	0.1	2.8	0.12	0.03	167	0.3	0.04	3.9	1.67	<0.1	0.05
118797	Soil	7.6	20.0	0.26	185.4	0.004	<1	1.20	0.002	0.04	<0.1	1.2	0.14	0.03	69	0.1	0.04	4.2	1.53	<0.1	<0.02
118798	Soil	9.1	20.7	0.27	116.2	0.004	2	0.65	0.002	0.06	<0.1	4.3	0.20	0.05	238	0.9	<0.02	2.0	0.98	<0.1	0.05
118799	Soil	10.5	13.8	0.13	84.5	0.003	2	0.53	0.004	0.06	<0.1	5.3	0.34	0.03	246	0.9	0.09	1.4	0.80	<0.1	0.10
118800	Soil	11.1	12.6	0.18	71.5	0.003	3	0.48	0.003	0.06	<0.1	3.3	0.19	0.05	492	1.1	<0.02	1.2	0.71	<0.1	0.04
118921	Soil	5.2	32.0	0.31	63.7	0.007	6	1.39	0.006	0.08	<0.1	3.1	0.17	0.07	96	0.3	0.05	4.7	8.93	<0.1	0.03
118922	Soil	6.1	20.0	0.38	71.6	0.002	4	1.16	0.004	0.07	<0.1	7.4	0.10	0.05	183	0.3	0.04	3.2	3.58	<0.1	0.06
118923	Soil	4.1	13.1	0.19	77.7	0.002	3	0.77	0.006	0.05	<0.1	3.1	0.06	0.09	100	0.4	0.03	2.3	1.63	<0.1	0.04
118924	Soil	5.1	21.2	0.36	76.7	0.003	5	1.13	0.006	0.07	<0.1	4.3	0.07	0.08	101	0.3	0.03	3.2	1.99	<0.1	0.04
118925	Soil	4.2	16.0	0.24	90.3	0.002	4	0.80	0.008	0.06	<0.1	3.2	0.07	0.10	76	0.2	<0.02	2.5	2.28	<0.1	0.06
118926	Soil	3.1	19.8	0.35	82.6	0.003	5	0.84	0.008	0.08	<0.1	3.3	0.07	0.09	93	0.2	0.05	2.8	2.23	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 10 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
118142	Soil			0.08	5.6	1.0	<0.05	1.5	10.03	25.9	0.05	<1	0.7	3.8	<10	<2
118143	Soil			0.09	4.6	1.3	<0.05	2.2	8.13	11.4	0.03	<1	1.1	26.3	<10	<2
118144	Soil			0.09	6.3	1.6	<0.05	1.9	9.53	13.3	0.03	<1	1.2	17.2	<10	<2
118145	Soil			0.19	4.3	1.1	<0.05	1.8	14.31	18.0	0.05	<1	0.9	9.3	<10	<2
118146	Soil			<0.02	4.5	4.6	<0.05	0.2	6.27	10.7	0.04	<1	0.9	10.0	<10	<2
118147	Soil			0.03	6.9	51.0	<0.05	0.9	9.25	9.9	0.05	<1	1.3	28.7	<10	<2
118148	Soil			0.27	10.3	2.6	<0.05	1.4	11.60	14.9	0.05	<1	1.2	42.2	<10	<2
118149	Soil			0.31	7.6	22.3	<0.05	2.6	14.59	15.2	0.09	<1	1.5	69.6	<10	<2
118150	Soil			0.21	8.7	3.3	<0.05	2.4	15.79	13.5	0.06	<1	1.5	55.3	<10	<2
118151	Soil			0.21	9.9	12.6	<0.05	2.1	4.05	10.0	0.06	<1	0.8	51.1	<10	<2
118152	Soil			0.33	12.0	1.7	<0.05	2.4	3.10	13.8	0.03	<1	0.7	55.2	<10	<2
118153	Soil			0.20	7.1	9.0	<0.05	1.1	9.17	13.3	0.03	<1	0.7	28.6	<10	<2
118789	Soil			0.30	8.1	2.4	<0.05	0.1	4.75	22.2	0.04	<1	0.6	24.3	<10	<2
118790	Soil			0.39	9.0	2.3	<0.05	<0.1	2.81	13.2	0.03	<1	0.4	20.1	<10	<2
118791	Soil			0.70	10.8	4.7	<0.05	0.1	2.22	14.2	0.02	<1	0.3	11.7	<10	<2
118792	Soil			0.36	8.1	2.9	<0.05	0.2	5.01	31.4	0.03	<1	0.7	31.4	<10	<2
118793	Soil			0.35	9.6	1.2	<0.05	0.8	6.77	22.4	0.03	<1	0.9	39.3	<10	<2
118794	Soil			0.30	10.9	1.4	<0.05	0.7	3.98	20.4	0.04	<1	0.7	35.3	<10	<2
118795	Soil			0.11	9.2	1.0	<0.05	0.4	17.91	46.0	0.05	<1	1.0	6.2	<10	<2
118796	Soil			0.58	9.9	1.2	<0.05	1.4	5.36	28.7	0.07	<1	0.9	22.3	<10	<2
118797	Soil			0.27	10.1	1.5	<0.05	0.2	3.45	17.7	0.04	<1	0.6	13.7	<10	<2
118798	Soil			0.21	6.1	1.9	<0.05	1.4	8.80	21.4	0.04	<1	0.6	8.4	<10	<2
118799	Soil			0.13	4.1	0.9	<0.05	3.3	15.52	23.3	0.05	<1	1.0	4.4	<10	<2
118800	Soil			0.12	4.4	1.2	<0.05	1.0	12.90	23.7	0.04	<1	0.9	5.6	<10	<2
118921	Soil			0.37	16.1	6.5	<0.05	0.9	4.90	13.1	0.04	<1	1.4	31.0	<10	<2
118922	Soil			0.17	7.3	3.3	<0.05	1.6	17.41	14.8	0.05	<1	1.1	39.9	<10	<2
118923	Soil			0.18	4.7	1.1	<0.05	1.3	9.81	8.8	0.03	<1	0.6	18.2	<10	<2
118924	Soil			0.26	7.5	15.3	<0.05	1.4	9.09	15.3	0.02	<1	0.9	37.0	<10	<2
118925	Soil			0.22	7.5	5.9	<0.05	2.1	8.14	10.0	<0.02	<1	1.1	22.6	<10	<2
118926	Soil			0.27	8.0	1.7	<0.05	2.0	4.55	9.3	0.02	<1	0.7	28.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
118927	Soil	0.42	30.91	26.27	94.3	104	28.5	17.1	527	3.36	16.8	0.7	2.3	2.9	73.5	0.07	0.48	0.35	16	0.91	0.043
118928	Soil	0.51	31.88	26.91	85.1	90	29.3	15.2	441	3.18	15.3	0.6	1.4	2.7	83.2	0.07	0.45	0.36	16	1.01	0.037
118929	Soil	0.41	33.83	21.50	78.1	162	24.0	12.0	463	2.77	17.2	3.1	1.9	1.8	139.3	0.14	0.64	0.29	19	1.91	0.064
118930	Soil	0.51	53.01	29.49	107.2	166	37.7	15.2	348	3.77	17.9	0.8	2.8	3.7	101.8	0.12	0.60	0.38	19	0.61	0.042
118931	Soil	0.42	30.58	24.24	85.0	132	27.7	13.8	360	3.28	13.6	1.0	1.7	2.5	100.6	0.06	0.43	0.34	18	1.14	0.041
118932	Soil	0.96	20.78	15.38	65.3	92	19.4	6.6	284	2.69	23.4	2.6	1.1	0.7	91.2	0.37	1.09	0.27	33	0.84	0.103
118933	Soil	1.19	29.96	21.06	96.5	209	17.2	7.0	320	2.39	23.4	4.0	6.6	2.1	52.5	0.57	1.40	0.22	16	1.03	0.084
118934	Soil	2.09	20.88	18.76	69.8	337	30.1	10.3	596	2.93	19.1	2.2	3.5	2.9	42.4	0.29	1.20	0.27	36	0.49	0.050
118935	Soil	0.54	23.25	14.93	78.4	49	24.8	8.8	239	3.26	21.6	0.7	0.6	2.1	56.9	0.10	0.74	0.30	31	0.56	0.070
118936	Soil	0.67	23.54	14.79	47.5	206	21.3	7.9	446	2.41	12.5	3.8	1.6	1.0	98.2	0.20	0.51	0.22	29	1.36	0.134
118937	Soil	0.80	22.47	18.22	73.4	120	20.0	8.6	608	2.90	20.2	2.3	0.5	1.4	87.6	0.21	0.79	0.30	28	1.24	0.173
118938	Soil	0.68	26.28	21.40	69.6	95	21.0	10.3	523	2.85	39.3	1.9	0.9	1.5	57.1	0.35	0.52	0.35	22	0.69	0.096
118939	Soil	0.82	26.47	22.20	94.4	130	24.0	13.7	1025	2.75	135.4	1.7	<0.2	1.8	63.4	0.42	0.62	0.37	25	0.73	0.107
118940	Soil	0.85	27.79	15.81	65.0	163	25.0	8.6	399	2.66	41.1	3.5	2.3	1.3	83.9	0.17	1.28	0.25	27	0.96	0.125
118941	Soil	1.11	22.86	26.53	73.1	71	19.7	18.4	672	5.56	25.0	0.5	0.6	2.2	13.7	0.10	0.76	0.38	32	0.02	0.062
118942	Soil	1.02	20.88	16.77	66.9	43	19.6	7.7	218	3.57	41.2	0.7	1.7	0.9	13.2	0.13	1.24	0.29	34	0.03	0.051
118943	Soil	1.23	24.07	18.62	74.0	98	18.9	7.8	291	3.35	14.1	0.5	0.5	0.5	19.8	0.16	0.60	0.40	40	0.08	0.059
118944	Soil	1.03	27.94	29.17	106.8	115	22.1	13.3	638	4.91	16.5	0.4	0.4	0.7	20.0	0.19	0.62	0.40	36	0.06	0.086
118945	Soil	1.00	31.19	27.67	89.1	322	31.1	11.1	543	2.80	15.7	2.6	2.2	1.4	131.3	0.25	0.61	0.28	20	1.22	0.109
118946	Soil	1.11	22.49	20.87	70.7	127	26.0	10.3	411	3.13	29.3	6.2	4.5	0.9	66.4	0.19	1.52	0.29	44	0.62	0.082
118947	Soil	1.37	17.63	23.43	59.3	109	21.6	10.0	381	3.05	25.2	2.7	3.0	2.5	63.7	0.38	2.02	0.32	37	0.58	0.045
118948	Soil	0.40	38.91	22.71	71.9	45	16.9	15.1	263	2.72	19.7	1.0	1.3	5.1	27.0	0.22	0.77	0.33	9	0.43	0.049
118949	Soil	0.69	39.66	26.61	391.4	168	31.4	12.5	397	3.43	288.1	2.0	7.3	2.5	49.7	0.78	3.31	0.24	27	0.50	0.051
118950	Soil	0.72	35.82	19.52	107.1	90	31.1	13.5	407	2.89	73.7	0.9	2.2	7.0	113.3	0.18	1.24	0.27	13	2.48	0.066
120117	Soil	2.19	55.50	33.66	142.7	717	39.6	19.1	346	3.50	8468	3.9	40.7	3.7	215.7	0.62	9.11	0.28	24	2.88	0.063
120118	Soil	1.47	33.65	22.44	60.6	682	21.1	9.4	202	1.94	2054	6.0	33.1	2.5	376.5	0.50	4.56	0.21	16	9.82	0.035
120119	Soil	0.67	57.62	47.55	122.1	169	42.1	21.7	657	5.07	45.2	0.5	1.5	3.1	32.8	0.06	0.89	0.49	17	0.20	0.037
120120	Soil	0.97	41.85	56.34	86.3	418	20.7	18.7	1721	4.98	19.0	0.6	1.4	1.5	11.9	0.16	0.61	0.40	29	0.04	0.130
120121	Soil	0.88	55.97	68.67	140.0	384	63.3	33.4	629	6.03	36.2	0.6	1.9	2.9	64.7	0.10	0.56	0.47	19	0.93	0.056
118220	Soil	0.65	21.72	28.01	81.5	154	23.8	9.8	555	3.84	8.3	1.2	0.8	2.5	62.2	0.16	0.40	0.32	26	1.04	0.131



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
118927	Soil	5.3	18.8	0.31	92.5	0.002	4	0.95	0.004	0.07	<0.1	4.0	0.07	0.04	71	0.2	<0.02	3.2	2.80	<0.1	0.05
118928	Soil	4.9	20.3	0.32	95.0	0.002	4	0.97	0.005	0.07	<0.1	3.9	0.08	0.04	77	0.2	0.04	3.5	2.44	<0.1	0.05
118929	Soil	8.1	17.8	0.35	125.4	0.003	5	1.11	0.004	0.08	<0.1	4.0	0.10	0.07	242	0.5	0.06	3.3	1.62	<0.1	0.04
118930	Soil	6.9	23.7	0.43	84.5	0.003	5	1.14	0.003	0.10	<0.1	5.9	0.09	0.02	163	0.4	0.07	3.8	3.55	<0.1	0.07
118931	Soil	5.1	19.7	0.33	103.1	0.002	3	1.04	0.005	0.08	<0.1	4.0	0.08	0.04	73	0.2	0.04	3.6	2.25	<0.1	0.04
118932	Soil	7.6	23.8	0.26	121.9	0.007	<1	1.17	0.002	0.05	<0.1	1.8	0.10	0.06	61	0.3	<0.02	3.8	1.10	<0.1	0.02
118933	Soil	13.7	7.2	0.12	192.7	0.002	1	0.49	0.003	0.05	<0.1	3.3	0.06	0.07	103	0.5	0.03	1.0	0.38	<0.1	0.06
118934	Soil	17.1	25.8	0.43	178.6	0.018	2	1.24	0.005	0.07	0.1	4.1	0.12	0.03	116	0.4	<0.02	3.3	1.26	<0.1	0.03
118935	Soil	7.4	24.9	0.31	143.8	0.003	1	1.71	<0.001	0.07	<0.1	3.4	0.16	0.03	32	0.2	0.06	4.2	1.58	<0.1	0.05
118936	Soil	17.4	21.3	0.30	225.5	0.006	<1	1.37	0.003	0.04	<0.1	2.5	0.08	0.09	57	0.4	<0.02	3.2	1.20	<0.1	0.02
118937	Soil	20.1	21.8	0.33	153.7	0.007	2	1.49	0.004	0.06	<0.1	3.2	0.10	0.12	53	0.3	0.02	3.7	1.78	<0.1	0.05
118938	Soil	10.6	16.6	0.13	131.2	0.004	1	0.83	0.003	0.07	<0.1	4.6	0.12	0.06	49	0.2	0.04	2.4	2.14	<0.1	<0.02
118939	Soil	18.8	19.4	0.19	155.8	0.006	1	1.13	0.006	0.09	<0.1	4.5	0.14	0.07	51	0.2	0.06	3.4	1.78	<0.1	0.04
118940	Soil	14.0	23.4	0.32	184.1	0.007	2	1.33	0.003	0.08	<0.1	3.9	0.11	0.08	85	0.2	<0.02	3.5	1.88	<0.1	0.04
118941	Soil	5.1	25.6	0.24	54.0	0.007	3	1.49	<0.001	0.10	<0.1	2.9	0.12	0.02	28	0.4	0.05	5.6	6.57	<0.1	0.03
118942	Soil	7.0	23.6	0.22	69.7	0.005	3	1.34	0.001	0.08	<0.1	1.8	0.13	<0.02	37	0.3	0.03	4.6	2.63	<0.1	<0.02
118943	Soil	7.0	20.0	0.19	69.0	0.008	2	0.95	0.002	0.09	<0.1	1.4	0.12	0.02	17	0.1	0.07	5.4	4.75	<0.1	<0.02
118944	Soil	5.6	24.6	0.30	73.1	0.006	2	1.39	0.001	0.12	<0.1	1.6	0.12	0.03	18	0.2	0.06	5.2	4.11	<0.1	<0.02
118945	Soil	10.8	19.5	0.37	129.7	0.005	4	0.91	0.009	0.09	<0.1	3.8	0.13	0.12	182	0.7	0.05	2.6	7.77	<0.1	0.03
118946	Soil	10.9	28.4	0.37	181.4	0.010	1	1.76	0.002	0.06	0.1	2.1	0.16	0.05	63	0.3	0.04	4.8	1.63	<0.1	<0.02
118947	Soil	10.0	21.1	0.21	149.5	0.009	<1	1.24	0.002	0.05	0.1	3.1	0.14	0.04	58	0.4	<0.02	3.4	1.04	<0.1	0.04
118948	Soil	18.6	8.4	0.12	92.4	<0.001	1	0.61	0.002	0.06	<0.1	6.3	0.10	0.03	83	0.5	0.04	0.9	1.02	<0.1	0.05
118949	Soil	12.1	25.0	0.21	81.3	0.005	3	0.61	0.003	0.08	<0.1	6.4	0.35	0.04	1031	0.8	<0.02	1.9	0.74	<0.1	0.04
118950	Soil	14.1	16.9	1.54	93.4	0.002	3	0.31	0.006	0.10	<0.1	6.1	0.29	0.06	60	0.9	<0.02	0.9	1.79	<0.1	0.04
120117	Soil	6.2	21.9	1.31	136.8	0.001	4	0.33	0.005	0.08	<0.1	5.3	50.16	0.04	24789	3.1	<0.02	1.2	1.37	<0.1	0.05
120118	Soil	5.5	10.3	1.25	63.0	0.001	2	0.23	0.004	0.05	<0.1	3.2	9.05	<0.02	3925	0.7	<0.02	0.7	0.46	<0.1	0.05
120119	Soil	7.2	19.7	0.32	63.5	0.002	2	0.96	0.003	0.09	<0.1	6.2	0.21	<0.02	194	0.2	0.07	2.8	4.13	<0.1	0.04
120120	Soil	5.1	26.6	0.22	152.0	0.003	2	1.55	0.002	0.10	<0.1	2.3	0.22	0.11	161	0.4	0.06	5.4	8.31	<0.1	0.03
120121	Soil	6.3	21.2	0.38	134.2	0.001	3	1.26	0.003	0.09	<0.1	8.0	0.25	0.06	463	0.7	0.09	3.2	5.71	<0.1	0.06
118220	Soil	9.0	22.8	0.31	153.1	0.004	2	1.41	0.003	0.08	<0.1	4.1	0.12	0.08	56	0.2	0.06	4.0	1.58	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 11 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
118927	Soil	0.22	8.8	1.6	<0.05	1.7	7.97	13.5	0.03	<1	1.1	31.6	<10	<2
118928	Soil	0.26	8.5	2.2	<0.05	1.7	6.09	12.6	0.03	<1	0.8	32.8	<10	<2
118929	Soil	0.30	8.6	3.3	<0.05	1.6	10.03	16.1	0.03	<1	0.9	31.4	<10	<2
118930	Soil	0.20	10.4	4.1	<0.05	2.0	8.74	14.3	0.03	<1	1.0	38.1	<10	<2
118931	Soil	0.27	7.5	2.2	<0.05	2.0	6.31	11.8	0.03	<1	0.9	30.8	<10	<2
118932	Soil	0.48	8.6	1.2	<0.05	0.5	3.77	16.3	0.02	<1	0.7	12.5	<10	<2
118933	Soil	0.09	5.4	0.8	<0.05	2.3	15.47	24.0	0.04	<1	0.9	4.1	<10	<2
118934	Soil	0.54	9.1	1.6	<0.05	1.1	12.61	33.1	0.02	<1	0.9	12.7	<10	<2
118935	Soil	0.36	13.2	0.9	<0.05	0.9	4.84	20.4	0.04	<1	0.8	19.4	<10	<2
118936	Soil	0.44	6.9	0.5	<0.05	0.7	14.30	33.2	0.03	<1	1.3	15.4	<10	<2
118937	Soil	0.47	10.6	1.4	<0.05	1.1	21.60	30.8	0.04	<1	1.3	18.3	<10	<2
118938	Soil	0.30	10.7	2.3	<0.05	0.6	15.47	20.5	0.04	<1	1.1	6.1	<10	<2
118939	Soil	0.55	15.7	2.4	<0.05	0.8	19.36	30.6	0.04	1	1.5	12.4	<10	<2
118940	Soil	0.50	11.3	3.4	<0.05	0.8	16.89	25.9	<0.02	<1	1.1	22.7	<10	<2
118941	Soil	0.63	18.1	2.5	<0.05	0.8	2.11	10.2	0.03	<1	0.7	21.3	<10	<2
118942	Soil	0.41	16.4	1.9	<0.05	0.1	2.90	13.9	0.03	<1	0.6	24.3	<10	<2
118943	Soil	0.34	23.2	5.5	<0.05	<0.1	2.95	14.4	0.03	<1	0.7	11.7	<10	<2
118944	Soil	0.40	16.9	5.6	<0.05	<0.1	2.38	11.0	0.03	<1	0.8	29.8	<10	<2
118945	Soil	0.38	18.5	7.8	<0.05	1.2	19.64	15.1	0.03	<1	1.1	18.0	<10	<2
118946	Soil	0.49	10.1	1.9	<0.05	0.5	5.60	31.8	0.04	<1	0.7	16.9	<10	<2
118947	Soil	0.76	7.4	5.8	<0.05	2.1	5.78	46.7	0.03	<1	0.6	13.2	<10	<2
118948	Soil	0.06	8.2	1.6	<0.05	1.4	16.21	42.3	0.03	<1	1.2	7.1	<10	<2
118949	Soil	0.23	6.0	2.2	<0.05	1.1	15.06	22.4	0.04	<1	0.8	6.4	<10	<2
118950	Soil	0.06	5.7	2.6	<0.05	3.0	10.18	29.9	0.04	<1	0.8	5.0	<10	<2
120117	Soil	0.08	5.1	5.9	<0.05	2.3	11.99	14.4	0.05	<1	0.8	2.8	<10	<2
120118	Soil	0.04	2.3	1.8	<0.05	3.3	6.40	12.6	0.04	<1	0.5	2.5	<10	<2
120119	Soil	0.09	6.6	4.6	<0.05	1.2	9.92	14.7	0.04	<1	1.4	30.7	<10	<2
120120	Soil	0.36	14.3	9.5	<0.05	1.1	4.25	12.3	0.04	<1	1.1	29.2	<10	<2
120121	Soil	0.11	9.1	6.3	<0.05	2.0	19.25	19.0	0.06	<1	1.4	42.4	<10	<2
118220	Soil	0.41	13.5	3.2	<0.05	1.2	13.11	26.1	0.04	<1	1.1	23.8	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
118221	Soil	0.97	13.59	27.23	67.5	63	13.0	6.5	380	2.85	47.2	0.4	0.9	0.3	12.9	0.29	0.59	0.29	42	0.13	0.046
118222	Soil	1.23	19.27	15.50	63.7	72	16.1	6.8	225	2.06	41.6	0.5	0.3	0.2	10.5	0.18	0.92	0.41	40	0.06	0.049
118223	Soil	0.87	30.21	35.48	111.6	80	29.1	14.7	519	6.06	15.8	0.4	0.6	1.2	7.4	0.13	0.48	0.42	36	0.06	0.098
118224	Soil	0.90	51.33	55.28	134.4	461	47.4	22.2	918	4.78	16.9	2.5	2.4	2.0	61.3	0.23	0.44	0.42	25	0.72	0.123
118225	Soil	1.41	23.45	35.66	120.3	93	21.9	11.8	458	4.60	17.3	0.5	2.4	1.3	10.4	0.20	0.74	0.36	47	0.04	0.061
118226	Soil	0.65	25.99	36.58	86.3	165	19.2	17.3	2316	4.00	7.4	0.5	0.6	1.1	10.5	0.20	0.30	0.43	39	0.04	0.139
118227	Soil	1.22	38.12	47.98	100.7	111	25.3	25.7	2022	4.88	17.0	0.7	1.2	1.1	14.7	0.15	0.68	0.35	40	0.09	0.071
118228	Soil	0.72	36.94	29.99	106.3	141	32.5	17.5	1135	4.35	11.3	3.0	1.2	2.3	66.5	0.34	0.47	0.37	32	0.96	0.118
118229	Soil	0.53	31.26	28.83	81.2	106	24.9	14.6	886	3.62	11.9	2.2	1.5	2.2	77.3	0.22	0.40	0.33	24	1.28	0.104
118230	Soil	0.72	23.78	20.24	81.6	101	22.5	9.7	408	3.13	11.2	1.9	1.0	1.1	79.4	0.34	0.51	0.28	26	1.41	0.121
118231	Soil	0.96	19.13	18.28	81.3	59	17.8	7.9	297	3.47	13.0	0.7	0.6	0.4	26.5	0.25	0.71	0.28	37	0.32	0.075
118232	Soil	0.87	21.25	17.81	84.9	67	21.0	8.7	299	3.12	25.3	1.7	1.5	1.6	49.4	0.14	1.30	0.27	36	0.61	0.091
118233	Soil	1.04	20.55	16.04	114.2	180	19.7	8.0	498	2.85	44.9	14.6	1.7	0.7	132.2	1.29	3.82	0.26	45	1.63	0.151
118234	Soil	0.81	19.11	17.81	56.9	193	17.2	7.5	462	2.50	43.9	4.2	3.6	0.6	109.5	0.25	4.46	0.19	27	1.43	0.103
118235	Soil	0.98	34.33	24.57	116.1	198	31.3	13.4	563	3.27	42.4	1.6	9.8	1.8	53.0	0.33	2.36	0.25	49	0.86	0.073
118236	Soil	0.58	22.87	16.07	75.7	105	21.7	8.3	222	2.83	15.5	2.2	2.8	2.0	50.7	0.13	0.60	0.21	32	1.07	0.100
118237	Soil	0.76	31.97	31.01	127.4	118	35.2	11.7	352	3.26	23.3	2.2	4.6	4.6	41.6	0.16	0.83	0.20	39	1.11	0.095
118238	Soil	0.79	51.58	53.69	135.7	144	77.5	32.3	638	4.78	28.9	0.6	7.7	3.6	79.8	0.14	0.93	0.67	21	0.82	0.048
118239	Soil	0.27	40.21	19.76	109.4	38	52.8	16.7	503	3.91	6.8	0.5	3.2	4.1	67.4	0.09	0.40	0.34	17	1.01	0.038
118240	Soil	0.42	54.56	30.79	100.6	85	49.1	29.3	1354	4.30	46.3	0.4	3.2	3.7	61.0	0.06	1.44	0.51	16	0.13	0.010



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
118221	Soil	6.8	15.7	0.07	78.9	0.006	<1	0.77	0.003	0.08	<0.1	0.8	0.11	0.03	35	0.1	0.05	4.6	1.82	<0.1	<0.02
118222	Soil	10.1	13.7	0.04	69.6	0.006	<1	0.47	0.002	0.08	0.1	0.6	0.10	0.03	34	0.2	0.04	3.9	2.83	<0.1	<0.02
118223	Soil	3.8	30.3	0.28	63.5	0.003	2	1.82	0.003	0.09	<0.1	2.5	0.14	0.05	56	0.4	0.05	6.1	3.68	<0.1	0.03
118224	Soil	10.3	30.6	0.45	124.0	0.004	5	2.10	0.006	0.10	<0.1	8.1	0.15	0.08	120	0.6	0.09	4.7	9.81	<0.1	0.05
118225	Soil	7.6	28.3	0.31	80.5	0.010	2	1.48	0.002	0.08	0.1	2.1	0.14	0.02	32	0.3	0.06	5.9	2.77	<0.1	<0.02
118226	Soil	3.6	23.6	0.28	146.0	0.002	2	1.63	0.002	0.13	<0.1	1.6	0.12	0.06	32	0.2	0.10	6.9	3.83	<0.1	0.03
118227	Soil	7.4	25.7	0.38	100.3	0.007	3	1.74	0.002	0.11	<0.1	3.1	0.18	0.04	33	0.3	0.06	5.9	7.36	<0.1	<0.02
118228	Soil	21.5	27.1	0.50	176.6	0.007	3	1.92	0.005	0.10	<0.1	6.5	0.10	0.06	45	0.2	0.05	5.1	2.36	<0.1	0.04
118229	Soil	20.9	20.9	0.41	169.8	0.004	3	1.63	0.005	0.09	<0.1	6.6	0.11	0.08	70	0.2	0.05	4.1	2.29	<0.1	0.07
118230	Soil	10.7	20.7	0.33	672.9	0.005	3	1.51	0.006	0.07	<0.1	3.2	0.09	0.10	44	0.2	0.03	3.6	1.32	<0.1	0.03
118231	Soil	6.6	21.8	0.23	147.4	0.004	2	1.35	0.002	0.07	0.1	0.9	0.14	0.04	78	0.2	0.04	4.6	2.40	<0.1	<0.02
118232	Soil	8.5	25.1	0.27	193.1	0.004	3	1.51	0.003	0.08	<0.1	2.8	0.18	0.05	142	0.3	0.03	4.7	2.16	<0.1	0.04
118233	Soil	11.2	27.7	0.30	189.4	0.009	2	1.73	0.004	0.06	0.1	1.9	0.15	0.10	242	0.5	0.02	5.0	1.32	<0.1	<0.02
118234	Soil	11.0	18.3	0.20	131.5	0.005	2	0.97	0.004	0.05	<0.1	1.7	0.12	0.11	185	0.7	<0.02	2.6	0.91	<0.1	0.03
118235	Soil	15.4	41.2	0.44	185.3	0.006	3	0.83	0.006	0.09	<0.1	5.5	0.22	0.06	252	1.3	0.03	2.7	1.23	<0.1	0.05
118236	Soil	21.4	37.2	0.47	288.8	0.004	4	1.08	0.006	0.08	<0.1	4.7	0.17	0.10	101	1.1	<0.02	3.4	2.70	<0.1	0.05
118237	Soil	21.4	59.0	0.58	74.5	0.003	3	0.56	0.004	0.06	<0.1	5.6	0.12	0.03	99	0.9	<0.02	2.1	1.15	<0.1	0.05
118238	Soil	7.6	27.5	0.49	76.8	0.002	3	0.49	0.003	0.09	<0.1	6.8	0.40	0.19	161	0.5	0.03	1.8	10.24	<0.1	0.03
118239	Soil	5.7	30.5	1.04	52.5	0.002	2	0.98	0.001	0.09	<0.1	5.9	0.09	0.08	63	0.3	<0.02	3.1	4.77	<0.1	0.05
118240	Soil	7.5	12.3	0.15	34.6	<0.001	2	0.32	0.002	0.09	<0.1	5.8	0.21	<0.02	1014	0.2	0.09	1.2	7.99	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 12 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001025.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
118221	Soil	0.39	17.0	3.3	<0.05	0.1	1.58	13.6	0.02	<1	0.3	5.4	<10	<2
118222	Soil	0.29	14.5	2.4	<0.05	<0.1	2.02	19.6	0.02	<1	0.3	1.4	<10	<2
118223	Soil	0.47	15.5	1.6	<0.05	0.8	3.52	12.0	0.05	<1	0.9	29.5	<10	<2
118224	Soil	0.38	17.4	7.6	<0.05	1.5	29.62	31.5	0.06	<1	2.1	95.9	<10	<2
118225	Soil	0.66	13.7	12.8	<0.05	0.2	2.84	15.5	0.03	<1	0.5	30.3	<10	<2
118226	Soil	0.31	19.9	7.9	<0.05	0.8	3.39	8.8	0.03	<1	0.8	24.7	<10	<2
118227	Soil	0.27	14.5	4.0	<0.05	0.1	7.40	18.6	0.04	<1	1.4	39.8	<10	<2
118228	Soil	0.38	13.0	1.7	<0.05	0.8	31.76	57.2	0.05	<1	1.5	39.1	<10	<2
118229	Soil	0.33	10.2	2.6	<0.05	1.6	35.47	43.2	0.05	<1	1.5	32.8	<10	<2
118230	Soil	0.44	9.4	1.6	<0.05	0.9	13.48	28.8	0.04	<1	1.1	18.0	<10	<2
118231	Soil	0.33	12.5	1.5	<0.05	0.2	3.21	15.3	0.03	<1	0.7	16.4	<10	<2
118232	Soil	0.41	14.1	3.9	<0.05	1.1	4.52	26.1	0.04	<1	0.8	17.0	<10	<2
118233	Soil	0.77	10.4	0.9	<0.05	0.7	7.22	20.8	0.03	<1	0.8	12.2	<10	<2
118234	Soil	0.43	6.9	1.9	<0.05	0.7	8.14	26.7	0.03	<1	0.8	9.0	<10	<2
118235	Soil	0.23	7.9	4.3	<0.05	1.4	13.43	30.3	0.04	<1	0.8	10.3	<10	<2
118236	Soil	0.35	9.8	1.5	<0.05	1.9	14.64	37.0	0.03	<1	1.1	17.1	<10	<2
118237	Soil	0.09	5.2	2.5	<0.05	2.0	14.29	47.6	0.04	<1	0.7	8.4	<10	<2
118238	Soil	0.06	8.5	3.8	<0.05	1.1	8.12	16.9	0.05	<1	1.2	9.8	<10	<2
118239	Soil	0.06	6.5	2.0	<0.05	2.3	7.16	12.4	0.03	<1	1.3	30.0	<10	<2
118240	Soil	<0.02	7.5	2.1	<0.05	1.7	4.63	14.6	0.04	<1	1.0	4.2	<10	<2



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: September 13, 2011

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001025.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
119617	Soil	0.34	25.61	22.07	121.1	94	17.8	10.1	617	2.60	15.9	1.1	0.9	1.0	94.3	0.53	1.00	0.26	15	1.56	0.119
REP 119617	QC	0.33	23.80	22.12	125.0	88	18.3	10.3	630	2.61	15.9	1.1	0.6	0.9	95.2	0.51	0.99	0.25	15	1.57	0.121
119629	Soil	0.29	38.09	32.28	91.6	107	27.4	16.4	883	3.15	18.6	1.1	2.0	3.9	34.2	0.12	0.49	0.50	7	0.49	0.054
REP 119629	QC	0.25	35.30	30.81	86.8	95	25.7	15.7	869	2.98	17.6	1.0	1.6	3.6	32.1	0.10	0.45	0.48	7	0.47	0.053
119774	Soil	0.38	23.16	23.96	75.8	191	19.7	9.8	315	2.60	8.9	1.1	1.0	1.0	134.4	0.07	0.41	0.26	9	1.43	0.056
REP 119774	QC	0.37	24.38	24.71	78.1	197	21.1	10.2	324	2.68	9.1	1.1	0.8	1.0	140.4	0.09	0.44	0.27	9	1.49	0.055
120126	Soil	0.44	24.43	19.00	67.1	188	21.1	10.0	305	2.55	15.1	1.5	1.2	1.3	99.2	0.16	0.33	0.25	15	1.94	0.054
REP 120126	QC	0.45	24.70	19.25	66.7	188	20.8	9.9	315	2.58	14.7	1.6	1.0	1.4	104.2	0.15	0.32	0.26	15	1.92	0.055
120636	Soil	0.55	72.79	46.40	98.4	85	38.6	20.6	1081	4.22	34.1	0.4	12.3	2.8	17.4	0.05	1.41	0.54	8	0.04	0.020
REP 120636	QC	0.59	74.57	47.34	103.4	91	39.9	21.8	1101	4.45	36.2	0.5	14.5	3.2	20.0	0.05	1.74	0.56	9	0.04	0.020
121886	Soil	0.79	31.32	19.75	76.8	178	22.8	10.0	408	2.41	16.1	2.5	9.3	1.3	87.6	0.27	0.79	0.21	15	1.68	0.051
REP 121886	QC	0.71	31.33	19.08	76.7	179	22.8	10.0	399	2.41	16.0	2.4	7.4	1.3	85.8	0.24	0.78	0.20	14	1.62	0.051
120863	Soil	2.47	47.98	25.73	114.0	864	34.3	12.9	262	2.69	1149	5.0	36.0	2.0	141.7	0.46	5.43	0.24	24	1.48	0.067
REP 120863	QC	2.51	49.14	26.29	114.2	872	35.6	13.0	273	2.75	1177	5.1	36.7	2.0	152.3	0.46	5.47	0.24	25	1.47	0.068
119847	Soil	0.51	35.81	31.45	71.9	180	25.0	12.8	416	2.93	17.7	1.1	1.0	2.1	156.7	0.15	0.38	0.36	16	1.73	0.054
REP 119847	QC	0.49	36.14	32.81	72.3	184	24.9	13.0	414	2.97	17.5	1.1	1.6	2.1	155.4	0.14	0.38	0.37	16	1.73	0.054
118587	Soil	0.63	42.82	43.67	102.4	237	37.4	17.2	468	4.12	17.8	1.2	0.9	3.5	75.1	0.14	0.51	0.39	14	1.00	0.070
REP 118587	QC	0.66	45.42	47.04	107.5	264	39.3	18.4	500	4.42	18.9	1.3	1.2	3.8	81.4	0.11	0.59	0.44	15	1.06	0.073
119183	Soil	0.54	32.27	18.42	97.5	91	22.7	8.7	204	3.07	82.8	0.7	5.3	0.5	20.9	0.14	1.37	0.37	24	0.14	0.065
REP 119183	QC	0.50	31.48	18.82	97.2	95	23.0	8.8	204	3.04	83.4	0.7	4.6	0.6	20.8	0.16	1.31	0.36	23	0.14	0.065
119192	Soil	0.61	50.65	18.87	88.8	155	22.6	11.7	996	2.54	27.8	9.7	1.0	0.8	183.8	0.34	0.74	0.36	21	2.44	0.174
REP 119192	QC	0.57	50.22	18.72	87.1	149	22.5	11.8	962	2.50	26.7	9.5	0.9	0.8	180.0	0.36	0.75	0.34	21	2.36	0.171
118076	Soil	1.03	19.07	21.02	67.3	360	15.5	7.3	417	2.54	23.1	6.9	3.5	0.9	67.6	0.25	1.01	0.22	30	0.78	0.069
REP 118076	QC	1.07	19.53	21.83	67.2	352	15.4	7.6	435	2.58	23.7	7.1	3.6	0.9	69.5	0.27	1.06	0.23	31	0.79	0.070
118097	Soil	0.56	42.16	28.23	115.5	157	31.8	15.7	453	3.59	16.9	1.3	3.4	2.7	70.6	0.12	0.53	0.42	19	0.66	0.055
REP 118097	QC	0.53	42.12	28.59	117.9	158	32.7	16.2	437	3.57	16.9	1.3	2.8	2.7	72.5	0.12	0.47	0.41	19	0.65	0.056
118100	Soil	0.78	18.45	15.37	62.7	11	15.5	7.2	120	2.54	65.5	0.4	0.6	3.7	10.6	0.07	0.73	0.31	33	0.02	0.019
REP 118100	QC	0.79	19.46	16.61	65.8	5	16.3	7.5	122	2.68	69.5	0.5	1.5	4.0	11.0	0.05	0.72	0.32	35	0.02	0.020

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 13, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001025.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
119617	Soil	17.9	12.5	0.14	192.1	0.003	2	0.89	0.003	0.08	<0.1	3.2	0.05	0.08	98	0.2	0.05	1.8	0.53	<0.1	<0.02
REP 119617	QC	17.5	12.4	0.14	188.6	0.003	2	0.89	0.003	0.08	<0.1	3.1	0.05	0.08	112	0.2	0.04	1.9	0.51	<0.1	0.03
119629	Soil	15.7	9.8	0.10	92.2	<0.001	1	0.48	0.002	0.04	<0.1	10.3	0.05	0.03	104	0.1	0.09	0.8	1.74	<0.1	0.06
REP 119629	QC	14.8	9.6	0.10	87.9	<0.001	2	0.47	0.002	0.04	<0.1	10.0	0.05	0.02	95	0.1	0.09	0.8	1.77	<0.1	0.05
119774	Soil	3.7	9.8	0.17	120.7	0.001	3	0.64	0.002	0.05	<0.1	3.1	0.07	0.07	171	0.5	<0.02	1.7	1.23	<0.1	0.03
REP 119774	QC	3.8	9.8	0.18	120.6	0.001	3	0.64	0.003	0.05	<0.1	3.2	0.07	0.07	177	0.6	<0.02	1.8	1.29	<0.1	0.03
120126	Soil	5.4	15.2	0.29	119.8	0.002	3	0.86	0.003	0.04	<0.1	3.2	0.08	0.08	126	0.4	0.05	2.6	0.73	<0.1	0.03
REP 120126	QC	5.2	15.0	0.30	117.1	0.002	4	0.92	0.003	0.04	<0.1	3.3	0.08	0.08	121	0.4	0.03	2.4	0.75	<0.1	0.03
120636	Soil	4.9	6.3	0.06	17.8	<0.001	1	0.34	0.001	0.06	<0.1	5.3	0.19	<0.02	215	0.5	0.09	1.0	12.71	<0.1	0.03
REP 120636	QC	5.6	7.1	0.06	19.3	<0.001	2	0.38	0.002	0.07	<0.1	5.7	0.25	<0.02	243	0.3	0.13	1.1	15.71	<0.1	0.06
121886	Soil	11.4	14.4	0.33	175.2	0.002	3	0.65	0.005	0.06	<0.1	2.4	0.10	0.08	233	1.1	<0.02	1.9	0.65	<0.1	0.05
REP 121886	QC	11.0	14.3	0.31	172.3	0.002	3	0.65	0.005	0.05	<0.1	2.4	0.10	0.07	227	1.1	0.04	1.9	0.56	<0.1	0.04
120863	Soil	10.0	16.5	0.27	83.8	0.001	4	0.47	0.004	0.08	<0.1	3.6	3.58	0.05	853	1.3	<0.02	1.5	0.71	<0.1	0.08
REP 120863	QC	10.3	17.1	0.28	86.6	0.001	4	0.50	0.004	0.08	<0.1	3.7	3.71	0.06	849	1.3	0.03	1.5	0.79	<0.1	0.09
119847	Soil	9.0	16.4	0.30	119.2	0.002	5	1.03	0.003	0.06	<0.1	6.5	0.09	0.07	113	0.4	0.04	2.8	1.37	<0.1	0.03
REP 119847	QC	9.0	16.4	0.30	119.8	0.002	5	1.04	0.003	0.06	<0.1	6.5	0.09	0.07	98	0.5	0.02	2.7	1.40	<0.1	0.04
118587	Soil	10.0	12.4	0.24	93.3	0.002	5	0.77	0.004	0.09	<0.1	9.2	0.15	0.07	244	0.5	0.05	2.2	4.47	<0.1	0.05
REP 118587	QC	10.9	13.1	0.21	102.3	0.002	6	0.84	0.004	0.09	<0.1	9.9	0.17	0.08	252	0.4	0.09	2.3	5.02	<0.1	0.05
119183	Soil	5.1	16.0	0.10	73.9	0.002	2	0.66	0.002	0.09	<0.1	1.5	0.09	0.04	135	0.3	0.02	2.4	3.47	<0.1	<0.02
REP 119183	QC	5.2	15.7	0.10	73.4	0.002	2	0.64	0.002	0.09	<0.1	1.6	0.09	0.04	140	0.1	0.03	2.3	3.44	<0.1	<0.02
119192	Soil	12.8	17.8	0.36	238.7	0.005	5	1.23	0.006	0.07	<0.1	3.7	0.09	0.18	148	0.8	<0.02	3.0	2.14	<0.1	0.02
REP 119192	QC	13.1	17.2	0.35	236.7	0.005	4	1.21	0.006	0.07	<0.1	3.5	0.09	0.18	119	0.8	<0.02	2.9	2.19	<0.1	<0.02
118076	Soil	17.2	20.9	0.15	110.9	0.004	1	0.95	<0.001	0.04	<0.1	2.5	0.17	0.05	182	0.6	0.03	2.5	0.40	<0.1	<0.02
REP 118076	QC	18.0	21.3	0.16	117.3	0.004	<1	0.97	<0.001	0.04	<0.1	2.6	0.17	0.05	186	0.6	<0.02	2.6	0.44	<0.1	0.03
118097	Soil	6.5	22.0	0.39	103.5	0.003	3	1.23	0.002	0.08	<0.1	4.9	0.09	0.04	124	0.3	0.06	3.8	2.42	<0.1	0.05
REP 118097	QC	6.4	21.7	0.38	103.1	0.003	3	1.22	0.002	0.08	<0.1	4.8	0.08	0.04	108	0.4	0.05	3.8	2.36	<0.1	0.05
118100	Soil	9.3	13.6	0.12	59.7	0.005	1	1.02	<0.001	0.06	<0.1	2.0	0.16	<0.02	20	0.2	0.05	4.5	2.74	<0.1	0.03
REP 118100	QC	10.0	13.5	0.14	63.0	0.006	2	1.05	<0.001	0.06	<0.1	2.2	0.16	<0.02	23	0.2	0.04	4.6	2.86	<0.1	0.02

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 13, 2011

Page: 1 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001025.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
119617	Soil	0.27	6.9	1.3	<0.05	0.8	18.85	38.9	0.04	<1	1.2	5.9	<10	<2
REP 119617	QC	0.29	7.2	1.1	<0.05	0.6	18.96	37.9	0.03	<1	1.3	5.8	<10	<2
119629	Soil	0.04	6.3	1.0	<0.05	2.2	30.47	24.0	0.05	<1	1.4	6.4	<10	<2
REP 119629	QC	0.04	6.1	1.4	<0.05	1.8	28.06	23.4	0.05	<1	1.3	6.4	<10	<2
119774	Soil	0.14	6.8	0.8	<0.05	1.0	10.08	8.9	0.04	<1	0.8	15.6	<10	<2
REP 119774	QC	0.15	7.0	0.7	<0.05	1.1	10.58	9.1	0.04	<1	0.7	16.4	<10	<2
120126	Soil	0.24	4.2	0.7	<0.05	1.4	9.85	14.4	0.03	<1	0.7	23.4	<10	<2
REP 120126	QC	0.23	4.1	0.7	<0.05	1.5	9.93	14.2	0.03	1	0.8	24.1	<10	<2
120636	Soil	<0.02	8.5	1.6	<0.05	2.6	3.36	10.6	0.05	<1	0.7	3.3	<10	2
REP 120636	QC	<0.02	10.6	1.9	<0.05	3.9	3.73	12.0	0.05	2	1.0	3.8	<10	<2
121886	Soil	0.19	4.5	9.5	<0.05	1.8	8.60	24.3	0.05	<1	0.7	12.9	<10	<2
REP 121886	QC	0.18	4.1	9.0	<0.05	1.9	8.47	23.4	0.04	1	0.7	12.3	<10	<2
120863	Soil	0.09	4.0	1.3	<0.05	2.9	10.82	24.6	0.04	<1	0.9	4.1	<10	<2
REP 120863	QC	0.08	4.3	1.4	<0.05	2.6	10.97	25.6	0.04	<1	0.9	4.3	<10	<2
119847	Soil	0.24	6.4	7.9	<0.05	1.2	16.27	21.5	0.04	<1	1.0	32.9	<10	<2
REP 119847	QC	0.27	6.2	9.3	<0.05	1.2	16.77	21.3	0.07	<1	1.0	33.7	<10	<2
118587	Soil	0.21	9.8	3.9	<0.05	1.6	21.50	19.7	0.05	<1	1.0	18.8	<10	<2
REP 118587	QC	0.24	11.1	4.1	<0.05	1.8	23.09	21.2	0.06	<1	1.0	20.5	<10	<2
119183	Soil	0.15	12.1	1.2	<0.05	0.1	2.56	8.8	0.04	<1	0.6	6.0	<10	<2
REP 119183	QC	0.14	12.2	1.5	<0.05	0.1	2.54	8.8	0.04	<1	0.4	6.0	<10	<2
119192	Soil	0.34	8.9	0.7	<0.05	0.8	22.99	20.9	0.04	<1	1.1	17.5	<10	<2
REP 119192	QC	0.32	9.2	0.7	<0.05	0.8	22.42	21.1	0.04	<1	1.0	17.0	<10	<2
118076	Soil	0.24	8.0	0.5	<0.05	0.6	10.26	34.6	0.03	<1	0.9	9.9	<10	<2
REP 118076	QC	0.24	8.4	0.5	<0.05	0.5	10.62	35.4	0.04	<1	1.0	10.5	<10	<2
118097	Soil	0.25	9.1	0.9	<0.05	2.0	10.80	16.0	0.05	1	1.3	38.4	<10	2
REP 118097	QC	0.23	8.8	0.9	<0.05	1.8	10.97	15.7	0.04	<1	1.3	39.0	<10	<2
118100	Soil	0.61	17.1	1.0	<0.05	1.5	2.23	16.9	0.02	<1	0.2	8.8	<10	<2
REP 118100	QC	0.73	16.8	1.1	<0.05	1.7	2.27	18.8	0.03	<1	0.2	9.2	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: September 13, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001025.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
118130	Soil	0.61	21.89	22.61	95.0	39	20.9	13.3	843	3.57	11.0	0.8	1.0	1.7	43.7	0.26	0.42	0.32	27	0.41	0.072
REP 118130	QC	0.50	20.14	20.67	83.5	31	19.2	12.4	805	3.37	10.5	0.7	0.6	1.5	40.6	0.22	0.37	0.31	26	0.38	0.070
118152	Soil	0.77	21.73	23.18	65.9	53	20.6	9.9	204	3.87	10.3	0.5	0.3	3.3	8.5	0.08	0.47	0.28	33	0.03	0.016
REP 118152	QC	0.76	22.24	23.93	64.8	51	21.5	9.9	205	3.95	10.2	0.5	1.0	3.3	8.5	0.09	0.44	0.28	33	0.04	0.016
118926	Soil	0.67	22.86	24.17	108.9	80	24.8	15.4	570	2.61	13.1	0.5	1.3	2.0	127.4	0.08	0.41	0.28	14	1.48	0.058
REP 118926	QC	0.61	23.07	24.25	103.3	84	25.2	15.5	577	2.65	13.2	0.5	1.7	1.9	125.7	0.08	0.41	0.28	14	1.47	0.058
118942	Soil	1.02	20.88	16.77	66.9	43	19.6	7.7	218	3.57	41.2	0.7	1.7	0.9	13.2	0.13	1.24	0.29	34	0.03	0.051
REP 118942	QC	0.98	21.43	18.15	66.7	51	19.2	7.9	217	3.64	41.9	0.7	19.3	1.0	13.4	0.16	1.26	0.30	34	0.03	0.052
118226	Soil	0.65	25.99	36.58	86.3	165	19.2	17.3	2316	4.00	7.4	0.5	0.6	1.1	10.5	0.20	0.30	0.43	39	0.04	0.139
REP 118226	QC	0.65	25.52	35.67	86.7	163	19.0	16.6	2277	4.02	7.8	0.5	0.8	0.8	11.6	0.21	0.30	0.44	41	0.04	0.139
118229	Soil	0.53	31.26	28.83	81.2	106	24.9	14.6	886	3.62	11.9	2.2	1.5	2.2	77.3	0.22	0.40	0.33	24	1.28	0.104
REP 118229	QC	0.53	31.25	27.82	81.8	107	24.7	14.1	879	3.64	11.7	2.3	1.6	2.2	78.8	0.22	0.41	0.33	24	1.28	0.104
Reference Materials																					
STD DS8	Standard	14.73	109.4	116.9	297.8	1657	33.9	7.3	551	2.31	26.2	2.6	99.6	6.0	57.6	2.22	5.40	6.52	37	0.63	0.078
STD DS8	Standard	13.00	111.6	123.7	324.9	1789	38.5	7.2	599	2.54	25.2	2.6	116.5	6.4	62.6	2.13	4.74	6.14	42	0.74	0.077
STD DS8	Standard	12.59	110.7	120.7	307.2	1797	35.1	7.4	583	2.53	26.6	2.8	110.6	6.7	64.4	2.28	5.47	6.70	41	0.72	0.085
STD DS8	Standard	12.75	123.5	126.5	297.5	1562	34.3	6.9	553	2.43	23.5	3.3	99.1	7.7	71.1	2.30	5.89	7.29	41	0.69	0.080
STD DS8	Standard	12.47	109.4	117.4	295.2	1630	35.0	6.8	542	2.30	23.3	2.8	103.9	6.3	62.0	1.90	5.25	6.06	38	0.69	0.072
STD DS8	Standard	12.80	103.6	122.5	299.3	1813	36.1	7.2	605	2.40	24.1	2.4	120.3	5.9	67.4	2.03	4.75	5.65	41	0.71	0.076
STD DS8	Standard	12.65	125.1	127.7	297.6	1581	35.4	7.1	560	2.52	24.6	3.2	106.0	8.8	70.5	1.98	5.74	7.26	43	0.74	0.083
STD DS8	Standard	11.54	109.3	111.5	297.6	1599	36.9	6.7	547	2.23	24.8	2.4	99.3	6.0	56.7	2.46	5.34	6.53	36	0.62	0.071
STD DS8	Standard	12.50	112.1	120.0	305.9	1712	38.0	7.7	581	2.53	25.9	2.7	130.1	6.5	61.6	2.36	5.48	6.78	39	0.68	0.081
STD DS8	Standard	13.39	110.0	114.8	296.0	1620	38.4	7.2	595	2.31	25.6	2.7	103.0	6.8	67.7	2.18	5.31	6.41	39	0.68	0.076
STD DS8	Standard	13.50	107.1	127.2	319.4	1856	38.6	7.6	614	2.63	25.8	2.6	114.1	6.6	66.8	2.16	5.07	6.30	43	0.75	0.081
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: September 13, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001025.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
118130	Soil	6.6	18.8	0.33	115.8	0.003	2	1.46	0.002	0.09	<0.1	2.9	0.10	0.03	26	0.2	0.04	4.1	2.63	<0.1	0.03
REP 118130	QC	5.9	17.1	0.31	103.6	0.003	3	1.42	0.002	0.09	<0.1	2.8	0.10	0.03	15	0.1	0.06	3.9	2.46	<0.1	0.03
118152	Soil	7.0	19.9	0.34	76.7	0.003	2	1.76	<0.001	0.06	<0.1	2.5	0.12	<0.02	89	0.3	0.04	5.0	1.92	<0.1	0.05
REP 118152	QC	6.8	19.6	0.34	75.5	0.003	1	1.81	<0.001	0.06	<0.1	2.6	0.12	<0.02	73	0.2	0.06	4.9	1.88	<0.1	0.06
118926	Soil	3.1	19.8	0.35	82.6	0.003	5	0.84	0.008	0.08	<0.1	3.3	0.07	0.09	93	0.2	0.05	2.8	2.23	<0.1	0.05
REP 118926	QC	3.3	19.6	0.36	83.7	0.003	4	0.82	0.008	0.08	<0.1	3.4	0.06	0.09	94	0.2	<0.02	2.7	2.18	<0.1	0.06
118942	Soil	7.0	23.6	0.22	69.7	0.005	3	1.34	0.001	0.08	<0.1	1.8	0.13	<0.02	37	0.3	0.03	4.6	2.63	<0.1	<0.02
REP 118942	QC	7.1	23.5	0.22	76.6	0.006	2	1.39	0.001	0.08	<0.1	1.8	0.14	<0.02	55	0.2	0.02	4.5	2.75	<0.1	<0.02
118226	Soil	3.6	23.6	0.28	146.0	0.002	2	1.63	0.002	0.13	<0.1	1.6	0.12	0.06	32	0.2	0.10	6.9	3.83	<0.1	0.03
REP 118226	QC	4.0	26.1	0.29	149.4	0.003	4	1.78	0.002	0.17	<0.1	1.5	0.14	0.06	38	0.2	0.11	7.1	4.83	<0.1	0.02
118229	Soil	20.9	20.9	0.41	169.8	0.004	3	1.63	0.005	0.09	<0.1	6.6	0.11	0.08	70	0.2	0.05	4.1	2.29	<0.1	0.07
REP 118229	QC	21.2	22.5	0.42	166.6	0.004	3	1.62	0.005	0.09	<0.1	6.9	0.11	0.08	62	0.2	0.05	4.1	2.34	<0.1	0.06
Reference Materials																					
STD DS8	Standard	13.0	112.2	0.57	245.9	0.103	2	0.82	0.073	0.38	2.9	2.1	5.17	0.15	185	4.9	4.60	4.2	2.34	<0.1	0.07
STD DS8	Standard	13.0	120.9	0.62	255.6	0.111	2	0.93	0.088	0.43	2.8	1.8	5.49	0.16	201	5.0	4.92	4.7	2.26	<0.1	0.08
STD DS8	Standard	16.5	117.1	0.63	266.9	0.117	3	0.97	0.091	0.44	3.1	2.5	5.53	0.16	194	5.3	5.14	4.8	2.46	<0.1	0.08
STD DS8	Standard	18.2	107.1	0.60	246.1	0.118	2	0.89	0.082	0.40	2.6	2.5	4.91	0.16	193	4.6	4.72	4.3	2.29	<0.1	0.06
STD DS8	Standard	16.9	110.8	0.58	251.8	0.121	2	0.88	0.083	0.39	2.7	2.3	5.09	0.15	169	4.7	4.59	4.3	2.29	<0.1	0.07
STD DS8	Standard	14.3	120.8	0.60	245.3	0.099	2	0.98	0.097	0.42	3.0	1.9	5.58	0.16	196	5.1	5.11	4.8	2.46	<0.1	0.09
STD DS8	Standard	18.0	112.0	0.64	243.0	0.128	3	0.95	0.091	0.42	2.5	2.4	4.96	0.17	197	4.5	4.52	4.4	2.21	<0.1	0.08
STD DS8	Standard	12.0	102.7	0.56	245.2	0.097	2	0.79	0.070	0.37	2.6	1.7	4.90	0.15	188	4.6	4.29	4.0	2.32	<0.1	0.06
STD DS8	Standard	13.5	117.2	0.60	253.5	0.107	2	0.89	0.082	0.41	2.8	2.0	5.23	0.15	191	5.0	4.85	4.3	2.33	<0.1	0.07
STD DS8	Standard	16.4	111.4	0.57	247.3	0.119	2	0.90	0.095	0.39	2.7	2.4	4.97	0.15	159	4.5	4.54	4.4	2.26	<0.1	0.08
STD DS8	Standard	16.4	128.2	0.64	267.3	0.118	3	0.99	0.093	0.42	2.8	2.1	5.52	0.17	200	5.2	4.89	4.8	2.40	<0.1	0.07
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: September 13, 2011

Page: 2 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001025.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
118130	Soil	0.30	15.8	1.3	<0.05	0.7	5.45	19.5	0.05	<1	1.0	30.2	<10	<2
REP 118130	QC	0.31	14.6	1.2	<0.05	0.6	5.02	18.0	0.04	<1	0.8	28.7	<10	<2
118152	Soil	0.33	12.0	1.7	<0.05	2.4	3.10	13.8	0.03	<1	0.7	55.2	<10	<2
REP 118152	QC	0.37	11.7	2.4	<0.05	2.5	3.04	13.6	0.04	<1	0.7	54.9	<10	<2
118926	Soil	0.27	8.0	1.7	<0.05	2.0	4.55	9.3	0.02	<1	0.7	28.2	<10	<2
REP 118926	QC	0.25	7.8	2.1	<0.05	2.0	4.45	9.5	0.02	<1	0.6	29.9	<10	<2
118942	Soil	0.41	16.4	1.9	<0.05	0.1	2.90	13.9	0.03	<1	0.6	24.3	<10	<2
REP 118942	QC	0.44	16.6	2.6	<0.05	0.2	3.05	14.3	0.03	<1	0.6	24.9	<10	<2
118226	Soil	0.31	19.9	7.9	<0.05	0.8	3.39	8.8	0.03	<1	0.8	24.7	<10	<2
REP 118226	QC	0.26	23.9	7.9	<0.05	0.7	3.38	9.7	0.05	<1	0.8	25.6	<10	<2
118229	Soil	0.33	10.2	2.6	<0.05	1.6	35.47	43.2	0.05	<1	1.5	32.8	<10	<2
REP 118229	QC	0.34	10.4	2.1	<0.05	1.6	36.61	44.0	0.05	<1	1.5	32.5	<10	<2
Reference Materials														
STD DS8	Standard	1.05	38.9	6.5	<0.05	1.4	5.14	22.5	2.12	56	4.7	28.2	112	332
STD DS8	Standard	1.01	38.0	5.9	<0.05	1.8	5.03	25.8	2.03	54	5.1	26.6	112	347
STD DS8	Standard	1.42	41.0	6.5	<0.05	1.7	6.56	28.1	2.31	51	5.1	29.7	118	348
STD DS8	Standard	1.17	35.6	7.2	<0.05	1.3	6.46	25.2	2.47	50	4.8	27.9	85	307
STD DS8	Standard	1.43	34.6	5.9	<0.05	1.3	6.23	27.1	2.09	50	5.1	25.8	115	314
STD DS8	Standard	1.45	35.1	5.8	<0.05	1.9	6.04	30.0	1.96	55	5.2	24.9	110	349
STD DS8	Standard	1.15	35.1	7.1	<0.05	1.6	6.37	25.5	2.41	48	4.5	27.3	106	300
STD DS8	Standard	1.14	35.1	6.7	<0.05	1.5	4.76	21.4	2.25	55	4.0	24.6	89	312
STD DS8	Standard	1.02	37.3	6.6	<0.05	1.7	5.18	22.8	2.29	45	5.1	27.2	101	333
STD DS8	Standard	1.30	35.1	6.5	<0.05	2.1	6.28	29.2	2.08	53	4.9	25.4	100	321
STD DS8	Standard	1.30	35.3	6.4	<0.05	1.9	6.11	30.2	2.10	55	5.1	29.6	133	357
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: September 13, 2011

Page: 3 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001025.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: September 13, 2011

Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001025.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: September 13, 2011

Page: 3 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001025.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



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Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 12, 2011
Report Date: October 25, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI11001093.2

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-21
P.O. Number
Number of Samples: 22

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	21	Crush, split and pulverize 250 g rock to 200 mesh			WHI
3B01	22	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX1	22	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
7TD	6	4-acid Digestion ICP-ES Finish	0.5	Completed	VAN
G6Gr	4	Lead collection fire assay 30G fusion - Grav finish	30	Completed	VAN
7TD.1	1	4 Acid digestion ICP-ES analysis	0.1	Completed	VAN
2A04	7	NaOH fusion, analysis by specific ion electrode	0.2	Completed	VAN

ADDITIONAL COMMENTS

Version 2: 2A04 for Samples 1097551 to 1097557 included.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: Simon Ridgway
database backup
Scott Turton



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 25, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

WHI11001093.2

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
119548	Rock	1.07	5	0.2	2.3	3.3	12	<0.1	2.3	3.7	1132	1.20	33.7	0.7	0.5	846	<0.1	<0.1	<0.1	<2	27.91
119549	Rock	1.02	3	<0.1	1.0	2.7	17	<0.1	0.2	0.8	203	0.17	4.0	<0.5	0.5	479	<0.1	0.2	<0.1	<2	33.95
119550	Rock	1.47	4	0.1	3.5	6.3	40	<0.1	9.8	5.0	298	1.24	47.1	1.8	2.4	9	<0.1	0.8	0.9	<2	1.23
1097301	Rock	1.54	3	<0.1	0.6	1.4	34	<0.1	0.1	0.6	986	0.84	2.2	1.5	0.1	55	<0.1	0.3	<0.1	<2	18.14
1097302	Rock	1.35	3	<0.1	0.7	2.3	33	<0.1	<0.1	0.4	376	0.21	3.2	0.7	<0.1	81	0.2	0.2	<0.1	<2	18.57
1097303	Rock	1.81	<2	<0.1	0.6	2.0	25	<0.1	0.4	0.4	1199	1.28	2.0	1.1	0.1	43	<0.1	0.1	<0.1	<2	17.40
1097304	Rock	2.72	2	0.2	13.7	26.1	21	<0.1	22.6	5.7	168	1.39	11.9	0.9	2.5	4	<0.1	0.8	0.2	3	0.13
1097305	Rock	0.97	2	<0.1	1.1	0.9	8	<0.1	<0.1	0.2	11	0.17	2.1	<0.5	0.1	2104	<0.1	0.2	<0.1	<2	35.20
1097306	Rock	1.52	10	0.7	32.9	17.4	112	0.1	18.8	10.0	215	3.52	4.7	<0.5	4.9	<1	0.1	0.1	0.3	7	0.04
1097307	Rock	1.28	<2	0.1	5.4	5.2	18	<0.1	4.5	2.0	222	0.87	2.5	<0.5	2.7	1552	<0.1	<0.1	<0.1	4	29.58
1097308	Rock	1.74	<2	<0.1	0.6	0.9	13	<0.1	3.0	1.7	246	0.78	2.2	<0.5	0.2	1462	<0.1	<0.1	<0.1	<2	36.29
1097309	Rock	1.14	3	0.2	1.2	2.0	6	<0.1	3.9	0.9	103	1.28	8.8	<0.5	0.2	492	<0.1	0.2	<0.1	<2	9.32
1097310	Rock	1.58	8	<0.1	2.7	2.8	19	<0.1	2.9	1.6	205	0.95	23.9	2.9	1.1	975	<0.1	0.3	<0.1	<2	29.42
1097311	Rock	1.90	<2	<0.1	3.8	4.6	25	<0.1	4.2	1.6	213	1.15	77.7	<0.5	1.0	965	<0.1	1.3	<0.1	<2	31.76
1097551	Rock	2.19	<2	<0.1	1027	>10000	>10000	61.1	6.3	3.9	622	1.26	42.9	<0.5	0.3	<1	1124	517.5	0.2	<2	7.86
1097552	Rock	2.41	11	0.3	999.5	>10000	>10000	>100	6.4	3.1	569	1.09	28.3	<0.5	0.4	40	1349	1583	0.1	4	7.76
1097553	Rock	1.19	4	<0.1	408.2	>10000	>10000	>100	1.3	0.7	601	1.14	209.5	<0.5	0.1	29	1081	572.1	0.1	<2	11.85
1097554	Rock	1.68	<2	0.4	3.3	2597	>10000	0.3	0.6	0.8	1558	4.08	2.6	<0.5	0.3	54	44.1	2.8	<0.1	<2	15.77
1097555	Rock	1.09	<2	0.2	2.3	295.4	553	0.2	1.3	0.9	1679	2.40	2.3	<0.5	0.4	49	1.5	0.9	<0.1	<2	16.98
1097556	Rock	1.64	2	<0.1	629.7	>10000	>10000	>100	1.8	1.7	90	0.98	30.6	<0.5	0.2	4	1857	778.3	0.2	2	0.89
1097557	Rock	1.50	<2	6.1	114.4	2283	>10000	4.0	50.0	17.6	741	>40	625.0	<0.5	2.5	815	7.5	34.2	0.2	6	1.44
1097558	Rock Pulp	0.14	4887	482.4	78.7	893.5	3089	>100	30.9	9.5	323	2.63	76.7	3420	1.6	50	30.3	120.4	1.7	49	0.52



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
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Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

WHI11001093.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	7TD	7TD	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	Zn	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.02	0.01	
119548	Rock	0.169	5	1	0.69	37	0.001	<20	0.05	0.009	0.03	<0.1	0.03	0.7	<0.1	0.05	<1	<0.5	<0.2		
119549	Rock	0.028	4	<1	0.47	35	<0.001	<20	0.03	0.003	0.02	<0.1	0.08	0.6	<0.1	<0.05	<1	<0.5	<0.2		
119550	Rock	0.008	1	3	0.15	21	<0.001	<20	0.11	0.004	0.06	<0.1	0.05	1.1	<0.1	0.06	<1	<0.5	<0.2		
1097301	Rock	0.026	2	<1	10.44	4	<0.001	<20	0.02	0.009	<0.01	<0.1	0.14	0.2	<0.1	<0.05	<1	<0.5	<0.2		
1097302	Rock	0.018	3	<1	9.76	4	<0.001	<20	0.04	0.013	<0.01	<0.1	0.13	0.2	<0.1	<0.05	<1	<0.5	<0.2		
1097303	Rock	0.019	<1	<1	9.75	4	<0.001	<20	0.02	0.008	0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2		
1097304	Rock	0.020	2	4	0.05	29	<0.001	<20	0.34	0.004	0.18	<0.1	0.20	2.9	<0.1	<0.05	<1	<0.5	<0.2		
1097305	Rock	0.019	2	<1	0.12	23	<0.001	<20	0.02	0.027	<0.01	<0.1	0.01	0.4	<0.1	<0.05	<1	<0.5	0.2		
1097306	Rock	0.020	1	9	0.17	35	<0.001	<20	0.58	0.008	0.23	<0.1	<0.01	3.0	<0.1	2.05	2	<0.5	<0.2		
1097307	Rock	0.053	8	4	0.16	440	<0.001	<20	0.19	0.017	0.11	<0.1	0.02	2.4	<0.1	<0.05	<1	<0.5	<0.2		
1097308	Rock	<0.001	<1	<1	0.18	28	<0.001	<20	0.03	0.002	0.02	<0.1	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2		
1097309	Rock	0.054	1	1	0.14	37	<0.001	<20	0.02	0.007	0.01	<0.1	0.01	0.9	<0.1	0.10	<1	<0.5	<0.2		
1097310	Rock	0.075	4	2	0.11	47	<0.001	<20	0.10	0.008	0.05	<0.1	0.07	1.6	<0.1	<0.05	<1	<0.5	<0.2		
1097311	Rock	0.018	4	2	0.12	24	0.001	<20	0.08	0.006	0.03	<0.1	0.01	1.7	<0.1	<0.05	<1	<0.5	<0.2		
1097551	Rock	0.031	2	3	3.91	44	<0.001	<20	0.06	<0.001	0.01	<0.1	>50	1.0	0.4	>10	124	12.2	<0.2	4.82	25.03
1097552	Rock	0.028	1	2	4.28	38	<0.001	<20	0.07	<0.001	0.02	<0.1	>50	0.9	0.6	>10	39	7.0	<0.2	7.85	25.95
1097553	Rock	0.023	<1	<1	6.79	13	<0.001	<20	0.02	<0.001	<0.01	<0.1	>50	0.4	4.0	>10	2	7.9	<0.2	8.67	20.75
1097554	Rock	0.027	2	<1	8.94	5	<0.001	<20	0.04	0.014	0.02	<0.1	0.65	0.3	0.8	5.32	1	<0.5	<0.2	0.30	3.25
1097555	Rock	0.022	2	1	9.88	10	<0.001	<20	0.05	0.011	0.03	<0.1	0.19	0.5	2.0	2.66	<1	<0.5	<0.2		
1097556	Rock	0.034	<1	<1	0.48	13	<0.001	<20	0.02	<0.001	<0.01	<0.1	>50	0.3	1.4	>10	47	17.4	<0.2	>10	27.74
1097557	Rock	0.137	3	16	0.89	66	0.001	<20	1.13	<0.001	0.06	<0.1	>50	6.4	2.2	0.14	2	0.8	<0.2	0.20	0.84
1097558	Rock Pulp	0.040	5	38	0.44	77	0.071	<20	0.97	0.072	0.14	17.8	2.03	2.8	2.7	1.00	7	0.9	0.5		



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 2 of 2 Part 3

CERTIFICATE OF ANALYSIS

WHI11001093.2

Method	Analyte	G6Gr	7TD.1	2A F
		Ag	Pb	F
Unit		gm/t	%	ppm
MDL		50	0.02	10
119548	Rock			N.A.
119549	Rock			N.A.
119550	Rock			N.A.
1097301	Rock			N.A.
1097302	Rock			N.A.
1097303	Rock			N.A.
1097304	Rock			N.A.
1097305	Rock			N.A.
1097306	Rock			N.A.
1097307	Rock			N.A.
1097308	Rock			N.A.
1097309	Rock			N.A.
1097310	Rock			N.A.
1097311	Rock			N.A.
1097551	Rock			120
1097552	Rock	98		180
1097553	Rock	76		90
1097554	Rock			230
1097555	Rock			230
1097556	Rock	200	13.02	80
1097557	Rock			270
1097558	Rock Pulp	103		N.A.



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830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

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Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI11001093.2

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
119550	Rock	1.47	4	0.1	3.5	6.3	40	<0.1	9.8	5.0	298	1.24	47.1	1.8	2.4	9	<0.1	0.8	0.9	<2	1.23
REP 119550	QC	3																			
1097552	Rock	2.41	11	0.3	999.5	>10000	>10000	>100	6.4	3.1	569	1.09	28.3	<0.5	0.4	40	1349	1583	0.1	4	7.76
REP 1097552	QC	0.2 1011 >10000 >10000 >100 7.1 3.1 554 1.05 27.2 1.6 0.4 40 1387 1617 0.1 <2 7.76																			
1097556	Rock	1.64	2	<0.1	629.7	>10000	>10000	>100	1.8	1.7	90	0.98	30.6	<0.5	0.2	4	1857	778.3	0.2	2	0.89
REP 1097556	QC																				
Core Reject Duplicates																					
1097302	Rock	1.35	3	<0.1	0.7	2.3	33	<0.1	<0.1	0.4	376	0.21	3.2	0.7	<0.1	81	0.2	0.2	<0.1	<2	18.57
DUP 1097302	QC	<2 <0.1 0.5 2.3 33 <0.1 0.9 0.5 372 0.21 0.9 1.4 <0.1 81 0.2 0.1 <0.1 <2 19.47																			
Reference Materials																					
STD AGPROOF	Standard																				
STD CCU-1C	Standard																				
STD CDN-ME-3	Standard																				
STD CZN-3	Standard																				
STD DS8	Standard	11.9 112.6 122.4 315 1.8 38.6 7.4 592 2.42 24.5 90.1 6.3 59 2.4 4.8 6.8 38 0.64																			
STD OREAS131B	Standard																				
STD OREAS45CA	Standard	1.0 482.2 18.9 60 0.3 216.5 87.9 882 14.60 3.9 38.8 6.6 14 0.1 0.2 0.2 190 0.41																			
STD OXC88	Standard	195																			
STD OXH82	Standard	1310																			
STD PTC-1A	Standard																				
STD STSD-1	Standard																				
STD STSD-1	Standard																				
STD OXC88 Expected		203																			
STD OXH82 Expected		1278																			
STD DS8 Expected		13.44 110 123 312 1.69 38.1 7.5 615 2.46 26 107 6.89 67.7 2.38 4.8 6.67 41.1 0.7																			
STD OREAS45CA Expected		1 494 20 60 0.275 240 92 943 15.69 3.8 43 7 15 0.1 0.13 0.19 215 0.4265																			
STD OREAS131B Expected																					
STD CDN-ME-3 Expected																					

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
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Vancouver BC V6C 2G8 Canada

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Report Date: October 25, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI11001093.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	7TD	7TD
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	Zn	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.02	0.01	
Pulp Duplicates																					
119550	Rock	0.008	1	3	0.15	21	<0.001	<20	0.11	0.004	0.06	<0.1	0.05	1.1	<0.1	0.06	<1	<0.5	<0.2		
REP 119550	QC																				
1097552	Rock	0.028	1	2	4.28	38	<0.001	<20	0.07	<0.001	0.02	<0.1	>50	0.9	0.6	>10	39	7.0	<0.2	7.85	25.95
REP 1097552	QC	0.027	1	1	4.27	30	<0.001	<20	0.07	<0.001	0.02	<0.1	>50	0.8	0.6	>10	42	6.4	<0.2		
1097556	Rock	0.034	<1	<1	0.48	13	<0.001	<20	0.02	<0.001	<0.01	<0.1	>50	0.3	1.4	>10	47	17.4	<0.2	>10	27.74
REP 1097556	QC																			>10	27.63
Core Reject Duplicates																					
1097302	Rock	0.018	3	<1	9.76	4	<0.001	<20	0.04	0.013	<0.01	<0.1	0.13	0.2	<0.1	<0.05	<1	<0.5	<0.2		
DUP 1097302	QC	0.019	3	<1	10.23	4	<0.001	<20	0.04	0.014	<0.01	<0.1	0.14	0.2	<0.1	<0.05	<1	<0.5	<0.2		
Reference Materials																					
STD AGPROOF	Standard																				
STD CCU-1C	Standard																				
STD CDN-ME-3	Standard																				
STD CZN-3	Standard																				
STD DS8	Standard	0.075	11	113	0.58	278	0.105	<20	0.84	0.085	0.40	2.4	0.17	1.9	5.0	0.16	4	4.4	4.5		
STD OREAS131B	Standard																			1.90	3.16
STD OREAS45CA	Standard	0.036	15	620	0.13	150	0.119	<20	3.29	0.014	0.07	<0.1	0.02	32.8	<0.1	<0.05	17	<0.5	<0.2		
STD OXC88	Standard																				
STD OXH82	Standard																				
STD PTC-1A	Standard																				
STD STSD-1	Standard																				
STD STSD-1	Standard																				
STD OXC88 Expected																					
STD OXH82 Expected																					
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5		
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	39.7	0.07	0.021	18.4	0.5			
STD OREAS131B Expected																				1.86	3.14
STD CDN-ME-3 Expected																					

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: October 25, 2011

Page: 1 of 2 **Part** 3

QUALITY CONTROL REPORT

WHI11001093.2

Method	G6Gr	7TD.1	2A F
Analyte	Ag	Pb	F
Unit	gm/t	%	ppm
MDL	50	0.02	10
Pulp Duplicates			
119550	Rock		N.A.
REP 119550	QC		
1097552	Rock	98	180
REP 1097552	QC		
1097556	Rock	200	13.02 80
REP 1097556	QC	12.35	
Core Reject Duplicates			
1097302	Rock		N.A.
DUP 1097302	QC		N.A.
Reference Materials			
STD AGPROOF	Standard	93	
STD CCU-1C	Standard	0.35	
STD CDN-ME-3	Standard	272	
STD CZN-3	Standard	0.11	
STD DS8	Standard		
STD OREAS131B	Standard		
STD OREAS45CA	Standard		
STD OXC88	Standard		
STD OXH82	Standard		
STD PTC-1A	Standard	0.06	
STD STSD-1	Standard		880
STD STSD-1	Standard		870
STD OXC88 Expected			
STD OXH82 Expected			
STD DS8 Expected			
STD OREAS45CA Expected			
STD OREAS131B Expected			
STD CDN-ME-3 Expected		276	



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Report Date: October 25, 2011

Page: 2 of 2 **Part** 1

QUALITY CONTROL REPORT

WHI11001093.2

		WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX		
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
STD AGPROOF Expected																						
STD CZN-3 Expected																						
STD CCU-1C Expected																						
STD PTC-1A Expected																						
STD STSD-1 Expected																						
BLK	Blank		<2																			
BLK	Blank		<2																			
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
Prep Wash																						
G1	Prep Blank		<2	0.2	2.3	3.7	51	<0.1	2.8	3.8	575	2.07	3.1	0.8	5.0	59	<0.1	<0.1	<0.1	35	0.44	
G1	Prep Blank		7	0.1	2.0	3.7	46	<0.1	2.6	3.7	526	1.81	0.8	0.6	6.1	58	<0.1	<0.1	<0.1	32	0.39	



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Report Date: October 25, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI11001093.2

		1DX P %	1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Sc ppm	1DX Ti ppm	1DX S %	1DX Ga ppm	1DX Se ppm	1DX Te ppm	7TD Pb %	7TD Zn %	
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.02	0.01	
STD AGPROOF Expected																						
STD CZN-3 Expected																						
STD CCU-1C Expected																						
STD PTC-1A Expected																						
STD STSD-1 Expected																						
BLK	Blank																					
BLK	Blank																					
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank																			<0.02	<0.01	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
Prep Wash																						
G1	Prep Blank	0.075	10	6	0.49	165	0.125	<20	0.89	0.097	0.47	0.1	<0.01	1.8	0.3	<0.05	5	<0.5	<0.2			
G1	Prep Blank	0.072	9	4	0.47	158	0.113	<20	0.84	0.089	0.45	<0.1	<0.01	1.8	0.3	<0.05	4	<0.5	<0.2			



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: October 25, 2011

Page: 2 of 2 Part 3

QUALITY CONTROL REPORT

WHI11001093.2

		G6Gr	7TD.1	2A F
		Ag	Pb	F
		gm/t	%	ppm
		50	0.02	10
STD AGPROOF Expected		94		
STD CZN-3 Expected			0.113	
STD CCU-1C Expected			0.34	
STD PTC-1A Expected			0.05	
STD STSD-1 Expected				950
BLK	Blank			
BLK	Blank			
BLK	Blank			
BLK	Blank			
BLK	Blank	<50		
BLK	Blank	<50		
BLK	Blank		<0.02	
BLK	Blank			20
Prep Wash				
G1	Prep Blank			N.A.
G1	Prep Blank			N.A.



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Client: **Radius Gold Inc.**
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Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 13, 2011
Report Date: September 26, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001139.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-20
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: David Clark
database backup
Simon Ridgway
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			WHI
1F05	320	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
RJSV	320	Saving all or part of Soil Reject			WHI

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	MDL	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
612392	Soil	0.92	48.34	32.61	100.8	145	28.8	14.4	550	3.14	19.0	1.5	1.1	3.0	49.4	0.12	0.65	0.38	22	0.70	0.093
612393	Soil	0.88	46.63	36.40	101.0	128	38.2	21.4	728	4.38	30.4	1.8	1.8	5.1	38.3	0.17	0.66	0.37	18	0.33	0.060
612394	Soil	1.08	40.34	26.07	91.4	169	31.6	15.2	498	3.18	27.1	1.5	2.7	3.8	265.3	0.19	0.79	0.33	20	6.26	0.058
612395	Soil	0.70	32.20	24.10	89.5	127	29.3	14.1	446	2.84	11.2	1.4	3.8	4.3	86.0	0.19	0.52	0.27	20	1.34	0.066
612396	Soil	0.97	33.50	21.94	80.1	159	29.0	13.0	410	3.14	18.9	1.8	3.2	4.2	105.4	0.31	0.83	0.30	22	1.65	0.065
612397	Soil	0.57	36.77	21.37	79.4	178	27.0	12.6	504	2.71	14.8	2.0	3.6	2.5	123.8	0.24	0.67	0.30	20	1.67	0.073
612398	Soil	1.09	25.75	25.79	106.4	35	21.5	13.9	393	3.06	14.8	1.4	1.0	3.5	49.6	0.16	0.66	0.37	24	0.48	0.025
612399	Soil	0.81	26.66	27.54	81.8	103	28.8	14.2	654	3.24	15.4	2.1	1.9	4.0	38.3	0.14	0.52	0.33	23	0.40	0.057
612400	Soil	0.82	19.49	23.81	78.8	39	16.5	11.1	665	3.53	10.4	0.8	1.7	2.6	31.9	0.13	0.47	0.40	36	0.31	0.048
121767	Soil	0.73	23.17	23.25	79.0	63	20.2	10.9	494	3.30	10.6	1.0	0.9	2.9	37.4	0.13	0.34	0.38	30	0.41	0.043
121768	Soil	0.63	26.31	30.19	94.5	25	26.0	16.5	611	4.03	12.0	0.4	0.6	2.8	12.7	0.09	0.48	0.39	27	0.05	0.033
121769	Soil	0.69	36.93	39.57	111.3	58	40.0	21.5	722	4.56	13.6	0.7	0.8	4.7	30.4	0.10	0.46	0.48	25	0.21	0.035
121770	Soil	0.62	17.92	19.50	56.2	79	20.0	10.9	405	2.56	6.0	0.5	2.1	2.8	28.1	0.08	0.38	0.23	17	0.24	0.033
121771	Soil	0.19	19.34	7.12	36.4	89	11.8	5.0	127	0.96	1.8	0.9	1.3	0.9	79.3	0.07	0.20	0.10	5	1.38	0.027
121772	Soil	0.75	39.16	29.84	92.3	121	34.4	16.2	514	3.41	10.4	0.9	0.8	4.6	61.5	0.17	0.49	0.31	16	1.18	0.036
121773	Soil	0.89	25.36	24.92	75.5	32	18.7	10.4	543	3.73	12.3	0.5	<0.2	1.6	7.3	0.06	0.46	0.36	29	0.02	0.050
121774	Soil	0.79	28.48	26.67	69.2	106	20.5	11.6	398	3.68	9.7	0.4	3.2	2.1	6.4	0.07	0.51	0.33	30	0.03	0.047
121775	Soil	0.63	26.66	24.90	73.9	48	24.0	12.0	514	3.69	9.3	0.5	0.9	2.0	19.3	0.05	0.38	0.31	25	0.21	0.047
121776	Soil	0.69	36.07	31.73	78.7	170	33.9	16.3	535	3.46	10.2	1.0	1.7	3.7	56.2	0.05	0.42	0.31	21	0.85	0.053
121777	Soil	0.63	31.08	26.97	85.5	124	32.7	15.0	377	3.17	8.2	1.1	1.6	3.4	64.1	0.07	0.38	0.30	21	0.96	0.049
121778	Soil	0.45	33.28	22.26	90.5	180	29.9	13.3	577	2.99	7.0	2.0	1.4	2.8	93.6	0.08	0.39	0.28	18	1.56	0.054
121779	Soil	0.44	24.33	22.96	73.4	83	26.0	13.9	393	2.89	6.0	1.3	1.0	3.5	42.2	0.11	0.29	0.27	18	0.65	0.043
121780	Soil	0.61	30.34	24.29	62.5	185	24.6	9.9	397	3.06	9.9	3.2	2.1	1.8	91.9	0.17	0.31	0.25	21	1.56	0.066
121781	Soil	0.72	29.75	30.31	82.3	100	31.9	12.5	455	3.42	11.9	1.3	1.8	3.2	52.9	0.10	0.38	0.30	21	0.87	0.056
121782	Soil	0.76	29.95	30.45	81.7	103	31.7	17.4	690	3.74	9.0	1.1	1.5	3.7	46.0	0.16	0.41	0.33	27	0.49	0.054
121783	Soil	0.82	24.52	25.57	58.3	328	17.5	8.6	238	3.78	9.6	0.5	0.8	1.8	9.8	0.12	0.50	0.31	27	0.08	0.039
121784	Soil	0.49	40.33	21.69	95.5	221	33.6	14.9	563	3.01	7.6	0.9	2.6	3.6	72.7	0.15	0.41	0.25	17	1.40	0.069
121785	Soil	0.53	26.64	22.83	69.7	190	24.2	12.7	495	2.80	7.0	2.0	1.1	2.0	97.2	0.10	0.32	0.27	17	1.88	0.053
1097066	Soil	1.07	33.66	30.13	120.0	327	32.6	13.8	524	5.17	17.6	0.9	1.4	2.4	13.6	0.10	0.67	0.33	32	0.06	0.048
1097067	Soil	0.96	23.18	24.08	72.4	96	19.4	12.8	707	5.02	10.1	0.4	0.5	2.5	6.4	0.06	0.54	0.30	36	0.03	0.039



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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
612392	Soil	10.2	31.3	0.61	87.7	0.004	3	1.44	0.004	0.10	<0.1	4.9	0.10	0.07	172	1.1	0.07	4.2	6.61	<0.1	0.13
612393	Soil	15.2	23.2	0.30	70.4	0.001	3	1.15	0.003	0.08	<0.1	7.8	0.12	0.03	546	1.1	0.04	2.6	2.84	<0.1	0.07
612394	Soil	11.6	22.1	0.88	81.7	0.007	3	1.03	0.006	0.08	<0.1	5.5	0.12	<0.02	513	1.0	0.05	2.9	2.54	<0.1	0.06
612395	Soil	10.5	22.7	0.64	83.7	0.008	3	1.19	0.007	0.09	<0.1	4.6	0.08	0.03	99	1.0	0.06	3.4	1.95	<0.1	0.10
612396	Soil	18.2	21.7	0.53	70.4	0.006	3	1.10	0.006	0.08	<0.1	5.7	0.09	0.04	444	1.0	0.03	3.2	1.60	<0.1	0.06
612397	Soil	18.5	22.7	0.49	128.0	0.003	3	1.22	0.003	0.09	<0.1	4.9	0.10	0.05	460	1.3	0.08	3.4	1.38	<0.1	0.05
612398	Soil	7.8	18.6	0.31	74.7	0.002	2	1.14	0.003	0.09	<0.1	2.6	0.10	<0.02	114	0.6	0.04	3.9	1.21	<0.1	0.04
612399	Soil	10.2	24.7	0.47	80.6	0.005	2	1.47	0.003	0.09	<0.1	4.9	0.09	0.03	157	0.8	0.06	3.7	3.02	<0.1	0.05
612400	Soil	6.7	22.0	0.33	78.1	0.005	<1	1.40	0.002	0.09	<0.1	2.4	0.08	0.02	58	0.5	0.05	5.9	1.83	<0.1	0.03
121767	Soil	6.7	25.2	0.34	93.1	0.004	2	1.51	0.003	0.10	<0.1	2.9	0.12	0.02	57	0.5	0.05	5.5	2.11	<0.1	0.05
121768	Soil	5.4	26.2	0.49	64.4	0.004	1	1.75	0.002	0.10	<0.1	2.7	0.07	<0.02	34	0.5	0.04	5.6	2.91	<0.1	0.04
121769	Soil	5.4	30.6	0.56	125.0	0.002	1	2.07	0.002	0.12	<0.1	4.7	0.09	<0.02	29	0.6	0.05	5.8	3.74	<0.1	0.07
121770	Soil	4.2	19.1	0.27	50.8	0.002	2	1.19	0.002	0.07	<0.1	3.4	0.08	<0.02	33	0.2	0.03	3.4	2.51	<0.1	0.05
121771	Soil	2.0	8.2	0.16	36.2	0.002	5	0.46	0.004	0.05	<0.1	1.7	0.04	0.04	30	<0.1	<0.02	1.2	1.28	<0.1	0.03
121772	Soil	6.0	23.1	0.41	64.0	0.002	5	1.28	0.003	0.10	<0.1	5.5	0.09	0.05	80	0.4	0.04	3.4	1.81	<0.1	0.10
121773	Soil	3.6	20.7	0.25	58.9	0.003	3	1.33	0.001	0.08	<0.1	2.3	0.06	<0.02	16	0.2	0.03	5.2	3.76	<0.1	0.02
121774	Soil	3.9	22.0	0.29	46.2	0.003	2	1.47	0.002	0.06	<0.1	2.7	0.07	0.03	41	0.4	0.11	4.9	2.56	<0.1	0.03
121775	Soil	3.9	25.6	0.37	56.0	0.002	2	1.64	0.002	0.08	<0.1	2.8	0.07	0.03	33	<0.1	0.05	5.2	3.03	<0.1	0.04
121776	Soil	7.9	27.7	0.39	114.9	0.002	4	1.73	0.002	0.10	<0.1	6.2	0.09	0.04	89	0.5	0.03	4.5	3.84	<0.1	0.07
121777	Soil	5.9	28.0	0.40	101.6	0.002	3	1.66	0.003	0.10	<0.1	6.0	0.10	0.05	62	0.4	0.02	4.5	3.63	<0.1	0.08
121778	Soil	6.2	22.3	0.42	101.4	0.002	3	1.45	0.004	0.11	<0.1	5.0	0.09	0.06	89	0.6	0.06	3.9	1.88	<0.1	0.13
121779	Soil	5.6	23.6	0.42	75.0	0.001	3	1.52	0.003	0.10	<0.1	4.9	0.07	0.05	68	0.7	<0.02	3.9	1.36	<0.1	0.08
121780	Soil	12.3	23.9	0.33	104.8	0.004	1	1.27	0.004	0.07	<0.1	4.8	0.08	0.06	169	0.8	0.06	3.8	1.96	<0.1	0.04
121781	Soil	9.8	26.5	0.44	81.6	0.003	2	1.42	0.003	0.07	<0.1	6.0	0.07	0.04	191	0.6	0.02	4.3	2.00	<0.1	0.08
121782	Soil	6.2	29.3	0.41	106.5	0.003	2	1.85	0.003	0.11	<0.1	6.0	0.12	0.04	51	0.6	0.05	5.2	4.26	<0.1	0.06
121783	Soil	3.8	22.4	0.24	50.2	0.002	<1	1.21	0.002	0.08	<0.1	2.2	0.09	0.03	44	0.3	0.07	4.7	2.22	<0.1	<0.02
121784	Soil	7.4	20.5	0.40	90.1	0.003	5	1.22	0.004	0.10	<0.1	5.0	0.10	0.05	66	0.6	0.07	3.2	2.29	<0.1	0.14
121785	Soil	7.6	19.7	0.33	108.8	0.002	4	1.19	0.005	0.07	<0.1	4.5	0.09	0.07	69	1.0	0.05	3.3	1.71	<0.1	0.08
1097066	Soil	4.4	27.0	0.36	70.7	0.002	1	2.02	<0.001	0.05	<0.1	2.5	0.15	0.02	93	0.5	0.06	4.6	2.63	<0.1	0.04
1097067	Soil	5.5	26.7	0.31	43.6	0.006	2	1.77	<0.001	0.06	<0.1	2.3	0.09	<0.02	27	0.3	0.04	5.8	3.22	<0.1	0.03



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Project: Scarlet
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Page: 2 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
612392	Soil	0.27	10.4	4.6	<0.05	3.7	12.00	19.4	<0.02	<1	1.3	29.0	<10	<2
612393	Soil	0.08	7.2	3.4	<0.05	2.0	22.93	47.9	0.04	<1	1.5	21.9	<10	<2
612394	Soil	0.17	6.5	2.8	<0.05	1.5	12.92	26.4	<0.02	<1	0.7	20.1	<10	<2
612395	Soil	0.29	6.3	3.4	<0.05	3.5	12.14	24.1	<0.02	<1	0.7	29.3	<10	<2
612396	Soil	0.25	5.8	1.5	<0.05	2.6	16.89	36.2	0.03	<1	1.0	23.1	<10	<2
612397	Soil	0.24	8.2	1.5	<0.05	1.9	18.04	40.7	0.04	<1	1.2	21.9	<10	<2
612398	Soil	0.20	12.1	0.8	<0.05	2.4	4.22	18.9	0.03	<1	1.1	22.3	<10	<2
612399	Soil	0.28	9.4	2.9	<0.05	2.1	11.45	46.6	0.02	<1	1.2	29.3	<10	<2
612400	Soil	0.55	11.0	1.3	<0.05	1.0	3.94	17.6	0.03	<1	0.7	28.1	<10	<2
121767	Soil	0.34	14.2	2.6	<0.05	1.8	5.22	14.7	0.04	<1	0.8	28.2	<10	<2
121768	Soil	0.28	10.8	2.0	<0.05	1.8	2.99	11.8	0.03	<1	0.9	45.1	<10	<2
121769	Soil	0.23	11.4	1.6	<0.05	3.0	7.25	20.4	0.04	<1	2.0	48.9	<10	<2
121770	Soil	0.17	8.4	1.3	<0.05	1.6	5.16	14.1	0.03	<1	0.5	32.4	<10	2
121771	Soil	0.09	4.0	0.4	<0.05	1.8	4.37	4.5	<0.02	<1	0.2	13.0	<10	<2
121772	Soil	0.17	7.1	2.4	<0.05	4.9	11.55	16.6	0.04	<1	0.8	39.8	<10	<2
121773	Soil	0.27	13.5	3.4	<0.05	1.1	2.41	8.2	0.03	<1	0.5	23.5	<10	<2
121774	Soil	0.34	9.3	3.1	<0.05	1.5	2.86	9.8	0.04	<1	0.6	32.3	<10	3
121775	Soil	0.26	10.2	1.4	<0.05	1.2	3.11	8.9	0.04	<1	0.9	41.9	<10	<2
121776	Soil	0.31	10.2	2.5	<0.05	3.0	15.48	20.4	0.04	<1	1.4	49.5	<10	3
121777	Soil	0.28	10.0	2.5	<0.05	3.6	11.31	15.2	<0.02	2	1.4	49.1	<10	<2
121778	Soil	0.24	8.2	0.9	<0.05	4.2	12.23	17.0	0.03	<1	1.2	40.3	<10	2
121779	Soil	0.23	7.6	0.8	<0.05	4.2	9.41	15.5	0.02	<1	0.8	40.8	<10	<2
121780	Soil	0.46	9.2	1.9	<0.05	1.7	16.59	25.2	0.05	<1	0.9	26.7	<10	<2
121781	Soil	0.30	7.3	3.8	<0.05	2.2	13.92	25.5	0.03	<1	1.2	39.7	<10	<2
121782	Soil	0.40	13.3	1.5	<0.05	2.2	11.89	18.4	0.04	<1	1.3	54.6	<10	<2
121783	Soil	0.29	9.8	2.6	<0.05	1.1	2.91	8.5	<0.02	<1	0.6	22.7	<10	3
121784	Soil	0.28	7.3	0.4	<0.05	4.3	13.16	19.3	0.02	<1	1.4	35.1	<10	<2
121785	Soil	0.24	7.8	0.5	<0.05	2.3	13.31	21.8	0.03	<1	0.4	30.4	<10	<2
1097066	Soil	0.31	11.2	1.7	<0.05	2.2	3.58	13.2	0.04	<1	0.6	41.1	<10	<2
1097067	Soil	0.54	13.3	2.1	<0.05	2.1	2.40	11.5	0.03	<1	0.3	40.4	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 26, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1097068	Soil			0.68	31.49	29.81	80.8	40	30.6	16.0	612	3.88	13.0	0.6	0.7	2.9	20.6	0.07	0.56	0.32	27	0.16	0.030
1097069	Soil			0.60	38.45	33.23	95.6	208	34.6	15.6	503	3.84	13.8	1.0	1.4	3.9	51.5	0.06	0.48	0.36	26	0.60	0.050
1097070	Soil			0.54	37.44	35.68	90.9	267	31.9	17.7	648	3.67	9.3	1.1	1.9	3.4	77.3	0.08	0.46	0.34	24	1.13	0.055
1097071	Soil			0.54	36.58	34.71	90.0	188	37.1	21.6	635	3.63	8.5	1.0	1.6	4.6	80.9	0.09	0.37	0.33	22	1.21	0.039
1097072	Soil			0.42	30.94	22.28	73.4	179	28.9	13.8	395	3.10	6.9	1.5	1.4	2.9	97.6	0.08	0.31	0.28	20	1.54	0.048
1097073	Soil			0.35	32.85	20.59	80.0	160	28.6	12.5	418	2.99	7.3	1.4	1.5	2.6	97.2	0.09	0.34	0.28	19	1.56	0.055
1097074	Soil			0.82	31.73	21.16	85.4	47	23.2	10.6	302	3.23	14.8	0.5	1.0	1.1	11.0	0.22	0.79	0.38	27	0.06	0.049
1097075	Soil			0.98	26.63	14.95	82.6	53	18.0	7.4	305	2.60	9.2	0.4	0.5	0.3	9.8	0.11	0.61	0.29	29	0.05	0.072
1097076	Soil			0.76	29.74	21.58	97.2	48	24.4	10.6	692	3.37	16.7	1.5	0.9	1.5	32.5	0.19	0.67	0.30	24	0.43	0.080
1097077	Soil			0.92	31.14	23.37	75.6	163	25.3	13.4	626	3.24	25.7	2.0	2.2	2.1	87.8	0.35	0.57	0.27	18	1.58	0.072
1097078	Soil			0.73	31.91	19.89	78.3	170	27.9	9.7	236	2.82	13.0	2.4	2.6	3.4	46.7	0.19	0.43	0.23	26	0.73	0.059
1097079	Soil			0.77	27.25	16.69	74.3	249	23.2	7.5	215	2.44	14.5	4.0	4.3	1.4	94.4	0.26	0.53	0.20	23	1.54	0.065
1097080	Soil			1.02	32.04	18.89	71.2	404	25.4	8.4	193	2.69	16.2	4.3	7.9	2.3	73.5	0.28	0.72	0.22	22	1.09	0.074
1097081	Soil			0.90	30.89	20.32	60.3	165	26.0	11.7	316	2.54	18.0	1.8	3.1	3.5	388.8	0.23	0.93	0.24	15	6.81	0.087
1097082	Soil			0.99	23.07	22.57	67.5	90	24.0	10.6	447	3.39	12.9	2.4	2.0	3.4	34.6	0.18	0.52	0.31	26	0.38	0.049
1097083	Soil			0.65	27.04	23.85	80.7	194	22.6	12.8	1058	2.74	12.0	3.4	1.6	2.4	97.4	0.20	0.43	0.28	17	1.48	0.059
1097084	Soil			0.59	24.71	15.34	55.0	107	10.8	7.4	285	2.50	4.7	4.2	<0.2	1.3	22.1	0.10	0.29	0.32	26	0.16	0.074
1096322	Soil			0.91	22.19	15.53	114.0	80	20.1	8.8	466	2.44	10.7	1.4	1.3	1.4	58.4	0.51	0.46	0.22	27	1.04	0.106
1096323	Soil			0.76	21.29	18.76	88.4	107	21.4	9.5	416	2.96	11.6	2.6	6.3	2.2	48.7	0.46	0.46	0.29	26	0.73	0.100
1096324	Soil			0.54	13.33	13.99	74.4	156	14.4	5.3	278	1.97	8.9	4.6	2.4	1.3	62.9	0.31	0.34	0.20	22	0.86	0.084
1096325	Soil			0.66	23.53	17.02	65.2	234	20.0	7.6	374	2.56	11.4	5.1	2.9	1.1	107.2	0.30	0.52	0.30	24	1.59	0.121
1096326	Soil			1.43	32.80	25.58	66.3	154	26.0	13.6	494	2.69	21.4	1.6	4.3	5.1	98.8	0.18	1.54	0.32	18	2.97	0.103
1096327	Soil			0.59	18.39	19.36	51.5	192	15.7	6.5	322	2.53	9.9	2.8	1.2	1.7	126.8	0.11	0.52	0.30	20	1.66	0.134
1096328	Soil			0.71	15.19	20.70	70.0	37	17.5	9.2	477	3.18	9.8	1.3	0.7	2.9	36.0	0.19	0.31	0.33	34	0.33	0.043
1096329	Soil			0.67	22.12	19.37	55.0	134	19.8	8.6	513	2.67	9.8	3.1	2.7	1.4	110.0	0.14	0.42	0.29	24	1.45	0.127
1096330	Soil			0.89	20.71	33.35	84.4	88	27.5	14.0	692	4.23	13.8	1.2	1.3	5.2	10.3	0.16	0.46	0.35	36	0.07	0.048
1096331	Soil			2.17	33.69	53.90	109.9	139	24.4	15.0	688	6.01	26.6	0.7	0.8	2.1	18.2	0.06	1.12	0.42	42	0.03	0.085
1096332	Soil			0.96	19.11	19.01	57.4	71	11.1	5.9	338	3.69	8.7	0.5	0.6	1.7	8.1	0.03	0.48	0.33	43	0.03	0.055
1096333	Soil			0.75	24.66	32.31	87.7	68	28.2	15.0	660	3.65	11.2	0.8	0.6	3.6	19.4	0.08	0.54	0.34	34	0.11	0.035
1096334	Soil			1.15	29.53	63.36	101.9	161	36.3	21.3	1198	4.90	26.3	1.3	1.3	3.4	61.4	0.16	0.49	0.36	23	0.62	0.063



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097068	Soil	6.1	25.5	0.42	68.2	0.003	1	1.88	0.001	0.07	<0.1	3.4	0.08	<0.02	33	0.4	0.09	4.7	3.70	<0.1	0.02
1097069	Soil	9.4	28.1	0.45	101.9	0.003	2	1.83	0.002	0.08	<0.1	8.1	0.08	0.02	74	0.8	0.08	5.4	4.06	<0.1	0.10
1097070	Soil	7.6	29.0	0.41	123.0	0.002	2	1.82	0.003	0.09	<0.1	7.4	0.12	0.04	87	0.9	0.07	5.4	5.33	<0.1	0.09
1097071	Soil	8.2	29.0	0.43	119.8	0.002	2	1.77	0.002	0.09	<0.1	7.0	0.11	0.04	89	0.7	0.06	5.0	3.48	<0.1	0.12
1097072	Soil	6.5	24.6	0.43	112.7	0.002	3	1.60	0.003	0.10	<0.1	5.7	0.08	0.05	73	0.8	0.05	4.4	2.01	<0.1	0.07
1097073	Soil	6.6	24.4	0.43	107.7	0.002	4	1.61	0.004	0.10	<0.1	5.2	0.09	0.06	86	0.6	0.11	4.4	2.18	<0.1	0.10
1097074	Soil	5.0	21.8	0.26	36.6	0.003	<1	1.07	0.001	0.06	<0.1	1.7	0.07	0.02	67	0.3	0.03	4.8	5.04	<0.1	<0.02
1097075	Soil	4.0	19.0	0.12	68.6	0.004	1	0.90	0.004	0.06	<0.1	1.1	0.09	0.04	75	0.5	0.06	5.4	2.64	<0.1	<0.02
1097076	Soil	8.1	24.5	0.38	71.3	0.003	<1	1.34	0.001	0.06	<0.1	2.9	0.08	0.03	184	0.6	0.05	4.0	2.53	<0.1	0.04
1097077	Soil	16.3	17.1	0.32	61.2	0.001	2	0.86	0.002	0.05	<0.1	5.2	0.09	0.05	484	0.7	0.05	2.3	1.23	<0.1	0.04
1097078	Soil	23.6	32.1	0.81	102.2	0.004	2	1.39	0.002	0.06	<0.1	6.2	0.10	0.04	359	1.3	0.06	3.9	1.81	<0.1	0.08
1097079	Soil	17.7	23.5	0.67	111.1	0.004	3	1.14	0.003	0.07	<0.1	3.5	0.10	0.06	543	1.2	0.05	3.1	1.00	<0.1	0.06
1097080	Soil	18.2	19.5	0.44	109.5	0.003	2	1.16	0.003	0.07	<0.1	3.9	0.11	0.06	302	0.7	0.04	2.9	0.68	<0.1	0.11
1097081	Soil	16.0	16.1	0.60	63.7	0.002	2	0.88	0.003	0.06	<0.1	4.1	0.07	0.03	611	0.7	0.03	2.2	0.97	<0.1	0.10
1097082	Soil	15.1	20.4	0.32	88.6	0.002	2	1.65	0.003	0.07	<0.1	4.5	0.12	0.03	158	0.6	0.08	3.9	1.77	<0.1	0.07
1097083	Soil	14.8	16.3	0.33	169.0	0.002	1	1.04	0.003	0.06	<0.1	4.5	0.08	0.04	187	0.6	<0.02	2.8	1.00	<0.1	0.08
1097084	Soil	5.8	18.1	0.17	83.6	0.003	1	1.35	0.001	0.08	<0.1	2.1	0.09	0.03	72	0.4	0.06	6.4	2.96	<0.1	0.04
1096322	Soil	10.2	28.8	0.42	114.2	0.006	2	1.02	0.003	0.06	<0.1	2.9	0.08	0.08	142	0.7	0.04	3.4	2.19	0.1	0.07
1096323	Soil	16.8	24.5	0.50	104.4	0.004	3	1.28	0.002	0.06	<0.1	3.8	0.11	0.06	235	0.4	0.04	3.6	1.72	<0.1	0.06
1096324	Soil	15.9	21.2	0.42	91.2	0.005	3	1.09	0.002	0.06	<0.1	2.7	0.10	0.05	389	0.4	<0.02	2.9	1.50	<0.1	0.04
1096325	Soil	14.6	21.4	0.44	138.8	0.004	4	1.24	0.004	0.07	<0.1	2.5	0.09	0.10	1013	0.7	0.04	3.4	1.32	<0.1	0.08
1096326	Soil	15.5	16.8	1.56	75.0	0.003	3	0.87	0.004	0.09	<0.1	4.1	0.10	<0.02	1109	0.8	0.08	2.6	1.11	<0.1	0.08
1096327	Soil	15.2	16.5	0.29	135.8	0.002	2	1.32	0.003	0.06	<0.1	3.3	0.10	0.10	167	0.2	0.03	3.5	0.87	<0.1	0.08
1096328	Soil	8.5	23.5	0.37	120.4	0.004	2	1.83	<0.001	0.08	<0.1	2.8	0.13	<0.02	49	0.1	0.07	5.2	1.79	<0.1	0.04
1096329	Soil	13.1	19.9	0.32	160.3	0.004	3	1.45	0.003	0.07	<0.1	3.4	0.10	0.10	191	0.4	0.05	3.9	1.48	<0.1	0.05
1096330	Soil	8.7	30.9	0.46	86.5	0.006	3	2.37	<0.001	0.09	<0.1	3.1	0.14	<0.02	86	0.2	0.07	5.4	4.41	<0.1	0.06
1096331	Soil	3.8	27.5	0.25	51.5	0.003	2	1.74	0.002	0.09	<0.1	2.5	0.17	0.04	64	0.4	0.09	6.8	4.04	<0.1	0.04
1096332	Soil	6.5	21.7	0.18	52.6	0.003	2	1.64	<0.001	0.08	<0.1	1.8	0.13	<0.02	42	0.2	0.07	7.2	3.34	<0.1	0.04
1096333	Soil	10.2	30.2	0.61	85.5	0.010	3	1.92	0.002	0.09	<0.1	2.9	0.11	<0.02	48	0.1	0.05	5.1	5.92	<0.1	0.03
1096334	Soil	7.5	26.4	0.38	72.2	0.002	3	1.70	0.004	0.10	<0.1	6.3	0.15	0.05	77	0.4	0.09	4.3	6.38	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 3 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1097068	Soil	0.24	9.0	1.4	<0.05	1.4	6.35	14.7	0.02	2	1.1	55.8	<10	<2
1097069	Soil	0.28	9.5	1.6	<0.05	3.4	20.47	19.5	0.04	<1	1.4	57.8	<10	<2
1097070	Soil	0.36	11.6	1.1	<0.05	3.3	18.14	19.7	0.04	2	1.5	58.7	<10	4
1097071	Soil	0.36	9.2	2.5	<0.05	4.5	17.14	23.8	0.03	<1	1.9	50.5	<10	<2
1097072	Soil	0.31	7.7	0.9	<0.05	3.2	12.99	18.1	0.03	<1	0.9	44.3	<10	<2
1097073	Soil	0.28	8.8	1.1	<0.05	3.5	13.04	15.6	0.02	<1	1.2	40.6	<10	<2
1097074	Soil	0.31	10.4	1.3	<0.05	0.4	2.98	11.0	0.04	<1	0.6	17.9	<10	<2
1097075	Soil	0.18	9.8	1.9	<0.05	0.3	2.20	8.3	<0.02	<1	0.4	7.7	<10	<2
1097076	Soil	0.21	10.8	1.6	<0.05	1.2	7.03	19.5	0.03	<1	0.7	29.2	<10	2
1097077	Soil	0.14	6.5	1.1	<0.05	1.7	17.66	38.5	0.02	<1	1.4	15.6	<10	<2
1097078	Soil	0.32	8.2	3.1	<0.05	2.4	20.16	45.1	0.02	<1	0.6	29.5	<10	<2
1097079	Soil	0.30	6.9	1.0	<0.05	2.0	13.77	33.5	0.04	<1	0.8	25.2	<10	<2
1097080	Soil	0.22	6.1	0.5	<0.05	3.5	13.82	34.0	0.04	<1	1.2	21.1	<10	<2
1097081	Soil	0.17	4.6	1.7	<0.05	3.9	15.04	32.9	0.03	<1	0.7	17.0	<10	3
1097082	Soil	0.22	10.8	1.8	<0.05	1.9	13.96	41.4	0.06	<1	1.3	26.1	<10	<2
1097083	Soil	0.18	8.1	1.2	<0.05	1.9	15.67	42.6	0.05	2	0.7	21.2	<10	<2
1097084	Soil	0.26	14.7	1.6	<0.05	1.0	6.31	11.8	<0.02	<1	1.0	13.5	<10	<2
1096322	Soil	0.35	11.2	1.0	<0.05	1.9	6.65	25.2	0.03	<1	0.7	16.7	<10	<2
1096323	Soil	0.33	10.0	1.1	<0.05	2.0	13.16	41.5	0.05	1	0.9	25.8	<10	<2
1096324	Soil	0.31	10.5	1.8	<0.05	1.1	10.46	32.8	0.03	<1	0.9	19.9	<10	<2
1096325	Soil	0.37	9.0	1.7	<0.05	1.6	12.49	30.3	0.03	<1	1.0	22.8	<10	<2
1096326	Soil	0.16	5.5	1.6	<0.05	4.7	12.22	34.5	0.03	1	0.9	21.7	<10	<2
1096327	Soil	0.30	9.2	1.1	<0.05	2.6	14.64	27.4	0.05	<1	1.0	20.2	<10	<2
1096328	Soil	0.41	15.3	1.7	<0.05	1.1	5.47	27.8	0.04	<1	0.8	32.2	<10	<2
1096329	Soil	0.39	9.4	2.1	<0.05	2.0	15.21	27.2	0.03	<1	1.1	21.1	<10	<2
1096330	Soil	0.53	14.7	2.4	<0.05	2.6	5.53	33.4	0.05	<1	1.2	58.8	<10	<2
1096331	Soil	0.36	13.8	5.3	<0.05	1.6	3.58	8.6	0.04	<1	0.6	27.7	<10	<2
1096332	Soil	0.51	16.0	2.5	<0.05	1.0	2.52	14.2	0.03	<1	0.5	22.3	<10	<2
1096333	Soil	0.53	12.6	2.1	<0.05	1.2	5.10	24.7	0.04	<1	1.1	76.5	<10	<2
1096334	Soil	0.27	11.1	10.6	<0.05	1.6	15.06	31.5	0.06	<1	1.3	53.8	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1096335	Soil			0.70	30.42	37.54	90.1	231	32.6	15.3	655	3.70	10.4	1.6	0.9	3.5	66.0	0.14	0.33	0.33	24	0.87	0.072
1096336	Soil			0.61	23.94	32.41	73.9	196	26.0	15.9	713	3.24	7.8	1.5	1.0	2.8	124.6	0.12	0.26	0.32	24	1.46	0.080
1096337	Soil			0.44	31.15	23.77	90.8	63	29.6	13.4	580	3.29	10.2	0.7	0.8	3.9	59.0	0.07	0.45	0.30	19	0.65	0.058
1096338	Soil			0.39	25.02	22.15	107.5	102	26.9	11.8	445	3.20	8.7	0.9	1.1	3.8	115.8	0.07	0.32	0.30	20	0.63	0.052
1096339	Soil			0.75	19.61	19.03	141.8	53	18.6	9.1	479	3.21	10.4	0.8	0.6	1.6	55.3	0.43	0.38	0.34	30	0.76	0.060
1096340	Soil			0.94	22.00	31.86	82.4	177	20.4	10.8	831	5.37	16.7	0.8	0.7	2.1	9.8	0.10	0.54	0.36	35	0.04	0.110
1096341	Soil			0.82	27.62	23.92	81.2	104	23.9	11.3	508	3.93	11.1	0.7	1.5	2.7	11.3	0.09	0.46	0.30	39	0.04	0.047
1096342	Soil			0.65	21.80	28.94	81.1	122	12.2	11.0	1185	5.05	5.4	0.4	0.4	2.4	9.4	0.05	0.29	0.41	36	0.02	0.067
1096343	Soil			0.73	25.47	36.06	92.4	155	33.1	15.7	1069	4.17	13.9	1.1	0.7	4.9	65.8	0.27	0.45	0.36	30	0.81	0.041
1096344	Soil			0.62	31.62	35.22	94.4	147	30.9	19.0	515	3.96	9.3	1.1	1.1	4.6	73.4	0.07	0.33	0.37	29	0.79	0.054
1096345	Soil			1.03	21.56	32.03	72.4	91	24.2	13.0	395	3.47	6.6	0.6	0.6	2.8	23.1	0.06	0.29	0.30	26	0.40	0.070
1096346	Soil			0.43	27.81	25.28	81.2	55	28.0	13.4	511	3.46	10.0	0.7	1.1	4.3	33.0	0.06	0.32	0.31	20	0.34	0.038
1096347	Soil			0.23	28.07	24.90	93.5	174	25.1	11.3	429	2.39	4.5	1.8	1.1	2.0	168.8	0.10	0.21	0.35	17	2.43	0.067
1096348	Soil			0.66	32.82	27.45	72.3	117	28.8	12.9	533	3.16	12.9	1.4	2.1	4.0	99.7	0.20	0.42	0.29	22	1.65	0.040
1096349	Soil			0.58	28.48	23.21	72.9	154	25.5	12.3	476	3.02	10.3	1.2	1.8	3.3	135.9	0.11	0.42	0.27	18	2.23	0.050
1096350	Soil			0.63	30.97	28.11	75.7	129	26.0	12.4	570	3.16	10.4	1.8	1.5	3.3	132.8	0.19	0.43	0.30	19	2.14	0.052
1097351	Soil			1.39	37.79	24.49	93.7	150	32.5	13.0	313	3.02	29.4	2.0	3.8	4.8	86.4	0.24	3.59	0.29	19	2.55	0.086
1097352	Soil			0.86	31.79	24.69	89.9	103	28.6	12.5	385	2.67	17.3	1.3	2.7	4.3	90.4	0.22	2.63	0.25	16	1.57	0.067
1097353	Soil			0.78	38.60	32.57	86.3	90	33.9	15.5	779	3.51	17.2	1.3	1.8	4.1	81.6	0.13	1.20	0.38	18	1.24	0.056
1097354	Soil			0.70	26.48	24.89	89.5	82	30.4	11.3	303	2.60	14.2	1.8	3.1	6.3	60.6	0.10	0.99	0.24	21	0.49	0.075
1097355	Soil			0.59	23.09	17.45	77.6	108	24.1	9.0	275	2.67	12.5	2.1	1.9	2.8	62.1	0.08	0.58	0.27	24	0.89	0.081
1097356	Soil			0.63	26.85	17.93	81.6	155	25.7	10.4	287	2.90	13.5	1.2	2.4	3.9	81.6	0.13	0.47	0.25	22	1.21	0.062
1097357	Soil			0.51	32.54	22.77	78.8	166	27.3	11.6	445	3.13	9.6	2.3	1.3	2.0	124.9	0.07	0.45	0.28	21	1.32	0.056
1097358	Soil			0.49	38.63	32.48	70.9	121	28.3	19.3	742	3.16	6.7	2.0	1.5	2.6	99.6	0.19	0.26	0.34	22	1.12	0.071
1097359	Soil			0.66	38.11	25.43	85.4	151	30.9	13.5	457	3.02	7.7	2.5	2.4	3.0	87.4	0.17	0.34	0.32	23	1.31	0.057
1097360	Soil			0.44	28.56	28.71	72.8	138	30.2	16.4	715	3.36	8.4	1.6	2.3	4.2	60.1	0.13	0.27	0.31	24	1.00	0.048
1097361	Soil			0.56	29.34	20.91	63.8	127	26.5	11.2	374	2.90	8.9	1.4	1.4	1.7	91.9	0.15	0.41	0.25	20	1.69	0.055
1097362	Soil			0.58	32.93	25.24	76.2	200	25.9	12.0	557	3.11	10.3	1.8	1.2	2.6	152.2	0.13	0.46	0.29	20	1.96	0.059
1097363	Soil			0.69	34.82	27.64	83.2	71	30.5	16.5	550	3.86	13.2	1.3	1.2	5.8	26.4	0.10	0.55	0.31	22	0.29	0.024
1097364	Soil			0.52	30.11	21.02	83.1	206	26.5	12.6	420	2.92	8.0	1.7	1.5	2.3	88.0	0.15	0.38	0.25	19	1.64	0.067



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method Analyte	1F15 La		1F15 Cr		1F15 Mg		1F15 Ba		1F15 Ti		1F15 B		1F15 Al		1F15 Na		1F15 K		1F15 W		1F15 Sc		1F15 Tl		1F15 S		1F15 Hg		1F15 Se		1F15 Te		1F15 Ga		1F15 Cs		1F15 Ge		1F15 Hf	
	Unit	ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.001	0.01	0.1	0.01	0.02	0.02	0.02	0.02	5	0.1	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
1096335	Soil	10.1	29.5	0.42	113.9	0.002	3	1.80	0.003	0.10	<0.1	6.5	0.14	0.05	99	0.2	0.05	5.1	4.63	<0.1	0.07																			
1096336	Soil	6.7	28.2	0.40	147.7	0.002	4	1.88	0.004	0.13	<0.1	5.4	0.15	0.08	91	0.3	0.04	5.1	4.43	<0.1	0.09																			
1096337	Soil	6.3	23.8	0.49	83.4	0.002	5	1.57	0.003	0.16	<0.1	4.6	0.10	0.03	92	0.2	0.05	4.4	2.37	<0.1	0.09																			
1096338	Soil	7.2	23.8	0.58	88.6	0.002	5	1.69	0.002	0.15	<0.1	4.5	0.09	0.03	70	0.3	0.05	4.6	2.04	<0.1	0.09																			
1096339	Soil	6.2	23.6	0.38	87.8	0.005	3	1.51	0.002	0.11	<0.1	2.3	0.10	0.04	55	0.2	0.07	5.6	3.32	<0.1	0.04																			
1096340	Soil	4.2	29.9	0.32	53.8	0.003	2	2.09	<0.001	0.08	<0.1	2.2	0.11	0.05	105	0.4	0.08	5.9	4.26	<0.1	0.04																			
1096341	Soil	7.2	28.8	0.46	71.4	0.003	3	2.25	<0.001	0.10	<0.1	2.7	0.15	<0.02	42	0.2	0.05	6.1	7.11	<0.1	0.05																			
1096342	Soil	5.2	25.2	0.21	49.5	0.002	3	1.93	<0.001	0.10	<0.1	2.0	0.12	0.03	43	0.3	0.07	8.2	6.63	<0.1	0.04																			
1096343	Soil	11.5	27.6	0.40	117.8	0.004	3	1.90	0.004	0.09	<0.1	5.8	0.13	0.03	82	0.2	0.08	4.9	3.00	<0.1	0.07																			
1096344	Soil	7.6	33.6	0.43	120.8	0.002	3	2.12	0.002	0.11	<0.1	5.1	0.15	0.04	75	0.2	0.06	6.3	4.08	<0.1	0.07																			
1096345	Soil	4.8	33.9	0.47	82.1	0.002	3	1.73	0.002	0.10	<0.1	2.6	0.11	0.05	40	0.2	0.04	5.1	3.12	<0.1	0.05																			
1096346	Soil	6.2	24.3	0.61	66.3	0.001	4	1.70	0.002	0.14	<0.1	3.7	0.09	<0.02	59	0.2	0.04	4.4	1.84	<0.1	0.07																			
1096347	Soil	7.7	22.4	0.42	98.3	0.002	4	1.38	0.007	0.08	<0.1	4.7	0.10	0.09	178	0.4	0.04	4.0	2.29	<0.1	0.06																			
1096348	Soil	11.5	24.8	0.50	110.4	0.002	5	1.47	0.004	0.10	<0.1	5.1	0.11	0.04	327	0.4	0.04	4.2	1.98	<0.1	0.07																			
1096349	Soil	10.0	19.9	0.48	87.0	0.002	5	1.17	0.004	0.09	<0.1	5.2	0.08	0.05	278	0.4	0.04	3.3	1.52	<0.1	0.05																			
1096350	Soil	11.1	21.4	0.44	106.0	0.001	3	1.33	0.002	0.10	<0.1	5.6	0.11	0.05	301	0.3	0.04	3.7	1.57	<0.1	0.07																			
1097351	Soil	20.6	22.5	1.32	120.9	0.002	5	0.72	0.004	0.11	<0.1	6.2	0.17	0.03	742	1.4	0.05	2.2	2.41	<0.1	0.08																			
1097352	Soil	18.6	22.4	0.77	105.5	0.002	4	0.81	0.004	0.10	<0.1	5.3	0.10	0.03	733	0.9	0.03	2.4	1.46	<0.1	0.09																			
1097353	Soil	11.7	25.0	0.59	88.4	0.002	4	1.40	0.001	0.10	<0.1	8.0	0.12	0.04	317	0.3	0.05	3.8	3.31	<0.1	0.06																			
1097354	Soil	26.8	34.6	0.45	156.7	0.002	3	0.82	0.001	0.09	<0.1	5.0	0.11	0.03	373	0.8	<0.02	2.8	1.70	<0.1	0.06																			
1097355	Soil	15.7	31.8	0.46	200.0	0.002	3	1.30	0.002	0.10	<0.1	5.0	0.13	0.06	202	0.7	0.04	3.8	2.64	<0.1	0.07																			
1097356	Soil	12.5	20.9	0.60	70.6	0.006	3	1.16	0.004	0.09	<0.1	4.6	0.08	<0.02	270	0.3	0.05	3.4	2.28	<0.1	0.05																			
1097357	Soil	8.0	24.1	0.59	95.4	0.003	5	1.56	0.004	0.12	<0.1	4.8	0.10	0.05	119	0.4	0.04	4.3	2.53	<0.1	0.05																			
1097358	Soil	8.0	30.0	0.40	111.7	0.002	3	1.76	0.004	0.09	<0.1	4.2	0.12	0.08	141	0.3	0.03	5.5	3.11	<0.1	0.06																			
1097359	Soil	9.1	30.4	0.45	101.3	0.002	4	1.54	0.005	0.10	<0.1	4.8	0.10	0.04	198	0.8	0.05	5.1	2.81	<0.1	0.07																			
1097360	Soil	11.8	28.8	0.46	102.7	0.002	4	1.65	0.005	0.08	<0.1	6.5	0.10	0.05	179	0.8	0.07	5.0	2.61	<0.1	0.09																			
1097361	Soil	8.8	22.2	0.37	74.2	0.003	4	1.33	0.005	0.08	<0.1	4.8	0.09	0.07	159	0.7	0.04	3.7	2.24	<0.1	0.14																			
1097362	Soil	9.8	22.5	0.37	104.0	0.003	6	1.26	0.007	0.08	<0.1	5.8	0.09	0.07	183	1.0	0.03	3.4	2.32	<0.1	0.06																			
1097363	Soil	9.4	23.2	0.44	64.1	0.002	4	1.47	0.003	0.08	<0.1	5.3	0.07	<0.02	171	0.5	0.05	3.9	1.93	<0.1	0.07																			
1097364	Soil	9.4	20.0	0.38	150.7	0.003	4	1.20	0.004	0.09	<0.1	5.3	0.08	0.06	99	0.9	0.04	3.4	1.94	<0.1	0.06																			



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 4 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
		ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02		0.1	0.1	0.05	0.1	0.01	0.1	0.1	0.02	1	0.1	0.1	10	2
1096335	Soil	0.35		12.0	6.8	<0.05	2.6	21.77	30.1	0.05	<1	1.5	56.5	<10	<2	
1096336	Soil	0.44		14.0	3.1	<0.05	3.1	14.01	25.2	0.05	<1	1.5	59.4	<10	<2	
1096337	Soil	0.17		10.5	2.3	<0.05	4.1	10.02	16.7	0.03	<1	1.0	46.9	<10	<2	
1096338	Soil	0.18		10.6	1.1	<0.05	4.2	11.04	17.9	0.04	<1	0.9	50.4	<10	<2	
1096339	Soil	0.48		17.9	1.9	<0.05	1.3	4.12	18.3	0.04	<1	0.7	34.5	<10	<2	
1096340	Soil	0.51		12.7	3.0	<0.05	1.4	3.13	11.9	0.05	<1	0.9	44.3	<10	<2	
1096341	Soil	0.45		16.8	1.4	<0.05	1.7	3.53	16.6	0.04	<1	1.0	54.1	<10	<2	
1096342	Soil	0.33		15.5	3.2	<0.05	1.7	2.06	11.6	0.03	<1	0.8	28.4	<10	<2	
1096343	Soil	0.53		12.6	1.2	<0.05	2.9	15.99	41.6	0.05	<1	1.2	45.2	<10	<2	
1096344	Soil	0.46		14.5	2.0	<0.05	3.4	14.10	24.4	0.05	<1	1.6	64.6	<10	<2	
1096345	Soil	0.42		13.8	4.8	<0.05	2.5	4.00	14.0	0.04	<1	0.8	43.5	<10	<2	
1096346	Soil	0.11		10.5	2.1	<0.05	3.6	7.77	16.8	0.03	<1	0.9	49.6	<10	<2	
1096347	Soil	0.35		9.3	1.0	<0.05	2.7	13.40	22.8	0.03	<1	1.0	43.8	<10	<2	
1096348	Soil	0.24		9.1	3.3	<0.05	3.2	13.14	28.7	0.04	<1	1.1	40.5	<10	<2	
1096349	Soil	0.22		7.2	1.7	<0.05	2.5	13.98	26.3	0.04	<1	0.9	33.0	<10	<2	
1096350	Soil	0.20		8.8	2.7	<0.05	2.9	16.82	26.6	0.04	<1	1.1	35.2	<10	<2	
1097351	Soil	0.12		7.6	1.8	<0.05	2.5	14.36	45.9	0.04	<1	0.8	15.0	<10	<2	
1097352	Soil	0.12		6.0	3.1	<0.05	2.4	14.36	42.7	0.04	<1	0.8	20.5	<10	<2	
1097353	Soil	0.14		8.0	4.1	<0.05	2.1	20.37	30.0	0.05	<1	1.1	37.5	<10	<2	
1097354	Soil	0.11		6.4	4.9	<0.05	2.6	13.57	58.4	0.04	<1	0.7	18.4	<10	<2	
1097355	Soil	0.23		10.9	1.0	<0.05	2.2	11.52	32.8	0.04	<1	0.9	25.6	<10	<2	
1097356	Soil	0.29		7.2	0.8	<0.05	2.2	11.02	25.0	0.03	<1	0.8	31.9	<10	<2	
1097357	Soil	0.26		10.5	1.1	<0.05	2.0	13.90	18.1	0.03	<1	0.9	43.5	<10	<2	
1097358	Soil	0.41		11.2	1.3	<0.05	2.2	15.88	23.5	0.04	<1	1.5	45.3	<10	<2	
1097359	Soil	0.46		9.6	2.1	<0.05	3.2	12.23	21.8	0.03	<1	1.3	43.0	<10	5	
1097360	Soil	0.33		10.1	2.0	<0.05	3.0	17.26	31.8	0.04	<1	1.6	46.8	<10	<2	
1097361	Soil	0.32		8.8	0.9	<0.05	2.1	13.85	17.8	0.04	<1	1.1	33.5	<10	2	
1097362	Soil	0.35		9.4	1.4	<0.05	2.5	15.80	22.4	0.03	<1	0.9	34.6	<10	<2	
1097363	Soil	0.15		9.3	0.9	<0.05	3.8	10.67	28.4	0.05	<1	1.2	42.5	<10	3	
1097364	Soil	0.29		8.4	0.7	<0.05	2.5	15.26	23.9	0.03	<1	0.9	34.7	<10	<2	



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method Analyte	Unit	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1097365	Soil	0.53	30.21	24.22	74.6	197	27.1	12.0	522	2.80	8.2	2.1	1.6	2.2	93.2	0.10	0.33	0.28	20	1.64	0.060
1097366	Soil	0.54	34.40	29.49	88.7	92	28.5	14.4	365	3.64	9.2	1.2	1.0	3.9	27.5	0.21	0.32	0.35	31	0.19	0.061
1097367	Soil	0.63	32.18	27.40	78.7	96	31.2	15.2	376	3.61	11.5	0.9	<0.2	4.6	150.4	0.12	0.47	0.28	25	0.64	0.028
1097368	Soil	0.37	25.28	17.06	74.3	203	25.1	11.7	506	2.43	5.0	1.5	0.5	3.1	108.2	0.12	0.30	0.23	18	2.01	0.058
1097369	Soil	0.62	25.76	26.78	71.2	146	27.2	14.1	537	3.23	9.9	1.3	0.4	2.4	87.7	0.10	0.37	0.28	20	1.59	0.050
1097370	Soil	0.56	28.23	24.36	75.7	142	27.2	13.6	485	3.13	9.3	1.3	<0.2	2.6	80.9	0.16	0.30	0.27	19	1.51	0.043
1097371	Soil	0.80	19.16	26.31	117.8	84	22.3	8.4	254	2.97	10.4	2.9	0.2	1.0	129.1	0.40	0.43	0.30	35	1.74	0.109
1097372	Soil	0.54	18.75	26.69	99.3	210	17.2	6.3	445	1.77	5.8	3.3	<0.2	0.4	243.4	0.28	0.27	0.19	17	4.26	0.193
1097373	Soil	0.81	25.16	36.49	148.0	356	29.6	7.1	256	2.95	11.4	1.9	1.0	1.2	165.0	0.37	0.47	0.30	23	3.19	0.127
1097374	Soil	0.72	15.58	55.39	485.3	184	25.3	7.6	3009	4.95	16.4	3.3	2.8	1.6	46.1	1.27	1.56	0.26	28	3.84	0.190
1097375	Soil	0.80	14.08	31.33	140.9	123	20.7	7.7	820	4.35	10.6	2.8	0.9	1.9	37.7	0.78	0.68	0.28	36	1.51	0.096
1097376	Soil	0.45	16.16	16.38	62.9	91	13.8	6.0	462	1.55	3.3	2.3	<0.2	0.3	166.5	0.25	0.24	0.16	16	3.47	0.101
1097377	Soil	0.65	26.78	29.20	84.5	182	34.1	11.4	273	2.37	7.8	2.3	0.6	2.1	80.9	0.20	0.41	0.33	14	2.20	0.107
1097378	Soil	0.45	24.75	27.90	102.8	201	29.0	9.2	153	2.18	13.4	1.6	<0.2	4.5	224.3	0.13	0.57	0.33	8	5.45	0.074
1097379	Soil	0.61	43.20	47.28	149.8	241	58.9	26.9	885	4.16	8.7	1.0	3.2	4.4	181.2	0.25	0.41	0.50	11	2.85	0.063
1097380	Soil	0.40	30.74	28.72	122.4	294	35.1	11.2	276	2.65	7.1	1.5	<0.2	3.1	198.2	0.20	0.23	0.34	11	3.64	0.083
1097381	Soil	0.49	32.54	29.82	113.1	302	37.1	12.1	339	2.76	6.3	1.0	0.6	2.7	224.9	0.14	0.23	0.32	10	3.75	0.069
1097382	Soil	0.40	30.15	29.34	106.1	262	32.2	10.7	278	2.42	7.3	0.8	1.7	3.9	332.4	0.15	0.30	0.35	5	5.27	0.059
1097383	Soil	0.48	19.74	13.33	56.5	158	21.6	5.2	144	1.30	3.2	2.0	<0.2	0.6	255.7	0.29	0.20	0.16	9	4.41	0.084
1097384	Soil	0.56	11.57	25.47	52.3	111	12.7	6.2	345	2.60	7.1	1.6	0.9	1.2	63.4	0.23	0.33	0.31	29	0.93	0.090
1097385	Soil	0.94	12.46	19.88	55.7	25	13.9	4.6	94	2.10	7.4	0.7	0.6	3.3	11.5	0.04	0.49	0.31	39	0.08	0.033
1097386	Soil	0.68	18.55	35.22	55.4	95	23.9	8.2	146	2.53	9.4	1.6	0.8	1.8	56.1	0.11	0.35	0.33	21	1.84	0.074
1097387	Soil	0.29	5.14	10.73	448.8	79	7.0	2.1	1336	1.71	4.7	1.8	<0.2	0.4	99.3	1.82	0.15	0.05	5	12.67	0.132
1097388	Soil	0.95	27.79	59.76	287.0	243	33.9	10.0	1900	4.72	24.0	3.5	10.4	2.9	28.6	0.68	3.79	0.39	19	4.74	0.154
1097389	Soil	0.69	19.05	31.50	93.1	132	17.6	8.8	854	2.64	7.6	5.2	1.0	0.8	145.5	0.53	0.55	0.32	41	2.21	0.127
1097390	Soil	0.47	21.97	54.64	267.5	166	27.0	8.0	325	2.00	26.0	2.4	3.8	4.8	88.1	0.33	3.33	0.32	9	8.69	0.058
1097391	Soil	0.60	25.59	23.18	72.4	175	21.6	7.8	618	2.04	9.5	4.9	3.1	0.7	76.4	0.14	0.72	0.25	14	3.84	0.152
1097392	Soil	0.55	20.90	31.48	114.5	131	26.7	8.9	265	2.10	10.8	1.5	<0.2	2.1	233.6	0.21	0.65	0.27	9	5.81	0.076
1097393	Soil	0.56	31.65	38.75	137.5	269	33.0	12.8	298	3.69	6.9	1.4	0.5	1.7	80.4	0.21	0.29	0.40	14	1.65	0.064
1097394	Soil	0.52	28.30	27.38	117.0	215	34.5	11.5	205	2.63	8.3	1.7	0.8	2.2	318.5	0.14	0.26	0.31	7	6.37	0.086



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097365	Soil	8.2	21.5	0.38	109.8	0.002	4	1.33	0.004	0.09	<0.1	4.3	0.10	0.06	94	0.9	0.04	3.6	1.86	<0.1	0.09
1097366	Soil	10.4	32.5	0.40	106.8	0.002	3	2.03	0.003	0.12	<0.1	4.7	0.13	0.04	81	0.4	0.08	6.1	4.40	<0.1	0.08
1097367	Soil	9.3	25.2	0.54	75.2	0.002	4	1.57	0.004	0.10	<0.1	7.3	0.10	0.03	138	0.7	0.08	4.5	2.23	<0.1	0.07
1097368	Soil	7.1	21.8	0.39	96.0	0.002	4	1.33	0.004	0.10	<0.1	5.2	0.10	0.07	86	0.9	<0.02	3.7	2.63	<0.1	0.09
1097369	Soil	6.6	22.4	0.38	80.2	0.002	4	1.33	0.004	0.09	<0.1	4.8	0.09	0.05	34	0.7	<0.02	3.7	1.56	<0.1	0.05
1097370	Soil	6.4	21.3	0.40	104.1	0.002	6	1.31	0.005	0.10	<0.1	4.7	0.10	0.06	63	0.8	0.07	3.7	1.41	<0.1	0.09
1097371	Soil	13.1	22.0	0.17	240.0	0.005	3	1.48	0.003	0.07	<0.1	2.4	0.23	0.09	75	1.0	0.05	4.0	1.39	<0.1	0.03
1097372	Soil	14.2	13.1	0.08	151.0	0.004	8	0.81	0.008	0.08	<0.1	1.2	0.13	0.17	297	1.5	0.06	1.8	1.04	<0.1	0.02
1097373	Soil	17.8	19.4	0.17	132.7	0.005	6	1.00	0.006	0.08	0.1	2.4	0.16	0.10	311	1.2	0.11	2.3	0.92	<0.1	<0.02
1097374	Soil	16.7	21.4	1.26	157.7	0.004	3	1.00	0.005	0.07	<0.1	4.2	0.10	0.07	212	1.1	0.08	2.1	1.16	<0.1	0.03
1097375	Soil	22.8	26.7	0.32	120.7	0.006	4	1.95	0.004	0.07	0.1	3.8	0.16	0.07	73	0.9	0.05	3.8	1.84	<0.1	0.02
1097376	Soil	17.4	10.1	0.08	130.7	0.004	5	0.77	0.009	0.05	<0.1	1.1	0.08	0.18	114	0.9	0.04	1.9	0.64	<0.1	0.04
1097377	Soil	18.0	13.7	0.13	155.9	0.004	7	0.79	0.005	0.16	<0.1	4.0	0.16	0.08	182	0.8	0.08	2.2	3.55	<0.1	0.02
1097378	Soil	10.7	7.9	0.15	85.5	0.002	4	0.50	0.005	0.14	<0.1	3.1	0.21	0.05	240	1.1	0.03	1.4	2.15	<0.1	0.06
1097379	Soil	6.4	12.6	0.27	110.4	0.002	3	0.86	0.006	0.08	<0.1	4.8	0.17	0.02	72	0.5	0.07	2.0	2.49	<0.1	0.08
1097380	Soil	13.1	11.6	0.17	164.7	0.002	7	0.78	0.006	0.18	<0.1	3.5	0.19	0.06	181	1.4	0.03	1.9	1.93	<0.1	0.06
1097381	Soil	13.8	11.5	0.19	138.0	0.001	5	0.72	0.005	0.15	<0.1	3.9	0.20	0.06	228	0.9	0.05	2.0	2.02	<0.1	0.04
1097382	Soil	9.9	5.3	0.26	92.1	0.001	5	0.32	0.004	0.09	<0.1	3.3	0.16	0.04	305	0.6	0.03	0.8	1.87	<0.1	0.05
1097383	Soil	7.4	8.3	0.08	164.0	0.003	10	0.55	0.011	0.08	<0.1	1.2	0.13	0.16	138	1.2	0.02	1.4	1.12	<0.1	0.06
1097384	Soil	10.8	16.5	0.11	131.7	0.005	3	1.19	0.004	0.08	0.1	2.3	0.17	0.08	88	0.7	0.05	4.0	1.58	<0.1	0.02
1097385	Soil	11.3	15.6	0.11	60.0	0.004	4	1.14	0.002	0.08	0.2	1.9	0.15	0.02	32	0.5	0.03	5.2	1.90	<0.1	0.03
1097386	Soil	10.0	12.0	0.08	200.6	0.004	6	0.85	0.004	0.10	<0.1	2.9	0.13	0.10	107	0.7	0.11	2.8	2.27	<0.1	0.04
1097387	Soil	5.2	5.2	7.08	62.2	0.003	2	0.19	0.015	0.02	<0.1	0.6	0.04	0.06	425	0.6	0.03	0.6	0.32	<0.1	<0.02
1097388	Soil	12.7	13.3	2.15	77.2	0.003	4	0.79	0.008	0.11	<0.1	3.9	0.11	0.06	337	1.0	0.11	2.1	1.04	<0.1	0.05
1097389	Soil	18.5	23.1	0.19	142.5	0.007	2	1.63	0.004	0.06	<0.1	2.0	0.13	0.12	171	0.9	0.03	4.6	1.48	<0.1	0.04
1097390	Soil	5.3	9.6	3.67	41.8	<0.001	5	0.37	0.006	0.18	<0.1	3.2	0.15	0.07	287	1.0	0.03	1.3	1.66	<0.1	0.09
1097391	Soil	10.7	11.5	0.34	176.9	0.003	8	0.82	0.008	0.11	<0.1	2.6	0.14	0.16	296	1.5	0.02	2.0	1.98	<0.1	0.04
1097392	Soil	12.2	7.2	0.54	83.3	0.002	8	0.45	0.006	0.13	<0.1	3.1	0.16	0.06	287	0.9	<0.02	1.1	2.20	<0.1	0.02
1097393	Soil	7.8	13.0	0.18	96.6	<0.001	5	0.95	0.005	0.09	<0.1	3.9	0.14	0.08	59	1.0	0.09	2.2	1.45	<0.1	0.04
1097394	Soil	11.2	7.2	0.15	172.1	0.002	6	0.39	0.006	0.12	<0.1	2.7	0.20	0.07	214	0.8	0.03	1.0	2.36	<0.1	0.06



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 5 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1097365	Soil	0.30	10.1	0.9	<0.05	2.1	13.04	20.3	0.04	<1	1.3	36.2	<10	3
1097366	Soil	0.45	17.7	1.6	<0.05	3.5	8.26	24.6	0.04	<1	1.6	42.0	<10	2
1097367	Soil	0.27	10.2	1.2	<0.05	2.7	14.30	22.1	0.04	<1	1.3	45.0	<10	<2
1097368	Soil	0.34	10.5	0.9	<0.05	3.9	12.37	18.6	0.03	<1	1.0	40.9	<10	<2
1097369	Soil	0.24	8.3	0.8	<0.05	2.0	10.95	20.7	0.04	<1	0.8	36.4	<10	3
1097370	Soil	0.24	7.8	0.8	<0.05	2.5	9.59	20.6	0.04	<1	0.9	36.4	<10	<2
1097371	Soil	0.60	10.8	0.8	<0.05	0.7	10.62	41.7	0.05	<1	0.7	11.3	<10	<2
1097372	Soil	0.32	8.6	0.5	<0.05	1.0	14.79	32.0	0.03	<1	0.7	4.5	<10	3
1097373	Soil	0.46	8.7	1.4	<0.05	1.1	18.24	38.6	0.03	<1	0.9	8.0	<10	<2
1097374	Soil	0.17	7.4	1.5	<0.05	1.0	19.48	40.6	0.04	<1	0.6	4.2	<10	<2
1097375	Soil	0.62	11.5	1.5	<0.05	1.1	16.95	52.5	0.04	<1	0.7	11.7	<10	<2
1097376	Soil	0.38	5.1	0.5	<0.05	1.6	12.94	30.6	<0.02	<1	0.7	4.1	<10	3
1097377	Soil	0.33	12.1	1.3	<0.05	1.8	16.98	38.6	0.03	<1	1.0	8.1	<10	<2
1097378	Soil	0.17	9.1	0.8	<0.05	2.4	10.17	27.3	0.03	<1	0.7	6.7	<10	3
1097379	Soil	0.07	6.7	1.0	<0.05	2.7	15.13	17.9	0.06	<1	1.4	33.0	<10	<2
1097380	Soil	0.21	12.5	0.6	<0.05	2.3	13.04	33.1	0.03	<1	0.7	13.0	<10	<2
1097381	Soil	0.10	10.7	0.7	<0.05	1.9	15.33	39.1	0.04	<1	0.9	12.5	<10	<2
1097382	Soil	0.07	6.6	0.9	<0.05	2.6	11.59	26.3	0.03	1	0.7	5.8	<10	<2
1097383	Soil	0.25	7.5	0.6	<0.05	2.4	6.81	19.8	<0.02	<1	0.7	4.5	<10	3
1097384	Soil	0.53	11.7	0.7	<0.05	0.6	8.32	27.8	0.03	<1	0.6	12.0	<10	<2
1097385	Soil	0.52	10.4	1.0	<0.05	0.7	2.70	27.1	0.02	<1	0.4	7.3	<10	<2
1097386	Soil	0.49	10.6	0.5	<0.05	1.6	10.25	27.9	0.03	<1	0.5	7.1	<10	5
1097387	Soil	0.07	3.5	0.8	<0.05	0.6	4.29	10.2	<0.02	<1	0.1	1.2	<10	<2
1097388	Soil	0.17	7.9	0.6	<0.05	2.0	19.19	25.6	0.03	<1	0.6	5.2	<10	2
1097389	Soil	0.71	8.6	0.7	<0.05	1.1	13.10	32.2	0.04	<1	0.8	9.8	<10	<2
1097390	Soil	0.04	7.2	0.6	<0.05	4.4	7.38	14.3	<0.02	<1	0.5	3.8	<10	2
1097391	Soil	0.36	8.9	0.4	<0.05	1.8	20.31	20.8	0.04	<1	1.0	5.4	<10	2
1097392	Soil	0.13	7.9	0.9	<0.05	1.3	13.11	30.4	0.02	<1	0.9	4.5	<10	<2
1097393	Soil	0.14	9.0	0.7	<0.05	1.6	14.36	20.5	0.04	<1	1.1	19.9	<10	<2
1097394	Soil	0.16	7.9	1.8	<0.05	2.2	12.06	25.8	0.03	<1	0.7	4.9	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1097395	Soil			0.63	27.30	28.17	164.3	227	34.7	10.9	198	2.34	7.9	1.4	4.3	2.7	270.6	0.33	0.37	0.36	7	6.39	0.073
1097396	Soil			0.46	28.85	28.10	115.8	228	34.1	11.4	241	2.44	7.4	1.1	3.2	3.0	181.6	0.21	0.33	0.35	8	4.00	0.071
121786	Soil			1.00	35.69	21.35	95.5	128	24.2	11.0	477	3.19	20.5	1.0	0.6	1.2	14.2	0.18	0.86	0.36	25	0.12	0.092
121787	Soil			0.94	30.07	33.62	106.7	166	19.8	12.9	665	5.46	22.5	0.6	2.1	2.3	9.5	0.11	0.90	0.47	27	0.05	0.069
121788	Soil			0.81	23.28	24.11	114.9	85	26.2	14.5	775	3.42	22.3	1.1	0.5	3.5	13.3	0.12	0.58	0.35	24	0.11	0.066
121789	Soil			0.80	26.90	25.65	83.7	120	18.6	14.4	743	4.00	13.6	0.7	0.6	3.1	13.6	0.19	0.54	0.39	30	0.05	0.071
121790	Soil			0.59	28.39	19.11	77.1	140	31.4	12.2	406	3.10	12.1	1.5	2.1	4.7	56.7	0.10	0.48	0.31	22	0.34	0.037
121791	Soil			0.58	28.92	21.10	96.8	125	30.1	12.6	504	2.99	11.7	1.6	2.9	3.8	46.1	0.23	0.48	0.30	22	0.27	0.060
121792	Soil			0.80	31.07	24.77	91.8	174	31.0	13.1	464	3.23	16.5	1.7	1.7	3.7	60.0	0.20	0.56	0.32	19	0.63	0.058
121793	Soil			0.50	31.21	30.15	95.0	285	28.2	13.2	534	3.33	13.4	1.7	2.4	1.7	163.8	0.15	0.44	0.30	15	2.07	0.066
121794	Soil			0.51	25.53	13.82	58.7	188	23.2	9.1	435	1.93	7.0	2.2	3.6	2.2	109.0	0.23	0.43	0.22	17	1.53	0.055
121795	Soil			0.40	25.18	15.70	56.0	141	20.0	7.4	244	2.34	9.8	2.7	1.6	2.0	123.3	0.12	0.46	0.25	20	1.90	0.058
121796	Soil			1.12	28.92	70.11	81.6	63	31.8	19.5	806	5.94	31.4	0.7	1.1	3.5	20.1	0.09	0.95	0.39	34	0.19	0.039
121797	Soil			0.59	16.16	15.40	45.9	53	9.1	6.2	226	2.21	6.3	0.4	<0.2	2.2	11.1	0.06	0.32	0.29	27	0.12	0.016
121798	Soil			0.50	26.20	24.75	84.4	96	26.1	14.7	623	3.07	8.7	1.2	1.6	2.8	90.7	0.10	0.31	0.32	18	1.41	0.038
121799	Soil			0.38	29.09	22.98	82.1	111	28.0	13.0	360	3.14	10.3	0.9	2.3	4.0	59.1	0.09	0.41	0.33	17	0.79	0.035
121800	Soil			0.74	26.70	22.29	69.4	35	26.8	11.8	250	3.73	17.8	0.6	1.1	3.5	11.0	0.09	0.64	0.33	28	0.04	0.015
119239	Soil			0.49	42.09	43.33	75.1	102	27.1	27.9	1176	3.13	10.4	2.0	1.7	4.1	119.5	0.14	0.41	0.47	16	1.53	0.072
119240	Soil			0.58	33.86	25.03	74.5	63	27.9	14.5	613	3.39	15.1	1.2	1.0	4.1	40.6	0.08	0.61	0.33	18	0.37	0.050
119241	Soil			0.64	33.36	29.18	82.6	61	33.2	19.5	889	4.15	16.2	0.9	<0.2	4.5	22.0	0.08	0.62	0.37	24	0.14	0.052
119242	Soil			0.74	32.84	36.24	89.8	66	22.9	22.9	1292	4.40	13.1	0.5	1.0	2.4	29.4	0.14	0.43	0.38	30	0.25	0.091
119243	Soil			0.53	34.13	25.52	79.9	80	29.6	16.4	530	3.49	13.0	1.2	1.5	3.5	44.4	0.11	0.52	0.32	20	0.32	0.065
119244	Soil			0.74	24.24	36.85	75.3	112	18.8	23.4	2911	3.76	13.7	0.6	3.0	2.4	31.8	0.15	0.40	0.30	22	0.44	0.058
119245	Soil			0.68	43.02	37.61	89.6	91	32.6	21.2	760	4.07	17.4	0.9	1.7	3.3	28.1	0.11	0.43	0.37	19	0.33	0.052
119246	Soil			0.66	25.35	22.19	72.2	104	26.9	12.0	421	3.28	14.8	1.2	16.7	4.8	27.1	0.34	0.68	0.43	22	0.17	0.017
119247	Soil			0.50	30.86	27.17	87.4	145	31.1	17.4	700	3.75	9.4	0.7	1.3	4.1	44.6	0.09	0.42	0.32	19	0.55	0.021
119248	Soil			0.27	24.90	21.62	97.1	111	29.4	15.0	456	2.93	6.6	1.0	0.2	3.8	108.8	0.09	0.28	0.33	19	1.34	0.037
119249	Soil			0.36	26.34	24.49	79.3	39	26.7	14.2	309	3.59	8.5	0.8	1.7	4.3	18.2	0.07	0.32	0.36	23	0.10	0.019
119250	Soil			0.33	25.73	13.89	71.3	165	22.6	10.1	307	2.33	7.0	2.0	0.9	1.9	82.6	0.10	0.34	0.23	16	1.16	0.056
1097105	Soil			0.51	26.77	25.69	70.1	39	25.4	13.0	369	3.79	9.8	0.8	0.8	3.7	21.2	0.07	0.31	0.34	25	0.16	0.023



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 26, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1097395	Soil	9.8	8.4	0.26	100.2	0.002	4	0.47	0.004	0.12	<0.1	2.7	0.19	0.02	262	1.0	0.07	1.4	2.16	<0.1	0.04
1097396	Soil	10.7	8.5	0.24	111.6	0.002	6	0.60	0.004	0.14	<0.1	3.1	0.19	0.04	204	1.3	0.10	1.7	1.62	<0.1	0.05
121786	Soil	8.0	21.2	0.28	77.9	0.003	2	1.18	0.002	0.08	<0.1	2.1	0.12	0.05	407	1.1	0.06	4.0	3.32	<0.1	0.09
121787	Soil	5.5	26.9	0.25	48.4	0.002	3	1.51	<0.001	0.08	<0.1	1.8	0.10	0.02	506	0.8	0.08	6.0	8.67	<0.1	0.09
121788	Soil	9.7	27.3	0.50	96.8	0.002	2	1.55	<0.001	0.07	<0.1	3.1	0.10	0.02	129	0.8	0.09	4.1	1.90	<0.1	0.08
121789	Soil	4.9	22.9	0.35	45.2	0.003	3	1.41	0.001	0.07	<0.1	2.0	0.09	0.03	101	1.0	0.09	4.4	3.19	<0.1	0.06
121790	Soil	13.1	26.1	0.68	95.0	0.004	2	1.54	0.003	0.08	<0.1	4.6	0.09	<0.02	299	1.0	0.08	4.4	1.95	<0.1	0.08
121791	Soil	13.3	26.2	0.55	79.4	0.004	3	1.53	0.002	0.09	<0.1	5.1	0.11	0.03	328	1.0	0.06	4.1	3.34	<0.1	0.08
121792	Soil	12.1	21.8	0.48	65.9	0.004	3	1.10	0.003	0.06	<0.1	4.5	0.07	0.03	364	1.0	0.06	3.1	2.57	<0.1	0.08
121793	Soil	6.0	17.3	0.32	100.6	0.002	3	1.02	0.005	0.05	<0.1	3.8	0.09	0.09	249	1.5	0.09	2.8	1.57	<0.1	0.03
121794	Soil	13.0	21.3	0.45	105.7	0.004	3	1.03	0.003	0.06	<0.1	3.9	0.06	0.06	298	1.4	0.10	2.8	1.12	<0.1	0.05
121795	Soil	11.9	19.4	0.39	152.2	0.003	3	1.16	0.003	0.06	<0.1	3.9	0.06	0.07	270	1.1	0.07	3.3	1.03	<0.1	0.06
121796	Soil	5.5	29.1	0.41	91.6	0.002	3	2.10	0.002	0.05	<0.1	4.0	0.13	0.02	75	0.7	0.11	6.0	3.20	<0.1	0.04
121797	Soil	4.9	14.0	0.14	39.9	0.002	2	0.92	0.001	0.06	<0.1	1.6	<0.02	<0.02	70	0.4	0.06	5.1	1.86	<0.1	<0.02
121798	Soil	8.3	23.8	0.45	86.9	0.003	4	1.41	0.003	0.06	<0.1	4.8	0.07	0.05	73	1.1	0.12	4.5	1.18	<0.1	0.04
121799	Soil	7.3	22.5	0.50	75.7	0.003	3	1.39	0.003	0.10	<0.1	4.9	0.06	0.03	102	1.1	0.05	4.2	1.68	<0.1	0.10
121800	Soil	7.1	25.1	0.45	66.5	0.002	3	1.82	<0.001	0.06	<0.1	2.4	0.11	<0.02	138	0.7	0.06	4.6	2.54	<0.1	0.06
119239	Soil	17.2	21.0	0.49	123.9	0.002	5	1.58	0.002	0.09	<0.1	9.4	0.10	0.06	56	1.4	0.10	4.5	2.11	<0.1	0.11
119240	Soil	10.2	22.8	0.52	103.7	0.002	2	1.31	0.001	0.07	<0.1	7.2	0.06	0.03	70	0.9	0.06	3.7	1.64	<0.1	0.09
119241	Soil	6.8	30.4	0.64	81.0	0.003	4	1.85	<0.001	0.12	<0.1	4.2	0.09	0.02	39	0.6	0.11	4.7	6.28	<0.1	0.06
119242	Soil	3.5	28.4	0.44	69.6	0.003	3	1.74	<0.001	0.12	<0.1	3.0	0.10	0.04	32	0.6	0.13	6.0	7.78	<0.1	0.03
119243	Soil	6.8	22.1	0.54	54.8	0.002	3	1.47	0.002	0.08	<0.1	5.2	0.07	0.04	140	1.2	0.06	4.0	2.72	<0.1	0.07
119244	Soil	4.2	24.1	0.37	108.1	0.002	4	1.45	0.003	0.08	<0.1	2.6	0.12	0.05	101	0.4	0.07	4.2	5.68	<0.1	0.02
119245	Soil	5.0	23.9	0.60	84.9	0.002	4	1.77	0.001	0.11	<0.1	6.6	0.10	0.03	230	0.4	0.05	4.1	8.82	<0.1	0.07
119246	Soil	9.2	27.6	0.51	62.0	0.009	6	1.44	0.005	0.11	<0.1	5.6	0.14	<0.02	196	<0.1	<0.02	4.1	5.31	<0.1	0.09
119247	Soil	6.2	24.5	0.61	73.9	0.004	5	1.64	0.003	0.10	<0.1	5.2	0.07	0.03	67	0.4	0.06	4.6	2.33	<0.1	0.10
119248	Soil	5.7	27.0	0.61	105.6	0.002	4	1.64	0.003	0.12	<0.1	5.1	0.06	0.05	86	1.1	0.08	5.0	2.03	<0.1	0.13
119249	Soil	5.8	29.0	0.63	78.3	0.002	4	2.00	<0.001	0.11	<0.1	4.0	0.09	<0.02	39	0.6	0.06	5.6	2.18	<0.1	0.09
119250	Soil	5.8	20.5	0.39	79.3	0.002	4	1.24	0.003	0.08	<0.1	4.0	0.09	0.05	147	0.6	0.05	3.4	2.59	<0.1	0.07
1097105	Soil	4.7	26.4	0.49	67.7	0.001	2	2.02	<0.001	0.08	<0.1	3.2	0.12	<0.02	34	0.5	0.09	5.2	2.03	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 6 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1097395	Soil			0.14	9.0	1.5	<0.05	1.8	10.30	24.5	0.04	<1	0.6	5.0	<10	<2
1097396	Soil			0.16	8.6	1.1	<0.05	2.2	11.28	27.5	0.02	1	0.9	6.4	<10	<2
121786	Soil			0.17	10.7	0.8	<0.05	1.8	7.31	21.9	0.04	<1	1.5	14.5	<10	<2
121787	Soil			0.32	12.5	0.9	<0.05	2.5	2.22	11.4	0.04	<1	0.8	17.7	<10	<2
121788	Soil			0.18	10.9	0.7	<0.05	2.0	7.47	24.4	0.05	<1	1.1	35.1	<10	<2
121789	Soil			0.33	10.4	0.9	<0.05	1.6	3.53	12.1	0.05	<1	0.9	28.0	<10	<2
121790	Soil			0.17	9.0	0.6	<0.05	2.8	11.54	29.9	0.02	<1	1.1	32.3	<10	<2
121791	Soil			0.27	11.6	1.2	<0.05	2.5	17.76	31.2	0.05	<1	1.3	35.8	<10	<2
121792	Soil			0.22	7.5	1.1	<0.05	2.7	13.42	31.9	0.04	<1	0.9	25.1	<10	<2
121793	Soil			0.25	6.1	0.6	<0.05	2.1	11.72	19.4	0.04	2	1.0	24.0	<10	<2
121794	Soil			0.31	5.4	0.8	<0.05	2.7	12.54	28.2	0.02	<1	1.0	21.8	<10	<2
121795	Soil			0.35	6.0	0.5	<0.05	2.6	13.31	21.4	0.03	<1	0.9	21.3	<10	<2
121796	Soil			0.31	9.0	1.1	<0.05	2.4	6.10	18.5	0.06	<1	0.7	43.6	<10	<2
121797	Soil			0.26	12.4	1.0	<0.05	1.6	2.13	11.2	<0.02	<1	<0.1	11.9	<10	<2
121798	Soil			0.28	6.7	1.0	<0.05	2.0	13.82	23.1	0.04	<1	1.4	36.1	<10	<2
121799	Soil			0.22	7.9	0.6	<0.05	3.7	10.80	17.4	0.04	<1	1.1	38.2	<10	<2
121800	Soil			0.18	9.8	0.6	<0.05	3.8	2.84	15.0	0.03	<1	0.8	42.9	<10	<2
119239	Soil			0.18	9.7	1.6	<0.05	2.5	36.01	47.8	0.05	<1	2.5	34.7	<10	<2
119240	Soil			0.12	6.4	0.7	<0.05	2.3	14.93	28.3	0.04	<1	1.1	29.5	<10	<2
119241	Soil			0.19	11.5	0.7	<0.05	1.7	5.40	26.1	0.04	<1	2.0	55.1	<10	<2
119242	Soil			0.28	15.3	1.8	<0.05	1.0	3.10	9.8	0.02	<1	1.7	50.5	<10	<2
119243	Soil			0.21	9.3	0.8	<0.05	2.4	12.88	17.2	0.03	<1	1.3	33.3	<10	<2
119244	Soil			0.29	14.0	1.1	<0.05	1.1	2.29	14.3	0.05	<1	0.8	33.7	<10	<2
119245	Soil			0.18	9.7	0.9	<0.05	2.3	11.84	14.0	0.04	<1	1.3	46.4	<10	<2
119246	Soil			0.29	13.4	1.3	0.09	3.9	5.98	22.6	0.18	6	1.4	45.7	<10	5
119247	Soil			0.24	8.1	1.0	<0.05	5.1	9.70	19.9	0.02	<1	1.0	55.0	<10	<2
119248	Soil			0.31	8.2	0.7	<0.05	5.3	8.24	14.8	0.03	<1	1.0	48.9	<10	<2
119249	Soil			0.22	10.0	0.7	<0.05	4.0	5.68	15.5	0.03	<1	0.9	44.8	<10	<2
119250	Soil			0.25	8.2	0.5	<0.05	3.3	10.26	13.3	0.03	<1	0.6	35.3	<10	<2
1097105	Soil			0.19	11.4	0.6	<0.05	3.3	4.10	12.6	0.05	<1	1.1	46.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1097106	Soil			0.44	32.04	25.66	84.4	105	33.4	15.6	524	3.68	8.5	1.0	0.9	5.6	45.5	0.11	0.28	0.34	21	0.44	0.047
1097107	Soil			0.52	30.10	24.83	75.7	81	27.0	15.8	591	3.33	9.9	1.3	0.8	4.0	54.4	0.10	0.37	0.34	20	0.74	0.031
1097108	Soil			0.57	32.82	23.23	79.3	120	27.9	14.0	492	3.24	16.1	1.3	2.0	4.0	103.2	0.16	0.49	0.32	19	1.53	0.045
1097109	Soil			0.53	30.67	17.78	68.2	99	25.7	11.1	409	2.69	14.2	1.3	2.1	2.9	283.5	0.17	0.47	0.27	14	6.04	0.055
1097110	Soil			0.62	31.50	19.89	76.7	115	26.0	12.4	420	2.98	13.8	1.0	1.7	3.4	120.7	0.16	0.51	0.29	16	2.34	0.048
1097111	Soil			0.42	23.73	21.06	71.2	93	23.4	10.6	235	3.32	8.8	1.0	1.2	3.0	57.0	0.08	0.35	0.29	17	0.81	0.032
1097112	Soil			0.53	26.71	21.24	84.3	130	27.6	12.2	592	3.29	10.2	0.9	4.5	2.3	60.7	0.14	0.43	0.30	17	0.86	0.041
1097113	Soil			0.50	26.39	41.82	134.8	156	38.2	15.9	592	5.26	5.4	0.5	1.9	3.8	8.9	0.15	0.27	0.37	13	0.04	0.045
1097114	Soil			0.53	23.19	26.52	119.0	355	37.6	11.7	470	3.31	8.2	1.0	1.4	1.8	61.9	0.14	0.25	0.29	9	1.08	0.059
1097115	Soil			0.51	34.56	32.69	197.4	134	65.0	26.5	301	4.65	9.2	1.4	0.5	6.2	266.6	0.10	0.20	0.37	9	3.77	0.015
1097116	Soil			0.60	32.98	32.48	127.0	256	46.5	17.4	543	4.21	6.9	0.8	0.4	5.6	99.2	0.13	0.22	0.35	9	1.20	0.044
1097117	Soil			0.61	33.21	35.83	134.6	228	43.4	17.2	380	4.19	6.9	0.9	0.8	3.6	83.1	0.12	0.28	0.39	11	1.13	0.068
1097118	Soil			0.66	36.26	39.14	110.3	276	36.1	13.7	354	4.25	8.4	0.9	0.7	3.4	53.5	0.08	0.30	0.38	12	0.66	0.041
1097119	Soil			0.66	29.82	34.58	116.9	278	37.9	14.2	422	3.50	8.2	0.8	0.5	1.8	137.8	0.15	0.28	0.39	10	2.38	0.061
1097120	Soil			0.60	29.95	30.76	110.2	242	43.0	14.9	453	3.65	7.4	0.7	0.4	5.7	202.9	0.09	0.23	0.32	7	3.07	0.034
1097121	Soil			0.61	27.21	51.79	57.7	318	39.3	11.7	315	3.18	5.9	0.6	0.7	3.6	40.7	0.08	0.22	0.31	6	1.18	0.044
1097122	Soil			0.81	25.88	23.74	121.4	262	41.8	12.2	422	3.08	6.9	0.5	<0.2	4.9	338.6	0.17	0.23	0.24	8	6.86	0.026
1097123	Soil			0.45	24.08	34.62	95.3	204	34.4	12.3	340	3.56	5.4	0.8	0.6	2.5	54.2	0.06	0.26	0.30	9	0.46	0.045
1097124	Soil			0.38	27.24	23.34	100.2	219	38.0	10.6	267	3.31	7.1	0.8	0.9	2.3	71.8	0.09	0.35	0.29	13	0.89	0.047
1097125	Soil			0.63	30.94	32.66	108.8	214	36.8	15.4	417	3.85	11.1	0.7	0.4	2.5	31.8	0.09	0.41	0.32	13	0.47	0.045
1097126	Soil			0.90	32.13	30.66	171.7	276	49.9	15.9	421	5.06	64.0	1.5	3.4	2.7	62.8	0.24	2.83	0.27	9	0.81	0.055
1097127	Soil			0.89	23.62	32.50	133.9	76	30.5	11.1	542	4.04	9.2	0.5	0.4	1.2	16.0	0.16	0.37	0.32	20	0.14	0.055
1097128	Soil			0.85	56.73	74.55	186.7	336	80.3	35.1	718	6.96	25.3	0.9	0.9	4.3	83.0	0.10	0.44	0.51	17	0.36	0.076
1097129	Soil			0.68	31.42	32.13	145.3	217	52.4	18.8	496	4.13	7.5	1.1	0.3	6.3	164.3	0.13	0.22	0.32	9	2.32	0.045
1097130	Soil			0.58	28.25	26.19	114.6	210	42.8	14.9	405	3.33	7.5	1.0	<0.2	5.9	279.4	0.11	0.22	0.29	8	4.50	0.042
1097131	Soil			0.99	32.75	42.50	108.5	206	41.3	18.5	624	3.79	6.3	0.8	0.9	3.3	76.8	0.11	0.26	0.31	11	1.09	0.047
1097132	Soil			0.62	29.64	38.56	97.3	295	42.8	13.6	342	3.32	7.3	0.9	0.3	4.6	133.1	0.10	0.20	0.30	7	2.48	0.052
1097133	Soil			0.68	29.90	25.83	113.8	261	46.7	15.0	295	3.02	9.2	2.1	0.3	3.9	268.0	0.12	0.26	0.31	7	5.25	0.077
1097134	Soil			0.52	26.60	24.67	99.9	200	38.1	13.6	402	3.19	6.7	0.7	<0.2	5.4	225.3	0.09	0.35	0.27	7	4.04	0.031
1097135	Soil			0.73	34.29	33.76	121.7	298	46.2	15.1	372	3.97	8.5	0.8	0.5	4.4	147.6	0.11	0.26	0.33	6	2.15	0.039



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097106	Soil	7.6	27.0	0.54	116.6	0.002	3	1.95	0.001	0.12	<0.1	5.4	0.09	<0.02	51	1.1	0.11	5.1	2.11	<0.1	0.11
1097107	Soil	6.5	23.7	0.50	94.4	0.002	4	1.57	0.002	0.12	<0.1	4.6	0.08	0.03	57	1.0	0.10	4.5	1.79	<0.1	0.08
1097108	Soil	12.0	21.1	0.54	92.4	0.002	4	1.23	0.003	0.07	<0.1	5.6	0.07	0.03	306	0.9	0.07	3.6	1.17	<0.1	0.07
1097109	Soil	8.4	17.2	0.70	57.0	0.003	4	0.99	0.004	0.09	<0.1	4.4	0.05	<0.02	316	0.9	0.13	3.0	1.32	<0.1	0.06
1097110	Soil	8.9	18.1	0.61	62.6	0.003	4	1.01	0.004	0.08	<0.1	4.5	0.07	0.03	360	0.8	0.04	3.1	1.65	<0.1	0.08
1097111	Soil	5.0	18.3	0.39	73.7	0.001	3	1.25	0.002	0.07	<0.1	4.5	0.07	0.02	74	0.8	0.05	3.5	1.07	0.1	0.03
1097112	Soil	5.5	17.4	0.34	81.9	0.001	2	1.24	0.002	0.07	<0.1	4.5	0.09	0.03	122	0.5	0.05	3.3	1.19	<0.1	0.05
1097113	Soil	2.4	14.5	0.23	41.4	<0.001	1	1.13	0.001	0.07	<0.1	3.8	0.17	0.04	41	0.3	0.03	3.0	3.81	<0.1	0.05
1097114	Soil	11.8	7.5	0.06	56.4	<0.001	3	0.46	0.003	0.09	<0.1	3.3	0.21	0.05	163	0.6	0.03	1.5	1.28	<0.1	0.04
1097115	Soil	5.2	7.1	0.04	115.3	<0.001	3	0.25	0.004	0.11	0.2	5.8	0.36	0.07	429	1.0	<0.02	1.1	2.41	<0.1	0.09
1097116	Soil	4.5	13.0	0.28	75.4	<0.001	2	0.84	0.005	0.08	<0.1	4.0	0.15	0.14	50	0.6	<0.02	2.3	2.24	<0.1	0.09
1097117	Soil	5.3	10.9	0.21	59.4	<0.001	3	0.78	0.004	0.07	<0.1	5.0	0.13	0.07	51	0.5	0.04	1.8	1.76	<0.1	0.08
1097118	Soil	4.6	13.6	0.20	56.1	<0.001	3	0.83	0.003	0.08	<0.1	4.8	0.14	0.05	63	0.4	0.05	2.2	2.46	<0.1	0.07
1097119	Soil	5.2	10.1	0.18	78.3	<0.001	3	0.63	0.003	0.09	<0.1	3.4	0.11	0.07	70	0.6	0.03	1.7	1.10	<0.1	0.06
1097120	Soil	5.8	9.8	0.22	86.2	0.001	3	0.67	0.004	0.11	<0.1	3.9	0.20	0.11	126	0.6	0.03	1.8	2.21	<0.1	0.12
1097121	Soil	10.0	5.4	0.14	87.5	<0.001	4	0.32	0.003	0.12	<0.1	4.7	0.18	0.03	477	0.6	<0.02	1.0	2.09	<0.1	0.04
1097122	Soil	6.9	10.1	0.20	83.1	0.003	4	0.62	0.003	0.15	<0.1	3.5	0.24	0.10	148	0.9	<0.02	2.0	2.80	<0.1	0.08
1097123	Soil	5.6	11.4	0.19	88.8	<0.001	2	0.96	0.002	0.07	<0.1	3.7	0.12	0.04	124	0.4	0.03	2.2	1.69	<0.1	0.06
1097124	Soil	4.8	17.2	0.33	83.3	0.001	3	1.23	0.002	0.09	<0.1	3.7	0.12	0.05	95	0.4	0.03	3.1	2.23	<0.1	0.07
1097125	Soil	4.0	13.1	0.20	63.7	<0.001	2	0.87	0.002	0.07	<0.1	3.9	0.12	0.03	85	0.4	0.05	2.3	2.54	<0.1	0.06
1097126	Soil	7.7	7.7	0.05	59.6	<0.001	3	0.46	0.003	0.09	<0.1	3.2	0.23	0.06	114	0.8	0.04	1.1	1.05	<0.1	0.05
1097127	Soil	4.4	14.1	0.12	62.3	0.002	2	0.92	0.002	0.08	<0.1	2.1	0.12	0.03	27	0.3	0.03	2.9	1.63	<0.1	<0.02
1097128	Soil	4.5	15.0	0.06	81.9	<0.001	2	0.68	0.003	0.09	<0.1	7.6	0.26	0.04	133	0.5	0.08	1.5	2.92	<0.1	0.03
1097129	Soil	5.6	11.8	0.24	102.7	<0.001	2	0.78	0.004	0.11	<0.1	4.0	0.17	0.14	62	0.6	0.03	2.0	1.98	<0.1	0.09
1097130	Soil	5.8	9.7	0.25	89.9	0.001	4	0.65	0.004	0.13	<0.1	3.5	0.18	0.23	83	0.6	<0.02	1.9	2.12	<0.1	0.12
1097131	Soil	5.0	16.6	0.21	53.0	<0.001	2	0.83	0.003	0.08	<0.1	4.6	0.13	0.07	38	0.4	0.03	2.1	2.52	<0.1	0.06
1097132	Soil	7.1	7.2	0.11	91.4	<0.001	4	0.47	0.004	0.14	<0.1	3.8	0.18	0.06	112	0.7	<0.02	1.4	1.73	<0.1	0.07
1097133	Soil	8.7	6.7	0.10	141.0	0.001	6	0.50	0.005	0.19	<0.1	2.8	0.35	0.08	141	1.0	<0.02	1.6	1.69	<0.1	0.07
1097134	Soil	6.0	9.1	0.21	82.4	0.001	4	0.61	0.004	0.14	<0.1	3.6	0.19	0.14	147	0.5	<0.02	1.7	2.25	<0.1	0.11
1097135	Soil	6.3	7.2	0.12	91.7	<0.001	3	0.46	0.005	0.11	<0.1	3.6	0.20	0.11	202	0.6	0.03	1.2	2.39	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 7 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1097106	Soil	0.16	9.9	0.7	<0.05	4.9	13.36	22.3	0.04	<1	1.1	49.4	<10	<2
1097107	Soil	0.21	9.5	0.5	<0.05	4.5	9.81	19.0	0.03	<1	0.8	41.3	<10	<2
1097108	Soil	0.20	5.8	0.7	<0.05	3.0	15.06	27.6	0.03	<1	1.3	29.3	<10	<2
1097109	Soil	0.17	4.9	1.0	<0.05	1.8	11.15	19.5	0.03	<1	1.2	26.9	<10	<2
1097110	Soil	0.20	5.9	0.6	<0.05	2.6	11.35	22.3	0.04	<1	0.8	27.9	<10	<2
1097111	Soil	0.15	6.8	0.6	<0.05	1.6	9.76	11.8	0.04	<1	1.1	32.8	<10	<2
1097112	Soil	0.21	6.3	0.5	<0.05	2.0	11.86	16.4	0.05	<1	0.9	31.6	<10	<2
1097113	Soil	0.10	7.1	0.7	<0.05	1.6	7.00	12.0	0.05	<1	1.1	32.0	<10	<2
1097114	Soil	0.09	7.7	0.6	<0.05	1.3	19.05	30.8	0.04	<1	1.2	3.2	<10	<2
1097115	Soil	0.02	7.0	0.7	<0.05	5.1	11.76	18.1	0.05	1	1.3	2.6	<10	<2
1097116	Soil	0.02	5.6	1.4	<0.05	6.1	11.40	15.7	0.03	<1	1.0	30.9	<10	<2
1097117	Soil	0.05	5.3	2.1	<0.05	3.3	16.18	17.2	0.05	<1	1.5	26.7	<10	<2
1097118	Soil	0.07	6.1	3.1	<0.05	2.5	11.61	14.7	0.04	<1	1.0	24.7	<10	<2
1097119	Soil	0.06	4.8	2.6	<0.05	2.1	12.39	16.2	0.04	<1	0.9	17.3	<10	<2
1097120	Soil	0.04	7.3	2.0	<0.05	7.0	11.73	20.1	0.04	1	1.0	17.7	<10	<2
1097121	Soil	0.06	7.4	1.7	<0.05	1.3	13.69	27.8	0.05	<1	1.0	2.5	<10	<2
1097122	Soil	0.09	11.0	1.5	<0.05	3.9	10.33	21.7	0.03	2	0.7	11.0	<10	<2
1097123	Soil	0.08	6.8	1.6	<0.05	2.4	11.77	18.0	0.04	<1	1.0	20.7	<10	<2
1097124	Soil	0.16	6.8	1.1	<0.05	2.6	10.26	12.0	0.03	<1	1.3	34.4	<10	<2
1097125	Soil	0.09	7.1	0.8	<0.05	2.1	10.57	11.9	0.03	<1	1.0	24.2	<10	<2
1097126	Soil	0.08	5.2	2.2	<0.05	1.7	12.17	24.6	0.04	1	1.0	4.0	<10	<2
1097127	Soil	0.16	11.1	2.5	<0.05	0.5	6.05	14.5	0.04	<1	0.8	14.6	<10	<2
1097128	Soil	0.04	7.4	1.9	<0.05	1.6	11.70	13.3	0.07	<1	1.9	4.9	<10	<2
1097129	Soil	0.02	6.7	3.9	<0.05	7.1	11.21	18.6	0.04	2	1.1	25.6	<10	<2
1097130	Soil	0.03	7.8	1.0	<0.05	7.6	10.96	19.7	0.03	1	0.8	16.8	<10	<2
1097131	Soil	0.08	6.1	8.2	<0.05	2.5	12.86	16.9	0.04	<1	1.2	26.6	<10	<2
1097132	Soil	0.05	8.0	1.1	<0.05	2.8	11.52	19.7	0.03	<1	0.9	8.6	<10	<2
1097133	Soil	0.14	10.3	1.9	<0.05	3.0	10.70	23.5	0.03	<1	0.8	5.5	<10	<2
1097134	Soil	0.04	8.4	0.7	<0.05	6.6	10.65	20.3	0.03	1	0.9	14.4	<10	<2
1097135	Soil	0.03	6.6	1.8	<0.05	3.7	11.84	19.0	0.03	<1	1.0	10.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 26, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1097136	Soil			0.53	27.61	31.67	103.9	284	37.2	11.6	248	3.18	6.6	0.7	0.4	3.4	91.0	0.09	0.23	0.29	8	1.47	0.037
1097137	Soil			0.44	28.34	32.35	114.4	314	38.5	14.1	393	4.32	6.2	0.7	0.5	4.5	54.8	0.11	0.26	0.28	7	0.36	0.048
1097138	Soil			0.42	28.36	25.29	106.0	259	35.5	11.1	275	3.46	7.4	0.5	0.7	2.9	65.8	0.08	0.28	0.31	10	0.80	0.037
1097139	Soil			0.56	55.39	89.05	131.3	379	37.0	20.1	382	6.57	12.2	0.9	0.3	3.4	20.7	0.03	0.46	0.36	19	0.02	0.056
1097140	Soil			0.71	38.01	49.63	97.6	181	31.9	20.6	987	5.25	13.3	1.0	0.4	2.1	19.3	0.08	0.40	0.30	18	0.07	0.075
1097141	Soil			0.48	19.79	21.45	59.2	181	22.8	7.7	265	2.34	6.4	0.9	0.4	1.6	79.6	0.07	0.23	0.22	10	1.23	0.052
1097142	Soil			0.55	28.76	33.94	131.8	147	54.1	25.0	711	3.87	8.0	0.8	0.3	3.0	18.8	0.11	0.26	0.28	11	0.17	0.046
1097143	Soil			0.78	23.80	28.29	95.2	63	28.0	11.4	450	3.84	9.3	0.6	0.7	1.7	13.5	0.14	0.46	0.29	26	0.09	0.046
1097144	Soil			1.09	21.05	29.60	69.0	70	15.6	6.7	381	3.27	8.3	0.5	0.6	0.5	11.1	0.06	0.46	0.32	28	0.03	0.071
1097145	Soil			0.99	26.63	34.47	96.1	54	27.0	11.8	394	4.12	9.5	0.7	0.6	1.5	16.7	0.12	0.49	0.28	27	0.10	0.053
1097146	Soil			1.17	30.48	44.48	129.0	108	30.7	19.7	595	4.20	10.5	0.6	0.6	2.0	25.2	0.09	0.50	0.32	30	0.06	0.067
1097147	Soil			0.55	24.35	29.78	105.2	26	27.7	11.5	330	3.99	10.2	0.5	0.3	2.1	20.1	0.08	0.24	0.35	16	0.21	0.034
1097148	Soil			1.08	25.67	30.00	88.1	29	27.7	11.0	354	4.39	11.4	0.6	3.5	1.2	14.6	0.16	0.77	0.47	28	0.03	0.054
1097149	Soil			0.91	31.89	61.04	109.1	127	43.8	32.6	1140	4.19	16.3	0.7	2.2	2.1	33.4	0.10	0.57	0.49	15	0.02	0.054
1097150	Soil			0.65	22.51	41.62	80.0	94	19.1	10.6	375	3.17	9.5	0.4	1.6	1.7	18.0	0.05	0.47	0.46	10	0.02	0.043
1097201	Soil			0.92	37.61	68.15	130.2	131	55.5	32.8	872	4.27	19.8	0.9	1.7	3.4	17.8	0.13	0.59	0.46	18	0.06	0.054
1097202	Soil			1.01	51.78	33.29	119.1	409	48.8	22.6	470	4.72	15.6	2.3	1.0	5.6	215.4	0.24	0.47	0.44	14	4.75	0.132
1097203	Soil			1.02	28.63	50.71	86.1	223	29.0	21.5	1631	4.40	8.4	1.3	1.3	2.5	44.2	0.24	0.57	0.32	25	0.49	0.132
1097204	Soil			0.89	36.19	40.26	119.0	301	27.6	22.2	1133	4.09	11.4	0.9	0.7	3.7	50.6	0.46	0.49	0.37	23	0.67	0.136
1097205	Soil			0.58	33.30	23.28	73.0	204	27.1	13.2	447	3.78	6.9	1.0	0.8	3.4	55.8	0.11	0.26	0.30	17	0.86	0.102
1097206	Soil			1.73	19.99	24.90	88.4	117	21.8	10.6	376	4.00	12.1	0.6	1.2	0.9	17.4	0.15	0.73	0.38	37	0.15	0.090
1097207	Soil			0.89	42.36	46.70	87.1	103	37.6	23.9	700	4.97	6.8	0.4	1.7	3.9	19.9	0.08	0.36	0.34	22	0.20	0.044
1097208	Soil			0.49	28.74	31.86	79.6	109	30.3	14.2	411	3.96	9.5	0.6	0.6	3.9	45.1	0.08	0.33	0.33	14	0.39	0.056
1097209	Soil			0.95	29.91	32.29	87.4	147	33.7	13.3	302	3.53	9.8	1.1	1.2	3.6	81.7	0.13	0.66	0.38	18	0.71	0.049
1097210	Soil			0.66	27.94	39.29	81.2	248	28.1	17.6	485	3.54	7.1	1.6	0.9	4.2	119.3	0.13	0.47	0.47	16	0.80	0.053
1097211	Soil			0.47	25.74	21.17	66.1	237	23.1	10.0	304	2.57	5.6	1.0	1.2	2.3	220.8	0.13	0.40	0.28	13	1.73	0.066
1097212	Soil			0.44	27.58	19.16	63.2	232	21.9	9.8	288	2.43	4.7	1.5	2.0	1.7	280.2	0.14	0.38	0.28	12	2.24	0.078
1097213	Soil			1.17	24.77	54.36	99.0	143	34.7	14.0	542	3.63	8.9	1.1	1.9	2.1	45.3	0.17	0.44	0.35	16	0.61	0.113
1097214	Soil			0.71	19.37	26.68	73.4	74	16.5	6.4	239	2.70	6.2	0.5	1.8	0.7	24.7	0.11	0.37	0.37	19	0.21	0.085
1097215	Soil			1.27	21.93	50.62	82.7	91	24.1	9.8	478	3.68	8.6	0.8	1.2	0.8	11.4	0.22	0.68	0.36	27	0.06	0.089



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097136	Soil	9.2	7.4	0.14	101.2	<0.001	6	0.53	0.003	0.15	<0.1	3.4	0.27	0.06	338	0.6	0.03	1.5	2.12	<0.1	0.05
1097137	Soil	9.4	9.1	0.18	55.1	<0.001	2	0.70	0.002	0.07	<0.1	4.7	0.13	0.04	163	0.4	0.05	1.5	1.61	<0.1	0.07
1097138	Soil	4.7	14.1	0.26	78.0	0.001	2	0.96	0.002	0.08	<0.1	4.3	0.10	0.03	105	0.4	0.03	2.5	1.97	<0.1	0.06
1097139	Soil	3.4	24.9	0.28	44.4	<0.001	2	1.50	0.003	0.10	<0.1	4.8	0.21	0.07	45	0.4	0.05	4.2	7.69	<0.1	0.06
1097140	Soil	3.1	17.4	0.13	46.1	0.001	2	1.14	0.004	0.08	<0.1	3.3	0.14	0.06	47	0.4	0.07	3.0	3.34	<0.1	0.04
1097141	Soil	4.2	13.6	0.20	76.0	0.001	3	0.80	0.002	0.07	<0.1	2.6	0.09	0.06	65	0.3	<0.02	2.1	1.59	<0.1	0.05
1097142	Soil	4.0	16.7	0.23	78.7	<0.001	2	1.27	0.001	0.08	<0.1	4.2	0.15	0.04	64	0.4	0.05	2.7	4.18	<0.1	0.04
1097143	Soil	6.6	20.3	0.25	76.4	0.005	1	1.21	0.003	0.08	<0.1	2.6	0.14	0.02	31	0.3	0.05	3.5	2.50	<0.1	<0.02
1097144	Soil	5.4	17.8	0.13	39.2	0.005	1	1.06	0.004	0.09	<0.1	1.3	0.14	0.05	23	0.4	0.03	4.1	3.67	<0.1	<0.02
1097145	Soil	6.9	20.6	0.22	68.6	0.006	2	1.25	0.003	0.08	<0.1	2.4	0.14	0.03	29	0.4	0.04	3.5	4.69	<0.1	<0.02
1097146	Soil	5.8	19.9	0.20	61.6	0.006	2	1.24	0.005	0.10	<0.1	2.5	0.18	0.05	32	0.5	0.05	4.2	6.08	<0.1	<0.02
1097147	Soil	4.0	13.8	0.12	91.5	<0.001	1	0.94	0.001	0.08	<0.1	2.4	0.14	<0.02	40	0.1	0.04	2.4	1.71	<0.1	0.02
1097148	Soil	6.7	19.8	0.26	45.1	0.010	2	1.16	0.002	0.06	0.1	1.7	0.11	0.02	21	0.4	0.06	3.4	2.64	<0.1	<0.02
1097149	Soil	2.8	11.4	0.09	144.0	0.001	2	0.49	0.002	0.08	<0.1	3.4	0.10	<0.02	60	0.3	0.08	1.4	8.25	<0.1	<0.02
1097150	Soil	2.6	7.6	0.05	57.4	<0.001	2	0.43	0.002	0.07	<0.1	1.8	0.13	0.03	286	0.2	0.03	1.3	4.68	<0.1	<0.02
1097201	Soil	4.2	16.2	0.25	108.2	0.003	2	1.34	0.004	0.07	<0.1	4.0	0.16	0.04	40	0.4	0.08	2.9	6.95	<0.1	0.03
1097202	Soil	6.3	12.9	0.25	103.9	0.001	3	0.78	0.005	0.08	<0.1	6.2	0.26	0.06	114	0.9	0.07	2.1	1.77	<0.1	0.06
1097203	Soil	6.8	22.8	0.28	149.5	0.004	2	1.47	0.002	0.07	<0.1	4.6	0.13	0.07	74	0.3	0.04	3.9	5.68	<0.1	0.06
1097204	Soil	5.4	24.6	0.36	171.9	0.003	2	1.52	0.003	0.10	<0.1	4.9	0.11	0.05	24	0.2	0.03	4.7	3.46	<0.1	0.04
1097205	Soil	7.3	17.1	0.31	95.1	0.001	3	1.06	0.003	0.08	<0.1	7.0	0.08	0.05	31	0.3	0.03	3.0	0.83	<0.1	0.07
1097206	Soil	6.5	25.1	0.37	96.5	0.004	1	1.57	0.002	0.08	<0.1	1.4	0.12	0.03	19	0.3	0.04	5.2	2.36	<0.1	<0.02
1097207	Soil	3.1	27.8	0.36	116.0	0.001	2	1.58	0.002	0.07	<0.1	6.3	0.10	0.03	25	0.2	0.05	4.5	2.92	<0.1	0.04
1097208	Soil	7.0	18.4	0.28	91.8	0.001	2	1.27	0.002	0.08	<0.1	6.0	0.11	0.03	45	0.3	0.06	3.4	1.22	<0.1	0.06
1097209	Soil	5.3	22.6	0.42	88.7	0.003	3	1.39	0.003	0.10	<0.1	4.6	0.10	0.03	43	0.4	0.04	3.9	2.18	<0.1	0.05
1097210	Soil	4.0	23.4	0.36	97.3	0.002	3	1.57	0.003	0.09	<0.1	5.5	0.12	0.05	53	0.6	0.02	4.1	4.14	<0.1	0.08
1097211	Soil	4.4	16.5	0.35	81.0	0.002	7	0.94	0.005	0.07	<0.1	3.7	0.10	0.08	108	0.9	0.03	2.6	1.61	<0.1	0.04
1097212	Soil	4.2	14.6	0.36	84.2	0.001	8	0.85	0.008	0.06	<0.1	3.2	0.08	0.11	93	0.8	<0.02	2.3	1.15	<0.1	0.04
1097213	Soil	5.9	20.0	0.17	115.5	0.004	2	0.97	0.005	0.06	<0.1	3.2	0.16	0.07	56	0.4	0.03	2.6	3.45	<0.1	0.06
1097214	Soil	4.2	14.4	0.11	56.0	0.003	2	0.84	0.004	0.08	<0.1	1.2	0.13	0.04	24	0.3	0.04	3.3	3.47	<0.1	<0.02
1097215	Soil	6.2	23.2	0.23	63.7	0.007	2	1.40	0.005	0.07	<0.1	1.5	0.16	0.06	56	0.5	0.06	3.6	4.48	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1097136	Soil	0.08	9.2	0.9	<0.05	2.0	11.78	26.0	0.03	<1	0.8	6.7	<10	<2
1097137	Soil	0.03	4.5	1.4	<0.05	3.3	19.02	27.5	0.03	<1	1.1	15.1	<10	<2
1097138	Soil	0.12	6.1	0.7	<0.05	2.6	10.92	12.3	0.03	<1	1.0	28.0	<10	<2
1097139	Soil	0.06	10.3	1.4	<0.05	2.1	5.18	9.1	0.07	<1	1.1	39.6	<10	<2
1097140	Soil	0.13	7.3	2.1	<0.05	1.7	5.29	9.3	0.04	<1	1.1	17.2	<10	<2
1097141	Soil	0.16	6.1	1.4	<0.05	1.8	7.61	11.3	0.03	<1	0.8	23.2	<10	<2
1097142	Soil	0.09	8.7	2.4	<0.05	1.6	10.90	12.6	0.04	<1	1.5	39.3	<10	<2
1097143	Soil	0.20	9.7	1.0	<0.05	0.3	5.75	17.8	0.04	<1	0.9	19.8	<10	<2
1097144	Soil	0.18	12.5	2.1	<0.05	0.1	2.53	12.8	0.03	<1	0.4	9.2	<10	<2
1097145	Soil	0.19	10.8	1.3	<0.05	0.2	6.07	18.1	0.04	<1	1.0	19.9	<10	<2
1097146	Soil	0.24	12.5	1.1	<0.05	0.4	4.11	13.4	0.03	<1	1.0	19.7	<10	<2
1097147	Soil	0.09	10.8	1.4	<0.05	0.7	3.94	10.9	0.04	<1	0.8	12.8	<10	<2
1097148	Soil	0.33	7.7	2.1	<0.05	0.2	3.66	14.2	0.05	<1	0.5	12.9	<10	<2
1097149	Soil	0.05	8.8	4.6	<0.05	1.0	6.24	7.3	0.05	1	1.0	7.8	<10	<2
1097150	Soil	0.02	7.7	1.0	<0.05	0.4	3.54	6.3	0.04	<1	0.6	4.8	<10	<2
1097201	Soil	0.13	7.8	3.3	<0.05	1.2	7.87	11.1	0.04	1	1.3	39.1	<10	<2
1097202	Soil	0.05	5.1	2.0	<0.05	2.6	15.15	17.6	0.05	<1	1.1	19.3	<10	<2
1097203	Soil	0.28	11.7	3.3	<0.05	1.5	20.28	25.2	0.04	<1	1.4	38.5	<10	<2
1097204	Soil	0.24	12.6	2.1	<0.05	1.3	12.34	16.7	0.04	<1	1.5	46.0	<10	<2
1097205	Soil	0.14	6.2	2.6	<0.05	1.6	19.30	23.3	0.04	<1	1.0	28.1	<10	<2
1097206	Soil	0.30	10.7	1.1	<0.05	0.2	6.18	16.0	0.03	<1	0.7	44.9	<10	<2
1097207	Soil	0.15	7.6	7.3	<0.05	1.8	8.20	9.9	0.05	<1	1.1	46.5	<10	<2
1097208	Soil	0.13	6.9	1.4	<0.05	1.9	16.83	22.2	0.05	<1	1.0	30.1	<10	<2
1097209	Soil	0.35	9.4	4.7	<0.05	1.8	11.59	13.6	0.04	<1	1.0	53.2	<10	<2
1097210	Soil	0.25	12.3	2.0	<0.05	2.6	13.52	13.5	0.05	<1	1.2	62.9	<10	<2
1097211	Soil	0.20	8.1	2.2	<0.05	1.8	11.26	12.6	0.03	<1	0.8	32.3	<10	<2
1097212	Soil	0.16	6.2	1.4	<0.05	1.6	11.06	11.3	0.03	<1	0.9	27.5	<10	<2
1097213	Soil	0.24	8.0	9.8	<0.05	2.2	10.21	16.3	0.04	<1	0.9	19.6	<10	<2
1097214	Soil	0.10	11.2	2.4	<0.05	0.3	3.44	9.7	0.04	<1	0.4	9.9	<10	<2
1097215	Soil	0.30	9.4	9.0	<0.05	0.5	3.85	15.7	0.03	<1	0.7	17.7	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 26, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1097216	Soil			0.99	23.09	35.61	83.7	120	27.1	10.7	330	3.49	12.1	1.0	0.7	0.9	40.7	0.13	0.68	0.36	27	0.30	0.079
1097217	Soil			0.91	38.24	42.45	108.2	316	44.9	18.9	537	4.42	17.7	1.0	1.5	2.7	42.4	0.14	0.75	0.44	15	0.49	0.057
1097218	Soil			0.69	36.96	70.61	118.6	121	44.0	19.9	402	4.87	18.5	0.7	0.4	2.5	13.9	0.06	0.47	0.49	13	0.04	0.037
1097219	Soil			1.02	23.38	30.62	83.0	46	27.3	10.6	266	3.17	13.4	0.8	1.5	2.3	11.4	0.13	1.04	0.33	29	0.04	0.034
1097220	Soil			0.61	31.32	55.60	110.0	78	38.0	18.2	486	4.29	10.5	0.6	0.8	3.8	17.6	0.06	0.36	0.45	11	0.03	0.028
1097221	Soil			0.91	26.58	46.58	97.5	112	28.7	12.3	446	4.19	9.1	0.7	0.8	1.6	11.4	0.12	0.59	0.39	23	0.04	0.076
1097222	Soil			0.63	31.84	28.01	94.9	231	31.8	13.4	498	3.93	11.6	1.7	0.9	3.7	47.1	0.18	0.35	0.34	9	0.72	0.069
1097223	Soil			0.70	22.72	29.99	75.1	110	12.9	10.0	706	3.62	3.8	0.5	0.5	0.5	6.1	0.15	0.36	0.42	28	0.04	0.099
1097224	Soil			0.81	34.14	39.72	87.0	555	35.1	16.9	536	4.17	16.4	1.2	1.3	4.2	63.2	0.22	0.58	0.39	18	0.81	0.132
1097225	Soil			0.89	23.57	30.50	109.6	198	18.9	14.7	654	4.05	5.9	0.4	1.0	0.6	26.3	0.53	0.41	0.38	28	0.17	0.123
1097226	Soil			1.11	29.48	41.76	93.3	145	22.5	12.2	412	5.11	8.5	0.5	0.4	1.2	17.8	0.13	0.53	0.45	25	0.13	0.096
1097227	Soil			0.74	34.89	33.01	83.4	48	27.0	15.3	420	5.38	6.1	0.3	0.4	2.1	6.8	0.13	0.38	0.35	26	0.04	0.054
1097228	Soil			0.48	29.15	31.10	76.0	231	28.9	14.3	686	3.49	8.5	1.1	0.5	3.0	134.0	0.21	0.35	0.31	19	1.20	0.089
1097229	Soil			0.72	25.57	28.33	71.3	122	27.3	13.6	306	4.05	7.5	0.6	0.5	3.7	23.0	0.07	0.38	0.30	21	0.21	0.033
1096951	Soil			0.52	21.84	27.14	66.7	78	25.1	11.6	366	3.80	10.2	0.5	0.2	2.5	29.8	0.07	0.33	0.35	21	0.34	0.041
1096952	Soil			0.44	22.96	23.63	62.9	184	25.1	10.1	211	3.15	12.5	1.2	1.1	2.4	88.3	0.09	0.83	0.29	16	1.34	0.056
1096953	Soil			0.42	20.70	20.36	53.8	129	19.8	9.8	375	2.81	12.2	1.3	<0.2	1.4	107.4	0.17	0.86	0.27	16	2.29	0.078
1096954	Soil			0.86	22.00	21.69	61.8	55	19.1	8.7	298	3.50	8.8	0.4	0.4	2.3	13.2	0.06	0.55	0.40	30	0.10	0.024
1096955	Soil			0.64	31.43	28.05	82.3	24	23.3	11.1	314	4.32	11.7	0.4	4.0	2.6	10.4	0.08	0.70	0.55	21	0.07	0.029
1096956	Soil			0.57	21.29	24.07	68.5	138	19.7	10.0	261	2.85	7.6	1.6	3.0	2.2	92.0	0.21	0.37	0.41	18	0.71	0.070
1096957	Soil			0.55	23.61	26.67	73.5	64	22.9	12.4	435	3.27	8.8	1.0	3.0	4.3	90.5	0.16	0.40	0.50	17	1.03	0.038
1096958	Soil			0.39	27.21	21.76	93.8	153	22.0	10.4	358	2.82	8.5	1.2	3.3	1.8	210.5	0.16	0.43	0.36	15	2.03	0.071
1096959	Soil			0.40	32.52	22.58	82.4	120	30.1	10.7	238	3.25	10.3	0.6	2.6	3.4	245.4	0.09	0.46	0.36	17	3.52	0.055
1097269	Soil			0.47	19.62	13.85	64.9	256	19.1	8.9	258	2.01	9.5	5.1	6.4	3.0	314.8	0.21	0.40	0.21	19	5.02	0.093
1097270	Soil			0.46	23.31	14.68	73.6	132	21.4	10.2	390	2.32	8.9	1.9	3.8	1.7	108.2	0.16	0.61	0.27	21	1.91	0.075
1097271	Soil			0.78	20.08	20.09	69.1	24	24.3	11.8	521	3.58	15.3	0.9	1.7	3.1	20.0	0.12	0.53	0.31	30	0.23	0.022
1097272	Soil			1.01	18.54	13.22	60.7	74	14.0	6.7	345	2.04	8.9	1.2	2.7	0.9	59.2	0.40	0.42	0.27	34	1.09	0.098
1097273	Soil			0.79	21.03	22.76	60.3	152	18.3	12.4	1301	2.46	9.1	3.3	2.2	1.8	76.8	0.27	0.50	0.25	35	1.31	0.100
1097274	Soil			0.55	20.18	21.92	76.7	147	25.8	10.1	644	3.20	12.8	3.2	3.3	4.1	44.8	0.86	0.52	0.22	20	0.60	0.094
1097275	Soil			1.18	16.71	22.37	75.3	56	27.7	14.1	298	4.32	13.7	1.5	2.1	3.0	28.8	0.29	0.65	0.44	48	0.26	0.092



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097216	Soil	7.5	16.9	0.15	111.9	0.003	1	0.97	0.003	0.05	<0.1	2.0	0.12	0.03	30	0.3	0.05	2.6	2.19	<0.1	<0.02
1097217	Soil	8.6	11.5	0.11	121.5	0.002	3	0.56	0.003	0.07	<0.1	5.2	0.20	0.03	484	0.4	0.06	1.4	2.24	<0.1	0.04
1097218	Soil	4.8	10.0	0.04	89.0	0.001	2	0.30	0.002	0.07	<0.1	3.5	0.23	<0.02	56	0.4	0.07	1.3	4.12	<0.1	<0.02
1097219	Soil	10.0	18.9	0.27	64.6	0.007	1	1.23	0.001	0.05	0.1	1.9	0.13	<0.02	63	0.3	0.04	3.3	2.82	<0.1	<0.02
1097220	Soil	2.9	11.8	0.15	85.1	0.001	1	0.78	0.003	0.08	<0.1	3.8	0.15	<0.02	124	0.2	0.04	1.7	4.69	<0.1	<0.02
1097221	Soil	5.3	18.9	0.22	77.4	0.003	2	1.41	0.002	0.08	<0.1	1.8	0.19	0.05	74	0.4	0.04	3.2	4.45	<0.1	<0.02
1097222	Soil	9.6	9.5	0.16	58.2	0.001	2	0.69	0.004	0.07	<0.1	5.5	0.12	0.05	64	0.5	0.05	1.7	1.31	<0.1	0.07
1097223	Soil	2.6	21.8	0.17	69.8	0.003	1	1.20	0.002	0.09	<0.1	0.8	0.09	0.07	39	0.3	0.05	5.3	4.20	<0.1	<0.02
1097224	Soil	10.0	21.7	0.35	114.7	0.002	2	1.43	0.002	0.09	<0.1	6.7	0.15	0.07	165	0.5	0.06	3.6	2.92	<0.1	0.06
1097225	Soil	2.8	21.1	0.19	130.9	0.003	1	1.17	0.002	0.12	<0.1	1.0	0.07	0.05	22	0.2	0.04	4.9	2.48	<0.1	<0.02
1097226	Soil	2.7	24.0	0.26	71.8	0.003	2	1.33	0.002	0.10	<0.1	2.1	0.10	0.04	30	0.3	0.06	4.5	4.47	<0.1	<0.02
1097227	Soil	2.6	25.0	0.32	65.4	0.003	2	1.55	0.001	0.08	<0.1	3.3	0.09	0.02	23	0.2	<0.02	5.5	3.37	<0.1	<0.02
1097228	Soil	13.3	20.6	0.28	149.1	0.003	2	1.41	0.003	0.08	<0.1	7.1	0.11	0.06	57	0.4	0.03	3.6	1.69	<0.1	0.03
1097229	Soil	4.8	21.3	0.37	87.9	0.002	2	1.41	0.002	0.08	<0.1	4.0	0.08	0.02	43	0.2	0.05	3.9	1.48	<0.1	0.03
1096951	Soil	2.5	16.2	0.19	123.9	<0.001	1	1.16	0.002	0.09	<0.1	2.8	0.09	0.02	23	0.2	0.06	3.4	1.54	<0.1	0.03
1096952	Soil	6.1	16.0	0.22	79.5	0.001	3	1.03	0.005	0.07	<0.1	4.3	0.09	0.05	169	0.2	0.03	2.8	1.47	<0.1	0.02
1096953	Soil	8.4	13.3	0.12	84.1	0.002	4	0.89	0.007	0.07	<0.1	3.0	0.10	0.10	534	0.4	0.03	2.5	2.16	<0.1	0.03
1096954	Soil	5.8	18.6	0.23	85.9	0.005	2	1.07	0.003	0.10	<0.1	2.0	0.07	<0.02	27	0.2	0.02	4.7	1.69	<0.1	<0.02
1096955	Soil	4.2	20.0	0.33	57.3	0.002	3	1.15	0.004	0.10	<0.1	2.2	0.09	<0.02	46	<0.1	0.05	4.4	1.64	<0.1	0.02
1096956	Soil	8.3	18.1	0.26	124.8	0.002	3	1.03	0.009	0.08	<0.1	4.1	0.10	0.09	90	0.5	0.03	3.1	1.28	<0.1	0.06
1096957	Soil	5.7	18.5	0.36	88.0	0.001	4	1.10	0.008	0.08	<0.1	3.9	0.10	0.06	73	0.3	0.04	3.2	1.99	<0.1	0.07
1096958	Soil	5.0	16.2	0.39	116.2	0.002	5	1.03	0.008	0.07	<0.1	2.8	0.11	0.09	115	0.4	0.03	2.9	1.12	<0.1	0.04
1096959	Soil	4.9	19.4	0.51	73.0	0.003	5	1.14	0.008	0.09	<0.1	3.8	0.10	0.04	96	0.3	0.04	3.5	1.76	<0.1	0.07
1097269	Soil	13.4	18.7	1.04	141.7	0.005	5	1.05	0.007	0.10	<0.1	2.9	0.10	0.04	140	0.7	<0.02	2.8	1.44	<0.1	0.06
1097270	Soil	11.0	23.0	0.64	163.8	0.004	5	1.24	0.008	0.07	<0.1	3.6	0.10	0.08	210	0.7	0.03	3.5	1.83	<0.1	0.08
1097271	Soil	8.3	23.4	0.44	130.9	0.004	3	1.44	0.004	0.07	<0.1	2.1	0.12	<0.02	186	0.3	0.05	4.4	2.06	<0.1	0.02
1097272	Soil	15.3	30.1	0.46	198.2	0.009	3	1.03	0.007	0.06	<0.1	2.0	0.14	0.08	117	0.6	0.05	4.8	4.85	<0.1	<0.02
1097273	Soil	13.8	27.3	0.44	458.4	0.009	2	1.28	0.008	0.05	0.1	3.7	0.14	0.06	136	0.7	0.02	4.4	1.87	<0.1	0.03
1097274	Soil	20.2	21.9	0.38	230.6	0.002	3	1.55	0.006	0.06	<0.1	4.6	0.10	0.03	230	0.3	0.02	2.7	1.36	<0.1	0.05
1097275	Soil	9.9	35.2	0.49	192.0	0.009	4	2.83	0.007	0.09	0.1	3.3	0.17	0.04	71	0.3	0.07	6.4	2.32	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 26, 2011

Page: 9 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1097216	Soil	0.13	8.7	1.7	<0.05	0.3	12.06	25.0	0.03	<1	0.7	10.4	<10	<2
1097217	Soil	0.10	6.5	2.3	<0.05	1.6	15.77	20.9	0.05	<1	0.9	5.5	<10	<2
1097218	Soil	0.03	6.9	1.5	<0.05	0.1	6.02	11.1	0.05	<1	1.1	2.0	<10	3
1097219	Soil	0.29	8.1	1.4	<0.05	0.3	3.97	22.4	0.03	<1	0.5	14.2	<10	<2
1097220	Soil	0.03	6.3	2.6	<0.05	1.6	6.42	7.7	0.05	<1	0.9	18.2	<10	<2
1097221	Soil	0.26	10.5	2.3	<0.05	0.5	3.50	13.2	0.05	<1	1.0	24.4	<10	<2
1097222	Soil	0.09	5.4	0.9	<0.05	2.4	21.43	28.1	0.05	<1	1.0	13.2	<10	<2
1097223	Soil	0.31	14.1	2.7	<0.05	0.7	2.21	5.6	0.04	<1	0.5	13.5	<10	<2
1097224	Soil	0.19	8.0	2.4	<0.05	1.9	28.66	33.4	0.06	<1	1.4	34.0	<10	<2
1097225	Soil	0.52	14.8	1.6	<0.05	0.2	2.55	7.1	0.03	<1	0.7	19.9	<10	<2
1097226	Soil	0.26	12.4	1.3	<0.05	0.4	3.35	9.5	0.04	<1	0.8	29.8	<10	<2
1097227	Soil	0.24	9.7	2.9	<0.05	0.8	3.02	7.1	0.04	<1	0.8	38.5	<10	<2
1097228	Soil	0.26	9.9	1.0	<0.05	1.2	28.40	34.5	0.04	<1	1.3	29.8	<10	<2
1097229	Soil	0.21	7.0	1.0	<0.05	1.2	7.60	13.4	0.04	<1	0.9	34.9	<10	<2
1096951	Soil	0.14	10.6	0.8	<0.05	1.3	3.55	7.7	0.04	<1	0.7	25.0	<10	<2
1096952	Soil	0.17	7.5	0.9	<0.05	1.1	13.87	15.5	0.04	<1	0.9	21.8	<10	<2
1096953	Soil	0.31	9.5	0.6	<0.05	1.1	14.45	25.0	0.04	<1	0.8	14.6	<10	<2
1096954	Soil	0.32	13.5	1.4	<0.05	0.4	2.43	12.4	0.02	<1	0.4	23.6	<10	<2
1096955	Soil	0.16	11.2	0.7	<0.05	0.8	2.63	9.5	0.07	<1	0.6	31.6	<10	<2
1096956	Soil	0.41	11.9	0.8	<0.05	1.7	15.02	19.1	0.05	<1	0.8	19.1	<10	<2
1096957	Soil	0.26	12.8	1.1	<0.05	2.8	8.94	18.3	0.04	<1	0.9	33.0	<10	<2
1096958	Soil	0.26	8.7	0.7	<0.05	1.8	9.61	12.1	0.04	<1	1.0	28.0	<10	<2
1096959	Soil	0.25	7.6	1.0	<0.05	2.6	8.81	12.3	0.04	1	0.9	37.4	<10	<2
1097269	Soil	0.28	7.2	1.1	<0.05	3.1	9.07	27.8	0.03	<1	0.7	30.4	<10	<2
1097270	Soil	0.37	6.3	0.6	<0.05	2.7	9.79	24.5	0.03	<1	0.8	28.9	<10	<2
1097271	Soil	0.25	10.9	0.8	<0.05	1.4	2.99	21.8	0.04	<1	0.7	39.1	<10	<2
1097272	Soil	0.62	13.1	1.1	<0.05	0.5	7.30	31.0	0.02	1	0.5	23.0	<10	<2
1097273	Soil	0.66	9.3	2.6	<0.05	1.2	11.29	36.9	0.04	<1	0.8	21.2	<10	<2
1097274	Soil	0.25	8.8	0.7	<0.05	1.7	15.64	69.8	0.04	<1	1.4	30.7	<10	<2
1097275	Soil	1.15	13.5	1.0	<0.05	1.9	6.67	25.7	0.05	<1	1.0	60.8	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1097276	Soil			0.93	26.88	20.85	88.7	462	25.5	8.9	201	2.62	16.8	9.5	8.9	3.7	145.7	0.31	0.52	0.24	32	1.79	0.084
1097278	Soil			1.10	19.96	20.04	56.8	43	20.0	9.0	237	3.09	14.8	0.9	1.4	2.9	21.3	0.10	0.92	0.30	31	0.16	0.027
1097279	Soil			0.56	17.38	15.51	69.2	221	19.3	8.4	232	2.63	13.0	2.5	3.2	3.5	61.5	0.14	0.51	0.21	28	0.81	0.057
1097089	Soil			0.58	51.55	38.06	123.0	307	38.4	18.0	374	3.87	19.8	1.2	2.2	2.7	128.4	0.13	0.52	0.40	21	1.45	0.069
1097090	Soil			0.46	30.13	20.73	74.9	164	24.9	10.8	270	2.72	12.5	1.9	1.9	2.0	106.6	0.12	0.43	0.26	19	1.49	0.060
1097091	Soil			0.43	32.12	21.48	80.4	185	25.2	11.2	249	2.71	9.9	1.2	2.3	2.4	185.5	0.10	0.35	0.28	17	1.57	0.063
1097092	Soil			0.51	28.11	28.51	81.6	39	26.2	13.9	400	4.09	10.5	0.5	0.9	3.2	13.5	0.06	0.34	0.40	27	0.09	0.033
1097093	Soil			0.33	25.05	19.81	77.6	117	25.2	10.6	408	2.61	8.9	1.2	2.0	2.2	84.1	0.11	0.25	0.26	17	1.25	0.057
1097094	Soil			0.43	24.75	20.46	76.7	110	27.9	10.9	241	3.21	12.5	1.0	1.1	4.2	55.9	0.09	0.32	0.30	19	0.70	0.040
1097095	Soil			0.50	26.98	21.34	74.2	135	24.3	11.7	670	2.77	12.7	1.7	3.0	2.1	126.8	0.18	0.44	0.27	18	1.41	0.054
1097096	Soil			0.60	35.30	24.47	84.1	126	31.4	13.8	437	3.46	17.3	1.1	2.0	4.7	121.6	0.17	0.56	0.33	18	2.09	0.068
1097097	Soil			0.50	29.24	26.01	89.9	107	27.9	14.7	549	3.32	13.0	1.2	1.9	4.3	59.1	0.14	0.40	0.33	17	0.75	0.047
1097098	Soil			0.45	25.89	19.95	72.9	123	25.8	10.3	318	3.13	14.2	1.9	1.6	3.5	70.2	0.15	0.40	0.28	18	0.89	0.064
1097099	Soil			0.51	34.71	27.15	85.2	125	32.2	15.9	539	3.44	14.1	0.7	1.2	4.5	67.2	0.10	0.45	0.34	18	0.91	0.057
1097100	Soil			0.45	29.91	21.59	79.9	152	27.9	11.6	474	2.83	10.8	1.4	1.6	2.4	73.8	0.15	0.31	0.30	19	1.00	0.058
1097101	Soil			0.57	37.55	27.27	98.2	172	35.0	16.0	598	3.80	13.5	1.1	1.7	4.5	58.7	0.11	0.42	0.36	23	0.68	0.061
1097102	Soil			0.61	34.96	19.63	94.4	117	35.8	13.4	532	3.43	14.7	1.3	1.3	3.9	63.1	0.14	0.47	0.34	20	0.77	0.063
1097103	Soil			0.61	37.69	20.72	86.3	152	30.8	11.7	380	2.87	14.4	1.4	2.5	3.0	95.2	0.22	0.49	0.28	24	1.18	0.079
1097104	Soil			0.65	30.40	20.42	80.1	138	27.0	12.1	386	2.75	15.3	1.5	3.2	3.2	146.0	0.21	0.51	0.25	19	2.11	0.077
1096400	Soil			0.53	26.19	35.68	122.2	25	29.2	12.7	489	3.92	12.4	0.7	1.3	3.7	9.8	0.13	0.47	0.43	17	0.03	0.034
1096401	Soil			0.96	23.61	48.11	108.1	77	31.3	13.5	469	5.02	11.0	1.1	0.8	2.7	11.6	0.24	0.67	0.47	34	0.08	0.083
1096402	Soil			1.07	25.36	33.76	90.2	73	32.5	12.1	839	4.10	11.2	1.3	1.9	1.8	10.2	0.27	0.80	0.37	33	0.06	0.078
1096403	Soil			0.85	50.28	76.63	199.8	509	67.5	18.7	666	5.18	7.3	1.4	0.5	5.3	20.6	0.35	0.28	0.48	11	0.17	0.025
1096404	Soil			0.69	44.36	47.92	138.0	296	47.5	20.0	413	4.85	13.1	0.8	0.9	3.8	103.9	0.14	0.45	0.54	9	1.64	0.069
1096405	Soil			1.00	65.98	41.89	148.0	273	53.1	21.4	421	4.22	57.9	0.7	3.2	2.7	79.4	0.14	9.28	0.60	11	0.82	0.050
1096406	Soil			0.62	32.01	58.05	90.7	296	27.8	19.1	815	3.66	6.1	0.5	1.2	1.8	16.4	0.13	0.58	0.40	11	0.09	0.079
1096407	Soil			1.44	42.47	56.64	118.8	405	42.9	23.7	810	4.73	14.3	1.0	1.9	3.8	44.1	0.15	0.76	0.41	13	0.60	0.068
1096408	Soil			1.23	41.24	95.88	123.3	301	37.7	48.7	3117	5.46	9.6	1.7	0.6	3.4	22.2	0.14	0.81	0.40	25	0.04	0.076
1096409	Soil			0.78	44.87	26.99	108.1	228	36.0	17.4	577	4.36	9.3	1.1	0.8	4.7	83.3	0.15	0.42	0.35	17	1.60	0.125
1096410	Soil			0.47	35.80	22.71	76.5	122	27.9	14.8	534	4.27	6.8	0.9	0.6	4.5	31.4	0.09	0.28	0.32	18	0.58	0.071



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097276	Soil	22.9	34.1	1.10	150.7	0.007	8	1.44	0.007	0.15	<0.1	4.2	0.19	0.06	244	1.1	<0.02	4.5	2.00	<0.1	0.10
1097278	Soil	7.6	20.2	0.28	128.7	0.002	2	1.50	0.004	0.07	<0.1	2.1	0.12	<0.02	74	0.3	0.05	4.8	1.30	<0.1	<0.02
1097279	Soil	24.2	28.9	0.73	137.5	0.003	3	1.40	0.005	0.07	<0.1	5.1	0.13	0.04	149	0.8	0.02	3.9	1.17	<0.1	0.05
1097089	Soil	10.5	27.0	0.60	113.4	0.005	6	1.47	0.007	0.08	<0.1	6.3	0.11	0.06	160	0.5	0.07	4.5	5.90	<0.1	0.05
1097090	Soil	10.4	20.8	0.40	99.9	0.004	3	1.17	0.006	0.07	<0.1	3.7	0.08	0.06	193	0.5	0.04	3.4	2.58	<0.1	0.08
1097091	Soil	8.2	20.4	0.46	137.4	0.003	6	1.15	0.006	0.08	<0.1	4.4	0.11	0.06	179	0.5	0.03	3.4	2.40	<0.1	0.09
1097092	Soil	5.2	28.2	0.42	64.8	0.002	3	1.70	0.004	0.08	<0.1	2.8	0.10	0.02	28	0.2	0.06	5.8	3.20	<0.1	0.04
1097093	Soil	6.8	22.9	0.47	81.1	0.003	4	1.30	0.005	0.08	<0.1	3.8	0.06	0.05	120	0.4	0.04	3.9	1.33	<0.1	0.06
1097094	Soil	8.8	24.3	0.50	75.3	0.003	4	1.41	0.005	0.09	<0.1	5.1	0.07	0.03	180	0.2	0.05	3.9	1.50	<0.1	0.06
1097095	Soil	9.0	19.3	0.44	94.2	0.003	5	1.16	0.006	0.08	<0.1	4.0	0.09	0.05	258	0.6	0.03	3.2	1.24	<0.1	0.06
1097096	Soil	9.6	20.9	0.63	64.9	0.004	4	1.22	0.006	0.10	<0.1	4.7	0.09	0.02	257	0.4	0.03	3.3	2.06	<0.1	0.08
1097097	Soil	7.0	21.4	0.44	80.4	0.002	4	1.36	0.005	0.12	<0.1	4.4	0.09	0.03	95	0.2	0.06	3.6	1.64	<0.1	0.10
1097098	Soil	10.7	20.5	0.42	74.4	0.003	4	1.28	0.005	0.10	<0.1	4.2	0.07	0.03	170	0.2	0.05	3.3	1.47	<0.1	0.07
1097099	Soil	7.1	22.7	0.51	87.8	0.002	5	1.39	0.005	0.12	<0.1	4.8	0.09	0.02	107	0.3	0.04	3.7	1.84	<0.1	0.07
1097100	Soil	9.1	24.5	0.48	90.4	0.004	4	1.37	0.005	0.08	<0.1	4.6	0.08	0.04	96	0.4	0.05	4.1	1.87	<0.1	0.04
1097101	Soil	8.8	27.3	0.62	117.9	0.004	4	1.67	0.007	0.12	<0.1	5.3	0.09	0.02	74	0.4	0.04	4.9	2.47	<0.1	0.09
1097102	Soil	8.1	24.6	0.57	90.8	0.005	4	1.45	0.006	0.08	<0.1	4.6	0.07	0.02	148	0.3	0.05	4.3	2.58	<0.1	0.09
1097103	Soil	14.4	24.4	0.58	91.4	0.009	5	1.28	0.008	0.08	<0.1	3.9	0.09	0.04	153	0.4	<0.02	3.7	1.78	<0.1	0.05
1097104	Soil	11.5	20.8	0.72	79.1	0.006	6	1.04	0.007	0.08	<0.1	4.3	0.10	0.05	564	0.6	0.04	2.9	1.90	<0.1	0.11
1096400	Soil	6.1	16.9	0.21	69.3	0.001	3	1.14	0.003	0.10	<0.1	2.7	0.16	<0.02	108	0.3	0.04	2.9	1.91	<0.1	0.05
1096401	Soil	11.4	22.1	0.19	93.2	0.006	2	1.70	0.005	0.07	<0.1	3.2	0.27	0.04	124	0.4	0.04	3.4	2.65	<0.1	<0.02
1096402	Soil	12.2	24.8	0.25	86.5	0.009	2	1.67	0.005	0.07	<0.1	2.7	0.17	0.04	66	0.4	0.04	4.0	3.57	<0.1	<0.02
1096403	Soil	3.8	16.1	0.12	103.1	<0.001	2	1.25	0.004	0.08	<0.1	6.3	0.34	0.03	127	0.5	0.03	2.2	4.91	<0.1	0.04
1096404	Soil	4.7	7.4	0.06	93.8	0.003	4	0.39	0.005	0.08	<0.1	4.9	0.20	0.04	126	0.4	0.05	0.9	1.90	<0.1	0.03
1096405	Soil	3.0	7.8	0.05	90.9	<0.001	2	0.35	0.003	0.06	<0.1	5.7	0.16	0.02	1887	0.2	0.07	0.8	2.05	<0.1	0.05
1096406	Soil	3.0	12.1	0.13	66.6	0.001	2	0.80	0.003	0.08	<0.1	2.5	0.11	0.06	125	0.3	0.04	1.8	7.76	<0.1	<0.02
1096407	Soil	5.4	18.1	0.30	84.4	0.002	4	0.89	0.003	0.08	<0.1	6.3	0.14	0.04	72	0.5	0.04	2.5	3.65	<0.1	0.11
1096408	Soil	4.5	23.6	0.39	78.7	0.004	2	1.56	0.002	0.08	<0.1	6.0	0.21	0.04	67	0.4	0.03	3.9	8.83	<0.1	0.03
1096409	Soil	6.4	16.6	0.28	96.7	0.001	12	0.87	0.003	0.09	<0.1	7.0	0.13	0.05	71	0.5	0.03	2.4	1.87	<0.1	0.08
1096410	Soil	6.2	15.7	0.27	61.3	0.001	2	1.02	0.003	0.06	<0.1	6.5	0.09	0.03	23	0.3	0.04	2.7	1.03	<0.1	0.04



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 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 10 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1097276	Soil			0.40	12.0	0.9	<0.05	4.0	12.74	39.1	0.04	<1	1.1	52.9	<10	<2
1097278	Soil			0.27	11.6	3.2	<0.05	1.4	3.35	20.2	0.04	<1	0.7	25.5	<10	<2
1097279	Soil			0.31	10.2	0.7	<0.05	1.9	13.45	41.6	0.04	<1	0.9	37.3	<10	<2
1097089	Soil			0.38	8.8	2.7	<0.05	2.6	19.61	22.0	0.04	<1	1.3	46.5	<10	2
1097090	Soil			0.40	7.6	1.2	<0.05	2.5	13.28	21.8	0.03	<1	0.9	31.9	<10	<2
1097091	Soil			0.31	7.7	1.9	<0.05	2.8	12.37	17.1	0.04	<1	0.9	33.0	<10	<2
1097092	Soil			0.25	11.3	1.1	<0.05	2.0	4.36	15.6	0.04	<1	0.9	49.2	<10	<2
1097093	Soil			0.27	6.1	4.8	<0.05	2.4	9.44	15.8	0.03	<1	0.8	42.4	<10	<2
1097094	Soil			0.23	7.6	1.2	<0.05	3.5	11.15	19.3	0.04	<1	1.0	43.9	<10	<2
1097095	Soil			0.26	7.0	1.7	<0.05	2.0	10.97	23.4	0.04	<1	0.9	34.6	<10	<2
1097096	Soil			0.17	6.6	1.2	<0.05	3.7	11.95	20.4	0.03	<1	1.0	36.0	<10	<2
1097097	Soil			0.17	9.0	1.9	<0.05	4.3	9.94	19.8	0.04	<1	1.0	42.3	<10	<2
1097098	Soil			0.20	7.7	0.7	<0.05	2.4	12.32	22.2	0.04	<1	1.0	36.9	<10	<2
1097099	Soil			0.13	8.1	2.5	<0.05	3.8	11.68	16.9	0.04	<1	1.0	44.2	<10	<2
1097100	Soil			0.28	7.5	1.1	<0.05	1.8	14.07	21.7	0.04	<1	0.9	43.7	<10	<2
1097101	Soil			0.25	8.1	1.6	<0.05	4.1	12.82	19.7	0.04	<1	1.1	54.1	<10	<2
1097102	Soil			0.25	6.8	1.8	<0.05	3.3	10.78	19.3	0.03	<1	1.1	50.8	<10	<2
1097103	Soil			0.40	6.9	1.9	<0.05	2.3	12.43	30.1	0.03	<1	0.9	36.1	<10	<2
1097104	Soil			0.26	6.4	1.7	<0.05	2.6	12.36	24.8	<0.02	<1	0.9	31.1	<10	<2
1096400	Soil			0.15	12.3	1.2	<0.05	1.8	4.43	17.5	0.05	<1	0.8	19.4	<10	<2
1096401	Soil			0.45	11.8	4.7	<0.05	0.8	12.90	66.0	0.06	<1	1.1	15.1	<10	<2
1096402	Soil			0.38	12.8	1.0	<0.05	0.6	9.32	35.6	0.04	<1	1.2	21.8	<10	<2
1096403	Soil			0.04	7.6	26.0	<0.05	2.9	12.54	12.2	0.07	<1	1.8	22.5	<10	<2
1096404	Soil			0.04	5.7	2.2	<0.05	1.9	12.46	13.8	0.05	<1	1.1	4.3	<10	<2
1096405	Soil			0.05	4.8	0.9	<0.05	1.8	11.98	9.5	0.06	1	1.0	7.8	<10	<2
1096406	Soil			0.09	7.9	1.7	<0.05	0.7	7.39	9.3	0.04	<1	0.9	16.0	<10	<2
1096407	Soil			0.08	6.9	6.2	<0.05	3.1	19.37	15.1	0.05	1	1.0	29.1	<10	<2
1096408	Soil			0.14	10.9	2.5	<0.05	1.2	11.38	15.0	0.05	<1	1.6	47.2	<10	<2
1096409	Soil			0.08	6.9	1.6	<0.05	2.3	18.30	20.6	0.04	<1	1.1	24.8	<10	<2
1096410	Soil			0.09	8.4	0.8	<0.05	1.5	14.56	21.9	0.05	<1	1.1	24.0	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1096411	Soil	0.54	21.19	17.56	50.4	195	20.6	9.7	246	2.62	5.6	0.9	0.5	2.6	60.1	0.08	0.25	0.28	24	0.77	0.114
1096412	Soil	0.50	16.72	14.47	49.8	100	18.2	8.9	192	2.81	6.3	0.6	<0.2	2.4	38.2	0.10	0.26	0.26	21	0.39	0.055
1096413	Soil	1.07	37.94	32.56	92.6	348	34.0	16.3	419	4.06	10.9	1.0	0.7	4.8	92.2	0.20	0.50	0.37	17	1.21	0.083
1096414	Soil	0.65	27.05	31.06	69.3	259	28.6	15.6	400	3.41	8.3	1.0	0.8	3.2	109.2	0.13	0.40	0.30	14	1.81	0.061
1096415	Soil	0.44	29.55	27.59	67.2	255	28.4	13.3	296	3.03	7.1	0.8	1.0	2.6	122.2	0.09	0.33	0.29	14	2.11	0.066
1096416	Soil	0.54	23.21	32.14	83.3	66	24.8	10.6	432	3.35	8.4	0.7	0.2	2.5	11.5	0.08	0.38	0.33	18	0.06	0.046
1096417	Soil	0.66	20.99	32.47	92.9	84	27.3	9.9	524	3.83	8.9	1.1	<0.2	3.0	16.1	0.12	0.46	0.34	26	0.14	0.078
1096418	Soil	0.60	17.16	30.00	83.3	51	22.2	9.1	617	4.15	8.0	1.3	<0.2	2.7	16.8	0.11	0.39	0.34	30	0.17	0.090
1096419	Soil	0.62	18.80	24.59	83.8	46	20.5	9.1	382	3.13	7.0	0.9	<0.2	1.4	14.7	0.07	0.43	0.34	20	0.06	0.086
1096420	Soil	0.73	20.12	28.76	96.7	49	20.6	8.8	522	3.77	9.4	0.8	0.4	1.5	8.6	0.15	0.58	0.32	30	0.04	0.076
1096421	Soil	1.10	18.01	24.39	78.5	39	20.7	8.2	273	3.35	9.6	0.7	<0.2	1.1	11.0	0.15	0.74	0.34	37	0.05	0.048
1096422	Soil	0.63	42.06	44.13	138.1	293	45.9	19.0	364	4.96	8.4	0.8	<0.2	5.8	251.0	0.12	0.40	0.56	7	4.73	0.035
1096423	Soil	0.73	46.22	66.43	117.5	165	59.6	25.0	809	7.07	23.6	1.0	<0.2	2.8	52.6	0.06	0.62	0.40	15	0.31	0.100
1096424	Soil	0.65	39.60	72.81	110.1	251	42.1	34.6	1710	4.22	5.5	0.6	<0.2	4.5	14.8	0.13	0.54	0.39	11	0.05	0.051
1096425	Soil	1.04	60.95	33.32	134.9	414	47.0	21.9	600	4.94	14.9	2.2	1.6	5.7	103.0	0.24	0.45	0.47	17	2.21	0.161
1096426	Soil	0.82	37.60	31.59	98.2	296	33.0	15.8	414	4.16	9.0	1.2	0.4	2.7	108.8	0.15	0.49	0.35	17	1.16	0.105
1096427	Soil	1.10	27.80	54.96	103.6	208	25.6	20.3	1349	4.48	6.7	0.9	0.2	2.1	10.9	0.14	0.64	0.35	34	0.03	0.064
1096428	Soil	0.82	20.47	26.05	60.1	128	20.6	14.0	627	4.35	10.6	0.9	<0.2	3.6	32.4	0.10	0.36	0.29	31	0.40	0.095
1096429	Soil	0.54	40.98	20.24	72.1	235	28.9	14.2	660	3.60	14.8	2.5	<0.2	1.7	106.4	0.44	0.97	0.28	19	2.03	0.154
1096430	Soil	0.71	30.96	45.59	130.9	182	19.8	30.3	2179	5.01	8.1	0.9	<0.2	1.6	26.1	0.63	0.44	0.33	32	0.12	0.180
1096431	Soil	0.73	23.45	24.03	63.7	142	21.4	14.2	525	3.94	7.0	0.7	<0.2	3.5	26.5	0.14	0.27	0.35	23	0.22	0.110
1096432	Soil	0.71	20.64	26.26	69.5	176	20.6	11.5	367	3.80	7.3	1.0	0.7	2.2	24.8	0.11	0.38	0.30	28	0.18	0.109
1096433	Soil	0.53	22.60	16.10	62.4	148	24.9	9.5	231	3.07	5.5	1.2	<0.2	4.2	74.6	0.08	0.33	0.25	21	0.41	0.052
1096434	Soil	0.43	23.37	19.72	54.9	211	19.5	9.8	336	2.19	3.7	1.0	<0.2	2.0	231.2	0.11	0.31	0.25	13	2.26	0.081
1096435	Soil	0.46	27.67	24.31	70.8	226	26.9	11.7	368	2.91	6.6	1.0	0.4	3.5	137.9	0.12	0.33	0.29	15	1.78	0.071
1096436	Soil	0.53	20.31	30.41	67.0	220	26.2	15.2	513	3.54	7.6	1.0	0.5	4.8	72.7	0.13	0.32	0.29	18	1.29	0.048
1096101	Soil	0.67	34.73	25.15	101.0	79	31.1	11.6	356	2.92	6.2	1.0	1.8	6.1	44.1	0.21	0.37	0.22	24	0.85	0.070
1096102	Soil	0.34	23.24	14.72	78.4	95	22.9	8.5	218	2.10	7.3	1.7	2.3	4.2	53.1	0.18	0.49	0.18	19	1.12	0.070
1096103	Soil	0.40	22.92	14.43	55.4	135	19.6	6.8	177	1.97	8.9	3.2	1.8	1.9	133.3	0.10	0.56	0.18	16	2.03	0.074
1096104	Soil	0.39	21.62	18.45	87.6	189	21.3	9.9	329	2.35	10.4	2.0	4.1	3.4	80.5	0.38	0.82	0.21	19	1.20	0.067



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1096411	Soil	6.6	22.6	0.38	127.7	0.003	2	1.44	0.003	0.12	<0.1	3.2	0.09	0.07	45	0.2	0.02	4.2	1.35	<0.1	0.04
1096412	Soil	3.4	20.4	0.29	88.0	0.001	3	1.34	0.002	0.08	<0.1	2.9	0.10	0.04	22	0.2	0.03	3.7	1.14	<0.1	0.03
1096413	Soil	7.0	20.7	0.31	102.0	0.001	4	1.31	0.003	0.08	<0.1	7.6	0.14	0.06	80	0.5	0.07	3.2	2.78	<0.1	0.04
1096414	Soil	7.1	17.9	0.32	91.1	0.001	3	1.01	0.003	0.07	<0.1	5.4	0.09	0.08	69	0.6	0.04	2.6	1.59	<0.1	0.05
1096415	Soil	6.5	16.4	0.33	119.3	0.001	5	0.96	0.003	0.06	<0.1	4.7	0.09	0.09	87	0.6	0.04	2.6	1.37	<0.1	0.06
1096416	Soil	7.2	14.1	0.14	93.6	0.002	2	1.16	0.002	0.08	<0.1	2.9	0.15	0.03	35	0.3	0.05	2.3	2.62	<0.1	0.03
1096417	Soil	10.8	18.9	0.18	128.2	0.002	2	1.64	0.001	0.06	<0.1	3.8	0.19	0.03	33	0.4	0.02	3.1	2.41	<0.1	0.03
1096418	Soil	13.3	19.8	0.20	127.8	0.002	2	1.61	0.002	0.06	<0.1	4.0	0.18	0.04	43	0.3	0.03	3.2	2.36	<0.1	0.06
1096419	Soil	6.2	14.6	0.10	91.1	0.002	1	1.13	0.002	0.07	<0.1	2.0	0.17	0.06	31	0.2	0.03	2.6	2.09	<0.1	0.04
1096420	Soil	7.5	20.4	0.19	74.0	0.005	2	1.56	<0.001	0.07	0.1	1.8	0.16	0.05	31	0.3	0.04	4.0	1.89	<0.1	0.03
1096421	Soil	9.3	21.3	0.27	55.9	0.012	2	1.34	0.002	0.07	0.1	1.6	0.14	0.04	29	0.4	<0.02	3.8	2.52	<0.1	<0.02
1096422	Soil	3.8	6.1	0.06	80.0	<0.001	3	0.30	0.004	0.09	<0.1	6.0	0.29	0.03	136	0.5	0.03	0.7	1.84	<0.1	0.05
1096423	Soil	5.0	12.7	0.19	79.7	<0.001	2	0.95	0.002	0.07	<0.1	5.7	0.16	<0.02	94	0.4	0.06	1.7	4.68	<0.1	0.03
1096424	Soil	4.0	13.6	0.16	77.2	0.002	2	0.86	0.002	0.08	<0.1	4.3	0.15	<0.02	98	0.2	0.03	2.2	9.19	<0.1	<0.02
1096425	Soil	7.5	16.2	0.30	85.2	0.002	5	0.78	0.005	0.11	<0.1	8.0	0.21	0.09	87	0.9	0.08	2.5	2.48	<0.1	0.07
1096426	Soil	8.4	16.0	0.22	102.7	0.002	4	0.81	0.004	0.08	<0.1	6.3	0.12	0.07	69	0.5	0.07	2.1	2.31	<0.1	0.05
1096427	Soil	4.6	25.0	0.32	50.7	0.005	2	1.61	0.002	0.08	<0.1	2.5	0.15	0.05	46	0.5	0.04	4.8	8.90	<0.1	0.05
1096428	Soil	9.4	23.1	0.29	116.6	0.002	1	1.91	<0.001	0.05	<0.1	4.8	0.16	0.04	10	0.2	0.04	4.2	2.49	<0.1	0.04
1096429	Soil	6.3	12.2	0.08	127.6	0.002	2	0.80	0.004	0.06	<0.1	4.7	0.08	0.09	64	0.6	0.03	1.9	0.51	<0.1	0.04
1096430	Soil	5.3	27.7	0.26	92.0	0.004	2	1.74	0.002	0.12	<0.1	1.4	0.10	0.06	29	0.3	0.04	5.4	4.03	<0.1	<0.02
1096431	Soil	4.8	23.5	0.36	60.0	0.002	2	1.76	0.001	0.10	<0.1	3.2	0.09	0.04	20	0.2	0.04	4.4	3.79	<0.1	0.04
1096432	Soil	6.1	25.4	0.33	103.5	0.003	1	1.75	0.001	0.09	<0.1	2.4	0.12	0.05	11	0.1	0.04	4.4	3.06	<0.1	0.03
1096433	Soil	6.3	23.1	0.39	93.4	0.003	2	1.63	0.002	0.09	<0.1	5.6	0.11	0.04	54	0.4	0.03	3.9	2.15	<0.1	0.05
1096434	Soil	4.2	18.3	0.31	90.3	0.002	4	1.03	0.003	0.07	<0.1	3.6	0.09	0.10	51	0.4	0.02	2.8	1.91	<0.1	0.03
1096435	Soil	6.3	18.7	0.36	67.2	0.002	4	1.04	0.003	0.07	<0.1	5.2	0.11	0.07	90	0.4	0.04	3.1	1.92	<0.1	0.07
1096436	Soil	8.8	20.2	0.36	74.1	0.001	3	1.21	0.003	0.06	<0.1	5.8	0.08	0.05	80	0.4	0.03	3.1	1.15	<0.1	0.05
1096101	Soil	25.9	45.5	1.64	86.8	0.004	3	1.49	0.002	0.08	<0.1	7.3	0.10	0.06	69	1.4	<0.02	4.4	1.96	<0.1	0.07
1096102	Soil	20.5	29.2	0.60	61.8	0.002	3	0.98	0.003	0.08	<0.1	4.3	0.08	0.04	168	0.5	<0.02	3.1	0.82	<0.1	0.10
1096103	Soil	12.2	17.5	0.28	82.5	0.002	4	0.76	0.004	0.07	<0.1	2.9	0.10	0.08	186	0.5	0.02	2.3	1.03	<0.1	0.09
1096104	Soil	16.3	19.8	0.36	145.5	0.002	4	1.07	0.003	0.08	<0.1	4.5	0.10	0.04	369	0.6	<0.02	2.7	0.96	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
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 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 26, 2011

Page: 11 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1096411	Soil			0.38	9.4	1.7	<0.05	1.2	11.51	16.6	0.03	<1	1.1	41.6	<10	<2
1096412	Soil			0.22	8.8	1.3	<0.05	0.9	4.71	8.4	0.03	<1	0.6	35.6	<10	<2
1096413	Soil			0.21	8.9	2.7	<0.05	2.3	22.02	20.3	0.05	<1	1.3	41.3	<10	<2
1096414	Soil			0.16	6.5	2.2	<0.05	2.2	17.63	20.9	0.04	<1	1.0	34.0	<10	<2
1096415	Soil			0.17	5.8	1.5	<0.05	2.1	15.75	19.0	0.03	<1	0.9	31.9	<10	<2
1096416	Soil			0.13	11.2	1.2	<0.05	1.0	6.63	18.6	0.03	<1	0.9	19.0	<10	<2
1096417	Soil			0.18	13.7	1.0	<0.05	1.9	14.73	33.6	0.04	<1	1.3	23.7	<10	<2
1096418	Soil			0.20	13.4	1.0	<0.05	1.7	16.16	41.6	0.05	<1	1.2	17.4	<10	<2
1096419	Soil			0.17	13.6	1.2	<0.05	1.2	5.02	16.1	0.04	<1	0.8	13.1	<10	<2
1096420	Soil			0.32	10.6	0.9	<0.05	1.2	5.85	22.9	0.03	<1	0.7	17.8	<10	<2
1096421	Soil			0.35	10.9	1.2	<0.05	<0.1	3.34	20.7	0.04	<1	0.4	14.1	<10	<2
1096422	Soil			0.04	5.2	1.8	<0.05	2.8	13.42	12.7	0.05	<1	0.9	2.9	<10	<2
1096423	Soil			0.05	7.4	3.1	<0.05	1.5	14.64	14.2	0.05	<1	1.3	29.1	<10	<2
1096424	Soil			0.06	8.8	2.7	<0.05	0.6	9.57	13.0	0.04	<1	1.1	21.0	<10	<2
1096425	Soil			0.06	7.6	2.6	<0.05	2.6	19.12	20.5	0.05	<1	1.2	22.2	<10	<2
1096426	Soil			0.15	7.4	1.4	<0.05	1.6	22.36	18.1	0.05	<1	1.1	19.5	<10	<2
1096427	Soil			0.33	13.1	6.6	<0.05	1.6	5.34	10.9	0.04	<1	0.9	38.9	<10	<2
1096428	Soil			0.25	11.3	1.2	<0.05	1.1	14.69	46.5	0.05	<1	1.1	45.9	<10	<2
1096429	Soil			0.19	6.3	1.5	<0.05	1.6	14.07	17.2	0.04	<1	1.1	5.7	<10	<2
1096430	Soil			0.22	15.8	4.0	<0.05	0.8	5.47	14.6	0.05	<1	1.4	37.8	<10	<2
1096431	Soil			0.22	12.1	2.0	<0.05	1.0	7.18	14.4	0.04	<1	1.1	58.8	<10	<2
1096432	Soil			0.39	12.1	3.2	<0.05	1.0	8.61	15.7	0.04	<1	1.1	51.8	<10	<2
1096433	Soil			0.31	10.4	1.9	<0.05	1.7	13.24	16.1	0.03	<1	1.0	55.9	<10	<2
1096434	Soil			0.23	8.3	1.6	<0.05	1.3	12.07	11.6	0.03	<1	0.9	35.1	<10	<2
1096435	Soil			0.21	7.1	1.7	<0.05	2.7	14.26	17.2	0.03	<1	0.9	38.2	<10	<2
1096436	Soil			0.15	5.9	2.0	<0.05	2.1	17.66	27.1	0.04	<1	1.0	39.5	<10	<2
1096101	Soil			0.21	7.6	10.0	<0.05	2.5	15.36	50.2	0.03	<1	0.9	44.9	<10	<2
1096102	Soil			0.25	5.8	1.9	<0.05	3.7	10.66	40.7	0.03	<1	0.6	24.3	<10	<2
1096103	Soil			0.26	7.3	2.2	<0.05	3.2	8.78	23.0	0.02	<1	0.6	14.9	<10	<2
1096104	Soil			0.26	6.2	1.0	<0.05	2.7	13.17	33.5	0.03	<1	0.8	23.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1096105	Soil	0.61	38.06	31.05	100.1	112	29.4	14.8	520	3.09	13.9	1.7	5.9	3.8	73.7	0.24	0.58	0.43	16	1.26	0.072
1096106	Soil	0.82	32.22	17.97	79.2	184	24.7	10.8	340	2.56	9.9	2.1	5.9	2.9	100.3	0.25	0.86	0.27	19	1.60	0.070
1096107	Soil	0.97	32.15	22.07	85.9	191	27.3	10.6	233	2.72	12.2	1.9	6.7	2.8	114.2	0.26	1.57	0.24	17	1.57	0.069
1096108	Soil	1.20	26.03	19.05	97.3	244	23.6	10.8	282	2.52	12.4	2.3	6.3	3.1	96.4	0.45	0.97	0.20	18	1.37	0.054
1096109	Soil	0.96	13.47	12.89	79.7	141	8.5	5.2	466	1.32	3.7	8.3	2.9	0.4	182.5	0.52	0.49	0.20	15	2.76	0.094
1096110	Soil	0.71	28.14	31.01	74.8	55	26.6	15.7	727	3.00	12.5	1.3	2.2	3.9	82.1	0.16	0.43	0.29	16	1.32	0.041
1096111	Soil	0.40	28.82	19.86	80.2	82	25.8	11.6	319	2.64	7.1	1.4	1.7	3.0	82.3	0.16	0.33	0.23	17	1.27	0.051
1096112	Soil	0.40	28.65	18.64	68.0	79	22.2	9.5	212	2.32	7.0	2.4	2.0	1.7	110.7	0.12	0.27	0.27	16	1.82	0.075
1096113	Soil	0.47	28.96	19.98	74.1	108	25.9	12.7	259	2.54	10.2	2.5	2.2	2.4	117.9	0.12	0.43	0.24	18	1.86	0.057
1096114	Soil	0.38	21.71	21.27	73.2	163	22.7	12.3	329	2.42	7.8	1.7	3.9	3.2	99.2	0.12	0.55	0.26	17	1.64	0.055
1096115	Soil	0.51	23.02	19.91	76.8	147	20.1	11.6	474	2.12	7.6	2.4	2.3	2.5	104.1	0.25	0.43	0.25	17	2.08	0.080
1096116	Soil	0.63	32.70	28.31	87.0	82	26.8	16.1	543	2.68	11.2	2.1	2.6	3.0	136.1	0.15	0.46	0.28	14	2.38	0.058
1096117	Soil	0.49	41.71	24.86	93.4	91	32.9	15.9	397	3.10	9.9	1.3	2.6	3.4	97.0	0.13	0.53	0.31	16	1.61	0.059
1096118	Soil	0.52	43.29	30.86	92.3	103	29.7	19.8	617	3.37	10.4	1.5	1.6	3.8	86.6	0.10	0.78	0.30	18	1.26	0.054
1096119	Soil	0.32	30.24	17.85	77.9	90	26.1	12.0	357	2.59	6.4	1.8	1.4	2.9	90.6	0.13	0.31	0.24	18	1.47	0.056
1096120	Soil	0.43	28.87	18.95	85.8	104	27.2	12.2	396	2.82	7.7	1.2	1.6	2.9	84.7	0.08	0.49	0.25	18	1.35	0.053
1096121	Soil	0.94	36.81	27.59	96.8	160	31.6	16.7	409	3.04	11.5	1.5	3.8	3.8	68.9	0.17	0.99	0.25	19	1.06	0.060
1096122	Soil	0.76	34.83	33.16	98.4	58	31.9	20.4	395	2.58	13.8	2.2	1.9	4.1	110.5	0.20	0.39	0.33	12	1.99	0.045
1096123	Soil	1.37	28.19	27.68	87.9	171	24.9	9.4	423	2.40	10.3	2.9	5.2	2.4	179.2	0.29	1.27	0.23	20	2.80	0.092
1096124	Soil	1.05	33.14	25.35	82.5	130	28.5	12.9	423	2.64	11.1	1.4	3.7	3.3	111.8	0.26	0.66	0.24	16	2.04	0.074



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1096105	Soil	11.7	19.2	0.47	156.4	0.003	4	1.26	0.003	0.08	<0.1	6.8	0.11	0.04	159	0.2	0.04	3.3	3.50	<0.1	0.08
1096106	Soil	14.6	18.2	0.53	144.3	0.003	5	1.15	0.004	0.08	<0.1	4.3	0.12	0.05	309	0.6	0.04	3.1	1.20	<0.1	0.07
1096107	Soil	16.2	17.3	0.42	124.5	0.003	4	0.91	0.005	0.08	<0.1	4.6	0.12	0.05	291	0.6	0.03	2.6	1.48	<0.1	0.05
1096108	Soil	13.5	16.4	0.44	161.1	0.003	4	0.95	0.005	0.09	<0.1	3.9	0.11	0.06	234	0.5	<0.02	2.6	1.11	<0.1	0.09
1096109	Soil	10.5	8.0	0.19	115.4	0.008	3	0.62	0.008	0.04	<0.1	1.0	0.09	0.15	143	0.5	0.03	1.6	0.65	<0.1	0.04
1096110	Soil	10.0	18.2	0.34	123.6	0.002	4	1.02	0.005	0.08	<0.1	5.8	0.10	0.05	182	0.2	0.08	2.8	2.51	<0.1	0.05
1096111	Soil	11.3	20.5	0.53	102.7	0.003	5	1.31	0.005	0.08	<0.1	5.5	0.10	0.05	142	0.2	0.03	3.6	2.29	<0.1	0.06
1096112	Soil	11.4	17.7	0.42	128.8	0.003	4	1.25	0.005	0.07	<0.1	4.3	0.09	0.09	99	0.3	0.04	3.5	1.84	<0.1	0.05
1096113	Soil	10.2	18.2	0.46	166.9	0.004	5	1.20	0.005	0.08	<0.1	4.6	0.11	0.06	162	0.4	0.04	3.4	1.78	<0.1	0.07
1096114	Soil	12.7	17.6	0.44	163.2	0.002	4	1.24	0.005	0.09	<0.1	5.0	0.10	0.06	201	0.4	0.03	3.2	1.12	<0.1	0.09
1096115	Soil	11.0	15.3	0.48	158.9	0.003	6	1.07	0.005	0.08	<0.1	4.0	0.12	0.08	155	0.5	0.06	3.1	1.30	<0.1	0.08
1096116	Soil	11.1	18.6	0.55	138.3	0.003	6	1.19	0.005	0.08	<0.1	5.3	0.11	0.07	131	0.3	0.04	3.5	2.07	<0.1	0.07
1096117	Soil	9.1	18.3	0.48	120.1	0.002	6	1.10	0.004	0.10	<0.1	6.5	0.12	0.05	162	0.3	0.05	3.2	3.06	<0.1	0.06
1096118	Soil	10.2	21.7	0.59	97.0	0.003	4	1.46	0.003	0.09	<0.1	7.4	0.13	0.05	143	0.3	0.04	4.1	5.28	<0.1	0.07
1096119	Soil	11.6	19.6	0.49	121.9	0.003	6	1.35	0.005	0.09	<0.1	5.8	0.10	0.06	144	0.2	<0.02	3.5	2.17	<0.1	0.07
1096120	Soil	8.4	21.6	0.50	126.0	0.003	5	1.39	0.004	0.10	<0.1	6.0	0.10	0.05	233	0.3	0.04	3.7	2.01	<0.1	0.09
1096121	Soil	10.9	22.2	0.56	155.7	0.003	5	1.25	0.004	0.11	<0.1	5.4	0.14	0.06	230	0.4	0.07	3.6	4.16	<0.1	0.06
1096122	Soil	8.1	16.5	0.45	173.1	0.003	5	1.00	0.008	0.07	<0.1	4.8	0.09	0.08	90	0.3	0.06	3.1	1.91	<0.1	0.13
1096123	Soil	19.9	21.8	0.78	149.6	0.003	4	0.89	0.005	0.09	<0.1	4.2	0.12	0.06	306	0.6	0.05	2.5	1.17	<0.1	0.05
1096124	Soil	11.8	21.0	0.63	107.4	0.003	5	1.06	0.005	0.10	<0.1	4.3	0.12	0.04	217	0.4	0.03	3.1	1.40	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
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 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 12 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001139.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1096105	Soil	0.22	7.1	2.5	<0.05	2.6	21.24	26.9	0.06	<1	1.1	31.1	<10	<2
1096106	Soil	0.25	6.1	0.9	<0.05	2.9	13.48	30.3	0.04	<1	0.8	26.2	<10	<2
1096107	Soil	0.18	6.1	2.7	<0.05	2.2	15.30	32.5	0.05	1	0.9	22.4	<10	<2
1096108	Soil	0.25	5.4	0.9	<0.05	3.9	11.04	29.5	0.04	1	0.8	22.9	<10	<2
1096109	Soil	0.36	3.6	0.9	<0.05	2.1	7.30	20.0	<0.02	<1	0.5	3.7	<10	<2
1096110	Soil	0.19	6.9	3.7	<0.05	2.1	14.33	32.2	0.06	1	0.9	23.6	<10	<2
1096111	Soil	0.27	7.5	2.3	<0.05	2.4	16.65	24.3	0.04	<1	1.1	37.3	<10	<2
1096112	Soil	0.31	6.6	0.7	<0.05	2.0	19.06	22.7	0.03	<1	1.0	28.1	<10	<2
1096113	Soil	0.38	7.2	0.6	<0.05	2.7	14.28	21.2	0.03	<1	1.0	28.3	<10	<2
1096114	Soil	0.24	5.9	0.4	<0.05	3.3	13.91	29.7	0.04	<1	1.1	30.3	<10	<2
1096115	Soil	0.24	7.1	0.9	<0.05	3.1	12.46	26.9	0.04	2	0.8	27.1	<10	<2
1096116	Soil	0.26	7.0	2.5	<0.05	2.7	18.31	28.0	0.04	<1	1.1	32.3	<10	<2
1096117	Soil	0.18	7.7	1.7	<0.05	2.2	16.40	22.0	0.06	2	1.2	27.1	<10	<2
1096118	Soil	0.23	9.7	2.5	<0.05	2.1	17.47	26.5	0.06	1	1.3	44.1	<10	<2
1096119	Soil	0.27	7.2	0.9	<0.05	2.7	16.89	25.0	0.05	<1	1.1	34.7	<10	<2
1096120	Soil	0.26	7.3	1.3	<0.05	2.8	13.87	18.8	0.03	<1	1.1	37.5	<10	<2
1096121	Soil	0.21	8.6	4.5	<0.05	3.0	12.55	22.3	0.04	2	1.1	34.0	<10	<2
1096122	Soil	0.23	5.6	3.3	<0.05	4.7	11.67	22.7	0.05	<1	1.0	27.2	<10	<2
1096123	Soil	0.17	6.0	8.4	<0.05	1.9	14.49	41.0	0.03	<1	0.9	22.5	<10	<2
1096124	Soil	0.19	6.7	4.2	<0.05	2.2	12.49	27.9	0.03	2	0.9	27.0	<10	<2



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Phone (604) 253-3158 Fax (604) 253-1716

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Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: September 26, 2011

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001139.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
1097067	Soil	0.96	23.18	24.08	72.4	96	19.4	12.8	707	5.02	10.1	0.4	0.5	2.5	6.4	0.06	0.54	0.30	36	0.03	0.039
REP 1097067	QC	0.93	23.54	24.32	70.2	91	19.6	12.3	721	5.05	10.0	0.4	2.1	2.4	5.6	0.05	0.54	0.31	35	0.02	0.040
1096322	Soil	0.91	22.19	15.53	114.0	80	20.1	8.8	466	2.44	10.7	1.4	1.3	1.4	58.4	0.51	0.46	0.22	27	1.04	0.106
REP 1096322	QC	0.93	22.30	15.74	114.9	81	20.6	8.9	488	2.45	10.7	1.4	1.9	1.6	58.0	0.57	0.50	0.21	27	1.03	0.106
1096330	Soil	0.89	20.71	33.35	84.4	88	27.5	14.0	692	4.23	13.8	1.2	1.3	5.2	10.3	0.16	0.46	0.35	36	0.07	0.048
REP 1096330	QC	0.85	20.40	32.72	80.8	84	26.9	14.0	664	4.12	12.8	1.1	1.9	5.0	9.0	0.15	0.43	0.33	34	0.06	0.048
1097358	Soil	0.49	38.63	32.48	70.9	121	28.3	19.3	742	3.16	6.7	2.0	1.5	2.6	99.6	0.19	0.26	0.34	22	1.12	0.071
REP 1097358	QC	0.45	37.31	30.78	67.2	118	26.6	18.4	690	3.05	6.4	2.0	1.2	2.4	97.4	0.13	0.24	0.32	22	1.08	0.070
1097371	Soil	0.80	19.16	26.31	117.8	84	22.3	8.4	254	2.97	10.4	2.9	0.2	1.0	129.1	0.40	0.43	0.30	35	1.74	0.109
REP 1097371	QC	0.79	19.11	26.56	124.2	87	24.1	8.2	259	2.99	10.4	2.9	<0.2	1.1	132.1	0.37	0.45	0.31	36	1.76	0.108
1097378	Soil	0.45	24.75	27.90	102.8	201	29.0	9.2	153	2.18	13.4	1.6	<0.2	4.5	224.3	0.13	0.57	0.33	8	5.45	0.074
REP 1097378	QC	0.43	24.80	28.63	106.8	200	29.6	9.3	159	2.28	12.8	1.6	0.4	4.6	229.9	0.11	0.49	0.32	8	5.66	0.074
1097387	Soil	0.29	5.14	10.73	448.8	79	7.0	2.1	1336	1.71	4.7	1.8	<0.2	0.4	99.3	1.82	0.15	0.05	5	12.67	0.132
REP 1097387	QC	0.24	4.79	10.00	438.2	78	6.1	2.2	1251	1.62	4.4	1.7	<0.2	0.3	93.2	1.74	0.14	0.05	5	12.45	0.129
121792	Soil	0.80	31.07	24.77	91.8	174	31.0	13.1	464	3.23	16.5	1.7	1.7	3.7	60.0	0.20	0.56	0.32	19	0.63	0.058
REP 121792	QC	0.68	29.25	23.23	88.8	184	30.9	12.9	441	3.16	15.7	1.6	2.4	3.6	56.7	0.16	0.56	0.30	19	0.61	0.057
119246	Soil	0.66	25.35	22.19	72.2	104	26.9	12.0	421	3.28	14.8	1.2	16.7	4.8	27.1	0.34	0.68	0.43	22	0.17	0.017
REP 119246	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1097120	Soil	0.60	29.95	30.76	110.2	242	43.0	14.9	453	3.65	7.4	0.7	0.4	5.7	202.9	0.09	0.23	0.32	7	3.07	0.034
REP 1097120	QC	0.58	28.83	29.22	110.0	220	40.5	14.7	443	3.52	7.0	0.7	<0.2	5.3	195.0	0.09	0.21	0.30	7	2.99	0.033
1097132	Soil	0.62	29.64	38.56	97.3	295	42.8	13.6	342	3.32	7.3	0.9	0.3	4.6	133.1	0.10	0.20	0.30	7	2.48	0.052
REP 1097132	QC	0.63	29.92	39.69	101.6	315	43.9	13.6	353	3.41	7.7	1.0	0.3	5.0	135.9	0.09	0.22	0.30	7	2.67	0.053
1097150	Soil	0.65	22.51	41.62	80.0	94	19.1	10.6	375	3.17	9.5	0.4	1.6	1.7	18.0	0.05	0.47	0.46	10	0.02	0.043
REP 1097150	QC	0.64	22.78	43.55	81.2	88	19.1	10.6	364	3.17	9.4	0.4	1.1	1.5	18.4	0.05	0.49	0.45	10	0.02	0.043
1097222	Soil	0.63	31.84	28.01	94.9	231	31.8	13.4	498	3.93	11.6	1.7	0.9	3.7	47.1	0.18	0.35	0.34	9	0.72	0.069
REP 1097222	QC	0.67	32.13	27.77	95.2	239	32.9	14.1	493	3.96	12.1	1.8	0.8	3.8	46.1	0.18	0.34	0.33	9	0.74	0.070
1097279	Soil	0.56	17.38	15.51	69.2	221	19.3	8.4	232	2.63	13.0	2.5	3.2	3.5	61.5	0.14	0.51	0.21	28	0.81	0.057
REP 1097279	QC	0.59	18.07	15.82	73.3	228	20.4	8.8	237	2.81	12.6	2.7	3.2	3.8	62.7	0.15	0.52	0.22	29	0.83	0.059

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001139.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
1097067	Soil	5.5	26.7	0.31	43.6	0.006	2	1.77	<0.001	0.06	<0.1	2.3	0.09	<0.02	27	0.3	0.04	5.8	3.22	<0.1	0.03
REP 1097067	QC	4.9	26.5	0.32	42.7	0.004	2	1.70	<0.001	0.06	<0.1	2.2	0.08	<0.02	33	0.5	<0.02	5.6	2.95	<0.1	0.04
1096322	Soil	10.2	28.8	0.42	114.2	0.006	2	1.02	0.003	0.06	<0.1	2.9	0.08	0.08	142	0.7	0.04	3.4	2.19	0.1	0.07
REP 1096322	QC	10.5	30.1	0.43	116.5	0.007	1	1.04	0.003	0.07	<0.1	3.0	0.10	0.07	124	0.7	<0.02	3.4	2.28	<0.1	0.05
1096330	Soil	8.7	30.9	0.46	86.5	0.006	3	2.37	<0.001	0.09	<0.1	3.1	0.14	<0.02	86	0.2	0.07	5.4	4.41	<0.1	0.06
REP 1096330	QC	8.0	29.4	0.45	81.5	0.004	2	2.30	<0.001	0.08	<0.1	3.0	0.13	<0.02	92	0.3	0.06	5.1	3.91	<0.1	0.09
1097358	Soil	8.0	30.0	0.40	111.7	0.002	3	1.76	0.004	0.09	<0.1	4.2	0.12	0.08	141	0.3	0.03	5.5	3.11	<0.1	0.06
REP 1097358	QC	7.7	28.0	0.39	108.2	0.002	3	1.67	0.003	0.09	<0.1	4.1	0.12	0.07	143	0.3	0.03	5.1	2.91	<0.1	0.06
1097371	Soil	13.1	22.0	0.17	240.0	0.005	3	1.48	0.003	0.07	<0.1	2.4	0.23	0.09	75	1.0	0.05	4.0	1.39	<0.1	0.03
REP 1097371	QC	13.3	23.4	0.17	238.2	0.005	4	1.54	0.003	0.08	<0.1	2.5	0.23	0.09	68	0.8	0.07	4.4	1.39	<0.1	0.02
1097378	Soil	10.7	7.9	0.15	85.5	0.002	4	0.50	0.005	0.14	<0.1	3.1	0.21	0.05	240	1.1	0.03	1.4	2.15	<0.1	0.06
REP 1097378	QC	10.2	7.6	0.15	84.5	<0.001	3	0.48	0.005	0.12	<0.1	3.1	0.19	0.06	186	0.6	0.06	1.4	1.21	<0.1	0.06
1097387	Soil	5.2	5.2	7.08	62.2	0.003	2	0.19	0.015	0.02	<0.1	0.6	0.04	0.06	425	0.6	0.03	0.6	0.32	<0.1	<0.02
REP 1097387	QC	5.1	5.1	6.59	61.5	0.002	3	0.19	0.013	0.02	<0.1	0.6	<0.02	0.05	409	0.7	<0.02	0.5	0.32	<0.1	0.02
121792	Soil	12.1	21.8	0.48	65.9	0.004	3	1.10	0.003	0.06	<0.1	4.5	0.07	0.03	364	1.0	0.06	3.1	2.57	<0.1	0.08
REP 121792	QC	11.7	20.8	0.46	65.2	0.004	3	1.10	0.003	0.07	<0.1	4.4	0.07	0.03	353	1.0	0.07	3.1	2.58	<0.1	0.06
119246	Soil	9.2	27.6	0.51	62.0	0.009	6	1.44	0.005	0.11	<0.1	5.6	0.14	<0.02	196	<0.1	<0.02	4.1	5.31	<0.1	0.09
REP 119246	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1097120	Soil	5.8	9.8	0.22	86.2	0.001	3	0.67	0.004	0.11	<0.1	3.9	0.20	0.11	126	0.6	0.03	1.8	2.21	<0.1	0.12
REP 1097120	QC	5.7	9.6	0.21	82.8	0.001	3	0.66	0.004	0.12	<0.1	3.8	0.18	0.11	119	0.5	<0.02	1.7	2.14	<0.1	0.10
1097132	Soil	7.1	7.2	0.11	91.4	<0.001	4	0.47	0.004	0.14	<0.1	3.8	0.18	0.06	112	0.7	<0.02	1.4	1.73	<0.1	0.07
REP 1097132	QC	7.4	7.4	0.11	96.9	<0.001	4	0.50	0.004	0.14	<0.1	3.9	0.19	0.06	108	0.7	0.02	1.4	1.84	<0.1	0.04
1097150	Soil	2.6	7.6	0.05	57.4	<0.001	2	0.43	0.002	0.07	<0.1	1.8	0.13	0.03	286	0.2	0.03	1.3	4.68	<0.1	<0.02
REP 1097150	QC	2.6	7.7	0.05	58.1	<0.001	2	0.44	0.002	0.07	<0.1	1.8	0.12	0.03	304	0.2	0.05	1.3	4.95	<0.1	<0.02
1097222	Soil	9.6	9.5	0.16	58.2	0.001	2	0.69	0.004	0.07	<0.1	5.5	0.12	0.05	64	0.5	0.05	1.7	1.31	<0.1	0.07
REP 1097222	QC	10.0	10.2	0.16	57.6	0.001	2	0.69	0.004	0.07	<0.1	5.6	0.13	0.05	59	0.5	0.08	1.7	1.39	<0.1	0.08
1097279	Soil	24.2	28.9	0.73	137.5	0.003	3	1.40	0.005	0.07	<0.1	5.1	0.13	0.04	149	0.8	0.02	3.9	1.17	<0.1	0.05
REP 1097279	QC	25.5	29.8	0.78	138.5	0.003	3	1.54	0.005	0.07	<0.1	5.5	0.13	0.04	158	0.9	0.03	4.2	1.15	<0.1	0.04

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 1 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001139.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
1097067	Soil	0.54	13.3	2.1	<0.05	2.1	2.40	11.5	0.03	<1	0.3	40.4	<10	<2
REP 1097067	QC	0.49	12.4	2.0	<0.05	2.7	2.30	10.5	0.02	<1	0.6	41.7	<10	<2
1096322	Soil	0.35	11.2	1.0	<0.05	1.9	6.65	25.2	0.03	<1	0.7	16.7	<10	<2
REP 1096322	QC	0.38	11.7	1.1	<0.05	1.8	6.52	25.6	0.03	2	0.8	17.6	<10	<2
1096330	Soil	0.53	14.7	2.4	<0.05	2.6	5.53	33.4	0.05	<1	1.2	58.8	<10	<2
REP 1096330	QC	0.50	13.1	2.4	<0.05	3.1	5.27	32.1	0.06	<1	1.2	55.0	<10	<2
1097358	Soil	0.41	11.2	1.3	<0.05	2.2	15.88	23.5	0.04	<1	1.5	45.3	<10	<2
REP 1097358	QC	0.38	10.6	1.3	<0.05	2.2	15.42	22.9	0.04	<1	1.5	43.1	<10	<2
1097371	Soil	0.60	10.8	0.8	<0.05	0.7	10.62	41.7	0.05	<1	0.7	11.3	<10	<2
REP 1097371	QC	0.58	10.9	0.7	<0.05	0.7	10.83	43.5	0.03	<1	0.9	11.6	<10	<2
1097378	Soil	0.17	9.1	0.8	<0.05	2.4	10.17	27.3	0.03	<1	0.7	6.7	<10	3
REP 1097378	QC	0.19	7.0	0.6	<0.05	2.9	10.46	25.1	0.03	<1	1.1	6.3	<10	4
1097387	Soil	0.07	3.5	0.8	<0.05	0.6	4.29	10.2	<0.02	<1	0.1	1.2	<10	<2
REP 1097387	QC	0.06	3.2	0.8	<0.05	0.6	4.11	9.4	<0.02	<1	0.2	1.0	<10	<2
121792	Soil	0.22	7.5	1.1	<0.05	2.7	13.42	31.9	0.04	<1	0.9	25.1	<10	<2
REP 121792	QC	0.21	7.2	0.8	<0.05	2.5	12.82	29.8	0.04	2	1.0	24.0	<10	<2
119246	Soil	0.29	13.4	1.3	0.09	3.9	5.98	22.6	0.18	6	1.4	45.7	<10	5
REP 119246	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1097120	Soil	0.04	7.3	2.0	<0.05	7.0	11.73	20.1	0.04	1	1.0	17.7	<10	<2
REP 1097120	QC	0.03	7.4	1.8	<0.05	6.6	11.09	19.5	0.04	2	0.8	16.4	<10	<2
1097132	Soil	0.05	8.0	1.1	<0.05	2.8	11.52	19.7	0.03	<1	0.9	8.6	<10	<2
REP 1097132	QC	0.06	8.0	1.1	<0.05	2.8	11.84	20.6	0.03	2	0.8	9.3	<10	<2
1097150	Soil	0.02	7.7	1.0	<0.05	0.4	3.54	6.3	0.04	<1	0.6	4.8	<10	<2
REP 1097150	QC	0.02	7.9	1.1	<0.05	0.4	3.54	6.3	0.03	<1	0.6	4.6	<10	<2
1097222	Soil	0.09	5.4	0.9	<0.05	2.4	21.43	28.1	0.05	<1	1.0	13.2	<10	<2
REP 1097222	QC	0.09	5.6	0.9	<0.05	2.4	21.50	28.0	0.06	<1	1.0	13.1	<10	<2
1097279	Soil	0.31	10.2	0.7	<0.05	1.9	13.45	41.6	0.04	<1	0.9	37.3	<10	<2
REP 1097279	QC	0.32	10.7	0.8	<0.05	1.8	13.92	44.2	0.05	<1	1.0	38.3	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: **Scarlet**
Report Date: **September 26, 2011**

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001139.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
1096401	Soil	0.96	23.61	48.11	108.1	77	31.3	13.5	469	5.02	11.0	1.1	0.8	2.7	11.6	0.24	0.67	0.47	34	0.08	0.083
REP 1096401	QC	1.00	24.14	49.32	111.7	79	32.3	13.8	462	5.07	11.4	1.2	1.1	2.8	12.5	0.24	0.71	0.47	34	0.09	0.087
1096419	Soil	0.62	18.80	24.59	83.8	46	20.5	9.1	382	3.13	7.0	0.9	<0.2	1.4	14.7	0.07	0.43	0.34	20	0.06	0.086
REP 1096419	QC	0.63	18.69	24.37	81.1	50	19.9	8.7	383	3.06	7.1	0.9	<0.2	1.3	14.9	0.09	0.41	0.35	20	0.06	0.085
1096429	Soil	0.54	40.98	20.24	72.1	235	28.9	14.2	660	3.60	14.8	2.5	<0.2	1.7	106.4	0.44	0.97	0.28	19	2.03	0.154
REP 1096429	QC	0.53	39.61	20.44	70.9	228	26.6	14.0	632	3.62	13.3	2.4	<0.2	1.7	100.4	0.42	0.93	0.27	19	1.96	0.151
1096112	Soil	0.40	28.65	18.64	68.0	79	22.2	9.5	212	2.32	7.0	2.4	2.0	1.7	110.7	0.12	0.27	0.27	16	1.82	0.075
REP 1096112	QC	0.36	28.39	17.64	64.6	68	21.3	9.6	204	2.21	6.8	2.3	2.7	1.6	106.0	0.11	0.24	0.25	15	1.76	0.069
Reference Materials																					
STD DS8	Standard	12.96	93.87	118.1	294.8	1613	36.7	6.5	602	2.29	23.5	2.2	102.5	5.7	59.6	1.87	4.56	5.38	38	0.65	0.070
STD DS8	Standard	13.84	104.9	134.2	320.8	1904	37.8	7.1	646	2.50	26.1	3.1	119.1	7.5	69.8	2.36	5.62	6.87	42	0.79	0.086
STD DS8	Standard	13.75	114.3	128.0	312.7	1840	39.8	7.8	611	2.41	24.6	2.9	116.0	7.2	58.3	2.20	5.16	6.20	41	0.74	0.074
STD DS8	Standard	12.41	95.67	114.1	286.8	1721	34.7	6.7	575	2.28	25.8	2.6	94.5	5.7	64.9	2.17	5.19	6.04	39	0.73	0.078
STD DS8	Standard	12.86	101.6	122.2	302.6	1712	37.1	7.1	597	2.42	26.8	2.7	120.2	6.4	64.4	2.23	5.32	6.33	40	0.69	0.087
STD DS8	Standard	14.11	112.5	132.9	321.5	1829	39.8	7.3	629	2.49	26.0	3.0	116.8	8.0	63.7	2.34	5.59	6.45	43	0.76	0.076
STD DS8	Standard	13.20	101.7	125.3	308.4	1770	35.9	7.0	596	2.35	24.8	2.7	115.1	6.4	63.7	2.17	5.25	6.22	39	0.74	0.077
STD DS8	Standard	13.20	107.6	122.0	306.7	1709	36.4	7.0	596	2.36	25.3	2.8	109.7	6.9	64.4	2.16	5.69	6.75	40	0.72	0.075
STD DS8	Standard	13.99	109.2	133.1	313.5	1830	38.3	7.4	586	2.44	25.0	3.1	115.5	7.6	62.9	2.18	5.36	7.03	40	0.73	0.073
STD DS8	Standard	13.05	110.9	128.6	321.9	1771	38.6	7.6	593	2.43	23.9	2.7	118.4	7.0	63.4	2.28	5.28	6.05	41	0.74	0.077
STD DS8	Standard	12.41	104.3	114.7	298.0	1734	36.1	7.2	586	2.38	26.6	2.4	102.9	5.7	56.0	2.26	4.80	5.92	39	0.70	0.086
STD DS8	Standard	12.51	115.3	130.7	323.9	1923	39.0	7.6	603	2.53	28.1	3.0	122.3	7.1	68.2	2.65	6.30	7.16	43	0.73	0.081
STD DS8	Standard	10.87	96.49	111.7	286.3	1626	34.8	6.3	530	2.14	24.1	2.3	100.4	5.8	52.6	2.15	4.94	5.91	35	0.59	0.072
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: September 26, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001139.1

		1F15 La ppm	1F15 Cr ppm	1F15 Mg %	1F15 Ba ppm	1F15 Ti %	1F15 B ppm	1F15 Al %	1F15 Na %	1F15 K %	1F15 W ppm	1F15 Sc ppm	1F15 Ti ppm	1F15 S %	1F15 Hg ppb	1F15 Se ppm	1F15 Te ppm	1F15 Ga ppm	1F15 Cs ppm	1F15 Ge ppm	1F15 Hf ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1096401	Soil	11.4	22.1	0.19	93.2	0.006	2	1.70	0.005	0.07	<0.1	3.2	0.27	0.04	124	0.4	0.04	3.4	2.65	<0.1	<0.02
REP 1096401	QC	12.7	23.2	0.19	98.2	0.007	3	1.74	0.005	0.08	<0.1	3.4	0.29	0.04	131	0.5	0.06	3.5	2.86	<0.1	0.03
1096419	Soil	6.2	14.6	0.10	91.1	0.002	1	1.13	0.002	0.07	<0.1	2.0	0.17	0.06	31	0.2	0.03	2.6	2.09	<0.1	0.04
REP 1096419	QC	6.2	14.9	0.11	91.4	0.002	1	1.12	0.002	0.07	<0.1	2.0	0.17	0.05	35	0.3	0.04	2.8	2.18	<0.1	0.12
1096429	Soil	6.3	12.2	0.08	127.6	0.002	2	0.80	0.004	0.06	<0.1	4.7	0.08	0.09	64	0.6	0.03	1.9	0.51	<0.1	0.04
REP 1096429	QC	6.2	11.6	0.07	119.6	0.001	2	0.81	0.004	0.06	<0.1	4.6	0.08	0.09	43	0.5	0.04	1.8	0.46	<0.1	0.03
1096112	Soil	11.4	17.7	0.42	128.8	0.003	4	1.25	0.005	0.07	<0.1	4.3	0.09	0.09	99	0.3	0.04	3.5	1.84	<0.1	0.05
REP 1096112	QC	11.0	17.2	0.39	124.8	0.003	4	1.19	0.005	0.07	<0.1	4.1	0.10	0.08	85	0.3	0.04	3.4	1.93	<0.1	0.04
Reference Materials																					
STD DS8	Standard	12.2	116.9	0.59	217.8	0.100	2	0.86	0.082	0.40	2.9	1.8	5.22	0.16	194	5.1	4.93	4.6	2.11	0.1	0.07
STD DS8	Standard	17.5	126.3	0.64	291.9	0.119	3	0.98	0.096	0.44	3.3	2.3	5.96	0.16	222	5.6	5.55	5.0	2.70	<0.1	0.10
STD DS8	Standard	16.0	124.3	0.61	273.3	0.110	3	0.96	0.107	0.43	3.4	2.4	5.59	0.16	167	5.2	5.18	4.6	2.56	0.2	0.08
STD DS8	Standard	14.6	116.4	0.58	247.7	0.108	2	0.93	0.106	0.41	2.8	2.1	4.93	0.16	170	4.9	4.63	4.4	2.21	0.1	0.07
STD DS8	Standard	14.2	116.4	0.59	264.3	0.106	3	0.88	0.090	0.41	3.0	1.9	5.42	0.17	195	5.1	4.80	4.7	2.39	<0.1	0.06
STD DS8	Standard	18.9	125.5	0.62	288.5	0.115	4	1.03	0.112	0.43	3.3	2.6	5.71	0.16	198	5.2	5.26	5.1	2.66	0.1	0.08
STD DS8	Standard	15.2	116.0	0.60	272.6	0.111	3	0.95	0.108	0.43	3.0	2.0	5.44	0.16	190	5.0	5.01	4.7	2.42	0.1	0.08
STD DS8	Standard	15.2	117.8	0.61	270.0	0.117	2	0.93	0.091	0.41	3.0	2.4	5.56	0.16	197	5.5	5.17	4.6	2.47	0.1	0.06
STD DS8	Standard	16.1	124.6	0.62	266.6	0.116	2	0.97	0.101	0.43	2.7	2.3	5.71	0.16	199	5.4	4.91	4.8	2.41	<0.1	0.08
STD DS8	Standard	14.7	118.8	0.62	263.9	0.107	3	0.99	0.111	0.44	2.9	2.1	5.57	0.16	205	5.0	4.92	4.6	2.48	0.1	0.06
STD DS8	Standard	13.1	116.0	0.61	266.2	0.099	3	0.98	0.110	0.44	2.9	2.1	5.32	0.15	217	5.3	4.83	4.7	2.43	<0.1	0.09
STD DS8	Standard	14.3	123.1	0.62	276.2	0.120	3	0.95	0.101	0.44	3.2	2.3	5.55	0.17	211	5.4	4.90	4.7	2.52	0.2	0.07
STD DS8	Standard	12.8	107.0	0.49	258.6	0.090	2	0.76	0.071	0.36	2.8	1.7	4.97	0.14	207	4.4	4.70	3.9	2.36	0.1	0.09
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 26, 2011

Page: 2 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001139.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
1096401	Soil	0.45	11.8	4.7	<0.05	0.8	12.90	66.0	0.06	<1	1.1	15.1	<10	<2
REP 1096401	QC	0.47	12.8	5.9	<0.05	0.8	13.72	71.2	0.05	<1	1.2	15.8	<10	<2
1096419	Soil	0.17	13.6	1.2	<0.05	1.2	5.02	16.1	0.04	<1	0.8	13.1	<10	<2
REP 1096419	QC	0.16	13.8	1.1	<0.05	1.1	4.95	15.9	0.03	<1	0.8	13.9	<10	<2
1096429	Soil	0.19	6.3	1.5	<0.05	1.6	14.07	17.2	0.04	<1	1.1	5.7	<10	<2
REP 1096429	QC	0.22	6.1	1.5	<0.05	1.0	13.49	16.0	0.04	1	1.0	5.5	<10	<2
1096112	Soil	0.31	6.6	0.7	<0.05	2.0	19.06	22.7	0.03	<1	1.0	28.1	<10	<2
REP 1096112	QC	0.27	6.7	0.6	<0.05	1.8	18.28	22.1	0.04	<1	1.0	26.6	<10	<2
Reference Materials														
STD DS8	Standard	1.20	33.6	5.3	<0.05	1.8	5.40	24.5	1.91	57	5.1	23.9	119	327
STD DS8	Standard	1.54	41.5	6.7	<0.05	2.1	6.85	33.5	2.33	55	5.3	30.6	116	375
STD DS8	Standard	1.55	39.8	6.6	<0.05	2.3	6.25	29.0	2.16	49	4.6	26.3	130	352
STD DS8	Standard	1.39	36.3	6.2	<0.05	1.6	5.72	26.4	1.91	44	4.5	26.0	113	309
STD DS8	Standard	1.17	39.1	6.5	<0.05	1.5	5.50	26.1	2.31	48	5.0	27.4	110	328
STD DS8	Standard	1.81	40.1	6.8	<0.05	2.6	6.86	35.3	2.38	49	5.8	27.5	125	381
STD DS8	Standard	1.40	36.1	6.2	<0.05	1.6	5.97	28.9	2.09	44	4.7	24.5	111	331
STD DS8	Standard	1.37	36.9	6.6	<0.05	1.9	6.00	28.6	2.25	50	4.9	23.7	110	336
STD DS8	Standard	1.15	37.5	6.5	<0.05	2.0	5.97	29.2	2.17	60	5.3	22.4	115	336
STD DS8	Standard	1.23	38.0	6.4	<0.05	1.6	5.67	27.3	2.33	57	5.4	26.3	109	329
STD DS8	Standard	1.28	38.8	6.0	<0.05	1.9	5.60	26.5	1.92	48	4.9	27.4	114	353
STD DS8	Standard	1.29	38.3	7.8	<0.05	2.1	5.56	25.8	2.49	74	5.9	27.3	93	370
STD DS8	Standard	1.10	33.0	6.0	<0.05	1.8	4.83	23.2	1.94	52	4.4	23.9	94	321
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: September 26, 2011

Page: 3 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001139.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	4.22	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	3.2	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: September 26, 2011

Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001139.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: September 26, 2011

Page: 3 of 3 **Part** 3

QUALITY CONTROL REPORT

WHI11001139.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 13, 2011
Report Date: September 23, 2011
Page: 1 of 13

CERTIFICATE OF ANALYSIS

WHI11001140.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-20
P.O. Number
Number of Samples: 331

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: David Clark
database backup
Simon Ridgway
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	319	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	319	Dry at 60C			WHI
1F05	317	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
RJSV	319	Saving all or part of Soil Reject			WHI

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Scarlet
 Report Date: September 23, 2011

Page: 2 of 13 Part 1

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1096125	Soil			2.69	15.88	2.87	24.4	88	7.9	3.0	116	0.67	0.4	0.1	1.4	<0.1	26.5	0.15	0.08	0.06	20	0.36	0.101
1096126	Soil			1.10	29.90	51.05	101.8	323	30.7	23.6	1498	3.95	17.1	1.0	1.7	2.9	38.2	0.15	0.79	0.31	25	0.27	0.066
1096127	Soil			0.90	47.11	21.17	71.3	412	34.2	10.7	613	2.37	8.4	1.9	1.8	1.9	205.4	0.19	0.44	0.26	19	1.50	0.078
1096128	Soil			0.29	23.40	17.92	73.1	149	22.9	9.4	243	2.29	6.7	1.1	1.4	2.6	142.8	0.06	0.31	0.26	18	1.22	0.048
1096129	Soil			0.37	31.35	17.12	75.0	189	27.0	9.7	307	2.29	6.5	1.1	2.0	2.6	132.6	0.11	0.33	0.28	19	1.30	0.056
1096130	Soil			0.40	28.53	19.31	67.3	123	25.9	11.9	347	2.84	7.4	1.1	1.2	2.5	102.5	0.07	0.37	0.30	20	1.32	0.045
1096131	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1096132	Soil			0.48	31.88	18.27	77.2	145	21.3	10.1	512	2.78	6.8	2.9	1.2	1.3	166.7	0.11	0.40	0.26	18	2.24	0.060
1096133	Soil			0.40	23.88	17.59	74.6	86	21.7	10.3	415	2.62	6.9	1.4	0.8	1.7	99.8	0.12	0.35	0.25	17	1.30	0.054
1096134	Soil			0.54	27.56	55.64	206.8	24	26.1	7.9	208	5.11	6.7	0.7	0.6	1.7	11.9	0.08	0.30	0.51	9	0.01	0.048
1096135	Soil			0.46	26.42	34.62	105.0	175	28.0	11.3	329	3.55	8.3	0.7	2.3	1.9	39.8	0.15	0.37	0.38	12	0.40	0.049
1096136	Soil			0.93	23.00	34.61	90.1	58	22.3	8.5	229	3.83	10.0	0.7	1.9	1.1	15.5	0.09	0.74	0.45	28	0.02	0.042
1096137	Soil			1.26	20.89	27.06	78.3	64	21.2	7.0	199	3.46	10.0	0.7	1.2	1.8	14.0	0.09	0.70	0.36	36	0.03	0.056
1096138	Soil			1.12	21.13	30.35	76.5	53	19.4	8.9	337	3.71	8.0	0.5	0.9	2.9	8.2	0.07	0.57	0.38	35	0.02	0.038
1096139	Soil			1.55	39.03	62.13	122.2	161	38.1	33.2	1370	5.01	7.0	0.7	1.0	3.5	17.6	0.13	0.56	0.40	24	0.03	0.070
1096140	Soil			1.10	45.34	81.82	112.0	130	28.3	21.4	666	6.12	9.4	0.7	1.4	5.7	34.2	0.04	0.49	0.40	18	0.02	0.076
1096141	Soil			1.09	42.91	50.12	146.6	462	51.9	20.8	473	4.90	11.3	1.5	3.9	5.6	231.5	0.17	0.41	0.62	10	4.70	0.084
1096142	Soil			1.00	40.83	41.77	144.3	494	41.8	15.0	421	3.84	11.8	2.0	2.9	3.9	97.4	0.25	0.42	0.45	13	2.20	0.147
1096143	Soil			1.64	32.40	47.73	125.2	334	39.4	13.3	503	3.32	10.2	1.4	1.6	1.6	152.1	0.24	0.42	0.35	13	4.05	0.142
1096144	Soil			0.59	30.04	38.29	106.2	307	36.2	18.7	437	4.35	6.9	0.6	1.0	4.0	366.2	0.12	0.27	0.42	5	5.21	0.043
1096145	Soil			0.79	29.95	50.84	94.2	172	34.5	17.2	507	4.02	8.7	1.0	1.1	2.6	75.8	0.09	0.33	0.41	10	0.94	0.052
1096146	Soil			0.86	30.22	30.97	93.6	287	34.0	16.7	484	3.53	9.5	0.9	1.1	2.9	26.2	0.11	0.42	0.33	14	0.33	0.048
1096147	Soil			1.07	29.03	56.24	93.2	210	36.8	18.3	420	3.74	6.5	1.0	0.6	3.9	35.4	0.09	0.33	0.36	11	0.09	0.041
1096148	Soil			2.71	30.86	74.36	84.5	222	45.7	18.7	519	3.52	13.6	1.0	1.3	2.4	33.8	0.10	0.52	0.34	15	0.37	0.056
1096149	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1096150	Soil			1.16	37.58	57.90	105.9	258	39.8	20.3	500	4.09	18.5	1.0	1.5	2.9	41.4	0.09	0.64	0.34	12	0.50	0.058
1096851	Soil			2.41	39.40	89.86	111.8	274	51.0	24.6	813	4.69	20.5	0.9	2.3	4.2	64.8	0.16	0.63	0.39	15	0.78	0.077
1096852	Soil			0.68	27.05	31.35	62.4	286	27.2	13.5	527	2.60	5.5	1.2	0.8	2.0	130.5	0.13	0.37	0.26	11	1.94	0.064
1096853	Soil			0.59	21.58	33.24	64.7	248	25.0	14.6	437	3.08	6.1	1.5	1.0	2.8	107.7	0.11	0.30	0.29	13	1.76	0.051
1096854	Soil			0.56	27.62	22.26	49.2	215	22.4	11.6	422	2.31	4.6	0.9	0.7	1.1	170.4	0.11	0.36	0.22	10	2.62	0.063



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
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Page: 2 of 13 Part 2

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
1096125	Soil	1.1	13.1	0.14	41.4	0.020	1	0.38	0.014	0.05	0.3	0.5	0.06	0.13	182	0.3	0.03	2.0	0.36	<0.1	<0.02
1096126	Soil	6.4	25.4	0.40	95.6	0.003	3	1.57	0.004	0.09	<0.1	3.0	0.15	0.05	166	0.2	0.05	4.1	5.82	<0.1	0.02
1096127	Soil	9.6	25.4	0.48	113.7	0.003	4	1.34	0.005	0.08	<0.1	3.3	0.10	0.07	245	0.5	0.03	3.5	3.59	<0.1	0.09
1096128	Soil	6.9	20.5	0.56	86.5	0.003	4	1.31	0.005	0.08	<0.1	3.8	0.08	0.05	142	0.3	0.04	3.8	2.57	<0.1	0.08
1096129	Soil	9.2	24.0	0.54	101.5	0.003	4	1.41	0.005	0.09	<0.1	4.5	0.09	0.06	215	0.4	<0.02	4.1	2.85	<0.1	0.08
1096130	Soil	6.0	24.1	0.48	113.1	0.002	3	1.66	0.005	0.10	<0.1	4.6	0.08	0.06	88	0.3	0.04	4.7	1.80	<0.1	0.10
1096131	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1096132	Soil	5.1	20.3	0.37	102.2	0.002	5	1.30	0.005	0.10	<0.1	3.2	0.10	0.09	94	0.5	0.06	4.0	2.18	<0.1	0.06
1096133	Soil	4.9	19.4	0.39	90.2	0.001	4	1.36	0.005	0.10	<0.1	3.3	0.08	0.07	94	0.3	0.04	3.7	1.71	<0.1	0.06
1096134	Soil	2.7	6.9	0.04	57.9	<0.001	2	0.49	0.002	0.09	<0.1	2.8	0.39	<0.02	106	0.3	0.03	1.4	3.43	<0.1	<0.02
1096135	Soil	5.6	9.2	0.08	143.5	0.002	2	0.45	0.004	0.06	<0.1	3.5	0.14	0.02	147	0.5	0.05	1.2	2.06	<0.1	0.07
1096136	Soil	6.9	15.8	0.13	47.0	0.004	<1	1.08	0.001	0.07	<0.1	1.6	0.15	0.03	31	0.3	0.04	3.4	2.68	<0.1	<0.02
1096137	Soil	7.9	21.3	0.18	59.8	0.005	1	1.48	0.003	0.06	0.1	1.8	0.16	0.03	37	0.5	0.05	4.6	3.01	<0.1	0.02
1096138	Soil	6.4	20.2	0.15	58.2	0.003	1	1.34	0.002	0.08	<0.1	2.2	0.16	<0.02	24	0.3	0.04	5.4	4.84	<0.1	0.02
1096139	Soil	5.3	26.1	0.25	60.4	0.004	2	1.36	0.004	0.08	<0.1	4.2	0.14	0.04	29	0.4	0.05	4.0	6.91	<0.1	0.03
1096140	Soil	4.7	24.9	0.23	60.7	0.002	2	1.27	0.007	0.12	<0.1	6.3	0.14	0.11	8	0.2	0.05	3.7	9.52	<0.1	0.03
1096141	Soil	3.8	13.0	0.17	105.0	<0.001	3	0.61	0.005	0.08	<0.1	5.5	0.25	0.11	94	0.5	0.04	1.4	1.85	<0.1	0.08
1096142	Soil	7.5	12.5	0.12	117.1	0.002	3	0.58	0.008	0.10	<0.1	4.2	0.16	0.07	76	0.6	0.08	1.3	0.81	<0.1	0.13
1096143	Soil	8.4	22.6	0.16	113.3	0.002	4	0.74	0.011	0.08	<0.1	2.9	0.13	0.08	161	0.6	0.08	1.5	1.08	<0.1	0.08
1096144	Soil	5.4	5.7	0.12	39.7	<0.001	2	0.30	0.007	0.05	<0.1	5.9	0.20	0.11	90	0.3	0.04	0.7	1.12	<0.1	0.06
1096145	Soil	4.6	15.2	0.15	66.5	<0.001	1	0.79	0.006	0.06	<0.1	4.4	0.12	0.07	54	0.2	0.08	1.7	1.12	<0.1	0.07
1096146	Soil	3.8	17.2	0.24	51.8	0.002	2	0.87	0.002	0.07	<0.1	4.6	0.09	<0.02	71	0.1	0.05	2.3	3.06	<0.1	0.05
1096147	Soil	3.7	26.8	0.20	65.7	0.002	1	1.03	0.006	0.08	<0.1	3.0	0.12	0.05	26	<0.1	0.04	2.4	4.66	<0.1	0.07
1096148	Soil	4.7	43.8	0.26	80.6	0.002	3	1.13	0.004	0.09	<0.1	4.0	0.10	0.04	66	0.2	0.07	2.7	3.27	<0.1	0.05
1096149	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1096150	Soil	6.2	18.9	0.21	74.4	0.001	2	0.91	0.005	0.06	<0.1	4.5	0.11	0.04	72	0.3	0.06	2.0	2.24	<0.1	0.08
1096851	Soil	7.2	33.2	0.25	93.6	0.003	3	1.20	0.007	0.09	<0.1	5.0	0.16	0.06	71	0.2	0.08	2.7	5.80	<0.1	<0.02
1096852	Soil	5.3	19.8	0.25	77.4	0.002	4	0.85	0.009	0.07	<0.1	4.7	0.09	0.09	71	0.3	0.03	2.3	1.97	<0.1	0.05
1096853	Soil	5.3	19.8	0.26	98.1	0.001	3	1.03	0.005	0.06	<0.1	5.0	0.09	0.07	68	0.3	0.06	2.7	1.72	<0.1	0.06
1096854	Soil	3.9	14.6	0.22	84.9	0.002	4	0.65	0.013	0.05	<0.1	3.3	0.07	0.12	81	0.4	0.02	1.9	1.53	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 2 of 13 Part 3

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppm	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1096125	Soil	0.43	7.5	0.2	<0.05	0.1	0.79	2.2	<0.02	<1	<0.1	1.0	<10	<2
1096126	Soil	0.27	13.0	9.7	<0.05	1.1	7.37	18.5	0.03	<1	1.2	46.4	<10	<2
1096127	Soil	0.36	11.1	2.2	<0.05	2.6	14.46	18.6	0.04	<1	1.1	38.7	<10	<2
1096128	Soil	0.37	8.5	0.9	<0.05	3.3	8.91	16.0	0.04	<1	0.9	41.5	<10	<2
1096129	Soil	0.41	9.3	1.1	<0.05	3.2	11.75	21.0	0.03	<1	1.0	45.0	<10	<2
1096130	Soil	0.33	9.0	0.9	<0.05	3.5	10.43	13.8	0.03	<1	1.1	46.8	<10	<2
1096131	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1096132	Soil	0.21	10.3	1.0	<0.05	2.1	10.49	13.3	0.04	<1	0.8	38.6	<10	<2
1096133	Soil	0.24	9.4	0.7	<0.05	2.5	8.58	11.8	0.03	<1	0.8	35.6	<10	<2
1096134	Soil	0.06	12.7	0.6	<0.05	0.3	3.43	7.6	0.05	<1	0.6	2.3	<10	<2
1096135	Soil	0.09	7.6	0.4	<0.05	1.6	10.08	12.9	0.06	<1	1.1	6.7	<10	<2
1096136	Soil	0.26	10.5	1.0	<0.05	0.3	3.68	17.5	0.05	<1	0.5	9.2	<10	<2
1096137	Soil	0.48	12.4	1.6	<0.05	0.9	3.41	20.0	0.04	<1	0.5	18.6	<10	<2
1096138	Soil	0.26	15.8	3.0	<0.05	1.1	2.92	14.6	0.04	<1	0.6	23.7	<10	<2
1096139	Soil	0.18	9.8	5.7	<0.05	0.8	6.04	15.4	0.06	<1	1.2	40.2	<10	<2
1096140	Soil	0.09	11.6	10.1	<0.05	3.1	5.46	12.8	0.07	<1	0.9	37.8	<10	<2
1096141	Soil	0.03	4.9	3.5	<0.05	5.2	14.65	13.3	0.08	<1	1.1	15.1	10	<2
1096142	Soil	0.09	5.2	3.5	<0.05	4.1	16.36	21.5	0.05	<1	0.9	9.0	<10	<2
1096143	Soil	0.13	6.0	12.3	<0.05	3.1	14.98	22.9	0.05	<1	0.9	12.4	<10	<2
1096144	Soil	0.02	3.9	2.1	<0.05	2.8	15.79	17.9	0.06	<1	0.9	6.4	<10	<2
1096145	Soil	0.07	5.2	4.8	<0.05	2.7	12.43	18.1	0.05	1	1.2	19.4	<10	<2
1096146	Soil	0.08	6.5	1.6	<0.05	1.9	11.04	11.1	0.04	<1	0.9	28.0	<10	<2
1096147	Soil	0.08	6.9	8.7	<0.05	1.8	6.39	9.9	0.05	1	0.9	29.1	<10	<2
1096148	Soil	0.16	8.9	23.4	<0.05	2.3	13.13	14.6	0.06	<1	1.0	34.1	<10	<2
1096149	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1096150	Soil	0.12	6.3	7.2	<0.05	3.1	18.20	20.2	0.04	<1	1.1	24.2	<10	<2
1096851	Soil	0.18	11.1	22.4	<0.05	1.4	15.42	25.8	0.05	<1	1.6	41.1	<10	<2
1096852	Soil	0.19	7.1	4.3	<0.05	2.1	17.11	16.5	0.03	<1	0.8	26.7	<10	<2
1096853	Soil	0.17	6.1	2.9	<0.05	2.2	16.82	16.9	0.03	<1	1.0	31.1	<10	<2
1096854	Soil	0.13	5.5	1.1	<0.05	1.7	14.26	11.6	0.02	<1	0.8	19.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 23, 2011

Page: 3 of 13 Part 1

CERTIFICATE OF ANALYSIS

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Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1096855	Soil	0.82	15.73	36.15	85.7	31	17.8	8.9	602	3.40	10.9	0.7	0.6	1.0	10.7	0.11	0.49	0.29	32	0.28	0.063
1096856	Soil	0.50	23.17	34.38	90.8	124	23.1	8.3	179	3.07	13.2	0.5	0.7	1.3	37.2	0.09	0.43	0.35	13	0.34	0.042
1096857	Soil	0.74	28.15	39.84	128.0	83	38.1	17.1	826	4.58	9.1	0.8	0.7	1.5	8.0	0.16	0.43	0.38	18	0.03	0.078
1096858	Soil	1.21	23.93	38.73	93.5	66	22.6	11.1	661	4.08	9.8	0.8	1.1	0.6	7.4	0.17	0.62	0.37	31	0.04	0.061
1096859	Soil	1.67	19.49	20.55	69.2	59	16.3	7.3	288	3.07	10.8	0.7	1.0	0.6	8.9	0.11	0.74	0.38	54	0.04	0.047
1096860	Soil	1.07	30.61	30.70	72.5	158	17.3	7.9	313	3.77	7.1	0.7	1.6	1.7	10.2	0.07	0.47	0.32	27	0.02	0.069
1096861	Soil	1.79	38.02	69.83	103.0	151	29.4	18.2	659	4.99	8.5	0.6	2.1	3.9	27.3	0.06	0.45	0.35	19	0.01	0.070
1096862	Soil	0.75	36.35	50.38	102.4	199	31.7	22.9	1136	4.17	5.8	0.6	0.5	3.8	11.7	0.09	0.34	0.35	17	0.01	0.050
1096863	Soil	0.80	23.41	28.15	64.2	255	16.9	6.5	198	3.98	6.2	0.6	0.9	0.5	16.6	0.09	0.42	0.32	24	0.05	0.069
1096864	Soil	0.53	29.32	36.94	102.6	293	35.8	14.8	382	4.25	8.4	0.8	0.5	3.7	39.3	0.09	0.26	0.42	15	0.64	0.052
1096865	Soil	1.31	40.09	58.54	106.6	265	50.1	22.7	642	4.58	6.8	0.6	1.3	4.7	40.5	0.08	0.32	0.38	12	0.29	0.032
1096866	Soil	1.27	45.08	82.90	124.7	238	54.8	54.5	1942	4.78	4.8	0.6	0.7	4.9	20.3	0.12	0.31	0.36	12	0.07	0.043
1096867	Soil	0.81	38.33	36.90	94.5	378	36.7	17.8	448	3.67	13.6	2.4	0.4	1.9	85.7	0.09	0.43	0.41	12	1.35	0.060
1096868	Soil	2.59	41.87	118.8	107.8	561	48.4	50.4	2435	5.12	11.9	1.3	2.6	3.1	23.0	0.08	0.79	0.41	17	0.17	0.076
1096869	Soil	2.21	36.74	70.81	103.3	337	44.2	23.6	1029	4.18	10.9	1.0	2.4	2.8	28.8	0.13	0.49	0.33	17	0.26	0.055
1096870	Soil	2.20	35.31	67.59	100.1	205	43.1	25.2	925	4.37	11.4	0.9	1.5	2.6	13.5	0.11	0.56	0.33	17	0.13	0.068
1096871	Soil	1.38	64.97	114.7	115.1	443	43.6	37.1	1108	4.83	25.9	1.2	2.1	4.0	20.3	0.12	1.21	0.43	17	0.24	0.065
1096872	Soil	7.35	36.80	71.88	90.7	463	71.5	22.3	846	4.41	11.6	1.1	1.8	3.3	44.6	0.10	0.74	0.32	16	0.59	0.074
1096873	Soil	1.22	26.42	45.45	63.4	264	31.0	16.7	599	3.55	8.9	1.7	2.6	3.5	108.5	0.18	0.40	0.28	15	1.93	0.065
1096874	Soil	1.74	29.41	44.12	83.0	226	26.4	15.1	1307	4.35	7.4	0.9	0.9	0.7	12.5	0.12	0.40	0.28	27	0.14	0.119
1096875	Soil	1.18	31.06	58.71	88.2	146	27.1	25.0	1361	3.33	7.7	0.8	2.2	1.7	15.1	0.14	0.34	0.31	23	0.12	0.077
1096876	Soil	0.87	33.81	30.87	87.3	354	28.9	14.5	464	3.61	9.2	1.1	0.9	3.2	93.8	0.20	0.33	0.27	19	1.29	0.129
1096877	Soil	1.34	35.82	53.55	95.4	319	40.0	20.6	900	4.40	10.3	1.3	1.6	3.3	75.1	0.31	0.55	0.27	16	1.24	0.103
1096878	Soil	2.36	30.72	54.10	74.9	215	37.1	20.8	793	4.46	7.0	1.1	3.5	2.4	55.9	0.21	0.63	0.37	13	0.92	0.125
1096879	Soil	1.31	35.30	50.11	98.7	118	29.8	18.9	1148	4.46	9.6	0.8	2.6	1.0	8.5	0.28	0.89	0.41	17	0.03	0.119
1096880	Soil	1.12	28.28	35.60	98.2	91	27.8	13.3	409	4.80	13.0	0.6	0.8	1.0	9.4	0.17	1.56	0.36	19	0.02	0.066
1096881	Soil	1.04	29.25	37.69	94.2	208	28.9	12.7	451	3.67	5.4	0.6	1.0	0.6	8.9	0.79	0.60	0.35	23	0.07	0.058
1096882	Soil	1.18	29.30	37.58	83.5	146	28.5	13.8	413	4.39	7.6	0.6	1.4	0.6	13.6	0.10	0.52	0.35	23	0.04	0.077
1096883	Soil	0.71	34.57	31.28	76.0	154	33.6	15.9	447	3.98	7.5	0.7	1.4	3.9	30.9	0.05	0.43	0.31	18	0.26	0.059
1096884	Soil	0.84	20.50	22.09	82.2	162	17.6	10.6	558	2.99	4.6	0.4	0.7	0.3	18.4	0.52	0.37	0.28	23	0.17	0.080



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 3 of 13 Part 2

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1096855	Soil	6.1	17.8	0.20	100.9	0.005	1	1.14	0.003	0.06	0.1	1.5	0.13	0.03	38	0.2	0.04	4.0	1.40	<0.1	<0.02
1096856	Soil	5.2	11.7	0.10	116.5	0.002	2	0.63	0.004	0.08	<0.1	2.7	0.12	0.03	277	0.4	0.04	1.7	2.26	<0.1	<0.02
1096857	Soil	5.3	13.7	0.10	75.7	0.002	<1	1.19	0.002	0.06	<0.1	2.7	0.22	0.04	55	0.2	0.05	2.3	2.88	<0.1	0.03
1096858	Soil	6.6	25.6	0.20	54.6	0.008	1	1.66	0.002	0.07	<0.1	1.5	0.13	0.05	61	0.4	0.05	3.9	3.23	<0.1	<0.02
1096859	Soil	10.7	26.2	0.22	59.1	0.018	<1	1.50	0.001	0.07	0.1	1.5	0.20	0.03	37	0.3	0.04	6.6	3.43	<0.1	<0.02
1096860	Soil	4.3	23.2	0.18	37.5	0.005	<1	1.31	0.005	0.06	<0.1	2.1	0.11	0.06	42	0.3	0.05	4.4	6.26	<0.1	0.02
1096861	Soil	3.4	24.8	0.21	48.2	0.002	<1	1.28	0.007	0.07	<0.1	4.2	0.15	0.08	27	0.2	0.07	3.7	8.00	<0.1	0.04
1096862	Soil	4.2	20.1	0.23	49.9	0.002	<1	1.21	0.003	0.08	<0.1	4.1	0.13	0.03	20	0.1	0.03	3.5	7.98	<0.1	<0.02
1096863	Soil	4.9	23.1	0.20	54.9	0.004	<1	1.24	0.004	0.07	<0.1	0.9	0.09	0.06	34	0.2	0.03	4.0	3.16	<0.1	<0.02
1096864	Soil	9.4	14.8	0.19	79.4	<0.001	2	0.95	0.005	0.06	<0.1	6.0	0.13	0.04	59	<0.1	0.05	2.0	0.91	<0.1	0.05
1096865	Soil	4.0	24.9	0.24	101.7	<0.001	2	1.06	0.003	0.10	<0.1	5.6	0.14	0.03	61	0.1	0.03	2.7	2.20	<0.1	0.07
1096866	Soil	3.2	28.3	0.24	130.6	0.001	1	1.24	0.003	0.09	<0.1	5.1	0.17	0.03	64	<0.1	<0.02	3.2	7.33	<0.1	<0.02
1096867	Soil	5.7	13.0	0.14	99.9	<0.001	3	0.69	0.005	0.06	<0.1	4.1	0.12	0.07	138	0.6	0.06	1.8	1.93	<0.1	0.08
1096868	Soil	4.2	45.1	0.34	68.6	0.003	2	1.49	0.004	0.11	<0.1	5.5	0.18	0.05	90	<0.1	0.05	3.7	9.17	<0.1	0.04
1096869	Soil	4.0	32.3	0.26	65.8	0.003	7	0.96	0.004	0.10	<0.1	4.5	0.12	0.03	59	0.2	0.06	2.7	5.61	<0.1	0.02
1096870	Soil	3.1	35.2	0.26	53.3	0.002	1	1.17	0.003	0.07	<0.1	4.4	0.11	0.04	40	0.1	0.08	3.1	4.93	<0.1	0.03
1096871	Soil	4.7	23.9	0.33	114.9	0.003	2	1.36	0.004	0.11	<0.1	7.0	0.16	0.04	105	0.3	0.08	3.3	10.34	<0.1	0.06
1096872	Soil	4.4	83.6	0.27	63.3	0.002	2	1.23	0.006	0.09	0.1	5.6	0.09	0.04	71	0.2	0.06	3.1	4.21	<0.1	0.03
1096873	Soil	8.1	22.5	0.23	120.9	0.002	2	1.07	0.007	0.07	<0.1	5.9	0.10	0.09	118	0.2	0.08	2.6	1.81	<0.1	0.05
1096874	Soil	3.6	32.1	0.20	87.5	0.003	2	1.26	0.003	0.11	<0.1	1.6	0.11	0.07	44	0.2	0.03	3.8	3.43	<0.1	0.02
1096875	Soil	4.4	27.2	0.33	73.5	0.003	2	1.44	0.003	0.11	<0.1	2.7	0.13	0.04	37	0.1	0.07	4.3	5.63	<0.1	0.03
1096876	Soil	10.5	25.2	0.34	74.1	0.003	3	1.35	0.006	0.09	<0.1	7.6	0.12	0.09	44	0.1	0.05	3.7	1.78	<0.1	0.08
1096877	Soil	11.9	19.2	0.19	99.7	0.002	3	0.98	0.007	0.08	<0.1	7.2	0.12	0.08	76	0.1	0.03	2.5	2.89	<0.1	0.06
1096878	Soil	7.9	24.4	0.17	99.6	0.002	4	0.79	0.008	0.07	<0.1	4.5	0.10	0.08	66	0.3	<0.02	2.1	2.23	<0.1	0.05
1096879	Soil	2.8	18.3	0.07	65.7	0.002	2	0.75	0.002	0.07	<0.1	1.9	0.12	0.05	82	0.2	0.03	2.2	4.08	<0.1	<0.02
1096880	Soil	3.0	18.4	0.11	35.0	0.003	1	0.97	<0.001	0.06	<0.1	1.9	0.12	0.03	97	0.3	0.06	2.6	3.71	<0.1	<0.02
1096881	Soil	3.1	16.4	0.06	75.5	0.004	1	0.57	0.003	0.09	<0.1	1.9	0.09	0.04	51	0.2	0.03	2.9	2.75	<0.1	<0.02
1096882	Soil	3.4	25.3	0.22	51.2	0.003	2	1.00	0.001	0.09	<0.1	1.4	0.09	0.03	69	0.2	0.04	3.0	2.25	<0.1	<0.02
1096883	Soil	4.9	21.0	0.26	111.8	0.001	2	1.10	0.001	0.09	<0.1	4.5	0.11	0.03	95	0.1	0.04	2.9	2.71	<0.1	0.05
1096884	Soil	3.1	18.3	0.11	81.1	0.004	2	0.76	0.002	0.12	<0.1	0.9	0.06	0.05	46	0.2	0.03	3.4	1.72	<0.1	<0.02



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 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 23, 2011

Page: 3 of 13 Part 3

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1096855	Soil	0.35	9.0	1.0	<0.05	0.5	3.52	20.1	0.03	<1	0.6	12.5	<10	<2
1096856	Soil	0.10	9.8	1.6	<0.05	0.5	7.26	11.5	0.03	<1	0.8	10.8	<10	<2
1096857	Soil	0.13	10.9	1.6	<0.05	0.9	9.58	18.2	0.05	<1	1.1	12.6	<10	<2
1096858	Soil	0.44	11.9	2.2	<0.05	0.2	3.43	17.2	0.05	<1	0.7	18.5	<10	<2
1096859	Soil	0.55	13.9	1.7	<0.05	<0.1	3.32	22.8	0.04	<1	0.3	10.4	<10	<2
1096860	Soil	0.34	9.8	0.9	<0.05	0.8	2.59	10.4	0.05	<1	0.6	22.1	<10	<2
1096861	Soil	0.14	9.1	7.4	<0.05	1.2	4.27	10.2	0.07	<1	1.1	34.4	<10	<2
1096862	Soil	0.11	10.7	1.5	<0.05	0.7	5.41	10.7	0.05	<1	1.1	35.0	<10	<2
1096863	Soil	0.32	10.7	1.9	<0.05	0.3	2.43	11.3	0.03	<1	0.6	22.0	<10	<2
1096864	Soil	0.10	6.8	1.0	<0.05	2.2	19.75	28.3	0.07	2	1.2	19.0	<10	<2
1096865	Soil	0.07	5.5	10.1	<0.05	2.7	13.14	11.8	0.06	<1	1.0	35.7	<10	<2
1096866	Soil	0.05	8.8	6.4	<0.05	0.7	12.08	11.4	0.06	1	1.4	43.7	<10	<2
1096867	Soil	0.11	7.5	1.2	<0.05	2.2	14.23	13.6	0.05	<1	1.0	12.2	<10	<2
1096868	Soil	0.10	11.3	19.3	<0.05	1.2	15.38	17.9	0.04	2	1.6	40.9	<10	<2
1096869	Soil	0.12	9.6	17.0	<0.05	1.0	11.28	14.4	0.03	<1	1.0	29.0	<10	2
1096870	Soil	0.11	8.7	14.4	<0.05	1.1	8.99	11.5	0.05	<1	1.1	35.1	<10	<2
1096871	Soil	0.12	12.0	7.8	<0.05	2.2	20.82	14.0	0.06	<1	2.0	42.8	<10	3
1096872	Soil	0.12	9.2	19.7	<0.05	1.6	16.26	12.9	0.07	2	1.2	37.0	<10	<2
1096873	Soil	0.21	7.2	11.1	<0.05	2.2	23.46	26.7	0.06	2	0.9	23.4	<10	<2
1096874	Soil	0.15	13.4	8.0	<0.05	0.5	5.96	10.6	0.05	<1	1.1	21.2	<10	<2
1096875	Soil	0.18	12.8	8.1	<0.05	0.9	6.14	12.7	0.04	1	1.1	36.8	<10	<2
1096876	Soil	0.18	8.8	3.9	<0.05	2.1	28.64	24.5	0.05	<1	1.3	31.0	<10	<2
1096877	Soil	0.19	9.3	7.7	<0.05	1.8	29.66	34.8	0.05	<1	1.3	17.3	<10	<2
1096878	Soil	0.17	7.4	7.1	<0.05	1.3	21.31	28.6	0.07	1	1.2	12.4	<10	<2
1096879	Soil	0.09	13.8	6.5	<0.05	0.6	4.58	8.6	0.05	<1	0.9	3.3	<10	<2
1096880	Soil	0.18	10.1	2.1	<0.05	0.4	3.45	7.3	0.05	<1	0.8	11.3	<10	<2
1096881	Soil	0.24	16.2	3.8	<0.05	<0.1	3.33	8.4	0.04	2	0.8	3.2	<10	<2
1096882	Soil	0.12	10.0	3.4	<0.05	0.2	3.08	10.7	0.04	<1	0.9	15.4	<10	<2
1096883	Soil	0.14	9.2	2.3	<0.05	1.6	11.23	17.4	0.05	<1	1.0	27.1	<10	<2
1096884	Soil	0.19	14.1	1.7	<0.05	0.2	2.15	7.1	0.03	<1	0.6	8.7	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 23, 2011

Page: 4 of 13 Part 1

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	0.02	2	0.01	0.001
1096885	Soil	1.08	34.64	38.90	82.9	154	35.1	16.8	571	4.19	8.5	1.1	1.9	4.4	36.8	0.09	0.52	0.36	23	0.34	0.055
1096886	Soil	0.55	36.16	21.91	60.0	229	25.8	10.9	267	2.66	5.1	1.0	1.7	1.9	129.8	0.10	0.44	0.28	13	1.36	0.065
1096887	Soil	0.74	32.33	32.02	88.1	124	26.4	15.6	498	4.24	7.4	0.4	1.2	2.4	13.1	0.14	0.43	0.31	21	0.10	0.050
1096888	Soil	0.68	23.82	25.22	73.5	48	27.5	13.8	475	3.46	8.2	0.8	0.9	4.3	28.8	0.10	0.42	0.28	19	0.40	0.033
1096889	Soil	0.42	29.21	19.70	62.8	158	25.8	11.3	320	2.80	5.4	0.9	1.8	2.4	116.1	0.10	0.39	0.26	16	1.78	0.047
1096890	Soil	0.41	40.85	26.80	93.3	161	34.4	15.6	293	3.26	7.5	0.7	1.3	2.9	107.2	0.08	0.42	0.34	16	1.46	0.048
1096891	Soil	1.08	42.26	42.96	86.3	443	36.2	19.1	641	4.60	9.9	0.9	1.6	2.7	91.6	0.15	0.48	0.29	19	1.22	0.109
1096892	Soil	1.33	38.48	43.07	89.5	490	37.2	20.8	834	4.67	11.1	1.2	1.1	2.9	74.0	0.10	0.59	0.36	19	1.01	0.110
1096893	Soil	0.65	38.48	35.02	75.6	255	27.8	13.9	504	3.49	7.7	2.1	1.4	1.2	141.1	0.16	0.45	0.33	13	2.11	0.116
1096894	Soil	1.37	40.32	53.12	98.1	202	28.5	29.4	1260	4.34	14.0	0.7	1.0	2.9	13.9	0.18	0.53	0.38	22	0.12	0.129
1096895	Soil	1.56	35.11	45.88	101.1	225	31.8	18.2	739	5.22	8.0	0.7	1.1	3.1	24.4	0.18	0.55	0.38	19	0.14	0.136
1096896	Soil	1.06	25.93	40.85	92.7	245	24.7	15.2	1488	3.57	9.1	0.6	0.6	0.3	9.2	0.16	1.08	0.32	19	0.03	0.115
1096897	Soil	2.54	26.81	29.09	105.9	149	21.0	16.4	1140	4.04	8.6	0.7	0.5	0.6	30.0	0.31	0.53	0.34	26	0.25	0.140
1096898	Soil	0.76	24.40	29.89	73.9	117	23.5	12.2	473	4.93	8.6	0.7	0.7	1.1	11.1	0.17	0.49	0.32	23	0.06	0.109
1096899	Soil	0.79	25.71	31.94	85.4	107	22.2	16.6	633	3.16	5.8	0.4	0.4	1.0	27.6	0.26	0.47	0.28	23	0.22	0.057
1096900	Soil	0.84	25.22	21.12	72.4	102	25.1	13.2	301	3.30	7.3	0.4	0.8	0.7	15.9	0.13	0.59	0.26	28	0.11	0.041
1096351	Soil	0.37	32.17	16.67	87.3	152	25.8	11.0	261	2.66	6.5	1.4	1.3	2.1	100.2	0.09	0.32	0.24	17	1.63	0.061
1096352	Soil	0.39	35.69	19.42	83.3	154	28.9	14.1	831	2.56	5.9	1.9	1.2	2.0	81.9	0.12	0.39	0.27	19	1.30	0.059
1096353	Soil	0.38	37.22	16.42	80.1	90	28.4	12.3	219	2.76	7.8	0.9	1.4	3.3	57.8	0.09	0.34	0.31	16	0.83	0.056
1096354	Soil	0.57	30.38	22.94	73.3	135	30.5	13.5	475	2.98	10.3	1.2	1.1	2.8	56.1	0.13	0.37	0.25	17	0.86	0.058
1096355	Soil	0.57	38.31	24.00	84.1	126	34.4	15.8	510	3.38	11.9	0.8	0.9	5.0	53.6	0.12	0.47	0.28	21	0.90	0.056
1096356	Soil	0.58	36.11	27.21	87.2	49	33.3	16.9	637	3.75	12.5	0.8	0.8	4.0	30.4	0.07	0.47	0.30	20	0.27	0.041
1096357	Soil	0.56	37.61	26.21	79.4	127	31.1	15.7	782	3.41	11.8	1.3	1.4	3.6	50.7	0.09	0.37	0.26	19	0.73	0.059
1096358	Soil	0.58	37.30	27.71	83.7	81	31.4	17.7	644	3.72	14.7	0.6	0.8	3.6	64.8	0.09	0.55	0.29	18	0.40	0.050
1096359	Soil	1.23	50.62	58.84	111.1	102	41.4	39.2	2094	5.33	34.5	0.9	0.4	3.6	23.8	0.11	0.91	0.42	20	0.21	0.043
1096360	Soil	0.40	27.34	25.86	74.3	164	27.2	13.1	540	2.42	7.4	0.8	1.2	2.9	89.8	0.08	0.30	0.29	18	1.10	0.044
1096361	Soil	0.34	22.73	21.34	70.1	99	25.4	13.0	427	2.81	8.7	0.9	0.9	3.1	62.1	0.09	0.27	0.27	19	0.92	0.030
1096362	Soil	0.46	36.79	19.98	87.9	124	30.0	13.5	415	2.84	8.3	1.0	0.7	3.0	124.6	0.12	0.42	0.27	18	2.04	0.052
1096363	Soil	0.52	32.80	23.05	73.6	92	29.7	14.9	481	3.00	9.9	1.0	1.3	3.9	172.4	0.16	0.48	0.27	18	3.33	0.057
1096364	Soil	0.53	36.86	22.64	90.6	169	29.5	15.2	376	2.82	11.5	1.4	4.7	3.5	62.2	0.15	0.58	0.41	18	0.84	0.061



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
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Page: 4 of 13 Part 2

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1096885	Soil	7.8	29.4	0.42	83.2	0.007	3	1.49	0.002	0.09	<0.1	6.2	0.10	0.03	59	0.2	0.04	3.9	4.25	<0.1	0.03
1096886	Soil	3.6	16.6	0.21	108.0	0.001	3	0.82	0.003	0.07	<0.1	4.1	0.10	0.11	234	1.1	<0.02	2.4	4.67	<0.1	0.06
1096887	Soil	3.2	23.0	0.31	63.9	0.001	2	1.43	0.001	0.09	<0.1	2.6	0.10	0.03	58	0.2	0.03	4.1	2.17	<0.1	0.04
1096888	Soil	6.7	23.9	0.34	73.8	0.002	2	1.36	0.002	0.08	<0.1	4.9	0.11	0.04	49	0.2	0.04	3.7	1.74	<0.1	0.06
1096889	Soil	6.2	19.7	0.32	99.4	0.002	3	1.16	0.003	0.08	<0.1	4.4	0.08	0.06	90	0.2	0.02	3.3	1.24	<0.1	0.06
1096890	Soil	5.4	22.4	0.43	78.9	0.002	3	1.27	0.003	0.08	<0.1	5.1	0.08	0.06	111	0.3	0.03	3.8	1.98	<0.1	0.07
1096891	Soil	10.4	22.5	0.34	100.0	0.002	3	1.24	0.004	0.08	<0.1	7.4	0.14	0.08	63	0.3	0.04	3.5	2.22	<0.1	0.08
1096892	Soil	12.1	25.8	0.33	108.7	0.002	3	1.29	0.003	0.08	<0.1	7.1	0.11	0.07	88	0.5	0.06	3.6	2.47	<0.1	0.09
1096893	Soil	9.1	15.9	0.25	124.3	0.002	4	0.95	0.004	0.06	<0.1	3.4	0.10	0.14	110	0.3	0.05	2.7	1.95	<0.1	0.04
1096894	Soil	3.9	23.9	0.23	68.4	0.002	2	1.22	0.002	0.12	<0.1	4.3	0.14	0.04	43	0.3	0.05	3.9	5.46	<0.1	0.03
1096895	Soil	4.1	25.2	0.19	87.8	0.003	2	1.16	0.002	0.10	<0.1	4.1	0.13	0.06	34	0.2	0.05	2.6	6.22	<0.1	0.03
1096896	Soil	2.5	17.4	0.06	101.0	0.002	2	0.60	0.004	0.09	<0.1	0.8	0.15	0.10	126	0.2	0.04	2.6	2.57	<0.1	<0.02
1096897	Soil	4.9	20.3	0.16	140.3	0.004	2	1.09	0.004	0.11	<0.1	1.5	0.11	0.06	53	0.2	0.03	4.2	4.77	<0.1	<0.02
1096898	Soil	3.5	23.6	0.18	56.9	0.003	2	1.34	0.002	0.08	<0.1	1.5	0.09	0.05	102	0.4	0.04	3.7	3.31	<0.1	<0.02
1096899	Soil	3.3	25.6	0.18	61.5	0.004	2	1.06	0.004	0.12	<0.1	1.6	0.08	0.03	93	<0.1	0.04	4.6	3.60	<0.1	<0.02
1096900	Soil	4.0	22.8	0.12	79.8	0.004	1	0.73	0.003	0.09	<0.1	1.5	0.07	0.02	32	0.1	0.03	3.7	1.64	<0.1	<0.02
1096351	Soil	6.3	21.3	0.50	74.3	0.003	5	1.31	0.003	0.11	<0.1	4.6	0.07	0.05	125	0.4	0.02	3.7	3.05	<0.1	0.07
1096352	Soil	7.7	25.3	0.53	106.7	0.003	5	1.47	0.003	0.10	<0.1	5.8	0.10	0.05	154	0.4	0.02	4.2	3.33	<0.1	0.06
1096353	Soil	8.9	24.1	0.55	83.5	0.002	3	1.57	0.002	0.10	<0.1	10.3	0.08	0.04	67	0.1	0.05	4.1	2.26	<0.1	0.08
1096354	Soil	8.2	25.4	0.56	83.8	0.003	4	1.40	0.004	0.12	<0.1	5.4	0.07	0.05	64	0.3	0.04	4.0	1.98	<0.1	0.08
1096355	Soil	9.5	26.7	0.63	70.0	0.005	4	1.56	0.004	0.12	<0.1	5.9	0.09	<0.02	92	0.2	0.07	4.5	2.53	<0.1	0.07
1096356	Soil	6.6	25.1	0.63	59.0	0.002	3	1.60	0.002	0.10	<0.1	5.5	0.08	<0.02	57	0.1	0.06	4.3	3.29	<0.1	0.04
1096357	Soil	8.2	25.9	0.53	83.2	0.003	4	1.61	0.003	0.12	<0.1	5.6	0.09	0.03	94	0.3	0.03	4.2	4.12	<0.1	0.07
1096358	Soil	4.5	21.8	0.55	50.2	0.002	4	1.39	0.003	0.10	<0.1	4.8	0.07	0.04	137	0.2	0.04	3.6	3.12	<0.1	0.07
1096359	Soil	4.4	26.2	0.44	278.1	0.001	3	1.73	0.003	0.11	<0.1	9.4	0.14	0.03	404	0.1	0.09	4.4	5.79	<0.1	0.07
1096360	Soil	6.8	26.6	0.57	100.8	0.003	5	1.48	0.003	0.12	<0.1	5.8	0.09	0.04	258	0.3	0.03	4.0	5.31	<0.1	0.05
1096361	Soil	6.4	24.2	0.46	80.0	0.002	3	1.48	0.004	0.10	<0.1	4.7	0.07	0.04	173	0.2	0.03	4.1	1.61	<0.1	0.07
1096362	Soil	7.0	22.5	0.59	89.9	0.003	5	1.36	0.005	0.12	<0.1	4.7	0.08	0.04	263	0.3	0.04	4.1	2.11	<0.1	0.07
1096363	Soil	8.2	21.2	0.67	68.5	0.004	4	1.33	0.004	0.12	<0.1	4.7	0.08	0.02	847	0.3	0.05	3.6	2.23	<0.1	0.09
1096364	Soil	6.9	22.8	0.56	92.4	0.003	4	1.34	0.003	0.09	<0.1	5.4	0.10	<0.02	135	0.2	0.05	3.7	4.79	<0.1	0.09



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 4 of 13 Part 3

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1096885	Soil	0.32	11.8	4.2	<0.05	1.1	19.51	27.5	0.06	1	1.3	52.6	<10	<2
1096886	Soil	0.20	12.0	1.1	<0.05	1.9	12.02	9.4	0.04	<1	0.9	19.7	<10	<2
1096887	Soil	0.19	8.8	2.4	<0.05	0.9	3.56	9.6	0.04	<1	1.0	35.6	<10	<2
1096888	Soil	0.30	10.0	1.2	<0.05	2.1	9.26	20.2	0.05	<1	1.0	32.2	<10	<2
1096889	Soil	0.32	7.1	1.0	<0.05	1.7	12.19	14.4	0.04	<1	1.0	28.5	<10	<2
1096890	Soil	0.30	6.9	0.5	<0.05	2.4	11.65	14.3	0.03	<1	1.1	36.6	<10	<2
1096891	Soil	0.15	7.4	6.3	<0.05	2.4	31.31	27.4	0.06	<1	1.3	29.0	<10	<2
1096892	Soil	0.15	8.4	3.0	<0.05	2.5	34.96	32.2	0.05	<1	1.3	29.6	<10	<2
1096893	Soil	0.19	8.5	1.7	<0.05	1.2	21.79	23.5	0.04	<1	1.2	20.7	<10	<2
1096894	Soil	0.12	14.2	2.9	<0.05	0.8	8.14	16.0	0.04	<1	1.6	26.8	<10	<2
1096895	Soil	0.13	13.3	4.5	<0.05	0.7	11.45	48.4	0.06	<1	1.3	21.8	<10	<2
1096896	Soil	0.10	10.9	2.7	<0.05	0.2	2.63	6.2	0.04	<1	0.6	2.9	<10	<2
1096897	Soil	0.13	20.0	1.0	<0.05	0.3	7.38	14.0	0.04	<1	0.8	12.1	<10	<2
1096898	Soil	0.21	11.4	1.1	<0.05	0.5	4.32	11.8	0.04	<1	1.1	19.3	<10	<2
1096899	Soil	0.29	13.6	3.5	<0.05	0.3	2.43	8.3	0.03	<1	0.9	17.3	<10	<2
1096900	Soil	0.19	11.5	1.9	<0.05	<0.1	2.94	10.4	0.04	<1	0.6	7.1	<10	<2
1096351	Soil	0.28	8.5	0.8	<0.05	2.8	9.86	12.7	0.03	<1	0.9	34.7	<10	<2
1096352	Soil	0.26	10.0	1.0	<0.05	1.8	12.88	21.0	0.04	<1	1.2	40.5	<10	2
1096353	Soil	0.20	8.9	1.2	<0.05	2.1	23.38	17.5	0.04	<1	1.2	42.0	<10	<2
1096354	Soil	0.19	8.6	2.3	<0.05	2.8	13.82	18.1	0.03	<1	1.1	38.1	<10	<2
1096355	Soil	0.22	8.0	2.0	<0.05	3.2	14.18	21.1	0.05	<1	1.0	42.9	<10	<2
1096356	Soil	0.10	8.0	2.1	<0.05	2.1	10.40	17.8	0.04	<1	1.2	46.8	<10	<2
1096357	Soil	0.21	8.9	1.4	<0.05	2.4	13.69	20.9	0.04	<1	1.3	44.2	<10	<2
1096358	Soil	0.15	8.2	2.9	<0.05	2.7	8.36	13.8	0.04	<1	1.0	35.8	<10	<2
1096359	Soil	0.14	9.8	5.1	<0.05	2.2	12.52	14.0	0.06	<1	1.6	41.4	<10	<2
1096360	Soil	0.30	10.5	3.3	<0.05	2.4	10.43	14.9	0.03	<1	1.0	44.1	<10	<2
1096361	Soil	0.29	7.0	1.3	<0.05	2.9	8.33	16.9	0.03	<1	0.9	38.4	<10	<2
1096362	Soil	0.30	7.4	0.7	<0.05	3.4	10.23	15.9	0.03	<1	1.1	38.3	<10	<2
1096363	Soil	0.20	7.2	1.8	<0.05	3.5	10.10	18.7	0.04	<1	0.9	35.1	<10	<2
1096364	Soil	0.24	8.2	1.8	<0.05	3.1	11.01	14.9	0.04	4	0.9	43.3	<10	2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

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Report Date: September 23, 2011

Page: 5 of 13 Part 1

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1096365	Soil			0.41	29.84	17.17	78.2	138	27.4	12.8	353	2.75	9.4	1.6	1.9	2.8	76.0	0.10	0.37	0.35	18	1.16	0.048
1096366	Soil			0.36	31.66	19.68	82.5	135	27.7	11.8	310	2.85	9.3	1.2	2.4	3.0	66.3	0.11	0.38	0.33	19	0.98	0.042
1096367	Soil			0.24	34.61	17.18	82.8	109	26.5	12.4	345	2.35	6.4	1.5	1.9	2.6	62.3	0.09	0.30	0.32	15	1.07	0.051
1096368	Soil			0.39	41.21	21.94	95.6	90	32.4	16.5	462	3.28	10.0	1.2	1.5	3.3	65.1	0.08	0.50	0.35	18	1.01	0.048
1096369	Soil			0.69	23.80	35.24	110.7	205	29.8	10.4	272	2.39	23.1	1.4	0.9	5.4	70.1	0.15	0.68	0.34	11	2.40	0.040
1096370	Soil			0.73	22.84	95.46	86.1	578	36.3	8.8	344	2.45	10.6	2.6	1.3	2.7	88.8	0.20	0.39	0.30	12	2.83	0.162
1096371	Soil			0.47	19.13	19.79	79.4	254	22.4	5.6	135	2.03	7.9	2.1	0.9	0.7	132.0	0.43	0.34	0.29	19	2.42	0.075
1096372	Soil			0.56	17.49	31.93	31.8	67	21.0	7.8	179	2.34	16.6	0.8	1.8	2.3	18.0	0.07	1.68	0.31	9	0.31	0.030
1096373	Soil			0.50	11.31	11.86	39.6	68	9.7	4.7	269	1.16	3.2	1.3	0.7	0.3	107.6	0.24	0.28	0.21	11	3.40	0.078
1096374	Soil			0.68	15.31	33.16	108.3	164	23.5	7.9	3757	6.39	18.8	2.1	1.5	1.8	34.0	0.66	1.21	0.19	24	5.79	0.153
1096375	Soil			0.44	10.02	23.31	24.9	30	14.3	6.6	184	2.18	4.3	1.2	0.2	1.6	42.7	0.10	0.15	0.23	13	1.14	0.041
1096376	Soil			0.79	14.29	26.46	62.9	112	21.8	7.4	333	1.91	6.1	1.7	<0.2	0.5	93.8	0.18	0.28	0.37	8	2.86	0.082
1096377	Soil			0.83	35.37	47.43	134.4	236	48.0	21.6	631	3.64	7.1	1.1	0.9	2.9	151.3	0.18	0.29	0.38	11	2.46	0.075
1096378	Soil			0.69	33.85	34.39	123.6	280	43.4	15.3	360	3.29	9.1	0.8	0.2	6.1	310.4	0.13	0.26	0.34	6	5.35	0.037
1096379	Soil			0.51	29.65	41.93	106.0	240	40.4	14.8	277	2.66	7.2	1.2	0.8	5.8	310.9	0.14	0.22	0.35	6	6.07	0.055
1096380	Soil			0.45	23.90	27.58	106.6	222	30.4	11.1	251	2.77	5.7	0.9	0.6	2.8	127.9	0.11	0.25	0.30	8	1.96	0.046
1096381	Soil			0.38	26.57	27.64	101.5	219	31.4	10.9	186	2.81	5.5	0.7	0.6	3.5	73.5	0.08	0.24	0.31	8	1.09	0.035
1096382	Soil			0.40	30.92	36.32	122.0	213	37.9	12.6	266	3.68	6.8	0.9	0.5	3.6	46.0	0.07	0.29	0.38	10	0.49	0.040
1096383	Soil			0.73	31.48	38.03	132.5	266	44.6	14.1	204	2.95	19.2	1.9	0.6	4.9	143.8	0.19	0.68	0.42	11	2.78	0.064
1096384	Soil			0.62	32.41	37.67	128.0	223	42.3	14.9	266	2.82	13.8	1.6	0.2	7.3	122.4	0.13	0.40	0.42	9	2.47	0.050
1096385	Soil			0.63	32.06	37.17	121.3	288	40.8	14.7	373	3.58	7.0	0.9	0.6	2.9	126.2	0.14	0.25	0.35	8	1.75	0.056
1096386	Soil			0.66	19.92	34.87	63.2	98	29.9	13.5	663	3.45	8.7	1.5	0.4	2.0	50.1	0.20	0.20	0.26	12	1.00	0.071
1096387	Soil			0.58	13.62	40.88	55.3	86	17.1	6.3	236	2.29	5.6	1.1	0.3	0.7	88.9	0.19	0.23	0.24	12	1.89	0.060
1096388	Soil			0.62	33.12	31.71	161.6	235	36.3	10.2	189	2.37	10.5	1.4	0.3	3.2	90.7	0.20	0.41	0.42	8	1.53	0.078
1096389	Soil			0.60	23.56	26.54	78.5	186	26.3	9.9	245	2.38	5.1	1.3	<0.2	1.1	133.8	0.13	0.21	0.28	9	2.93	0.077
1096390	Soil			0.56	32.57	30.97	115.9	290	40.3	13.6	315	2.74	7.5	1.3	<0.2	3.9	205.5	0.14	0.23	0.32	8	4.25	0.072
1096391	Soil			0.61	32.10	42.01	111.8	352	39.8	13.7	321	3.36	7.9	1.0	0.8	1.8	115.5	0.15	0.28	0.34	7	1.74	0.080
1096392	Soil			0.56	27.92	26.36	107.3	216	35.8	12.2	296	2.72	7.2	1.1	<0.2	3.3	229.2	0.14	0.26	0.30	9	3.50	0.051
1096393	Soil			0.52	29.56	31.77	116.0	271	32.5	12.4	323	3.47	6.5	0.8	0.6	2.8	111.2	0.15	0.26	0.30	8	1.52	0.053
1096394	Soil			0.58	32.20	43.81	119.3	168	41.2	18.5	443	4.38	5.9	0.7	<0.2	4.4	12.8	0.09	0.26	0.37	10	0.11	0.040



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
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Page: 5 of 13 Part 2

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1096365	Soil	7.6	23.1	0.53	98.4	0.003	4	1.43	0.003	0.09	<0.1	6.2	0.08	0.04	169	0.2	0.07	3.9	2.62	<0.1	0.07
1096366	Soil	7.6	24.2	0.55	90.4	0.003	4	1.45	0.003	0.09	<0.1	5.5	0.07	0.03	139	0.2	0.04	4.1	2.67	<0.1	0.07
1096367	Soil	8.1	21.6	0.51	79.4	0.003	4	1.26	0.003	0.07	<0.1	6.9	0.08	0.04	132	<0.1	0.04	3.6	3.73	<0.1	0.05
1096368	Soil	6.4	23.6	0.64	91.3	0.003	5	1.51	0.003	0.09	<0.1	6.9	0.08	0.04	111	0.2	0.02	4.4	4.45	<0.1	0.06
1096369	Soil	6.5	9.9	0.71	28.7	<0.001	3	0.23	0.002	0.09	<0.1	3.7	0.17	0.07	238	0.4	0.04	1.2	0.61	<0.1	0.05
1096370	Soil	14.6	11.2	0.08	66.8	0.002	3	0.61	0.004	0.07	<0.1	2.6	0.10	0.04	290	1.0	0.05	1.5	0.43	<0.1	0.06
1096371	Soil	11.6	13.8	0.07	141.5	0.004	2	0.80	0.004	0.05	<0.1	1.5	0.12	0.09	264	0.7	0.03	1.5	0.28	<0.1	0.03
1096372	Soil	5.4	6.1	0.05	65.0	0.001	2	0.59	0.002	0.06	<0.1	3.2	0.09	0.03	49	0.2	0.03	1.5	0.99	<0.1	0.03
1096373	Soil	3.9	8.3	0.07	83.9	0.005	2	0.61	0.007	0.02	<0.1	0.8	0.07	0.19	67	0.6	<0.02	1.5	0.44	<0.1	0.05
1096374	Soil	18.1	19.2	2.53	161.9	0.005	2	1.15	0.005	0.05	<0.1	3.6	0.13	0.04	132	0.4	0.03	2.5	0.61	<0.1	0.06
1096375	Soil	8.9	7.7	0.05	83.1	0.003	3	0.43	0.003	0.06	<0.1	3.0	0.06	0.06	52	0.1	0.03	1.5	0.89	<0.1	<0.02
1096376	Soil	8.1	10.8	0.09	100.6	0.002	5	0.46	0.005	0.05	<0.1	1.5	0.05	0.14	87	0.4	0.03	1.1	0.63	<0.1	0.03
1096377	Soil	8.7	15.1	0.21	107.9	0.002	4	0.76	0.005	0.10	<0.1	4.2	0.17	0.06	70	0.4	0.04	2.0	1.74	<0.1	0.06
1096378	Soil	8.1	7.7	0.14	107.1	<0.001	4	0.44	0.004	0.12	<0.1	4.2	0.22	0.05	207	0.5	<0.02	1.1	2.05	<0.1	0.05
1096379	Soil	9.1	7.1	0.34	105.5	0.002	5	0.40	0.004	0.15	<0.1	4.0	0.24	0.03	274	0.5	<0.02	1.2	2.43	<0.1	0.04
1096380	Soil	8.4	10.4	0.18	131.4	0.001	5	0.65	0.004	0.10	<0.1	3.3	0.17	0.07	129	0.6	<0.02	1.8	1.20	<0.1	0.07
1096381	Soil	9.2	11.2	0.20	91.5	0.001	4	0.74	0.002	0.08	<0.1	3.9	0.16	0.04	124	0.3	0.03	1.9	1.49	<0.1	0.05
1096382	Soil	4.9	16.0	0.29	73.5	0.001	3	1.05	0.003	0.08	<0.1	5.0	0.12	0.03	83	0.2	<0.02	2.7	3.89	<0.1	0.06
1096383	Soil	9.4	11.0	0.29	71.0	0.002	4	0.43	0.003	0.14	<0.1	3.6	0.26	0.05	294	0.7	0.04	1.7	1.35	<0.1	0.05
1096384	Soil	9.3	10.0	0.07	56.2	0.002	5	0.45	0.004	0.17	<0.1	4.4	0.28	0.04	259	0.6	0.04	1.8	1.63	<0.1	0.04
1096385	Soil	8.7	11.1	0.20	90.1	<0.001	4	0.64	0.005	0.09	<0.1	3.7	0.16	0.07	83	0.5	<0.02	1.7	1.68	<0.1	0.04
1096386	Soil	15.5	10.0	0.08	83.1	0.002	2	0.63	0.003	0.06	<0.1	4.6	0.08	0.10	62	0.3	0.04	1.5	1.29	<0.1	<0.02
1096387	Soil	9.4	9.0	0.04	86.7	0.003	3	0.44	0.005	0.05	<0.1	2.2	0.07	0.10	105	0.4	0.02	1.3	0.89	<0.1	<0.02
1096388	Soil	15.7	7.8	0.09	89.5	0.003	7	0.47	0.005	0.14	<0.1	2.3	0.33	0.05	101	0.4	0.04	1.2	1.18	<0.1	0.05
1096389	Soil	7.8	10.2	0.13	105.3	0.002	5	0.62	0.007	0.08	<0.1	2.2	0.13	0.13	79	0.5	<0.02	1.5	0.72	<0.1	0.07
1096390	Soil	9.9	10.6	0.18	118.8	0.002	5	0.69	0.004	0.13	<0.1	3.8	0.20	0.03	156	0.5	<0.02	1.9	1.94	<0.1	0.07
1096391	Soil	12.2	8.8	0.14	127.0	<0.001	5	0.49	0.006	0.09	<0.1	3.3	0.16	0.07	187	0.7	<0.02	1.1	1.14	<0.1	0.04
1096392	Soil	9.8	10.4	0.20	120.9	0.002	7	0.69	0.006	0.13	<0.1	3.5	0.22	0.09	165	0.7	0.02	1.9	1.93	<0.1	0.05
1096393	Soil	9.7	11.7	0.18	83.2	0.001	5	0.64	0.005	0.10	<0.1	3.8	0.19	0.07	127	0.5	<0.02	1.7	1.43	<0.1	0.05
1096394	Soil	4.7	18.4	0.26	69.2	<0.001	2	1.24	0.003	0.07	<0.1	5.4	0.15	0.03	58	<0.1	0.03	2.8	5.14	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
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Page: 5 of 13 Part 3

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
		ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02		0.1	0.1	0.05	0.1	0.01	0.1	0.1	0.02	1	0.1	0.1	10	2
1096365	Soil	0.28		7.2	0.9	<0.05	3.1	13.91	16.0	0.04	<1	1.1	40.0	<10	<2	
1096366	Soil	0.27		7.8	1.9	<0.05	3.2	12.07	14.8	0.03	<1	1.0	45.3	<10	<2	
1096367	Soil	0.25		7.3	1.0	<0.05	2.1	15.65	15.7	0.04	<1	0.9	40.7	<10	<2	
1096368	Soil	0.25		8.3	1.1	<0.05	2.8	13.22	14.3	0.03	<1	1.1	47.0	<10	<2	
1096369	Soil	<0.02		4.6	1.9	<0.05	3.7	7.61	18.9	0.04	<1	0.4	1.5	<10	<2	
1096370	Soil	0.16		5.1	1.2	<0.05	1.7	18.85	53.0	0.04	<1	0.6	5.4	<10	<2	
1096371	Soil	0.38		4.3	1.1	<0.05	0.8	8.85	38.0	0.03	<1	0.6	5.1	<10	<2	
1096372	Soil	0.13		5.1	0.6	<0.05	1.0	8.07	18.7	0.02	<1	0.7	4.1	<10	<2	
1096373	Soil	0.35		2.8	3.0	<0.05	2.1	4.36	9.8	<0.02	<1	0.4	2.6	<10	<2	
1096374	Soil	0.20		5.5	0.7	<0.05	1.3	23.36	32.3	0.03	2	0.8	8.0	<10	<2	
1096375	Soil	0.25		5.1	0.7	<0.05	1.1	8.70	26.5	0.04	<1	0.4	3.0	<10	<2	
1096376	Soil	0.21		4.0	4.1	<0.05	1.1	11.57	25.7	0.02	<1	0.6	3.5	<10	<2	
1096377	Soil	0.12		7.0	6.5	<0.05	2.1	14.87	23.9	0.06	1	1.3	23.2	<10	<2	
1096378	Soil	0.03		7.2	2.0	<0.05	3.8	11.61	24.9	0.04	1	0.9	9.3	<10	<2	
1096379	Soil	0.11		9.3	4.2	<0.05	2.3	11.14	25.6	0.03	2	0.9	5.2	<10	<2	
1096380	Soil	0.20		7.1	2.0	<0.05	2.3	10.37	22.5	0.04	2	0.8	12.8	<10	<2	
1096381	Soil	0.13		7.6	2.4	<0.05	2.1	12.82	25.4	0.03	<1	0.9	15.7	<10	<2	
1096382	Soil	0.12		7.2	1.1	<0.05	2.5	11.04	13.0	0.03	<1	1.1	39.5	<10	<2	
1096383	Soil	0.11		8.3	3.7	<0.05	1.9	10.29	21.1	0.04	1	0.9	3.6	<10	<2	
1096384	Soil	0.06		10.2	2.5	<0.05	3.1	9.40	24.2	0.05	1	0.9	3.8	<10	<2	
1096385	Soil	0.08		6.7	3.0	<0.05	1.7	14.75	24.1	0.04	2	0.9	17.8	<10	<2	
1096386	Soil	0.21		6.2	0.7	<0.05	1.2	20.79	36.5	0.05	<1	1.2	7.8	<10	<2	
1096387	Soil	0.25		5.3	2.7	<0.05	0.8	9.20	39.3	0.03	2	0.5	2.8	<10	<2	
1096388	Soil	0.12		8.0	1.7	<0.05	1.6	10.37	33.8	0.03	<1	0.5	4.3	<10	<2	
1096389	Soil	0.21		5.8	1.4	<0.05	1.8	12.45	19.8	0.04	<1	0.9	9.9	<10	<2	
1096390	Soil	0.14		9.5	1.8	<0.05	2.8	12.19	26.4	0.04	2	0.8	16.0	<10	<2	
1096391	Soil	0.06		5.7	3.0	<0.05	1.4	17.11	28.6	0.05	<1	1.1	9.0	<10	<2	
1096392	Soil	0.24		9.5	1.1	<0.05	2.7	11.23	25.5	0.02	<1	0.8	12.1	<10	<2	
1096393	Soil	0.13		7.4	1.6	<0.05	1.7	12.48	27.3	0.04	<1	0.9	12.9	<10	<2	
1096394	Soil	0.09		6.9	1.9	<0.05	2.1	9.74	14.8	0.05	<1	1.4	45.6	<10	<2	



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 6 of 13 Part 1

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1096395	Soil	0.56	30.90	41.15	112.5	100	35.0	15.8	418	4.10	8.1	0.6	0.3	2.6	28.3	0.05	0.34	0.36	16	0.29	0.053
1096396	Soil	0.68	24.90	34.41	79.3	127	25.2	12.1	378	3.14	8.4	1.8	<0.2	1.4	59.5	0.08	0.31	0.30	14	1.17	0.074
1096397	Soil	0.72	18.70	27.88	91.2	29	19.8	7.7	308	3.18	7.9	0.7	<0.2	2.2	12.8	0.12	0.27	0.31	20	0.10	0.049
1096398	Soil	0.67	23.89	36.63	109.8	44	24.8	9.5	390	3.35	9.0	0.9	0.3	2.6	11.2	0.12	0.31	0.35	16	0.05	0.046
1096399	Soil	0.63	15.94	24.15	76.1	38	17.0	6.8	447	3.01	8.8	1.1	0.5	1.6	12.1	0.08	0.35	0.29	25	0.11	0.091
1097397	Soil	0.64	20.75	40.22	96.6	102	22.6	9.9	678	3.71	10.9	0.7	2.5	2.2	10.3	0.17	0.46	0.42	19	0.05	0.048
1097398	Soil	0.69	19.26	38.89	81.1	91	21.1	8.9	510	3.21	15.0	1.1	2.2	1.5	49.6	0.11	0.58	0.40	23	0.58	0.100
1097399	Soil	0.70	11.18	15.60	67.3	26	13.3	4.5	173	2.37	8.5	0.8	1.2	1.1	7.5	0.07	0.44	0.30	30	0.05	0.080
1097400	Soil	0.35	24.24	47.99	111.6	47	19.7	12.7	428	4.33	5.7	0.4	1.3	2.8	2.4	0.17	0.32	0.35	4	<0.01	0.034
1097401	Soil	1.48	19.54	22.98	61.7	107	12.6	4.6	140	2.88	8.7	0.5	1.0	0.4	7.3	0.04	0.71	0.35	43	0.02	0.058
1097402	Soil	1.07	19.24	23.55	66.3	64	17.1	6.8	172	3.28	11.6	0.7	1.3	2.6	11.3	0.11	0.68	0.32	37	0.03	0.035
1097403	Soil	0.64	29.64	36.24	54.8	225	11.7	4.3	132	3.29	5.5	0.5	0.6	2.7	11.8	0.05	0.32	0.33	15	<0.01	0.051
1097404	Soil	1.09	26.15	37.18	125.8	87	27.4	16.4	702	4.68	21.0	0.4	0.9	0.6	7.7	0.10	0.92	0.38	24	0.01	0.065
1097405	Soil	0.86	32.43	73.33	110.6	92	26.5	27.7	1486	3.82	9.7	0.5	1.0	1.4	12.8	0.17	0.35	0.43	20	0.04	0.055
1097406	Soil	0.88	36.27	86.48	136.4	153	36.9	33.6	888	4.46	29.0	0.7	0.6	1.9	18.3	0.07	0.57	0.51	20	0.07	0.047
1097407	Soil	0.76	33.87	58.45	122.1	175	37.5	26.8	707	4.31	18.9	0.7	1.1	2.7	11.6	0.08	0.51	0.50	17	0.04	0.039
1097408	Soil	1.09	32.36	55.06	92.1	262	30.5	15.7	716	3.78	9.9	0.9	1.8	1.9	46.8	0.16	0.45	0.33	14	0.70	0.116
1097409	Soil	0.90	39.51	53.73	129.9	250	35.5	22.8	565	4.23	18.6	0.8	1.0	2.1	22.4	0.12	0.69	0.37	14	0.23	0.053
1097410	Soil	1.13	35.49	60.84	105.4	302	33.9	23.1	1117	4.49	11.6	1.2	1.1	2.9	26.0	0.10	0.62	0.33	16	0.14	0.044
1097411	Soil	0.71	40.32	24.90	89.7	307	29.0	13.4	256	3.48	8.5	0.9	2.0	2.8	79.9	0.14	0.38	0.30	15	1.26	0.106
1097412	Soil	1.31	42.77	78.38	140.7	555	44.6	52.3	2413	5.74	11.4	1.7	0.9	3.5	22.3	0.25	0.69	0.36	17	0.15	0.056
1097413	Soil	1.31	25.45	43.81	77.2	210	29.3	17.4	684	3.87	10.7	1.2	1.3	3.5	54.1	0.19	0.56	0.32	18	0.60	0.057
1097414	Soil	0.65	25.34	24.64	64.0	192	22.1	10.5	397	2.40	6.0	1.2	1.6	1.5	134.4	0.15	0.33	0.23	13	2.31	0.079
1097415	Soil	0.51	25.48	23.11	59.9	343	21.6	11.7	285	2.64	7.8	1.1	1.7	2.4	153.8	0.14	0.44	0.22	14	2.10	0.132
1097416	Soil	0.49	14.12	21.98	96.9	279	16.3	5.2	232	2.45	6.0	2.3	0.9	1.5	83.3	0.22	0.25	0.29	17	0.86	0.104
1097417	Soil	0.42	19.34	22.55	90.5	70	16.6	5.7	204	3.02	6.0	0.5	0.2	1.2	13.4	0.09	0.25	0.35	14	0.04	0.059
1097418	Soil	0.56	21.63	33.41	95.3	86	22.3	9.1	511	3.84	10.8	0.7	<0.2	1.2	13.8	0.15	0.40	0.38	18	0.03	0.063
1097419	Soil	0.71	20.44	31.13	82.6	33	19.4	9.7	506	3.80	10.3	0.7	0.3	1.3	9.8	0.13	0.55	0.36	28	0.07	0.083
1097420	Soil	0.91	15.99	15.90	68.5	45	14.2	6.0	255	2.53	7.2	0.6	0.5	0.8	11.8	0.06	0.50	0.31	31	0.07	0.059
1097421	Soil	0.51	36.65	44.24	165.6	698	46.7	20.3	1355	6.32	8.0	1.0	0.9	5.2	21.2	0.54	0.34	0.51	11	0.20	0.046



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 6 of 13 Part 2

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1096395	Soil	3.9	20.7	0.31	59.4	0.001	2	1.30	0.002	0.09	<0.1	3.4	0.14	0.04	45	0.2	0.03	3.4	4.62	<0.1	0.04
1096396	Soil	3.7	13.5	0.16	82.6	0.002	3	0.83	0.005	0.07	<0.1	3.0	0.11	0.08	52	0.4	0.03	2.2	2.44	<0.1	0.04
1096397	Soil	6.2	15.3	0.15	103.1	0.002	1	1.06	0.002	0.07	<0.1	2.7	0.14	0.03	28	0.2	0.03	3.2	1.52	<0.1	0.03
1096398	Soil	7.6	14.0	0.12	78.7	0.001	2	0.96	0.002	0.08	<0.1	3.4	0.19	0.03	77	0.3	<0.02	2.7	2.24	<0.1	0.04
1096399	Soil	9.1	18.7	0.14	91.1	0.002	1	1.35	0.001	0.06	<0.1	2.6	0.17	0.05	48	0.2	0.03	3.7	1.51	<0.1	0.04
1097397	Soil	6.7	13.6	0.10	78.8	0.002	3	0.74	<0.001	0.07	<0.1	2.2	0.17	<0.02	92	0.3	0.05	2.3	1.15	<0.1	<0.02
1097398	Soil	8.5	16.7	0.20	195.8	0.003	2	1.07	0.002	0.06	<0.1	2.5	0.15	0.05	220	0.3	0.04	3.0	1.23	<0.1	0.06
1097399	Soil	7.7	20.4	0.22	74.0	0.004	2	1.37	0.001	0.05	0.1	1.4	0.14	0.04	36	0.2	0.03	4.1	2.13	<0.1	0.03
1097400	Soil	6.8	6.2	0.08	19.9	<0.001	2	0.42	0.001	0.04	<0.1	2.5	0.15	<0.02	124	0.1	0.03	0.7	1.61	<0.1	<0.02
1097401	Soil	6.6	17.2	0.11	49.6	0.007	1	1.23	<0.001	0.04	0.1	0.9	0.16	0.04	47	0.4	0.05	5.4	3.55	<0.1	<0.02
1097402	Soil	9.4	19.2	0.19	66.4	0.009	2	1.32	0.002	0.05	0.1	2.0	0.15	0.02	25	0.3	0.05	4.5	2.47	<0.1	0.03
1097403	Soil	3.2	18.8	0.22	30.1	0.002	2	1.24	0.002	0.07	<0.1	2.3	0.11	0.05	38	0.3	0.03	3.3	4.85	<0.1	0.04
1097404	Soil	3.6	13.6	0.09	44.6	0.002	2	1.04	0.001	0.07	<0.1	1.8	0.09	0.03	38	0.4	0.08	2.9	5.57	<0.1	0.03
1097405	Soil	3.0	22.6	0.22	75.9	0.002	2	1.27	0.003	0.09	<0.1	3.0	0.09	0.03	48	0.2	0.08	3.1	8.94	<0.1	0.04
1097406	Soil	3.3	15.9	0.22	86.2	0.001	2	1.23	0.003	0.09	<0.1	3.9	0.15	0.03	36	0.3	0.12	3.0	10.46	<0.1	0.03
1097407	Soil	3.6	16.3	0.23	92.6	0.001	2	1.29	0.002	0.07	<0.1	3.3	0.22	0.02	64	0.4	0.10	3.0	4.81	<0.1	0.04
1097408	Soil	4.6	18.9	0.18	142.4	0.002	3	0.91	0.004	0.09	<0.1	4.1	0.11	0.07	121	0.3	0.06	2.2	3.71	<0.1	0.05
1097409	Soil	2.5	14.7	0.20	51.4	0.001	2	0.76	0.003	0.08	<0.1	3.9	0.09	0.04	57	0.3	0.05	2.1	2.92	<0.1	0.03
1097410	Soil	3.9	19.2	0.26	61.6	0.002	3	1.02	0.002	0.07	<0.1	4.5	0.11	0.03	80	0.3	0.07	2.6	4.16	<0.1	0.04
1097411	Soil	5.3	15.2	0.26	76.7	0.001	4	0.69	0.004	0.07	<0.1	6.5	0.09	0.08	99	0.5	0.05	2.1	1.47	<0.1	0.09
1097412	Soil	4.3	17.7	0.23	95.3	0.001	3	1.05	0.002	0.08	<0.1	6.3	0.11	0.02	88	0.3	0.05	2.5	4.08	<0.1	0.05
1097413	Soil	7.3	23.4	0.25	95.4	0.002	3	1.11	0.004	0.09	<0.1	4.8	0.10	0.04	59	0.3	0.04	3.1	2.09	<0.1	0.04
1097414	Soil	5.1	17.8	0.30	101.2	0.002	5	0.80	0.006	0.06	<0.1	3.7	0.08	0.09	61	0.5	0.04	2.4	1.35	<0.1	0.05
1097415	Soil	6.8	17.6	0.33	115.6	0.002	4	0.99	0.005	0.07	<0.1	5.4	0.11	0.08	80	0.5	0.04	3.0	2.95	<0.1	0.05
1097416	Soil	8.7	14.7	0.16	219.0	0.002	2	1.00	0.005	0.07	<0.1	2.7	0.12	0.10	86	0.7	0.03	2.8	1.84	<0.1	0.07
1097417	Soil	3.3	11.2	0.07	53.3	0.001	2	0.62	0.002	0.07	<0.1	2.3	0.12	0.03	40	0.2	0.03	2.4	2.03	<0.1	<0.02
1097418	Soil	5.4	12.7	0.09	64.5	0.002	2	0.79	0.002	0.08	<0.1	2.3	0.16	0.03	70	0.2	0.03	2.1	1.87	<0.1	<0.02
1097419	Soil	6.5	17.4	0.17	91.5	0.004	2	1.28	0.002	0.07	<0.1	2.1	0.18	0.04	58	0.3	0.06	3.7	1.61	<0.1	0.03
1097420	Soil	7.3	15.5	0.12	81.3	0.004	2	1.12	0.002	0.06	0.1	1.4	0.17	0.02	39	0.2	0.03	4.1	2.52	<0.1	0.02
1097421	Soil	13.4	9.5	0.11	105.2	<0.001	2	0.87	0.002	0.06	<0.1	10.2	0.28	0.04	265	0.6	0.05	1.5	2.73	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 6 of 13 Part 3

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1096395	Soil	0.14	8.7	4.2	<0.05	1.4	6.55	9.4	0.04	<1	1.3	50.3	<10	<2
1096396	Soil	0.21	8.0	2.5	<0.05	1.7	7.89	11.0	0.03	<1	0.9	19.3	<10	<2
1096397	Soil	0.20	10.7	2.5	<0.05	0.9	5.21	17.6	0.04	1	0.8	12.3	<10	<2
1096398	Soil	0.11	12.1	0.8	<0.05	1.0	7.99	22.5	0.04	<1	0.9	12.1	<10	<2
1096399	Soil	0.23	13.3	1.3	<0.05	1.7	8.46	24.3	0.03	<1	0.7	10.9	<10	<2
1097397	Soil	0.21	8.0	0.9	<0.05	0.5	5.19	28.0	0.05	<1	0.7	6.4	<10	<2
1097398	Soil	0.27	9.5	2.3	<0.05	1.4	8.18	20.2	0.04	1	0.9	15.3	<10	<2
1097399	Soil	0.37	9.8	0.7	<0.05	0.7	3.70	18.9	0.03	<1	0.5	18.7	<10	<2
1097400	Soil	0.23	4.5	2.3	<0.05	0.5	5.00	17.4	0.04	3	0.5	4.5	<10	<2
1097401	Soil	0.43	11.1	1.5	<0.05	0.1	2.15	13.2	0.03	<1	0.3	9.8	<10	<2
1097402	Soil	0.45	10.2	0.9	<0.05	1.0	3.31	20.3	0.03	<1	0.5	17.5	<10	<2
1097403	Soil	0.17	7.5	2.0	<0.05	1.2	1.89	7.6	0.05	<1	0.5	34.1	<10	<2
1097404	Soil	0.11	11.3	3.1	<0.05	0.7	4.15	7.7	0.04	<1	0.6	16.5	<10	<2
1097405	Soil	0.16	11.7	11.8	<0.05	1.5	4.32	6.7	0.05	<1	1.3	35.9	<10	<2
1097406	Soil	0.07	12.6	2.6	<0.05	0.9	7.62	8.8	0.05	<1	1.4	46.8	<10	<2
1097407	Soil	0.09	10.2	3.4	<0.05	1.4	6.92	10.0	0.05	<1	1.1	42.4	<10	<2
1097408	Soil	0.12	7.1	10.1	<0.05	1.1	13.72	14.5	0.05	<1	1.2	21.5	<10	<2
1097409	Soil	0.08	7.0	3.6	<0.05	1.0	8.82	7.3	0.04	<1	0.9	19.8	<10	<2
1097410	Soil	0.06	7.0	8.7	<0.05	1.3	12.62	12.8	0.04	<1	1.1	34.3	<10	<2
1097411	Soil	0.14	5.8	4.1	<0.05	2.1	18.92	14.0	0.05	<1	1.2	20.7	<10	<2
1097412	Soil	0.05	7.2	5.0	<0.05	2.0	21.90	13.0	0.05	<1	1.3	31.4	<10	<2
1097413	Soil	0.23	9.1	3.7	<0.05	1.6	17.32	24.5	0.04	<1	1.1	28.8	<10	<2
1097414	Soil	0.18	6.2	5.3	<0.05	1.9	12.69	15.6	0.03	<1	0.7	28.1	<10	<2
1097415	Soil	0.21	8.7	2.2	<0.05	1.6	18.30	17.0	0.03	<1	0.8	33.9	<10	<2
1097416	Soil	0.35	12.3	1.2	<0.05	1.7	10.90	18.2	0.04	<1	0.9	19.8	<10	<2
1097417	Soil	0.10	10.7	1.2	<0.05	0.3	3.84	8.4	0.04	<1	0.6	5.7	<10	<2
1097418	Soil	0.14	11.0	1.7	<0.05	0.4	5.23	18.2	0.04	<1	0.7	6.1	<10	<2
1097419	Soil	0.31	11.3	0.9	<0.05	0.5	7.00	22.3	0.04	<1	0.8	14.8	<10	<2
1097420	Soil	0.31	14.8	0.8	<0.05	0.5	4.11	16.8	0.02	1	0.4	8.9	<10	<2
1097421	Soil	0.05	9.0	0.7	<0.05	2.2	43.59	39.0	0.06	<1	2.0	12.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 23, 2011

Page: 7 of 13 Part 1

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1097422	Soil			0.83	30.59	66.18	111.5	163	39.4	25.8	506	3.81	17.5	0.7	1.1	2.8	19.9	0.07	0.62	0.45	13	0.11	0.042
1097423	Soil			0.73	22.64	31.57	108.3	187	26.8	15.6	1559	3.29	11.8	0.5	0.6	0.2	19.2	0.17	0.59	0.33	17	0.27	0.105
1097424	Soil			0.50	36.98	42.31	108.9	229	36.0	16.2	483	4.56	12.8	0.7	0.4	2.7	93.7	0.12	0.36	0.40	10	1.39	0.077
1097425	Soil			0.45	25.12	29.64	88.6	219	27.9	11.3	414	3.09	7.7	0.8	0.7	1.5	95.4	0.12	0.30	0.33	10	1.27	0.108
1097451	Soil			0.67	29.58	50.92	102.8	121	29.9	14.4	469	4.97	6.6	0.7	0.7	2.3	15.2	0.15	0.28	0.42	13	0.07	0.107
1097452	Soil			0.66	25.74	35.96	110.0	212	27.4	12.5	585	4.14	8.5	0.9	0.5	2.2	45.2	0.17	0.38	0.46	19	0.63	0.088
1097453	Soil			0.72	22.25	26.28	91.6	156	29.0	9.4	267	3.38	10.9	1.2	0.9	2.7	32.2	0.18	0.41	0.31	25	0.40	0.059
1097454	Soil			0.72	30.31	32.62	120.0	295	36.8	13.1	691	3.67	9.7	0.7	0.5	5.3	49.7	0.18	0.35	0.37	11	0.61	0.035
1097455	Soil			0.90	30.16	43.25	102.7	217	35.6	14.2	413	3.21	8.1	0.9	0.7	3.9	230.2	0.14	0.28	0.36	8	4.65	0.067
1097456	Soil			0.70	29.18	25.83	142.5	262	41.9	12.0	200	3.05	9.3	2.5	0.5	3.5	156.8	0.17	0.30	0.32	8	3.16	0.115
1097457	Soil			0.86	35.52	39.96	155.6	295	48.5	19.6	543	4.02	10.5	1.3	0.4	6.4	341.7	0.17	0.34	0.39	6	5.68	0.069
1097458	Soil			2.28	34.33	112.9	73.4	217	54.2	17.5	619	3.76	8.6	0.8	1.9	3.2	40.7	0.11	0.39	0.49	8	1.19	0.051
1097459	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097460	Soil			0.70	35.92	60.09	124.6	159	44.3	19.0	479	6.14	7.5	0.9	1.8	5.3	21.8	0.15	0.34	0.49	10	0.15	0.053
1097461	Soil			1.74	28.96	41.68	116.5	189	37.4	14.9	517	3.15	6.9	0.8	1.4	2.1	94.3	0.23	0.37	0.46	10	2.00	0.093
1097462	Soil			0.82	33.23	37.36	89.6	435	29.9	14.5	428	3.28	10.1	2.5	1.9	2.1	101.3	0.08	0.46	0.35	14	1.37	0.068
1097463	Soil			1.09	19.18	36.17	81.0	122	23.9	10.0	290	3.65	10.0	0.8	1.7	2.4	7.6	0.14	0.36	0.37	19	0.04	0.063
1097464	Soil			0.54	22.69	27.03	73.6	181	22.7	9.7	555	3.47	8.3	1.2	0.9	1.3	80.6	0.11	0.35	0.37	23	1.64	0.142
1097465	Soil			0.69	36.94	42.75	137.1	288	37.2	15.0	381	4.64	9.6	0.9	0.7	3.6	53.2	0.14	0.37	0.52	14	0.46	0.046
1097466	Soil			0.62	18.63	22.30	122.4	195	19.1	8.5	610	2.86	6.0	1.7	0.4	0.4	141.3	0.38	0.26	0.24	15	4.24	0.120
1097467	Soil			1.59	39.04	57.08	97.1	331	27.6	14.6	457	4.43	8.3	0.8	0.9	2.5	33.1	0.07	0.43	0.38	21	0.24	0.063
1097468	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1097469	Soil			0.80	42.74	50.82	149.0	336	49.5	23.2	663	4.90	10.3	1.3	1.0	6.3	90.8	0.09	0.36	0.52	13	1.18	0.080
1097470	Soil			0.76	27.51	35.37	79.9	266	41.9	15.8	474	3.16	7.5	0.7	0.9	6.1	550.7	0.08	0.24	0.31	7	9.13	0.028
1097471	Soil			1.30	32.60	55.58	84.7	423	33.4	22.8	1259	4.11	8.3	1.4	0.9	2.1	55.1	0.13	0.48	0.31	16	1.02	0.111
1097472	Soil			0.98	31.69	60.82	82.9	204	24.2	11.7	340	4.12	9.4	0.7	1.2	2.8	34.8	0.06	0.35	0.36	13	0.14	0.063
1097473	Soil			5.35	35.89	84.39	96.9	295	59.7	25.0	966	3.77	18.2	0.9	2.6	3.0	79.9	0.15	0.79	0.40	14	1.01	0.081
1097433	Soil			0.88	30.12	26.89	76.7	169	30.0	15.0	405	3.73	7.4	0.7	1.0	2.9	98.8	0.10	0.35	0.28	18	1.89	0.073
1097434	Soil			0.61	28.71	28.50	81.4	528	29.7	21.0	492	4.04	12.5	0.8	1.1	7.3	45.4	0.12	0.47	0.38	20	0.62	0.091
1096551	Soil			0.70	19.49	45.49	99.7	162	21.1	9.9	5356	8.61	34.7	1.8	1.2	1.6	13.7	0.84	2.32	0.27	35	3.41	0.159



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
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Page: 7 of 13 Part 2

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097422	Soil	3.8	16.5	0.20	119.9	0.001	3	0.92	0.004	0.11	<0.1	4.7	0.14	0.02	83	0.2	0.05	2.3	7.39	<0.1	0.04
1097423	Soil	2.5	10.2	0.07	79.7	0.002	2	0.57	0.006	0.08	<0.1	0.9	0.17	0.08	136	0.2	0.07	2.3	3.21	<0.1	<0.02
1097424	Soil	4.2	7.5	0.07	88.5	<0.001	3	0.44	0.005	0.07	<0.1	4.5	0.16	0.05	125	0.3	0.03	1.1	2.00	<0.1	0.05
1097425	Soil	5.9	9.2	0.10	90.4	<0.001	3	0.68	0.006	0.08	<0.1	3.6	0.17	0.09	193	0.3	0.05	1.4	0.74	<0.1	0.09
1097451	Soil	2.7	15.1	0.10	82.1	<0.001	2	0.87	0.003	0.09	<0.1	3.5	0.17	0.08	67	0.2	0.04	2.1	5.05	<0.1	0.03
1097452	Soil	6.3	12.9	0.10	146.7	0.002	1	0.86	0.006	0.06	<0.1	3.8	0.16	0.05	42	0.3	0.05	2.1	1.22	<0.1	0.05
1097453	Soil	9.8	19.0	0.21	108.7	0.003	2	1.71	0.004	0.07	<0.1	2.9	0.15	0.04	43	0.4	0.02	3.2	1.27	<0.1	0.04
1097454	Soil	12.5	14.3	0.18	92.9	0.002	3	0.64	0.006	0.08	<0.1	4.7	0.15	0.04	77	0.4	0.03	1.8	0.95	<0.1	0.06
1097455	Soil	5.5	12.3	0.18	72.4	<0.001	4	0.49	0.008	0.10	<0.1	4.3	0.13	0.08	50	0.5	0.03	1.4	1.16	<0.1	0.06
1097456	Soil	12.5	8.4	0.11	135.2	0.001	6	0.46	0.011	0.15	<0.1	2.6	0.31	0.11	123	1.0	0.03	1.3	0.82	<0.1	0.14
1097457	Soil	6.8	9.9	0.18	112.7	<0.001	3	0.49	0.006	0.09	<0.1	4.4	0.23	0.10	201	0.7	<0.02	1.4	1.90	<0.1	0.09
1097458	Soil	9.8	23.1	0.19	101.6	0.001	5	0.32	0.005	0.10	<0.1	5.2	0.14	0.09	146	0.4	0.04	0.8	1.76	<0.1	0.07
1097459	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097460	Soil	5.8	18.3	0.18	68.2	0.001	2	1.21	0.004	0.07	<0.1	4.8	0.23	0.05	76	<0.1	0.04	2.5	4.55	<0.1	0.08
1097461	Soil	4.4	24.3	0.17	81.2	0.002	7	0.61	0.010	0.10	<0.1	3.6	0.15	0.13	85	<0.1	0.03	1.4	3.23	<0.1	0.08
1097462	Soil	3.8	17.7	0.27	118.4	0.001	4	0.91	0.014	0.07	<0.1	4.1	0.13	0.09	74	0.4	0.03	2.4	3.40	<0.1	0.10
1097463	Soil	4.7	22.0	0.18	56.9	0.003	2	1.04	0.003	0.07	<0.1	2.6	0.13	0.04	38	<0.1	0.07	3.0	2.41	<0.1	0.02
1097464	Soil	8.2	15.0	0.10	116.5	0.003	2	0.87	0.005	0.05	<0.1	2.9	0.11	0.11	52	0.4	0.03	2.1	0.89	<0.1	0.05
1097465	Soil	7.4	10.3	0.07	92.2	0.001	2	0.75	0.005	0.07	<0.1	6.3	0.14	0.03	50	0.3	0.06	1.7	0.91	<0.1	0.05
1097466	Soil	5.9	11.1	0.09	91.4	0.002	2	0.62	0.013	0.04	<0.1	1.1	0.08	0.13	55	0.5	0.04	1.4	0.56	<0.1	<0.02
1097467	Soil	5.2	26.9	0.23	63.1	0.002	1	1.19	0.006	0.09	<0.1	3.5	0.19	0.04	26	0.4	0.05	3.4	7.80	<0.1	0.03
1097468	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1097469	Soil	4.7	13.7	0.21	85.1	<0.001	2	0.78	0.006	0.09	<0.1	6.0	0.22	0.11	56	0.3	0.06	1.9	2.46	<0.1	0.06
1097470	Soil	7.4	10.5	0.18	149.2	0.002	4	0.40	0.004	0.13	<0.1	4.2	0.27	0.08	182	0.5	<0.02	1.2	3.33	<0.1	0.08
1097471	Soil	5.7	25.6	0.22	74.5	0.003	3	1.14	0.007	0.08	<0.1	4.1	0.13	0.09	93	0.2	0.04	2.5	5.62	<0.1	0.04
1097472	Soil	3.0	22.0	0.14	49.9	0.002	3	0.85	0.008	0.10	<0.1	3.0	0.18	0.10	42	0.1	0.02	2.6	5.96	<0.1	0.02
1097473	Soil	4.8	62.7	0.28	106.3	0.003	4	0.91	0.008	0.11	0.1	5.1	0.12	0.08	86	0.3	0.07	2.6	4.87	<0.1	0.08
1097433	Soil	7.1	21.9	0.36	93.6	0.002	4	1.03	0.007	0.07	<0.1	6.3	0.10	0.08	55	0.2	0.05	3.1	1.53	<0.1	0.06
1097434	Soil	7.1	29.2	0.43	84.4	0.002	4	1.71	0.004	0.09	<0.1	8.2	0.14	0.06	86	0.1	0.04	4.5	5.30	<0.1	0.05
1096551	Soil	16.3	22.4	1.64	151.9	0.007	3	1.34	0.005	0.06	<0.1	3.0	0.13	0.09	211	0.6	0.15	3.3	0.49	<0.1	0.04



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 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 7 of 13 Part 3

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1097422	Soil	0.04	9.2	8.4	<0.05	1.6	10.60	11.5	0.05	<1	1.3	32.0	<10	<2
1097423	Soil	0.08	10.8	1.4	<0.05	<0.1	3.44	6.2	0.04	<1	0.5	5.8	<10	<2
1097424	Soil	0.04	5.3	0.5	<0.05	1.8	11.87	12.7	0.06	<1	0.9	7.1	<10	<2
1097425	Soil	0.13	5.8	1.5	<0.05	2.1	13.27	14.8	0.04	1	0.9	9.4	<10	<2
1097451	Soil	0.11	9.3	3.9	<0.05	0.9	5.59	8.9	0.05	<1	1.1	13.1	<10	<2
1097452	Soil	0.21	10.5	2.1	<0.05	1.3	11.38	23.3	0.06	<1	0.9	9.8	<10	<2
1097453	Soil	0.43	10.0	1.1	<0.05	1.3	8.39	36.9	0.04	<1	0.9	15.7	<10	<2
1097454	Soil	0.12	5.8	1.4	<0.05	3.2	14.08	36.7	0.04	<1	0.9	11.6	<10	<2
1097455	Soil	0.05	5.5	5.9	<0.05	3.5	11.86	16.3	0.05	<1	0.9	17.0	<10	<2
1097456	Soil	0.19	8.6	1.1	<0.05	4.0	12.41	27.9	0.03	1	0.6	5.8	<10	<2
1097457	Soil	0.03	6.3	1.7	<0.05	4.5	14.09	21.5	0.04	1	1.0	14.3	<10	<2
1097458	Soil	0.05	6.2	6.2	<0.05	2.6	17.30	30.8	0.06	<1	1.1	3.7	<10	<2
1097459	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097460	Soil	0.08	7.2	7.5	<0.05	3.6	12.71	22.2	0.06	<1	1.4	24.8	<10	<2
1097461	Soil	0.11	8.1	5.9	<0.05	2.9	11.51	14.3	0.04	<1	0.9	17.5	<10	<2
1097462	Soil	0.15	9.2	3.8	<0.05	3.4	12.84	11.0	0.05	<1	0.9	27.6	<10	<2
1097463	Soil	0.30	11.1	2.1	<0.05	1.4	5.13	14.0	0.04	<1	0.7	17.2	<10	<2
1097464	Soil	0.25	8.7	0.8	<0.05	1.7	11.07	23.1	0.05	<1	1.1	6.1	<10	<2
1097465	Soil	0.08	7.2	0.9	<0.05	1.8	17.92	21.5	0.06	<1	1.3	7.5	<10	<2
1097466	Soil	0.17	5.6	3.7	<0.05	0.6	8.41	16.1	0.02	<1	0.6	4.9	<10	<2
1097467	Soil	0.11	10.7	3.9	<0.05	1.3	7.62	13.7	0.05	<1	0.8	30.9	<10	<2
1097468	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1097469	Soil	0.04	6.4	1.6	<0.05	4.0	15.44	16.5	0.06	1	1.0	23.0	<10	<2
1097470	Soil	0.05	10.3	5.3	<0.05	6.1	11.19	22.4	0.04	<1	0.8	9.0	<10	<2
1097471	Soil	0.18	9.2	2.7	<0.05	1.8	16.25	20.7	0.04	<1	1.7	27.4	<10	<2
1097472	Soil	0.11	10.2	8.3	<0.05	1.2	3.83	7.9	0.04	<1	0.9	17.3	<10	<2
1097473	Soil	0.14	10.4	25.5	<0.05	3.8	15.99	16.4	0.06	3	1.2	30.6	<10	<2
1097433	Soil	0.17	6.5	2.9	<0.05	2.1	17.78	23.0	0.04	<1	1.1	31.3	<10	<2
1097434	Soil	0.29	12.6	1.2	<0.05	1.9	20.94	25.4	0.05	<1	1.5	57.7	<10	<2
1096551	Soil	0.26	5.9	1.2	<0.05	1.6	17.44	30.7	0.03	<1	0.6	6.8	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 8 of 13 Part 1

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1096552	Soil			0.65	16.59	26.81	90.2	144	23.1	8.4	656	4.03	18.6	0.8	0.7	2.4	14.8	0.15	0.91	0.38	28	0.72	0.070
1096553	Soil			0.56	23.99	87.72	191.0	331	36.1	13.7	1423	4.68	42.4	0.8	3.3	3.0	35.8	0.25	3.96	0.41	15	1.27	0.058
1096554	Soil			0.41	28.35	40.27	95.2	168	26.3	12.3	310	4.33	7.3	0.4	0.7	3.5	12.8	0.06	0.23	0.38	11	0.09	0.024
1096555	Soil			0.54	23.69	47.48	99.9	281	28.7	17.7	1121	3.27	12.0	0.7	0.6	1.8	50.9	0.27	0.61	0.35	13	0.98	0.102
1096556	Soil			0.57	37.29	41.09	84.2	325	37.9	15.9	381	4.24	13.4	1.0	1.2	1.6	150.4	0.09	0.52	0.31	13	2.58	0.094
1096557	Soil			1.67	36.32	51.61	100.5	328	42.4	25.9	916	5.27	13.8	2.3	0.9	6.6	52.2	0.13	0.61	0.33	28	0.65	0.085
1096558	Soil			0.87	29.07	23.49	56.6	319	22.6	15.1	1163	3.13	5.1	3.1	<0.2	1.1	127.9	0.40	0.29	0.21	18	2.40	0.149
1096559	Soil			0.43	23.05	18.55	42.8	211	19.0	7.3	199	2.44	5.0	1.6	0.9	0.9	175.2	0.10	0.27	0.23	15	2.60	0.093
1096560	Soil			1.25	27.48	42.19	84.7	201	24.7	25.0	1559	4.77	10.9	0.9	<0.2	4.2	81.3	0.27	0.47	0.39	34	0.75	0.100
1096561	Soil			1.02	39.54	41.57	74.2	305	34.3	29.1	2117	4.30	9.4	0.5	<0.2	1.8	82.6	0.40	0.51	0.39	30	0.80	0.079
1096562	Soil			0.49	40.12	19.04	38.7	211	22.7	9.4	323	2.55	4.1	2.7	1.3	1.0	370.7	0.07	0.23	0.28	17	3.36	0.114
1096563	Soil			0.63	31.29	42.22	86.8	283	37.3	20.9	537	4.41	16.5	1.1	1.3	4.7	101.4	0.08	0.45	0.38	20	1.49	0.042
1096564	Soil			1.71	49.27	69.48	95.6	315	32.0	53.0	2274	4.86	44.6	0.5	0.4	2.6	23.4	0.12	1.03	0.34	32	0.16	0.061
1096565	Soil			0.78	26.31	36.84	89.8	78	23.1	20.1	1256	5.06	15.5	0.4	0.2	2.0	55.3	0.10	0.43	0.40	35	0.30	0.048
1096566	Soil			0.29	5.91	18.45	31.7	76	6.1	3.5	2450	2.62	13.8	0.8	2.4	0.3	63.6	0.21	1.06	0.05	8	13.14	0.088
1096567	Soil			0.34	10.34	32.02	35.1	159	9.5	5.9	1943	2.44	16.6	0.7	15.7	0.5	53.6	0.19	2.55	0.10	11	10.87	0.099
1096568	Soil			0.40	19.24	35.07	35.9	134	21.1	12.3	1273	3.13	19.8	0.7	3.1	2.1	42.2	0.12	1.69	0.26	20	8.32	0.104
1096569	Soil			0.58	17.00	36.67	64.1	125	18.7	10.3	1754	4.09	18.1	0.8	1.9	1.3	25.0	0.40	1.38	0.28	25	3.61	0.118
1096570	Soil			0.51	13.34	23.30	54.8	154	14.5	7.3	1480	2.62	19.2	0.8	3.0	0.7	45.5	0.32	1.82	0.16	17	11.21	0.146
1096571	Soil			0.80	15.44	30.58	99.4	120	19.8	9.3	2645	5.58	16.3	1.2	2.0	3.6	10.5	0.55	1.00	0.30	38	1.00	0.051
1096572	Soil			0.63	12.34	29.42	79.8	53	20.2	9.6	707	4.00	10.3	0.6	3.3	3.9	10.4	0.16	0.51	0.31	33	0.30	0.022
1096573	Soil			0.73	16.68	40.50	128.8	154	20.1	9.8	3239	5.38	27.3	1.6	2.2	2.6	26.6	0.48	1.96	0.26	33	2.77	0.141
1096574	Soil			0.71	15.20	29.98	100.1	142	18.1	8.9	2095	3.91	19.4	1.1	3.1	1.1	46.2	0.37	1.25	0.25	29	4.83	0.109
1096575	Soil			0.49	23.59	19.94	89.8	108	24.4	11.1	596	2.69	11.3	0.6	1.9	2.6	94.1	0.24	0.78	0.23	19	4.81	0.063
1096050	Soil			0.91	51.94	70.14	127.2	238	38.0	26.7	1745	4.84	16.3	0.8	1.2	3.7	31.4	0.11	0.63	0.67	23	0.27	0.063
1098501	Soil			0.71	14.00	28.47	77.1	149	20.7	9.6	2614	4.85	16.9	0.9	1.9	1.5	16.9	0.50	1.04	0.29	39	1.46	0.110
1098502	Soil			0.77	16.22	35.08	96.0	102	20.8	9.1	2245	5.46	20.6	1.2	1.2	2.6	10.0	0.38	1.37	0.28	35	0.74	0.066
1098503	Soil			0.68	16.37	50.08	323.6	177	16.8	8.3	2948	4.31	27.4	1.3	5.7	0.9	28.2	1.74	2.36	0.22	24	5.21	0.174
1098504	Soil			0.68	15.80	37.06	102.3	169	14.7	7.4	5128	5.94	23.0	1.1	2.5	0.7	27.6	0.69	2.04	0.19	27	5.07	0.202
1098505	Soil			0.54	19.34	21.85	63.6	108	18.6	8.5	621	2.87	10.3	1.1	1.3	1.1	39.7	0.22	0.57	0.26	23	1.22	0.061



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
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Page: 8 of 13 Part 2

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1096552	Soil	11.1	21.6	0.38	109.1	0.006	3	1.32	0.002	0.08	<0.1	3.9	0.11	0.05	118	0.3	0.04	3.3	1.40	<0.1	0.07
1096553	Soil	13.8	10.3	0.34	109.6	<0.001	3	0.42	0.002	0.10	<0.1	6.2	0.12	0.05	271	0.3	0.06	1.1	0.58	<0.1	0.06
1096554	Soil	6.8	12.6	0.18	81.3	<0.001	2	0.93	<0.001	0.09	<0.1	3.4	0.26	<0.02	42	0.1	0.03	2.2	2.41	<0.1	<0.02
1096555	Soil	6.3	13.2	0.18	166.6	0.002	3	0.75	0.003	0.08	<0.1	3.5	0.16	0.11	87	0.3	0.03	2.1	2.31	<0.1	0.03
1096556	Soil	12.9	12.4	0.21	127.4	0.002	3	0.86	0.003	0.09	<0.1	3.4	0.11	0.07	41	0.4	0.06	1.9	1.08	<0.1	0.04
1096557	Soil	14.8	30.1	0.34	157.0	0.002	3	1.60	0.002	0.12	<0.1	12.7	0.21	0.05	49	0.3	0.05	4.5	4.80	<0.1	0.11
1096558	Soil	13.8	18.4	0.19	125.7	0.003	4	1.02	0.006	0.07	<0.1	3.6	0.07	0.16	96	0.3	0.02	2.7	1.64	<0.1	<0.02
1096559	Soil	6.7	15.1	0.18	112.2	0.003	4	0.89	0.004	0.07	<0.1	2.8	0.09	0.12	78	0.3	<0.02	2.4	1.58	<0.1	0.02
1096560	Soil	8.5	29.4	0.28	149.9	0.006	3	1.75	0.003	0.15	<0.1	7.0	0.17	0.04	33	0.2	0.06	5.9	3.91	<0.1	<0.02
1096561	Soil	5.7	25.7	0.25	174.5	0.009	3	1.27	0.004	0.16	<0.1	3.7	0.11	0.05	36	0.2	0.03	4.8	2.32	<0.1	<0.02
1096562	Soil	6.2	21.2	0.30	201.5	0.003	6	1.17	0.007	0.09	<0.1	3.0	0.11	0.16	149	0.6	0.04	3.6	2.27	<0.1	0.03
1096563	Soil	9.5	24.2	0.33	140.1	0.002	3	1.41	0.003	0.10	<0.1	7.6	0.12	0.05	95	0.3	0.06	3.8	2.08	<0.1	0.04
1096564	Soil	4.9	30.2	0.47	73.9	0.002	3	2.00	0.003	0.12	<0.1	4.4	0.25	0.03	51	0.2	0.04	5.5	6.51	<0.1	0.04
1096565	Soil	3.3	31.0	0.48	76.8	0.002	3	1.89	0.002	0.15	<0.1	2.8	0.10	0.02	27	0.2	0.07	6.6	2.58	<0.1	<0.02
1096566	Soil	3.9	5.3	6.92	49.0	0.003	2	0.24	0.007	0.02	<0.1	0.9	0.12	<0.02	94	<0.1	<0.02	0.6	0.15	<0.1	<0.02
1096567	Soil	5.8	7.6	5.64	47.4	0.002	3	0.32	0.009	0.03	<0.1	1.2	0.21	0.02	250	0.3	0.03	0.9	0.30	<0.1	<0.02
1096568	Soil	8.2	15.2	4.51	59.9	0.002	3	0.69	0.007	0.07	<0.1	3.8	0.14	0.02	201	0.2	0.05	1.7	0.29	<0.1	0.03
1096569	Soil	11.1	18.2	1.77	89.5	0.004	5	1.02	0.005	0.08	<0.1	3.2	0.16	0.07	153	0.2	0.05	2.4	0.66	<0.1	0.03
1096570	Soil	6.1	11.7	5.64	71.0	0.004	5	0.67	0.011	0.06	0.1	1.7	0.11	0.03	97	0.4	0.03	1.5	0.41	<0.1	0.04
1096571	Soil	15.4	23.2	0.60	178.7	0.004	3	1.55	0.004	0.08	0.1	4.6	0.14	0.03	121	0.6	0.04	4.1	0.84	<0.1	0.07
1096572	Soil	8.0	20.0	0.31	78.8	0.003	2	1.66	0.003	0.07	0.1	2.7	0.14	<0.02	42	0.2	<0.02	4.4	1.27	<0.1	0.05
1096573	Soil	19.2	23.1	1.45	139.0	0.003	2	1.61	0.005	0.05	0.1	4.6	0.17	0.05	314	0.8	0.04	3.0	0.71	<0.1	0.07
1096574	Soil	11.1	18.3	2.47	113.4	0.007	3	1.12	0.006	0.06	0.1	2.6	0.13	0.05	266	0.6	<0.02	3.1	0.76	<0.1	0.05
1096575	Soil	6.2	15.9	1.87	100.1	0.007	3	0.93	0.007	0.09	<0.1	2.8	0.08	0.03	110	<0.1	0.05	2.7	1.08	<0.1	0.06
1096050	Soil	6.1	29.6	0.54	105.0	0.003	3	1.97	0.003	0.09	<0.1	6.5	0.11	0.03	38	0.6	0.10	5.5	6.79	<0.1	0.05
1098501	Soil	14.7	24.4	0.83	148.6	0.007	4	1.67	0.004	0.06	0.1	3.0	0.12	0.07	136	0.7	<0.02	4.1	0.92	<0.1	0.06
1098502	Soil	15.2	23.3	0.46	113.4	0.004	3	1.46	0.004	0.06	0.1	4.4	0.15	0.04	124	0.5	0.06	3.7	0.85	<0.1	0.06
1098503	Soil	11.3	16.2	2.51	106.8	0.004	4	0.98	0.009	0.05	0.1	2.0	0.29	0.10	545	0.7	0.03	2.2	0.50	<0.1	0.04
1098504	Soil	13.1	17.4	2.40	169.0	0.006	3	1.13	0.007	0.04	<0.1	1.7	0.17	0.11	225	0.6	0.06	2.9	0.60	<0.1	0.05
1098505	Soil	5.9	16.4	0.33	120.0	0.004	3	1.05	0.004	0.08	<0.1	2.2	0.08	0.05	90	0.5	0.03	2.9	0.83	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 8 of 13 Part 3

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1096552	Soil	0.36	10.6	0.9	<0.05	1.7	12.14	19.0	0.03	<1	1.1	12.6	<10	<2
1096553	Soil	0.07	5.9	1.4	<0.05	2.5	19.79	36.9	0.04	<1	1.3	2.6	<10	<2
1096554	Soil	0.05	9.7	0.8	<0.05	0.5	5.72	19.7	0.04	<1	0.8	19.1	<10	<2
1096555	Soil	0.20	10.1	1.7	<0.05	1.9	10.05	17.4	0.05	<1	1.0	9.9	<10	<2
1096556	Soil	0.10	6.7	1.0	<0.05	1.3	25.06	36.8	0.04	<1	0.9	16.5	<10	<2
1096557	Soil	0.22	14.4	5.2	<0.05	3.3	38.71	56.3	0.06	<1	1.5	34.1	<10	<2
1096558	Soil	0.24	9.5	1.1	<0.05	0.5	31.52	35.2	0.03	<1	1.3	14.7	<10	<2
1096559	Soil	0.29	9.6	1.5	<0.05	0.9	14.72	14.5	0.04	<1	1.0	17.8	<10	<2
1096560	Soil	0.47	26.8	2.2	<0.05	0.9	15.63	30.7	0.07	<1	1.4	45.4	<10	<2
1096561	Soil	0.52	20.3	3.3	<0.05	0.6	6.48	18.2	0.05	<1	1.2	24.4	<10	<2
1096562	Soil	0.40	14.1	0.7	<0.05	1.3	14.61	13.6	0.03	<1	1.1	24.7	<10	<2
1096563	Soil	0.35	10.3	2.8	<0.05	1.7	17.39	29.8	0.06	<1	1.4	35.7	<10	<2
1096564	Soil	0.15	17.0	1.7	<0.05	1.2	9.50	14.8	0.04	<1	1.9	63.0	<10	<2
1096565	Soil	0.25	16.5	1.7	<0.05	0.7	3.10	7.6	0.03	<1	1.1	59.4	<10	<2
1096566	Soil	0.05	1.4	0.6	<0.05	0.5	5.69	7.8	<0.02	<1	0.4	1.6	<10	<2
1096567	Soil	0.04	2.5	1.6	<0.05	0.9	6.90	12.0	<0.02	1	0.5	2.3	<10	<2
1096568	Soil	0.11	4.5	0.9	<0.05	1.1	10.27	19.3	<0.02	<1	0.7	7.0	<10	<2
1096569	Soil	0.22	7.2	2.2	<0.05	0.9	11.94	22.8	0.02	<1	1.1	8.1	<10	<2
1096570	Soil	0.12	4.6	0.8	<0.05	1.4	8.01	13.0	0.03	<1	0.6	5.2	<10	<2
1096571	Soil	0.44	9.4	2.3	<0.05	2.3	13.69	30.3	0.03	1	1.0	11.9	<10	<2
1096572	Soil	0.29	11.8	1.0	<0.05	1.7	4.46	24.8	0.02	<1	1.1	15.2	11	<2
1096573	Soil	0.29	6.7	1.4	<0.05	2.3	18.27	35.9	0.05	<1	1.6	10.3	<10	<2
1096574	Soil	0.24	6.5	0.7	<0.05	1.0	12.62	24.2	0.03	<1	0.8	10.5	<10	<2
1096575	Soil	0.33	5.5	1.1	<0.05	2.1	7.12	15.3	0.02	<1	0.6	18.4	<10	<2
1096050	Soil	0.12	10.6	3.0	<0.05	1.7	14.13	21.2	0.04	<1	1.5	71.3	<10	<2
1098501	Soil	0.35	8.9	1.0	<0.05	1.7	13.39	28.7	0.03	<1	1.4	12.6	<10	<2
1098502	Soil	0.35	8.6	0.8	<0.05	2.3	15.01	26.7	0.03	<1	1.1	11.6	<10	<2
1098503	Soil	0.21	5.9	1.7	<0.05	1.3	13.01	23.0	<0.02	<1	1.1	6.0	<10	<2
1098504	Soil	0.17	6.7	0.6	<0.05	1.4	15.31	25.5	0.03	<1	1.2	4.5	<10	<2
1098505	Soil	0.39	8.6	1.0	<0.05	1.0	5.71	14.6	0.02	2	0.6	14.5	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 23, 2011

Page: 9 of 13 Part 1

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1098506	Soil	0.51	20.46	29.22	93.4	112	23.9	10.1	725	3.16	14.2	0.8	2.2	2.7	40.7	0.21	0.77	0.27	16	3.02	0.057
1098507	Soil	0.52	22.12	26.89	105.0	142	22.3	8.5	779	2.99	12.8	1.0	2.2	1.2	55.4	0.32	0.82	0.25	16	3.00	0.099
1096698	Soil	0.57	17.57	188.4	2040	306	14.1	7.2	3351	5.20	32.9	0.9	45.3	0.8	57.4	10.27	3.10	0.15	22	10.49	0.130
1096699	Soil	0.72	15.75	27.62	79.6	177	17.3	8.2	1786	3.60	19.4	0.8	1.9	0.9	37.6	0.37	1.56	0.21	24	6.46	0.150
1096700	Soil	0.57	22.25	32.83	86.8	164	24.8	10.5	575	3.14	16.6	0.5	3.3	3.0	38.4	0.17	1.09	0.30	17	4.12	0.047
1096801	Soil	0.91	36.25	54.43	125.0	130	30.0	24.5	1197	4.21	14.6	0.6	1.0	1.1	12.0	0.18	0.79	0.50	24	0.06	0.092
1096751	Soil	0.56	9.93	22.64	32.3	117	10.7	5.8	1588	2.63	29.8	1.0	4.0	0.6	118.9	0.20	1.97	0.12	17	13.84	0.174
1096752	Soil	0.61	14.82	32.42	47.0	144	16.0	8.1	1748	2.87	27.3	0.9	5.5	0.8	41.4	0.25	2.23	0.18	19	7.40	0.151
1096753	Soil	0.11	2.88	8.20	39.2	38	5.1	1.5	1130	1.43	26.4	0.5	0.7	0.2	116.5	0.05	2.31	<0.02	3	18.99	0.038
1096754	Soil	0.41	8.63	16.62	48.4	82	10.4	4.2	1545	2.41	11.0	0.9	1.0	0.4	68.4	0.33	0.72	0.10	17	13.37	0.130
1096755	Soil	0.69	14.36	25.45	76.4	59	19.4	8.3	758	3.99	14.3	0.8	1.4	2.8	12.1	0.13	0.76	0.29	29	0.67	0.042
1096756	Soil	0.66	14.97	24.51	96.0	153	19.4	8.2	1979	4.09	15.4	1.2	1.8	1.9	21.5	0.33	0.98	0.21	27	5.12	0.082
1096757	Soil	0.70	14.82	28.36	100.1	91	21.0	9.8	1742	4.93	17.2	1.3	0.7	3.4	12.2	0.32	0.92	0.30	40	0.55	0.058
1096758	Soil	0.40	22.31	28.36	97.7	142	24.6	10.0	600	2.87	15.0	0.8	3.0	2.9	135.4	0.17	0.75	0.28	13	6.22	0.050
1096759	Soil	0.45	23.88	28.59	117.5	174	26.8	13.1	935	3.22	15.0	1.1	1.8	3.2	62.1	0.29	0.65	0.27	13	5.20	0.089
1096760	Soil	0.41	23.32	22.35	114.8	90	23.2	11.4	805	2.79	12.8	0.6	2.1	2.5	52.0	0.23	1.28	0.23	16	6.95	0.067
1096761	Soil	0.69	16.59	34.96	117.9	246	19.7	9.0	2002	3.80	25.5	1.0	1.9	1.0	28.1	0.62	1.74	0.23	27	4.82	0.154
1096762	Soil	0.83	26.80	44.02	234.1	276	27.3	10.0	8369	11.54	51.6	2.7	6.9	1.8	26.4	1.18	3.85	0.24	35	6.60	0.230
1096763	Soil	0.36	12.02	38.74	104.1	86	14.6	6.8	233	1.90	12.5	0.6	<0.2	2.5	10.4	0.19	0.33	0.24	11	0.41	0.030
1096764	Soil	0.34	25.56	43.46	54.5	140	35.3	15.4	638	3.79	21.7	0.6	0.9	4.5	41.2	0.09	1.37	0.45	9	0.83	0.030
1096765	Soil	0.49	22.41	60.17	109.1	169	31.2	10.9	606	3.73	15.0	0.9	0.9	2.5	31.9	0.29	0.69	0.36	11	0.89	0.060
1096766	Soil	0.60	26.54	41.35	78.2	95	23.8	11.3	311	4.14	7.8	0.4	0.3	2.1	10.5	0.12	0.33	0.40	13	0.13	0.041
1096767	Soil	0.43	24.64	34.00	97.0	209	30.9	12.6	384	4.24	8.4	0.7	0.9	3.4	80.7	0.12	0.27	0.33	14	0.76	0.072
1096768	Soil	0.74	28.56	33.87	101.2	196	32.2	15.0	587	4.10	12.5	0.7	<0.2	1.7	30.2	0.29	0.47	0.37	22	0.28	0.079
1096769	Soil	0.74	34.90	31.39	95.4	271	29.3	9.7	274	3.04	9.5	2.4	1.8	1.2	155.2	0.37	0.46	0.30	14	1.44	0.098
1096770	Soil	0.75	28.64	23.83	64.1	119	23.8	12.8	765	3.78	8.5	0.9	1.9	2.3	69.8	0.20	0.34	0.29	18	1.48	0.070
1096771	Soil	0.73	40.44	40.16	79.4	196	32.2	23.4	654	3.64	8.5	0.8	0.7	3.4	50.5	0.18	0.40	0.40	20	0.59	0.052
1096772	Soil	0.80	18.74	21.22	59.3	40	20.7	11.6	362	3.19	8.5	0.5	0.3	2.3	20.0	0.07	0.41	0.29	20	0.15	0.027
1096773	Soil	0.43	22.85	27.31	53.5	137	18.2	10.2	221	2.59	5.3	1.5	0.5	1.8	192.9	0.11	0.31	0.31	17	1.84	0.051
1096774	Soil	0.42	8.83	22.17	61.9	112	10.3	5.1	2055	2.50	10.0	0.7	1.3	0.6	16.4	0.41	0.88	0.13	12	4.20	0.078



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 23, 2011

Page: 9 of 13 Part 2

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1098506	Soil	7.8	13.1	1.49	68.8	0.002	3	0.82	0.004	0.08	<0.1	3.5	0.12	0.03	115	0.4	<0.02	2.0	0.96	<0.1	0.06
1098507	Soil	6.9	13.0	1.15	89.5	0.003	5	0.90	0.006	0.09	<0.1	2.5	0.09	0.07	163	0.4	<0.02	2.1	0.86	<0.1	0.04
1096698	Soil	8.8	13.3	5.28	93.1	0.005	3	0.73	0.011	0.04	<0.1	2.0	1.87	0.05	2598	0.4	0.05	1.7	0.37	<0.1	0.04
1096699	Soil	8.2	15.5	3.45	113.5	0.005	7	1.07	0.007	0.07	0.1	1.8	0.21	0.06	69	0.6	0.06	2.5	0.72	<0.1	0.06
1096700	Soil	5.7	15.3	2.28	65.9	0.003	3	0.85	0.006	0.09	<0.1	4.2	0.14	<0.02	186	<0.1	0.03	2.0	0.80	<0.1	0.07
1096801	Soil	3.8	20.5	0.25	114.5	0.004	2	1.24	0.003	0.09	<0.1	2.2	0.11	0.03	57	0.3	0.05	3.5	6.55	<0.1	0.04
1096751	Soil	6.5	12.2	6.95	83.2	0.004	3	0.60	0.010	0.04	0.1	1.6	0.27	0.02	166	0.3	0.06	1.5	0.30	<0.1	0.04
1096752	Soil	9.1	13.7	3.81	83.5	0.004	6	0.83	0.010	0.06	<0.1	1.9	0.20	0.06	183	0.8	0.03	2.0	0.53	<0.1	0.04
1096753	Soil	1.2	3.0	9.62	60.4	0.001	2	0.13	0.008	0.02	0.1	0.5	0.27	<0.02	60	0.2	<0.02	0.4	0.18	<0.1	<0.02
1096754	Soil	7.6	11.7	6.85	75.5	0.005	2	0.75	0.013	0.03	<0.1	1.0	0.05	0.03	44	0.3	<0.02	1.6	0.40	<0.1	<0.02
1096755	Soil	9.6	21.2	0.49	100.1	0.005	2	1.34	0.005	0.08	<0.1	3.5	0.13	<0.02	49	0.3	0.06	3.4	1.37	<0.1	0.05
1096756	Soil	11.2	18.2	2.78	122.8	0.009	4	1.02	0.009	0.07	0.1	2.7	0.11	0.03	122	0.3	0.04	2.7	0.82	<0.1	0.03
1096757	Soil	15.0	25.7	0.34	142.2	0.005	2	1.74	0.004	0.07	<0.1	4.6	0.12	0.03	101	0.5	0.05	4.7	1.09	<0.1	0.09
1096758	Soil	5.8	12.0	2.07	79.3	0.001	3	0.74	0.006	0.12	<0.1	3.5	0.12	<0.02	151	0.3	0.06	1.8	0.78	<0.1	0.05
1096759	Soil	8.8	13.3	2.53	77.5	0.002	4	0.78	0.009	0.09	<0.1	3.8	0.11	0.03	144	0.5	<0.02	2.0	1.03	<0.1	0.09
1096760	Soil	7.1	14.5	3.60	79.3	0.005	2	0.95	0.008	0.08	<0.1	2.9	0.06	<0.02	427	<0.1	0.05	2.5	0.70	<0.1	0.05
1096761	Soil	14.2	17.0	2.19	116.7	0.005	5	1.10	0.008	0.08	<0.1	2.2	0.11	0.09	365	0.5	0.07	2.8	0.66	<0.1	0.06
1096762	Soil	25.5	21.2	3.28	219.7	0.007	6	1.21	0.009	0.06	0.2	2.8	0.17	0.08	301	0.9	0.08	3.2	0.49	<0.1	0.11
1096763	Soil	6.3	8.1	0.08	62.8	0.001	3	0.60	0.003	0.08	<0.1	3.0	0.10	0.02	113	0.3	0.06	1.7	1.43	<0.1	0.05
1096764	Soil	12.2	6.9	0.17	111.4	0.001	6	0.55	0.003	0.13	<0.1	6.3	0.23	0.03	344	0.5	0.02	1.5	1.89	<0.1	0.06
1096765	Soil	15.2	8.4	0.25	84.4	0.001	3	0.47	0.004	0.11	<0.1	4.3	0.14	0.04	285	0.4	0.02	1.4	1.43	<0.1	0.05
1096766	Soil	6.2	10.7	0.11	85.4	0.002	2	0.70	0.002	0.11	<0.1	2.3	0.14	<0.02	29	<0.1	<0.02	2.1	1.32	<0.1	<0.02
1096767	Soil	8.6	16.9	0.20	95.5	0.001	2	1.13	0.005	0.08	<0.1	6.9	0.17	0.05	35	0.4	0.04	2.8	1.62	<0.1	0.04
1096768	Soil	5.1	17.2	0.18	109.0	0.003	2	1.20	0.005	0.09	<0.1	2.6	0.14	0.05	48	0.2	0.03	3.3	2.60	<0.1	0.04
1096769	Soil	7.4	15.2	0.23	104.0	0.004	4	0.87	0.010	0.07	<0.1	3.2	0.09	0.10	76	1.1	0.05	2.1	2.19	<0.1	0.08
1096770	Soil	8.3	15.5	0.23	108.6	0.002	4	0.91	0.006	0.06	<0.1	5.2	0.08	0.07	34	0.4	0.05	2.5	0.85	<0.1	0.05
1096771	Soil	5.5	23.5	0.29	115.7	0.003	3	1.38	0.004	0.09	<0.1	5.5	0.10	0.05	65	0.5	<0.02	4.1	2.35	<0.1	0.06
1096772	Soil	3.3	17.2	0.26	54.6	0.003	2	1.16	0.002	0.08	<0.1	2.1	0.06	<0.02	99	0.2	<0.02	3.2	0.96	<0.1	<0.02
1096773	Soil	3.9	19.0	0.25	147.5	0.003	6	0.98	0.006	0.07	<0.1	3.0	0.08	0.08	100	0.7	0.05	3.3	1.23	<0.1	0.05
1096774	Soil	7.0	9.3	2.28	76.4	0.004	4	0.66	0.006	0.02	<0.1	1.0	0.07	0.04	102	0.3	<0.02	1.3	0.27	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 9 of 13 Part 3

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1098506	Soil	0.14	6.3	1.1	<0.05	1.9	10.69	20.3	0.02	<1	0.6	13.0	<10	<2
1098507	Soil	0.24	6.7	1.0	<0.05	1.5	9.52	16.9	0.03	<1	0.9	12.5	<10	<2
1096698	Soil	0.12	3.6	0.6	<0.05	1.4	9.48	18.4	<0.02	1	1.0	4.5	<10	<2
1096699	Soil	0.20	6.7	0.9	<0.05	1.6	10.05	16.9	0.03	2	0.7	10.3	<10	<2
1096700	Soil	0.13	5.3	1.7	<0.05	2.1	8.91	13.8	0.03	<1	0.9	14.3	<10	<2
1096801	Soil	0.12	13.8	2.8	<0.05	1.1	4.34	9.7	0.05	1	1.1	25.9	<10	<2
1096751	Soil	0.11	3.1	0.8	<0.05	1.0	9.22	13.6	0.02	<1	0.5	4.0	<10	<2
1096752	Soil	0.12	5.4	2.7	<0.05	1.1	10.59	19.3	<0.02	<1	1.0	5.6	<10	<2
1096753	Soil	<0.02	1.2	0.8	<0.05	0.7	3.03	2.9	<0.02	<1	0.4	2.0	<10	<2
1096754	Soil	0.11	4.1	4.6	<0.05	0.6	8.60	15.3	<0.02	1	0.8	4.8	<10	<2
1096755	Soil	0.34	14.0	1.1	<0.05	1.5	7.70	20.8	0.02	<1	1.0	16.9	<10	<2
1096756	Soil	0.25	7.4	2.2	<0.05	1.0	10.59	22.2	<0.02	<1	0.7	11.8	<10	<2
1096757	Soil	0.41	9.8	0.6	<0.05	2.4	13.05	27.7	0.04	<1	1.3	14.7	<10	<2
1096758	Soil	0.10	7.2	1.4	<0.05	1.8	9.08	14.4	0.02	2	0.9	8.8	<10	<2
1096759	Soil	0.12	5.9	0.6	<0.05	2.4	12.17	21.3	0.02	1	1.1	13.9	<10	<2
1096760	Soil	0.13	4.1	1.0	<0.05	1.4	6.72	16.6	0.03	<1	0.7	19.0	<10	<2
1096761	Soil	0.29	7.2	1.0	<0.05	1.5	15.49	26.7	0.03	<1	0.7	6.9	<10	<2
1096762	Soil	0.18	5.8	0.9	<0.05	2.6	29.75	44.1	0.03	<1	0.9	5.8	<10	<2
1096763	Soil	0.10	5.8	0.6	<0.05	1.1	5.67	22.8	0.02	2	0.6	8.4	<10	<2
1096764	Soil	0.10	7.9	0.6	<0.05	1.7	14.79	32.7	0.04	2	1.4	3.2	<10	<2
1096765	Soil	0.12	7.2	0.5	<0.05	1.1	15.41	35.3	0.03	2	0.9	3.4	<10	<2
1096766	Soil	0.10	11.0	0.9	<0.05	0.3	3.22	14.9	0.03	2	0.8	7.6	<10	<2
1096767	Soil	0.10	9.6	0.8	<0.05	1.8	20.75	33.3	0.05	1	1.0	30.0	<10	<2
1096768	Soil	0.24	12.6	1.3	<0.05	1.0	5.72	15.4	0.04	1	1.6	27.2	<10	<2
1096769	Soil	0.25	7.9	0.9	<0.05	2.2	14.27	16.6	0.05	1	0.8	19.2	<10	<2
1096770	Soil	0.19	6.5	0.7	<0.05	1.6	17.31	24.3	0.05	2	1.0	16.6	<10	<2
1096771	Soil	0.28	10.9	0.8	<0.05	2.2	10.10	18.5	0.05	1	1.3	38.6	<10	<2
1096772	Soil	0.25	9.5	0.8	<0.05	1.0	2.42	9.1	0.03	1	0.5	27.3	<10	<2
1096773	Soil	0.33	6.5	0.7	<0.05	1.3	7.50	11.2	0.05	1	0.7	26.2	<10	<2
1096774	Soil	0.11	3.1	0.5	<0.05	0.9	7.98	14.8	<0.02	1	0.7	3.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 23, 2011

Page: 10 of 13 Part 1

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1096775	Soil			0.34	11.31	26.32	43.8	139	11.4	6.6	1490	2.02	12.6	0.7	5.6	0.7	26.0	0.26	1.65	0.16	15	4.50	0.105
1096776	Soil			0.60	16.09	27.93	50.7	100	17.9	9.6	1876	3.64	14.2	0.8	1.1	1.5	18.5	0.40	1.18	0.30	26	3.25	0.101
1096777	Soil			0.51	19.11	22.51	37.1	90	23.8	14.0	663	2.90	23.7	0.6	1.1	2.8	9.0	0.10	0.96	0.47	18	0.91	0.035
1096778	Soil			0.55	13.42	22.08	45.9	110	15.1	6.6	1194	3.09	12.8	0.6	0.2	1.1	18.0	0.31	0.76	0.23	17	4.71	0.092
1096779	Soil			0.68	13.73	27.97	68.6	81	17.4	7.8	1369	4.16	15.6	1.3	0.8	2.3	13.8	0.25	0.95	0.25	26	2.43	0.073
1096780	Soil			0.61	24.46	38.03	108.3	161	26.6	10.9	1326	3.94	15.8	1.3	1.5	2.2	32.7	0.25	0.93	0.32	17	2.05	0.080
1096781	Soil			0.47	20.87	27.22	109.4	157	22.0	8.3	482	2.67	10.2	1.6	0.6	1.2	66.4	0.24	0.62	0.24	12	2.63	0.068
1096782	Soil			0.59	19.90	28.53	95.6	143	22.0	8.6	459	2.83	11.4	0.9	1.0	2.5	33.9	0.18	0.68	0.26	14	3.19	0.053
1097445	Soil			0.77	31.43	55.99	121.4	85	26.1	21.4	2049	4.76	22.4	0.5	<0.2	2.0	13.4	0.13	0.43	0.50	24	0.07	0.053
1097446	Soil			0.78	38.28	65.77	131.6	153	26.6	36.1	2626	4.58	12.0	0.5	<0.2	2.2	15.3	0.15	0.57	0.44	28	0.05	0.066
1097447	Soil			0.73	32.40	34.34	91.3	130	28.9	16.7	463	4.00	16.0	0.5	0.4	1.7	41.6	0.07	0.67	0.37	22	0.18	0.049
1097448	Soil			0.58	24.67	22.67	78.9	54	25.5	16.0	526	3.69	9.3	0.4	0.3	2.6	13.6	0.09	0.57	0.31	19	0.06	0.029
1097449	Soil			0.39	26.04	20.43	85.0	164	21.5	10.1	340	2.56	6.6	0.8	1.5	1.8	181.8	0.12	0.39	0.25	11	1.80	0.046
1097450	Soil			0.46	27.23	28.40	73.2	56	26.2	16.7	609	3.59	8.9	0.9	0.6	4.4	28.5	0.10	0.53	0.34	17	0.28	0.027
1097230	Soil			2.05	48.80	73.47	111.3	459	34.4	29.2	1447	5.14	17.2	1.1	0.4	4.5	38.1	0.18	0.88	0.43	19	0.48	0.095
1097231	Soil			0.38	50.20	30.89	95.7	164	33.2	14.1	176	3.56	8.5	0.5	0.9	2.4	39.2	0.06	0.28	0.52	17	0.43	0.030
1097232	Soil			0.45	45.18	29.92	104.9	173	40.7	17.4	436	4.07	11.4	0.7	0.4	2.3	42.4	0.07	0.60	0.44	21	0.39	0.026
1097233	Soil			0.76	48.93	43.39	144.8	260	56.7	28.5	425	4.50	58.0	0.8	<0.2	2.5	89.6	0.09	0.90	0.50	16	1.20	0.042
1097234	Soil			0.73	57.92	66.47	137.1	318	48.0	30.7	945	4.83	28.4	0.8	0.5	3.0	65.1	0.11	0.59	0.50	19	0.89	0.065
1097235	Soil			1.12	67.11	81.38	162.2	293	57.2	44.9	1213	5.45	51.2	1.1	1.3	3.2	50.8	0.13	0.86	0.47	20	0.54	0.063
1097236	Soil			0.82	46.10	34.18	86.5	160	40.6	19.2	484	4.32	15.3	0.9	1.7	2.7	61.1	0.10	0.53	0.37	19	0.93	0.061
1097237	Soil			0.75	39.18	27.16	81.6	109	34.4	16.0	775	3.79	14.4	1.0	0.4	2.3	77.7	0.18	0.49	0.34	19	1.23	0.065
1097238	Soil			0.60	40.72	22.73	77.3	140	28.6	13.8	569	3.27	13.2	1.4	<0.2	1.0	124.1	0.21	0.48	0.29	15	1.80	0.077
1097239	Soil			0.57	21.34	20.00	59.1	84	18.6	11.7	492	3.31	8.8	0.3	0.4	1.5	17.8	0.09	0.34	0.30	23	0.19	0.041
1097240	Soil			0.43	36.44	28.47	91.6	60	28.2	16.2	936	3.45	8.9	1.7	0.2	4.1	35.6	0.15	0.32	0.42	19	0.56	0.042
1097241	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097242	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097243	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097244	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097245	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 23, 2011

Page: 10 of 13 Part 2

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1096775	Soil	8.6	11.2	2.36	72.7	0.003	3	0.66	0.005	0.03	<0.1	1.0	0.09	0.05	70	0.3	0.04	1.3	0.25	<0.1	0.04
1096776	Soil	11.7	18.1	1.68	112.3	0.004	5	1.19	0.006	0.05	<0.1	2.7	0.09	0.05	109	0.4	0.06	2.7	0.45	<0.1	0.07
1096777	Soil	6.4	13.1	0.47	65.9	0.004	3	0.67	0.004	0.07	<0.1	4.0	0.10	<0.02	52	0.4	0.06	2.0	0.37	<0.1	0.05
1096778	Soil	8.0	13.4	2.43	73.1	0.003	3	0.86	0.007	0.04	<0.1	1.9	0.06	0.04	123	0.3	0.03	1.8	0.39	<0.1	0.06
1096779	Soil	12.5	20.3	1.43	120.1	0.006	2	1.19	0.006	0.05	0.1	3.2	0.09	0.04	88	0.5	0.04	2.6	0.73	<0.1	0.06
1096780	Soil	13.1	15.8	0.94	109.7	0.003	3	0.98	0.005	0.07	<0.1	3.7	0.11	0.04	242	0.6	0.05	2.4	0.76	<0.1	0.06
1096781	Soil	5.3	12.0	0.63	90.5	0.002	5	0.70	0.007	0.09	<0.1	2.3	0.10	0.06	173	0.7	0.03	1.9	0.79	<0.1	0.05
1096782	Soil	6.7	14.6	1.72	81.4	0.004	3	0.76	0.007	0.06	<0.1	3.1	0.08	0.03	156	0.3	0.05	1.9	0.76	<0.1	0.08
1097445	Soil	4.1	20.4	0.23	101.2	0.002	2	1.45	0.002	0.08	<0.1	3.1	0.13	<0.02	20	0.2	0.09	4.7	6.13	<0.1	0.04
1097446	Soil	5.0	25.2	0.35	101.5	0.003	1	1.75	0.002	0.08	<0.1	3.1	0.13	0.02	51	0.5	0.10	5.4	11.14	<0.1	0.05
1097447	Soil	3.1	19.8	0.31	49.9	0.004	3	1.10	0.002	0.06	<0.1	2.3	0.08	0.03	48	0.5	0.07	3.4	4.27	<0.1	0.03
1097448	Soil	3.3	19.9	0.34	71.8	0.003	1	1.30	0.002	0.07	<0.1	2.4	0.05	<0.02	22	0.2	0.05	3.5	1.64	<0.1	0.03
1097449	Soil	4.3	15.2	0.30	74.6	0.002	7	0.85	0.006	0.05	<0.1	3.2	0.05	0.08	100	0.4	0.06	2.3	1.52	<0.1	0.07
1097450	Soil	3.9	19.8	0.34	60.6	0.002	3	1.33	0.002	0.09	<0.1	4.4	0.08	0.02	79	0.3	0.08	3.3	3.24	<0.1	0.05
1097230	Soil	6.3	25.2	0.36	119.8	0.003	3	1.69	0.001	0.07	<0.1	9.1	0.16	0.05	95	0.6	0.07	4.1	5.76	<0.1	0.08
1097231	Soil	6.3	15.0	0.06	47.9	<0.001	3	0.36	0.004	0.05	<0.1	4.5	0.09	0.02	115	0.4	0.05	1.0	1.80	<0.1	0.09
1097232	Soil	4.4	16.7	0.07	48.3	<0.001	2	0.40	0.003	0.07	<0.1	6.1	0.12	0.02	164	0.3	0.03	1.3	0.96	<0.1	0.07
1097233	Soil	4.7	15.0	0.17	81.7	<0.001	3	0.73	0.003	0.09	<0.1	6.1	0.21	0.04	102	0.3	0.09	2.0	1.17	<0.1	0.08
1097234	Soil	6.2	22.8	0.39	101.0	0.002	4	1.59	0.003	0.06	<0.1	10.2	0.11	0.06	64	0.6	0.07	4.2	4.19	<0.1	0.12
1097235	Soil	5.7	23.8	0.40	119.4	0.003	3	1.68	0.002	0.08	<0.1	9.6	0.19	0.04	130	0.8	0.09	4.3	8.74	<0.1	0.11
1097236	Soil	8.5	19.3	0.37	117.5	0.002	2	1.36	0.003	0.07	<0.1	8.2	0.11	0.05	119	0.8	0.03	3.5	2.17	<0.1	0.08
1097237	Soil	10.5	16.4	0.17	123.0	0.002	3	0.91	0.004	0.06	<0.1	6.2	0.09	0.06	149	0.3	0.06	2.3	1.26	<0.1	0.08
1097238	Soil	13.4	13.1	0.12	94.6	0.001	4	0.58	0.005	0.05	<0.1	4.2	0.06	0.09	251	0.4	0.10	1.4	1.06	<0.1	0.04
1097239	Soil	3.2	16.7	0.22	103.0	0.002	1	1.16	0.001	0.08	<0.1	2.1	0.07	<0.02	33	0.2	0.05	3.9	0.72	<0.1	0.02
1097240	Soil	12.6	20.1	0.35	109.3	0.002	2	1.33	0.002	0.09	<0.1	7.0	0.07	0.02	53	0.4	0.09	3.4	1.67	<0.1	0.06
1097241	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097242	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097243	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097244	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097245	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 23, 2011

Page: 10 of 13 Part 3

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1096775	Soil	0.09	2.7	0.3	<0.05	1.3	9.08	16.5	<0.02	<1	0.5	3.3	<10	<2
1096776	Soil	0.29	4.9	0.5	<0.05	1.6	11.00	23.3	0.04	2	0.9	8.4	<10	<2
1096777	Soil	0.25	4.7	1.6	<0.05	1.6	6.56	16.7	0.02	<1	0.5	7.1	<10	4
1096778	Soil	0.20	4.4	0.5	<0.05	1.5	10.33	15.7	0.04	1	1.0	6.5	<10	<2
1096779	Soil	0.43	7.3	1.4	<0.05	1.7	11.63	22.3	0.05	2	0.6	9.2	<10	<2
1096780	Soil	0.18	6.7	0.5	<0.05	2.2	15.78	28.7	0.03	2	1.0	12.0	<10	<2
1096781	Soil	0.18	5.7	1.0	<0.05	1.9	8.35	11.6	0.03	1	0.6	10.5	<10	<2
1096782	Soil	0.23	5.3	0.9	<0.05	2.0	8.36	17.8	0.03	1	0.7	12.5	<10	<2
1097445	Soil	0.20	14.0	0.6	<0.05	1.3	3.56	10.8	0.04	1	1.7	28.2	<10	<2
1097446	Soil	0.21	17.2	0.8	<0.05	1.4	6.25	15.2	0.05	<1	1.5	45.9	<10	<2
1097447	Soil	0.23	8.6	2.0	<0.05	1.0	3.30	8.5	0.02	2	1.4	32.8	<10	2
1097448	Soil	0.22	8.9	0.5	<0.05	1.7	2.63	9.2	0.04	1	0.5	37.3	<10	<2
1097449	Soil	0.17	5.7	0.4	<0.05	2.2	10.93	11.4	0.04	<1	0.5	25.8	<10	<2
1097450	Soil	0.13	9.7	1.1	<0.05	2.1	7.42	15.7	0.03	<1	0.9	38.7	<10	<2
1097230	Soil	0.11	8.5	1.2	<0.05	3.1	31.26	24.1	0.07	<1	2.2	52.2	<10	3
1097231	Soil	0.02	4.7	0.8	<0.05	1.9	9.60	13.8	0.04	1	1.0	4.0	<10	<2
1097232	Soil	0.04	4.5	1.0	<0.05	2.1	14.39	12.1	0.06	<1	0.7	4.5	<10	<2
1097233	Soil	0.08	4.4	0.5	<0.05	2.6	12.96	14.6	0.06	<1	1.0	15.0	<10	<2
1097234	Soil	0.15	7.1	0.8	<0.05	3.1	26.73	17.6	0.06	<1	1.9	48.1	<10	2
1097235	Soil	0.18	10.2	0.7	<0.05	3.2	22.98	18.9	0.05	2	2.0	48.7	<10	<2
1097236	Soil	0.14	8.0	1.3	<0.05	2.3	19.98	16.9	0.04	3	1.2	32.7	<10	<2
1097237	Soil	0.21	7.4	0.8	<0.05	2.3	19.50	27.3	0.05	<1	1.2	13.3	<10	<2
1097238	Soil	0.10	5.3	1.0	<0.05	1.3	23.69	30.6	0.03	<1	1.0	7.2	<10	<2
1097239	Soil	0.18	9.9	0.6	<0.05	0.8	4.28	8.0	0.03	<1	0.6	23.8	<10	2
1097240	Soil	0.16	8.5	0.7	<0.05	2.2	18.82	38.7	0.05	2	1.5	25.4	<10	<2
1097241	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097242	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097243	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097244	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097245	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 23, 2011

Page: 11 of 13 Part 1

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.5	0.01	0.02	0.02	0.02	2	0.01	0.001
1097246	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097247	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097248	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097249	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097250	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097280	Soil	1.13	37.52	61.99	104.8	440	28.6	26.0	1630	3.82	26.2	1.4	0.7	2.7	106.7	0.27	0.90	0.38	17	1.32	0.125
1097281	Soil	0.69	39.13	25.07	85.2	142	35.7	16.3	222	3.27	16.4	0.5	1.4	2.8	19.9	0.04	0.77	0.29	15	0.17	0.014
1097282	Soil	0.34	17.90	11.12	53.1	67	12.9	5.4	112	1.78	3.3	0.3	<0.2	1.1	20.0	0.10	0.22	0.19	14	0.28	0.040
1097283	Soil	0.68	23.02	33.95	79.5	158	28.8	12.7	359	4.11	10.1	0.9	0.4	3.5	47.9	0.15	0.41	0.35	21	0.66	0.043
1097284	Soil	0.97	43.25	56.51	109.4	196	47.8	23.3	1276	4.88	32.0	0.8	0.6	3.4	71.3	0.19	0.92	0.39	18	0.81	0.071
1097285	Soil	0.78	24.14	25.24	105.3	36	19.0	9.8	432	5.08	10.8	0.3	2.3	2.6	11.0	0.12	0.54	0.44	37	0.03	0.041
1097286	Soil	0.72	47.93	43.80	110.8	53	57.7	25.5	557	4.08	46.3	0.4	1.6	1.5	14.9	0.04	1.93	0.63	18	0.03	0.035
1097287	Soil	1.01	56.92	52.62	120.6	177	43.7	27.7	983	5.09	18.7	0.7	1.5	2.6	32.0	0.08	0.65	0.42	22	0.10	0.045
1097288	Soil	0.56	40.14	26.45	91.2	131	30.0	11.0	207	3.28	11.1	0.8	1.2	2.9	83.7	0.07	0.41	0.40	17	0.63	0.056
1097289	Soil	0.80	41.63	30.71	80.4	191	31.9	16.2	575	3.51	12.0	0.8	2.1	2.3	85.8	0.08	0.54	0.32	14	1.48	0.059
1097290	Soil	1.04	47.92	35.39	127.7	218	35.7	13.3	225	2.99	11.7	1.8	2.4	2.4	91.9	0.23	0.61	0.36	16	1.54	0.081
1097291	Soil	0.63	45.64	25.88	96.1	101	40.5	14.2	371	3.27	9.3	1.3	3.7	3.8	64.3	0.16	0.49	0.33	19	1.26	0.052
1097292	Soil	2.52	36.56	62.17	115.5	162	35.5	23.0	1979	4.54	9.1	0.6	0.8	1.3	22.3	0.40	0.55	0.32	29	0.23	0.118
1097293	Soil	1.14	32.09	37.69	81.2	137	31.9	19.6	842	4.85	10.9	0.9	1.3	1.8	25.9	0.14	0.54	0.31	25	0.36	0.104
1097294	Soil	1.14	33.49	35.76	89.1	153	29.2	17.0	1046	4.85	8.7	1.6	1.0	3.0	65.3	0.18	0.42	0.28	22	1.05	0.128
1097295	Soil	1.50	34.68	56.33	106.1	162	30.2	28.5	1329	4.56	12.6	0.7	1.0	2.8	72.1	0.28	0.67	0.45	25	0.79	0.110
1097296	Soil	0.90	35.64	29.66	100.6	183	33.6	16.9	528	3.73	8.2	0.8	1.5	2.0	56.5	0.29	0.38	0.36	25	0.59	0.082
1097297	Soil	0.89	30.32	43.61	139.0	79	30.2	13.8	440	4.11	11.5	0.5	0.5	2.0	18.8	0.23	0.34	0.35	21	0.16	0.048
1097298	Soil	1.19	54.60	73.56	135.7	275	62.6	33.4	1562	6.68	42.8	1.5	0.5	4.6	68.1	0.13	0.55	0.47	24	0.76	0.093
1097299	Soil	1.31	36.02	62.49	93.3	180	29.2	26.5	1505	4.92	17.0	0.5	0.6	2.6	11.8	0.14	0.74	0.43	25	0.07	0.058
1097300	Soil	0.57	27.45	29.12	71.4	44	23.5	12.3	369	3.64	10.0	1.0	0.6	2.8	24.6	0.15	0.35	0.33	24	0.17	0.048
1096451	Soil	0.75	22.48	20.14	70.0	52	18.2	8.6	286	3.55	9.3	0.4	0.9	2.1	13.2	0.19	0.39	0.33	28	0.06	0.034
1096452	Soil	0.56	53.47	31.93	114.8	57	43.3	26.0	613	4.47	10.1	0.5	0.2	2.5	28.3	0.05	0.53	0.50	28	0.05	0.028
1096453	Soil	0.72	29.47	38.71	81.3	31	25.1	24.7	965	3.51	10.7	1.1	0.7	4.7	92.5	0.10	0.38	0.41	23	1.01	0.043
1096454	Soil	0.66	35.84	31.06	75.3	155	28.3	13.8	355	3.08	8.0	0.9	1.3	2.1	158.0	0.11	0.35	0.34	16	1.58	0.044



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 23, 2011

Page: 11 of 13 Part 2

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1097246	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
1097247	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
1097248	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
1097249	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
1097250	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
1097280	Soil	6.8	20.3	0.25	72.0	0.004	3	1.27	0.004	0.06	<0.1	6.9	0.15	0.12	81	0.9	0.10	3.2	4.06	<0.1	0.05
1097281	Soil	3.3	16.3	0.06	54.9	<0.001	1	0.30	0.002	0.06	<0.1	4.2	0.04	<0.02	548	0.2	0.04	0.9	0.83	<0.1	0.05
1097282	Soil	1.9	8.5	0.03	38.2	0.001	2	0.26	0.003	0.06	<0.1	1.2	0.03	0.03	44	0.5	0.05	1.4	0.85	<0.1	0.02
1097283	Soil	8.9	18.7	0.18	80.5	0.002	3	1.25	0.003	0.07	<0.1	4.5	0.11	0.03	54	0.6	0.07	2.9	1.26	<0.1	0.04
1097284	Soil	7.8	24.0	0.34	73.5	0.003	4	1.47	0.003	0.06	<0.1	8.8	0.14	0.06	275	0.9	0.11	3.8	3.55	<0.1	0.07
1097285	Soil	4.3	22.0	0.17	64.2	0.002	2	1.58	0.002	0.09	<0.1	2.3	0.10	<0.02	21	0.4	0.11	6.5	2.62	<0.1	0.04
1097286	Soil	2.0	12.3	0.07	32.5	<0.001	2	0.49	0.002	0.07	<0.1	2.8	0.07	<0.02	333	0.3	0.11	1.5	3.01	<0.1	<0.02
1097287	Soil	3.0	20.3	0.37	42.8	<0.001	2	1.27	0.002	0.09	<0.1	3.3	0.15	0.03	106	0.5	0.05	3.5	5.69	<0.1	0.03
1097288	Soil	4.1	20.1	0.49	60.1	0.001	4	1.23	0.003	0.07	<0.1	5.7	0.09	0.04	73	0.5	0.08	3.5	3.41	<0.1	0.08
1097289	Soil	6.2	15.9	0.24	104.4	0.001	3	0.86	0.004	0.05	<0.1	4.8	0.09	0.08	141	0.8	0.06	2.3	1.82	<0.1	0.07
1097290	Soil	7.0	18.5	0.32	83.4	0.003	5	0.82	0.005	0.07	<0.1	5.0	0.10	0.06	133	1.2	0.04	2.4	2.30	<0.1	0.09
1097291	Soil	10.3	31.0	0.82	93.9	0.002	4	1.26	0.005	0.09	<0.1	6.2	0.07	0.04	117	0.9	<0.02	3.9	1.28	<0.1	0.10
1097292	Soil	4.1	38.0	0.23	146.2	0.006	2	1.32	0.003	0.09	<0.1	2.9	0.09	0.08	54	0.6	0.06	4.4	3.93	<0.1	0.02
1097293	Soil	4.9	22.4	0.25	87.0	0.004	2	1.23	0.004	0.08	<0.1	3.5	0.08	0.06	20	0.5	0.03	3.4	3.37	<0.1	0.03
1097294	Soil	9.5	20.3	0.21	149.5	0.002	2	1.11	0.004	0.06	<0.1	6.6	0.08	0.09	40	0.7	0.06	3.1	1.70	<0.1	0.05
1097295	Soil	4.1	25.7	0.26	99.1	0.004	3	1.38	0.003	0.09	<0.1	5.4	0.09	0.07	72	0.6	0.07	4.2	6.45	<0.1	0.05
1097296	Soil	5.6	24.0	0.25	94.8	0.004	3	1.09	0.003	0.09	<0.1	3.3	0.08	0.05	80	0.4	<0.02	3.9	2.52	<0.1	0.04
1097297	Soil	3.5	20.1	0.19	55.6	0.002	2	1.01	0.002	0.11	<0.1	2.2	0.09	0.03	37	0.4	0.06	3.4	1.72	<0.1	<0.02
1097298	Soil	12.7	28.0	0.39	92.4	0.002	4	2.00	0.003	0.09	<0.1	11.0	0.18	0.06	185	1.3	0.04	4.8	5.47	<0.1	0.08
1097299	Soil	3.8	24.2	0.28	63.2	0.002	3	1.52	0.002	0.07	<0.1	2.9	0.09	0.03	86	0.5	0.05	4.5	9.52	<0.1	0.03
1097300	Soil	6.5	17.3	0.15	72.1	0.001	2	1.14	0.002	0.08	<0.1	2.8	0.09	<0.02	65	0.5	0.09	3.5	1.34	<0.1	0.03
1096451	Soil	4.0	19.0	0.23	61.1	0.002	2	1.15	0.002	0.09	<0.1	2.3	0.11	<0.02	12	0.2	0.04	4.7	2.60	<0.1	<0.02
1096452	Soil	2.4	21.3	0.17	40.6	0.001	1	0.87	0.001	0.07	<0.1	3.9	0.07	<0.02	52	0.2	0.07	2.9	8.09	<0.1	<0.02
1096453	Soil	7.3	22.3	0.33	92.4	0.003	3	1.41	0.005	0.10	<0.1	6.3	0.11	0.04	58	0.6	0.06	4.3	3.80	<0.1	0.07
1096454	Soil	4.7	22.1	0.34	84.8	0.002	5	1.13	0.005	0.08	<0.1	3.7	0.08	0.07	86	0.7	0.05	3.3	2.36	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 23, 2011

Page: 11 of 13 Part 3

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1097246	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
1097247	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
1097248	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
1097249	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
1097250	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
1097280	Soil	0.23	8.3	2.5	<0.05	1.9	26.33	20.0	0.05	<1	1.5	30.6	<10	<2
1097281	Soil	0.03	2.5	2.3	<0.05	1.4	8.50	10.6	0.03	2	1.0	4.4	<10	<2
1097282	Soil	0.10	5.4	1.6	<0.05	0.6	1.63	4.4	<0.02	2	0.2	1.6	<10	<2
1097283	Soil	0.32	10.0	0.8	<0.05	1.4	11.36	38.4	0.05	<1	1.3	20.7	<10	2
1097284	Soil	0.21	7.5	6.4	<0.05	1.9	21.43	32.6	0.04	<1	2.1	43.0	<10	<2
1097285	Soil	0.36	14.1	0.8	<0.05	1.5	1.83	8.9	0.04	<1	0.6	30.7	<10	<2
1097286	Soil	0.05	8.6	4.8	<0.05	0.7	2.31	4.5	0.03	1	0.8	8.8	<10	<2
1097287	Soil	0.05	8.2	0.8	<0.05	1.2	7.41	9.2	0.04	<1	1.3	35.4	<10	<2
1097288	Soil	0.19	8.1	1.2	<0.05	2.2	9.97	9.2	0.04	<1	1.5	37.3	<10	<2
1097289	Soil	0.16	5.8	0.8	<0.05	2.3	13.98	17.2	0.04	1	1.2	19.9	<10	<2
1097290	Soil	0.21	6.6	3.2	<0.05	3.0	14.35	19.5	0.02	<1	1.3	20.7	<10	<2
1097291	Soil	0.24	5.9	0.8	<0.05	3.2	12.50	22.0	0.03	<1	1.5	35.7	<10	<2
1097292	Soil	0.35	13.0	12.5	<0.05	0.6	6.57	13.1	<0.02	1	1.6	23.4	<10	<2
1097293	Soil	0.24	10.0	1.4	<0.05	0.9	9.09	20.8	0.04	<1	1.5	29.7	<10	<2
1097294	Soil	0.24	7.9	2.9	<0.05	1.4	20.11	35.7	0.05	<1	1.1	19.1	<10	<2
1097295	Soil	0.35	12.7	1.5	<0.05	1.6	13.93	20.6	0.06	<1	1.7	31.8	<10	<2
1097296	Soil	0.33	10.8	2.5	<0.05	0.9	6.45	18.0	0.03	<1	1.3	21.0	<10	<2
1097297	Soil	0.22	10.4	1.2	<0.05	0.5	3.03	15.1	0.04	<1	1.0	19.6	<10	<2
1097298	Soil	0.21	11.2	1.5	<0.05	1.9	33.68	54.5	0.08	<1	2.4	48.7	<10	<2
1097299	Soil	0.31	9.2	1.1	<0.05	1.3	3.20	10.5	0.05	<1	2.0	42.6	<10	<2
1097300	Soil	0.20	10.8	1.5	<0.05	1.3	6.44	17.3	0.04	<1	0.9	21.3	<10	<2
1096451	Soil	0.26	14.2	0.8	<0.05	0.5	2.25	9.5	0.04	<1	0.6	23.3	<10	<2
1096452	Soil	0.11	9.4	1.3	<0.05	0.8	2.47	5.7	0.05	<1	1.3	21.1	<10	<2
1096453	Soil	0.35	19.9	1.7	<0.05	2.7	12.17	23.9	0.05	<1	1.5	31.6	<10	<2
1096454	Soil	0.26	8.1	2.7	<0.05	1.9	10.87	12.9	<0.02	<1	1.3	33.0	<10	3



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 23, 2011

Page: 12 of 13 Part 1

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1096455	Soil			0.35	34.56	27.63	68.1	160	27.0	11.1	318	3.00	7.4	1.0	0.2	1.9	186.5	0.18	0.31	0.32	18	1.84	0.052
1096456	Soil			0.65	54.13	30.97	102.4	248	42.8	18.9	369	4.17	16.7	0.7	1.2	4.0	55.2	0.08	1.22	0.46	24	0.15	0.017
1096457	Soil			0.52	48.20	32.87	109.5	191	42.8	17.9	479	4.16	11.9	0.8	0.7	1.6	77.2	0.14	0.40	0.44	17	1.05	0.053
1096458	Soil			0.92	66.78	87.83	196.7	350	61.5	39.3	705	5.56	39.5	0.7	1.8	4.6	64.5	0.14	0.58	0.62	21	0.89	0.053
1096459	Soil			0.97	56.60	67.35	154.3	314	56.2	31.5	760	5.54	29.0	1.0	1.8	4.5	76.5	0.14	0.72	0.53	21	1.02	0.065
1096460	Soil			0.92	67.25	90.17	168.5	391	60.7	43.9	569	5.21	50.7	0.9	0.5	4.0	98.7	0.15	0.69	0.62	20	1.54	0.051
1096461	Soil			1.24	38.80	36.76	89.1	302	34.8	17.9	793	3.98	10.9	1.4	1.3	3.0	114.6	0.21	0.41	0.32	18	1.35	0.102
1096462	Soil			0.81	106.9	125.1	174.6	298	42.6	46.4	3251	6.27	17.5	1.3	0.9	4.2	56.5	0.14	0.48	0.54	30	0.30	0.069
1096463	Soil			0.43	28.25	32.13	85.3	76	26.4	11.5	245	3.70	9.8	0.5	0.7	3.3	9.2	0.06	0.29	0.35	15	0.03	0.018
1096464	Soil			0.62	32.36	26.13	95.1	70	24.9	14.1	451	4.81	13.7	0.4	0.7	1.5	20.5	0.12	0.48	0.40	28	0.05	0.053
1096465	Soil			0.69	31.76	31.97	110.0	83	25.6	18.2	1470	4.46	13.4	0.4	0.3	1.7	16.3	0.25	0.45	0.43	31	0.06	0.076
1096466	Soil			0.56	45.73	29.55	83.5	61	38.8	20.7	769	4.67	16.6	0.5	0.4	3.8	17.6	0.05	0.40	0.46	23	0.11	0.040
1096467	Soil			0.89	27.12	23.32	82.0	169	26.2	13.4	501	4.20	9.7	0.5	0.2	1.8	18.8	0.10	0.42	0.30	26	0.18	0.088
1096468	Soil			0.57	37.75	25.35	81.6	158	29.6	15.0	779	3.72	12.8	2.5	<0.2	4.1	70.0	0.11	0.62	0.33	21	1.08	0.063
1096469	Soil			0.62	34.66	31.07	93.6	72	30.5	17.8	841	4.00	7.8	1.5	<0.2	5.9	43.0	0.21	0.67	0.38	24	0.70	0.044
1096470	Soil			0.96	26.66	25.15	69.3	80	25.8	12.1	378	3.53	17.2	2.2	1.3	4.8	48.5	0.10	3.40	0.29	25	0.99	0.042
1096471	Soil			1.85	36.92	20.11	57.8	266	24.8	11.6	275	2.39	15.2	1.6	6.3	1.5	142.6	0.32	1.90	0.29	13	2.56	0.084
1096472	Soil			0.55	34.16	29.64	72.4	101	30.6	20.4	630	3.24	13.5	1.0	1.0	3.0	127.5	0.15	0.98	0.40	15	1.65	0.041
1096473	Soil			0.54	37.79	32.79	78.1	93	33.2	19.6	591	4.06	14.0	1.1	<0.2	4.6	90.9	0.09	0.86	0.45	19	1.07	0.044
1096474	Soil			0.41	26.62	20.12	56.9	155	21.8	11.2	481	2.65	7.3	1.2	1.1	0.9	176.3	0.08	0.40	0.25	15	2.13	0.066
1096475	Soil			1.25	64.09	84.74	138.0	505	52.9	74.9	2210	5.06	23.9	1.4	0.6	2.4	10.9	0.17	0.65	0.42	24	0.08	0.080
1097474	Soil			0.92	42.99	44.97	92.3	69	29.9	22.2	971	3.89	10.1	0.7	0.3	3.0	12.0	0.12	0.51	0.40	21	0.07	0.058
1097475	Soil			1.88	37.97	53.53	108.5	123	26.8	23.0	1338	4.21	12.3	1.0	2.3	1.0	7.9	0.15	0.83	0.45	36	0.05	0.120
1097476	Soil			0.99	37.25	75.03	107.2	218	31.2	29.3	1213	4.46	14.4	1.2	<0.2	2.2	30.8	0.15	0.67	0.43	23	0.37	0.132
1097477	Soil			0.73	32.27	36.55	95.5	240	32.3	13.8	566	3.89	11.3	1.4	<0.2	1.1	44.3	0.19	0.49	0.40	17	0.76	0.081
1097478	Soil			1.00	39.24	40.25	100.1	313	38.5	18.4	624	4.38	10.7	0.8	<0.2	2.5	80.4	0.19	0.56	0.34	14	1.04	0.080
1097479	Soil			0.82	34.96	50.80	119.4	279	34.5	21.3	1680	5.26	14.6	0.8	<0.2	2.1	36.0	0.31	0.55	0.38	20	0.24	0.095
1097480	Soil			0.87	26.89	30.25	82.8	151	22.5	9.9	406	3.65	11.5	0.7	<0.2	0.3	13.8	0.22	0.58	0.39	21	0.10	0.090
1097481	Soil			1.07	33.54	30.43	99.8	143	27.4	12.2	547	4.33	17.1	0.6	<0.2	0.3	11.3	0.12	1.74	0.41	25	0.03	0.079
1097482	Soil			1.20	33.28	30.60	130.6	155	26.4	18.1	2356	3.60	6.8	0.5	0.6	0.4	29.2	0.39	0.47	0.33	22	0.35	0.092



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 12 of 13 Part 2

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
			ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
			0.5	0.5	0.01	0.5	0.001			1	0.01	0.001	0.01	0.01	5	0.1	0.02	0.1	0.02	0.1	0.02	
1096455	Soil		4.9	20.3	0.31	113.4	0.002	5	1.23	0.004	0.07	<0.1	3.8	0.07	0.07	85	0.6	0.06	3.6	1.31	<0.1	0.07
1096456	Soil		6.8	19.6	0.10	62.6	<0.001	3	0.55	0.003	0.07	<0.1	7.0	0.14	<0.02	174	0.5	<0.02	1.5	1.64	<0.1	0.03
1096457	Soil		6.2	14.8	0.07	69.2	<0.001	4	0.53	0.004	0.08	<0.1	5.5	0.13	0.05	193	0.7	0.11	1.2	0.90	<0.1	0.06
1096458	Soil		8.7	25.1	0.49	89.9	0.001	3	1.65	0.004	0.09	<0.1	12.1	0.13	0.04	90	0.7	0.07	4.5	3.26	<0.1	0.14
1096459	Soil		7.2	23.8	0.40	165.7	0.001	11	1.66	0.004	0.07	<0.1	10.5	0.15	0.06	87	1.1	0.17	4.5	3.58	<0.1	0.19
1096460	Soil		5.9	24.1	0.55	223.7	0.001	4	1.66	0.004	0.09	<0.1	8.7	0.13	0.05	100	1.1	0.10	4.5	2.86	<0.1	0.14
1096461	Soil		8.6	25.1	0.35	80.8	0.002	5	1.15	0.006	0.09	<0.1	6.3	0.10	0.10	60	1.0	0.05	3.5	2.10	<0.1	0.11
1096462	Soil		6.3	27.5	0.71	133.1	0.002	3	2.06	0.003	0.11	<0.1	7.6	0.24	0.04	88	0.9	0.11	5.5	11.33	<0.1	0.13
1096463	Soil		4.0	13.1	0.12	50.4	<0.001	2	0.91	0.002	0.06	<0.1	2.6	0.10	<0.02	104	0.3	0.05	2.2	1.33	<0.1	<0.02
1096464	Soil		3.9	20.0	0.21	47.9	0.004	3	1.13	0.002	0.10	<0.1	2.5	0.08	<0.02	33	0.4	0.07	4.2	4.36	<0.1	<0.02
1096465	Soil		4.0	23.3	0.26	109.9	0.004	3	1.36	0.002	0.12	<0.1	2.6	0.10	0.04	44	0.4	0.07	5.3	3.69	<0.1	<0.02
1096466	Soil		3.5	25.9	0.56	333.9	0.001	2	1.95	0.002	0.09	<0.1	6.0	0.11	<0.02	97	0.3	0.06	4.8	6.52	<0.1	0.05
1096467	Soil		3.5	21.4	0.25	62.1	0.005	2	1.03	0.002	0.09	<0.1	2.6	0.07	0.02	34	0.5	0.03	3.6	2.47	<0.1	<0.02
1096468	Soil		18.5	20.9	0.33	151.6	0.002	4	1.52	0.003	0.10	<0.1	10.5	0.10	0.05	250	1.0	0.06	3.8	3.96	<0.1	0.07
1096469	Soil		16.0	20.0	0.22	115.9	0.001	3	1.21	0.003	0.07	<0.1	9.5	0.11	0.03	292	0.7	0.06	3.4	4.17	<0.1	0.08
1096470	Soil		12.4	19.3	0.25	102.7	<0.001	5	1.37	0.004	0.09	<0.1	5.8	0.11	0.03	228	0.5	0.08	3.5	1.04	<0.1	0.13
1096471	Soil		9.5	12.1	0.47	108.0	0.002	5	0.70	0.004	0.07	<0.1	3.5	0.10	0.08	453	0.8	<0.02	1.6	1.36	<0.1	0.06
1096472	Soil		7.9	17.7	0.45	127.7	0.002	5	1.09	0.004	0.06	<0.1	5.5	0.08	0.06	219	0.5	0.09	3.0	3.50	<0.1	0.07
1096473	Soil		13.3	20.0	0.25	112.5	0.002	3	0.97	0.003	0.08	<0.1	10.1	0.11	0.04	197	0.5	0.04	2.3	2.27	<0.1	0.06
1096474	Soil		5.3	17.7	0.31	97.8	0.003	5	1.00	0.004	0.06	<0.1	2.7	0.08	0.10	122	0.5	<0.02	2.9	1.63	<0.1	0.04
1096475	Soil		3.7	25.4	0.39	149.9	0.005	4	1.74	0.003	0.09	<0.1	7.0	0.21	0.06	64	1.0	0.07	4.2	14.35	<0.1	0.05
1097474	Soil		4.2	25.3	0.40	66.5	0.004	4	1.55	0.004	0.13	<0.1	4.8	0.13	0.02	42	0.3	0.11	4.1	6.27	<0.1	0.09
1097475	Soil		7.2	31.7	0.36	69.8	0.010	3	1.42	0.003	0.10	<0.1	2.2	0.15	0.05	43	0.7	0.03	5.3	5.90	<0.1	0.04
1097476	Soil		7.0	20.7	0.31	109.2	0.006	3	1.35	0.003	0.10	<0.1	4.7	0.14	0.07	37	0.5	0.05	3.6	6.57	<0.1	0.06
1097477	Soil		5.9	13.0	0.12	101.2	0.004	3	0.62	0.004	0.08	<0.1	3.0	0.10	0.05	76	0.4	0.06	1.9	1.72	<0.1	0.05
1097478	Soil		8.7	13.3	0.17	97.5	0.002	4	0.63	0.004	0.09	<0.1	6.7	0.11	0.07	80	0.7	0.07	1.6	1.95	<0.1	0.08
1097479	Soil		4.5	14.7	0.13	125.4	0.003	3	0.88	0.004	0.09	<0.1	3.7	0.14	0.04	61	0.2	0.10	2.5	4.69	<0.1	0.05
1097480	Soil		3.9	13.1	0.06	55.8	0.005	2	0.62	0.003	0.08	<0.1	1.1	0.09	0.06	34	0.5	0.03	2.8	2.20	<0.1	<0.02
1097481	Soil		3.5	15.0	0.07	62.5	0.005	2	0.63	0.002	0.08	<0.1	1.6	0.11	0.05	116	0.4	0.03	2.8	3.99	<0.1	<0.02
1097482	Soil		2.5	13.5	0.06	190.9	0.003	2	0.49	0.005	0.09	<0.1	1.6	0.11	0.06	45	0.4	0.08	2.4	2.99	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 23, 2011

Page: 12 of 13 Part 3

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1096455	Soil	0.24	7.9	0.5	<0.05	1.6	10.56	13.6	0.03	2	1.1	37.4	<10	<2
1096456	Soil	0.06	5.9	1.2	<0.05	1.1	17.19	14.0	0.06	<1	1.1	9.7	<10	<2
1096457	Soil	0.06	5.0	0.6	<0.05	1.2	16.66	17.9	0.05	<1	1.5	3.9	<10	<2
1096458	Soil	0.14	6.9	2.0	<0.05	3.8	30.17	24.6	0.08	1	2.3	48.8	<10	<2
1096459	Soil	0.17	8.7	0.9	<0.05	6.2	25.21	25.5	0.07	1	1.9	44.6	<10	<2
1096460	Soil	0.18	6.5	1.7	<0.05	4.7	21.94	17.8	0.07	3	1.7	54.5	<10	<2
1096461	Soil	0.21	7.8	2.2	<0.05	3.2	23.95	27.5	0.05	<1	1.4	33.7	<10	<2
1096462	Soil	0.08	15.1	1.4	<0.05	4.4	19.32	21.3	0.05	<1	2.4	61.5	<10	<2
1096463	Soil	0.06	7.5	0.6	<0.05	1.0	3.75	11.4	0.04	2	1.3	15.4	<10	<2
1096464	Soil	0.22	14.4	1.1	<0.05	0.3	2.27	9.1	0.04	<1	1.2	20.3	<10	<2
1096465	Soil	0.27	18.8	0.6	<0.05	0.5	2.86	10.3	0.04	<1	1.4	27.2	<10	<2
1096466	Soil	0.10	12.9	0.8	<0.05	1.3	7.78	13.4	0.06	2	1.5	51.7	<10	<2
1096467	Soil	0.29	11.2	0.7	<0.05	0.6	3.39	10.4	0.04	<1	1.3	23.5	<10	<2
1096468	Soil	0.24	13.0	0.5	<0.05	2.7	32.68	37.8	0.05	2	1.9	29.1	<10	<2
1096469	Soil	0.20	10.5	0.6	<0.05	2.1	26.54	49.3	0.06	<1	1.2	20.3	<10	<2
1096470	Soil	0.17	8.4	0.6	<0.05	3.7	13.04	34.2	0.05	2	1.6	19.8	<10	<2
1096471	Soil	0.15	5.2	0.5	<0.05	2.6	14.19	24.3	0.04	2	1.1	13.2	<10	<2
1096472	Soil	0.22	6.7	0.7	<0.05	2.8	17.22	24.1	0.05	<1	1.5	30.2	<10	<2
1096473	Soil	0.18	8.1	0.6	<0.05	2.1	29.09	31.7	0.06	<1	1.5	18.6	<10	<2
1096474	Soil	0.25	7.7	0.5	<0.05	1.0	11.61	13.5	0.04	<1	0.7	25.1	<10	<2
1096475	Soil	0.16	13.6	0.6	<0.05	1.2	10.94	11.8	0.03	<1	2.2	52.9	<10	<2
1097474	Soil	0.13	12.1	3.6	<0.05	3.9	5.95	10.9	0.04	2	1.2	45.4	<10	<2
1097475	Soil	0.29	16.5	1.4	<0.05	0.9	5.95	19.3	0.03	4	1.0	25.5	<10	<2
1097476	Soil	0.20	13.7	1.5	<0.05	2.1	16.90	25.1	<0.02	2	1.9	36.7	<10	<2
1097477	Soil	0.19	8.1	1.2	<0.05	1.4	11.87	15.5	0.03	2	0.9	7.7	<10	<2
1097478	Soil	0.11	6.1	4.6	<0.05	2.1	25.00	23.9	0.04	<1	1.2	11.7	<10	<2
1097479	Soil	0.09	12.3	1.3	<0.05	1.6	12.66	15.0	0.04	<1	1.1	13.9	<10	<2
1097480	Soil	0.18	14.4	0.6	<0.05	0.3	2.74	8.7	0.03	<1	0.8	3.1	<10	<2
1097481	Soil	0.17	15.6	1.0	<0.05	0.4	2.59	7.4	0.03	<1	0.6	4.7	<10	<2
1097482	Soil	0.14	15.6	1.2	<0.05	0.2	2.81	7.3	0.03	2	0.6	2.7	<10	<2



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Project: Scarlet
 Report Date: September 23, 2011

Page: 13 of 13 Part 1

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1097483	Soil	1.15	33.62	39.20	123.3	235	33.7	19.5	1100	4.26	8.3	1.2	<0.2	0.8	41.1	0.61	0.59	0.36	24	0.60	0.111



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 Report Date: September 23, 2011

Page: 13 of 13 Part 2

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097483	Soil	6.0	16.7	0.10	153.0	0.006	2	0.70	0.004	0.08	<0.1	2.9	0.09	0.06	24	0.3	0.07	2.9	2.18	<0.1	0.02



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Project: Scarlet
 Report Date: September 23, 2011

Page: 13 of 13 Part 3

CERTIFICATE OF ANALYSIS

WHI11001140.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1097483	Soil	0.23	13.8	2.4	<0.05	0.4	7.90	21.2	0.05	<1	0.8	7.0	<10	<2



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Report Date: September 23, 2011

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001140.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
1096132	Soil	0.48	31.88	18.27	77.2	145	21.3	10.1	512	2.78	6.8	2.9	1.2	1.3	166.7	0.11	0.40	0.26	18	2.24	0.060
REP 1096132	QC	0.47	31.93	17.74	77.1	146	20.9	9.9	508	2.78	6.6	2.8	0.8	1.2	162.8	0.10	0.40	0.25	18	2.21	0.061
1096142	Soil	1.00	40.83	41.77	144.3	494	41.8	15.0	421	3.84	11.8	2.0	2.9	3.9	97.4	0.25	0.42	0.45	13	2.20	0.147
REP 1096142	QC	0.96	37.83	38.52	134.3	440	38.6	13.9	384	3.58	10.7	1.8	2.0	3.5	89.1	0.21	0.39	0.39	12	2.06	0.136
1096864	Soil	0.53	29.32	36.94	102.6	293	35.8	14.8	382	4.25	8.4	0.8	0.5	3.7	39.3	0.09	0.26	0.42	15	0.64	0.052
REP 1096864	QC	0.46	28.36	35.29	100.2	261	34.5	14.1	368	4.03	7.9	0.8	0.6	3.8	36.9	0.08	0.24	0.39	13	0.59	0.048
1096879	Soil	1.31	35.30	50.11	98.7	118	29.8	18.9	1148	4.46	9.6	0.8	2.6	1.0	8.5	0.28	0.89	0.41	17	0.03	0.119
REP 1096879	QC	1.30	37.02	53.53	104.1	125	32.2	19.8	1135	4.69	8.3	0.9	4.0	0.9	9.4	0.29	0.93	0.44	18	0.03	0.127
1096360	Soil	0.40	27.34	25.86	74.3	164	27.2	13.1	540	2.42	7.4	0.8	1.2	2.9	89.8	0.08	0.30	0.29	18	1.10	0.044
REP 1096360	QC	0.36	27.84	25.39	74.8	167	27.5	13.2	537	2.48	7.2	0.8	1.3	2.9	88.7	0.08	0.31	0.28	18	1.05	0.043
1096371	Soil	0.47	19.13	19.79	79.4	254	22.4	5.6	135	2.03	7.9	2.1	0.9	0.7	132.0	0.43	0.34	0.29	19	2.42	0.075
REP 1096371	QC	0.51	19.44	20.12	81.2	266	22.2	5.7	136	2.06	7.8	2.1	3.3	0.7	135.0	0.43	0.34	0.26	19	2.41	0.078
1096393	Soil	0.52	29.56	31.77	116.0	271	32.5	12.4	323	3.47	6.5	0.8	0.6	2.8	111.2	0.15	0.26	0.30	8	1.52	0.053
REP 1096393	QC	0.54	29.48	31.85	119.1	264	32.8	12.2	315	3.40	6.6	0.8	0.3	2.8	111.4	0.13	0.27	0.30	8	1.49	0.051
1097398	Soil	0.69	19.26	38.89	81.1	91	21.1	8.9	510	3.21	15.0	1.1	2.2	1.5	49.6	0.11	0.58	0.40	23	0.58	0.100
REP 1097398	QC	0.63	18.57	36.08	76.3	87	19.4	8.6	485	3.06	14.4	1.1	1.5	1.4	47.9	0.10	0.56	0.36	22	0.55	0.095
1097417	Soil	0.42	19.34	22.55	90.5	70	16.6	5.7	204	3.02	6.0	0.5	0.2	1.2	13.4	0.09	0.25	0.35	14	0.04	0.059
REP 1097417	QC	0.44	19.09	22.96	91.6	72	16.8	6.0	205	3.02	5.8	0.5	<0.2	1.3	14.4	0.09	0.25	0.35	14	0.04	0.062
1097463	Soil	1.09	19.18	36.17	81.0	122	23.9	10.0	290	3.65	10.0	0.8	1.7	2.4	7.6	0.14	0.36	0.37	19	0.04	0.063
REP 1097463	QC	0.98	18.93	35.18	78.8	112	23.4	9.8	285	3.57	9.9	0.8	1.3	2.4	7.3	0.12	0.36	0.36	19	0.04	0.063
1096553	Soil	0.56	23.99	87.72	191.0	331	36.1	13.7	1423	4.68	42.4	0.8	3.3	3.0	35.8	0.25	3.96	0.41	15	1.27	0.058
REP 1096553	QC	0.54	24.10	86.40	188.0	320	35.8	13.7	1379	4.66	41.8	0.8	3.2	3.0	36.1	0.24	3.96	0.39	15	1.25	0.057
1098506	Soil	0.51	20.46	29.22	93.4	112	23.9	10.1	725	3.16	14.2	0.8	2.2	2.7	40.7	0.21	0.77	0.27	16	3.02	0.057
REP 1098506	QC	0.47	20.71	29.75	93.7	118	23.2	10.3	763	3.18	14.1	0.8	2.5	2.8	42.4	0.24	0.78	0.30	16	3.12	0.056
1096752	Soil	0.61	14.82	32.42	47.0	144	16.0	8.1	1748	2.87	27.3	0.9	5.5	0.8	41.4	0.25	2.23	0.18	19	7.40	0.151
REP 1096752	QC	0.58	15.72	33.94	46.6	156	17.3	9.0	1861	3.02	28.5	0.9	5.4	0.9	41.9	0.29	2.32	0.19	20	7.61	0.162
1096777	Soil	0.51	19.11	22.51	37.1	90	23.8	14.0	663	2.90	23.7	0.6	1.1	2.8	9.0	0.10	0.96	0.47	18	0.91	0.035
REP 1096777	QC	0.52	19.29	21.49	34.0	84	22.8	13.6	641	2.89	23.8	0.6	1.0	2.9	9.0	0.08	0.96	0.46	18	0.87	0.034

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 Report Date: September 23, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001140.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
1096132	Soil	5.1	20.3	0.37	102.2	0.002	5	1.30	0.005	0.10	<0.1	3.2	0.10	0.09	94	0.5	0.06	4.0	2.18	<0.1	0.06
REP 1096132	QC	5.1	19.0	0.36	99.8	0.002	5	1.35	0.005	0.11	<0.1	3.1	0.09	0.09	87	0.4	<0.02	3.9	2.25	<0.1	0.06
1096142	Soil	7.5	12.5	0.12	117.1	0.002	3	0.58	0.008	0.10	<0.1	4.2	0.16	0.07	76	0.6	0.08	1.3	0.81	<0.1	0.13
REP 1096142	QC	6.8	11.1	0.11	107.7	0.002	3	0.54	0.008	0.10	<0.1	4.1	0.14	0.06	72	0.5	0.04	1.3	0.76	<0.1	0.10
1096864	Soil	9.4	14.8	0.19	79.4	<0.001	2	0.95	0.005	0.06	<0.1	6.0	0.13	0.04	59	<0.1	0.05	2.0	0.91	<0.1	0.05
REP 1096864	QC	8.8	13.4	0.18	73.9	<0.001	<1	0.84	0.005	0.05	<0.1	5.5	0.12	0.04	49	0.1	0.04	1.8	0.71	<0.1	0.06
1096879	Soil	2.8	18.3	0.07	65.7	0.002	2	0.75	0.002	0.07	<0.1	1.9	0.12	0.05	82	0.2	0.03	2.2	4.08	<0.1	<0.02
REP 1096879	QC	3.2	19.0	0.07	71.3	0.004	2	0.76	0.002	0.08	<0.1	2.5	0.14	0.05	103	0.2	0.04	2.4	5.09	<0.1	<0.02
1096360	Soil	6.8	26.6	0.57	100.8	0.003	5	1.48	0.003	0.12	<0.1	5.8	0.09	0.04	258	0.3	0.03	4.0	5.31	<0.1	0.05
REP 1096360	QC	6.8	25.9	0.59	97.6	0.002	4	1.48	0.003	0.12	<0.1	5.6	0.09	0.04	274	0.3	0.05	4.0	5.16	<0.1	0.07
1096371	Soil	11.6	13.8	0.07	141.5	0.004	2	0.80	0.004	0.05	<0.1	1.5	0.12	0.09	264	0.7	0.03	1.5	0.28	<0.1	0.03
REP 1096371	QC	11.8	14.1	0.08	143.2	0.004	2	0.82	0.004	0.05	<0.1	1.5	0.13	0.09	268	0.6	<0.02	1.6	0.29	<0.1	0.03
1096393	Soil	9.7	11.7	0.18	83.2	0.001	5	0.64	0.005	0.10	<0.1	3.8	0.19	0.07	127	0.5	<0.02	1.7	1.43	<0.1	0.05
REP 1096393	QC	9.6	11.1	0.18	82.0	0.001	4	0.62	0.005	0.09	<0.1	3.7	0.19	0.07	138	0.5	<0.02	1.7	1.43	<0.1	0.03
1097398	Soil	8.5	16.7	0.20	195.8	0.003	2	1.07	0.002	0.06	<0.1	2.5	0.15	0.05	220	0.3	0.04	3.0	1.23	<0.1	0.06
REP 1097398	QC	8.0	16.0	0.20	183.9	0.003	2	1.01	0.001	0.06	0.1	2.4	0.15	0.05	205	0.3	0.05	2.9	1.19	<0.1	0.06
1097417	Soil	3.3	11.2	0.07	53.3	0.001	2	0.62	0.002	0.07	<0.1	2.3	0.12	0.03	40	0.2	0.03	2.4	2.03	<0.1	<0.02
REP 1097417	QC	3.5	11.3	0.08	55.3	0.001	2	0.65	0.002	0.08	<0.1	2.4	0.13	0.03	33	0.2	0.04	2.3	2.13	<0.1	<0.02
1097463	Soil	4.7	22.0	0.18	56.9	0.003	2	1.04	0.003	0.07	<0.1	2.6	0.13	0.04	38	<0.1	0.07	3.0	2.41	<0.1	0.02
REP 1097463	QC	4.7	21.2	0.17	56.3	0.003	2	1.01	0.003	0.07	<0.1	2.5	0.12	0.04	43	<0.1	0.05	3.0	2.39	<0.1	0.03
1096553	Soil	13.8	10.3	0.34	109.6	<0.001	3	0.42	0.002	0.10	<0.1	6.2	0.12	0.05	271	0.3	0.06	1.1	0.58	<0.1	0.06
REP 1096553	QC	13.9	10.3	0.34	107.7	<0.001	4	0.43	0.002	0.10	<0.1	6.2	0.12	0.05	293	0.3	0.06	1.2	0.59	<0.1	0.05
1098506	Soil	7.8	13.1	1.49	68.8	0.002	3	0.82	0.004	0.08	<0.1	3.5	0.12	0.03	115	0.4	<0.02	2.0	0.96	<0.1	0.06
REP 1098506	QC	8.0	13.4	1.54	70.0	0.002	2	0.82	0.005	0.07	<0.1	3.5	0.11	0.03	112	0.3	0.03	2.1	0.90	<0.1	0.06
1096752	Soil	9.1	13.7	3.81	83.5	0.004	6	0.83	0.010	0.06	<0.1	1.9	0.20	0.06	183	0.8	0.03	2.0	0.53	<0.1	0.04
REP 1096752	QC	9.4	14.2	3.96	87.3	0.004	5	0.87	0.010	0.06	0.1	1.8	0.19	0.06	183	0.5	0.03	2.0	0.51	<0.1	0.05
1096777	Soil	6.4	13.1	0.47	65.9	0.004	3	0.67	0.004	0.07	<0.1	4.0	0.10	<0.02	52	0.4	0.06	2.0	0.37	<0.1	0.05
REP 1096777	QC	6.1	13.0	0.46	61.9	0.004	1	0.67	0.004	0.07	<0.1	4.0	0.09	<0.02	69	<0.1	0.07	2.0	0.36	<0.1	0.03

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Page: 1 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001140.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
1096132	Soil	0.21	10.3	1.0	<0.05	2.1	10.49	13.3	0.04	<1	0.8	38.6	<10	<2
REP 1096132	QC	0.21	10.6	1.1	<0.05	1.9	10.33	13.0	0.03	<1	0.8	38.5	<10	<2
1096142	Soil	0.09	5.2	3.5	<0.05	4.1	16.36	21.5	0.05	<1	0.9	9.0	<10	<2
REP 1096142	QC	0.08	4.8	3.4	<0.05	3.6	14.81	19.6	0.04	<1	0.8	8.3	<10	<2
1096864	Soil	0.10	6.8	1.0	<0.05	2.2	19.75	28.3	0.07	2	1.2	19.0	<10	<2
REP 1096864	QC	0.12	5.4	0.9	<0.05	2.2	18.47	26.2	0.05	<1	1.1	17.0	<10	<2
1096879	Soil	0.09	13.8	6.5	<0.05	0.6	4.58	8.6	0.05	<1	0.9	3.3	<10	<2
REP 1096879	QC	0.10	17.4	6.9	<0.05	0.5	4.97	9.6	0.05	1	0.9	3.5	<10	<2
1096360	Soil	0.30	10.5	3.3	<0.05	2.4	10.43	14.9	0.03	<1	1.0	44.1	<10	<2
REP 1096360	QC	0.34	10.2	2.9	<0.05	2.4	10.27	14.8	0.03	<1	1.0	43.9	<10	<2
1096371	Soil	0.38	4.3	1.1	<0.05	0.8	8.85	38.0	0.03	<1	0.6	5.1	<10	<2
REP 1096371	QC	0.37	4.6	0.9	<0.05	0.8	8.85	38.9	0.03	<1	0.5	5.4	<10	<2
1096393	Soil	0.13	7.4	1.6	<0.05	1.7	12.48	27.3	0.04	<1	0.9	12.9	<10	<2
REP 1096393	QC	0.14	7.9	1.8	<0.05	1.6	12.67	27.0	0.04	<1	0.9	12.9	<10	<2
1097398	Soil	0.27	9.5	2.3	<0.05	1.4	8.18	20.2	0.04	1	0.9	15.3	<10	<2
REP 1097398	QC	0.26	9.5	1.7	<0.05	1.3	7.63	19.6	0.04	<1	0.8	14.4	<10	<2
1097417	Soil	0.10	10.7	1.2	<0.05	0.3	3.84	8.4	0.04	<1	0.6	5.7	<10	<2
REP 1097417	QC	0.09	11.2	1.2	<0.05	0.2	3.92	8.8	0.04	<1	0.6	6.2	<10	<2
1097463	Soil	0.30	11.1	2.1	<0.05	1.4	5.13	14.0	0.04	<1	0.7	17.2	<10	<2
REP 1097463	QC	0.28	10.8	2.1	<0.05	1.2	4.99	13.7	0.03	<1	0.6	16.7	<10	<2
1096553	Soil	0.07	5.9	1.4	<0.05	2.5	19.79	36.9	0.04	<1	1.3	2.6	<10	<2
REP 1096553	QC	0.07	6.0	1.2	<0.05	2.8	19.50	36.1	0.05	1	1.3	2.5	<10	<2
1098506	Soil	0.14	6.3	1.1	<0.05	1.9	10.69	20.3	0.02	<1	0.6	13.0	<10	<2
REP 1098506	QC	0.14	6.0	0.9	<0.05	2.1	10.55	21.0	0.04	<1	1.1	13.1	<10	<2
1096752	Soil	0.12	5.4	2.7	<0.05	1.1	10.59	19.3	<0.02	<1	1.0	5.6	<10	<2
REP 1096752	QC	0.13	5.1	2.4	<0.05	1.4	11.34	20.1	<0.02	<1	0.5	6.0	<10	<2
1096777	Soil	0.25	4.7	1.6	<0.05	1.6	6.56	16.7	0.02	<1	0.5	7.1	<10	4
REP 1096777	QC	0.23	4.6	1.4	<0.05	1.5	6.34	15.7	0.04	<1	0.7	6.7	<10	2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 23, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001140.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
1097239	Soil	0.57	21.34	20.00	59.1	84	18.6	11.7	492	3.31	8.8	0.3	0.4	1.5	17.8	0.09	0.34	0.30	23	0.19	0.041
REP 1097239	QC	0.58	22.69	19.66	61.1	86	19.8	11.9	506	3.41	9.2	0.3	<0.2	1.6	18.5	0.10	0.38	0.30	24	0.19	0.042
1097298	Soil	1.19	54.60	73.56	135.7	275	62.6	33.4	1562	6.68	42.8	1.5	0.5	4.6	68.1	0.13	0.55	0.47	24	0.76	0.093
REP 1097298	QC	1.19	53.12	70.05	128.5	270	59.9	33.5	1513	6.47	40.4	1.5	0.5	4.1	64.9	0.12	0.56	0.43	23	0.74	0.089
1096461	Soil	1.24	38.80	36.76	89.1	302	34.8	17.9	793	3.98	10.9	1.4	1.3	3.0	114.6	0.21	0.41	0.32	18	1.35	0.102
REP 1096461	QC	1.25	41.09	38.59	94.8	315	35.8	19.5	823	4.19	11.4	1.5	0.4	3.3	112.2	0.25	0.45	0.33	18	1.44	0.113
1097475	Soil	1.88	37.97	53.53	108.5	123	26.8	23.0	1338	4.21	12.3	1.0	2.3	1.0	7.9	0.15	0.83	0.45	36	0.05	0.120
REP 1097475	QC	1.85	37.05	52.20	101.9	108	26.0	22.4	1329	4.19	11.9	0.9	<0.2	1.0	7.5	0.14	0.85	0.47	36	0.05	0.115
Reference Materials																					
STD DS8	Standard	13.16	102.9	127.4	311.6	1864	36.3	7.0	616	2.39	26.7	2.9	115.8	7.0	67.3	2.33	5.73	6.91	41	0.72	0.085
STD DS8	Standard	13.78	116.4	127.7	316.0	1781	39.3	7.5	614	2.51	24.6	2.9	117.9	7.2	57.7	2.27	5.13	6.24	42	0.72	0.077
STD DS8	Standard	11.74	104.1	113.4	290.8	1659	35.6	7.3	560	2.28	25.6	2.6	100.7	5.9	59.0	2.20	5.25	6.26	38	0.65	0.076
STD DS8	Standard	12.88	106.2	114.1	304.2	1825	35.4	7.2	619	2.46	28.5	2.5	123.6	6.2	69.2	2.39	5.97	6.29	42	0.72	0.081
STD DS8	Standard	11.67	111.3	124.8	307.5	1807	37.3	7.3	568	2.37	25.3	2.6	111.2	6.3	53.7	2.24	5.09	6.09	39	0.65	0.076
STD DS8	Standard	14.00	112.2	124.6	307.5	1763	39.6	8.2	609	2.48	26.7	2.7	113.3	7.2	60.2	2.11	4.52	5.94	42	0.73	0.076
STD DS8	Standard	13.17	109.1	121.6	298.7	1696	38.6	7.7	587	2.39	23.5	2.6	108.4	6.5	56.5	2.05	4.96	5.70	39	0.69	0.071
STD DS8	Standard	13.18	106.8	122.2	318.6	1822	38.6	7.6	612	2.47	26.7	2.7	115.0	6.4	59.1	2.13	5.09	5.96	41	0.73	0.077
STD DS8	Standard	13.02	107.7	124.7	317.3	1747	35.7	7.3	615	2.46	28.5	2.7	106.7	6.7	63.5	2.37	5.45	6.37	41	0.73	0.085
STD DS8	Standard	12.95	107.7	125.2	311.7	1783	37.9	7.6	600	2.42	26.4	2.7	121.8	6.6	59.3	2.22	5.06	5.99	41	0.72	0.078
STD DS8	Standard	12.90	110.3	126.1	303.9	1884	37.0	7.5	605	2.53	25.3	2.7	113.6	6.9	61.7	2.24	5.38	6.58	40	0.68	0.076
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 23, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001140.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
1097239	Soil	3.2	16.7	0.22	103.0	0.002	1	1.16	0.001	0.08	<0.1	2.1	0.07	<0.02	33	0.2	0.05	3.9	0.72	<0.1	0.02
REP 1097239	QC	3.3	17.7	0.23	107.0	0.002	1	1.23	0.001	0.09	<0.1	2.3	0.07	<0.02	30	0.4	0.06	3.8	0.83	<0.1	<0.02
1097298	Soil	12.7	28.0	0.39	92.4	0.002	4	2.00	0.003	0.09	<0.1	11.0	0.18	0.06	185	1.3	0.04	4.8	5.47	<0.1	0.08
REP 1097298	QC	12.2	26.0	0.37	86.2	0.001	2	1.91	0.002	0.08	<0.1	10.2	0.17	0.06	173	1.2	0.12	4.6	4.96	<0.1	0.08
1096461	Soil	8.6	25.1	0.35	80.8	0.002	5	1.15	0.006	0.09	<0.1	6.3	0.10	0.10	60	1.0	0.05	3.5	2.10	<0.1	0.11
REP 1096461	QC	9.5	24.3	0.37	87.6	0.004	6	1.20	0.006	0.10	<0.1	6.9	0.12	0.11	71	1.3	0.07	3.5	2.91	<0.1	0.10
1097475	Soil	7.2	31.7	0.36	69.8	0.010	3	1.42	0.003	0.10	<0.1	2.2	0.15	0.05	43	0.7	0.03	5.3	5.90	<0.1	0.04
REP 1097475	QC	7.0	31.8	0.34	70.4	0.009	3	1.43	0.003	0.09	<0.1	2.3	0.13	0.05	46	0.7	<0.02	4.9	5.59	<0.1	0.03
Reference Materials																					
STD DS8	Standard	15.4	119.8	0.61	286.8	0.106	3	0.92	0.094	0.42	3.1	2.2	5.65	0.15	194	5.2	5.12	4.9	2.55	<0.1	0.07
STD DS8	Standard	14.4	122.1	0.62	265.5	0.106	3	0.93	0.088	0.42	2.9	2.2	5.45	0.17	215	5.4	4.85	4.8	2.54	<0.1	0.06
STD DS8	Standard	13.0	113.3	0.56	264.8	0.106	3	0.90	0.106	0.41	2.9	2.1	5.00	0.14	177	4.5	4.78	4.3	2.27	<0.1	0.07
STD DS8	Standard	14.6	120.2	0.60	297.5	0.113	3	0.97	0.106	0.43	3.1	2.2	5.14	0.16	195	5.4	4.98	4.8	2.47	0.2	0.07
STD DS8	Standard	11.8	116.4	0.59	266.4	0.104	2	0.90	0.091	0.42	2.9	2.0	5.44	0.16	189	4.9	4.90	4.4	2.45	0.1	0.06
STD DS8	Standard	15.2	124.0	0.62	249.0	0.117	2	0.99	0.104	0.44	2.9	2.5	5.49	0.16	183	5.2	5.01	4.9	2.47	<0.1	0.06
STD DS8	Standard	14.0	119.6	0.60	237.3	0.109	2	0.95	0.108	0.43	3.0	2.5	5.37	0.16	189	4.9	4.98	4.6	2.42	<0.1	0.06
STD DS8	Standard	14.2	124.1	0.62	257.8	0.111	3	0.94	0.097	0.42	3.1	2.4	5.57	0.16	201	5.1	5.11	4.8	2.52	0.1	0.05
STD DS8	Standard	15.0	120.4	0.62	285.3	0.110	3	0.96	0.106	0.44	3.1	2.1	5.52	0.16	201	5.3	4.97	4.8	2.53	0.1	0.08
STD DS8	Standard	14.3	121.7	0.62	257.3	0.113	2	0.96	0.103	0.43	3.2	2.4	5.65	0.16	197	5.3	5.00	4.7	2.49	<0.1	0.05
STD DS8	Standard	13.1	124.7	0.60	264.5	0.113	3	0.95	0.108	0.44	3.3	2.8	5.50	0.16	237	5.3	4.56	4.6	2.32	<0.1	0.10
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 23, 2011

Page: 2 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001140.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
1097239	Soil	0.18	9.9	0.6	<0.05	0.8	4.28	8.0	0.03	<1	0.6	23.8	<10	2
REP 1097239	QC	0.24	11.1	0.8	<0.05	0.8	4.32	8.2	0.03	<1	0.8	26.4	<10	<2
1097298	Soil	0.21	11.2	1.5	<0.05	1.9	33.68	54.5	0.08	<1	2.4	48.7	<10	<2
REP 1097298	QC	0.26	10.2	1.3	<0.05	2.0	32.37	52.0	0.08	2	2.7	45.9	<10	<2
1096461	Soil	0.21	7.8	2.2	<0.05	3.2	23.95	27.5	0.05	<1	1.4	33.7	<10	<2
REP 1096461	QC	0.18	10.0	2.1	<0.05	3.2	25.65	30.1	0.04	1	0.8	35.0	<10	4
1097475	Soil	0.29	16.5	1.4	<0.05	0.9	5.95	19.3	0.03	4	1.0	25.5	<10	<2
REP 1097475	QC	0.26	15.5	1.2	<0.05	1.0	5.80	18.2	0.04	<1	0.9	24.4	<10	<2
Reference Materials														
STD DS8	Standard	1.43	39.7	6.7	<0.05	1.9	6.12	29.9	2.30	60	5.3	30.3	121	368
STD DS8	Standard	1.14	39.1	6.3	<0.05	2.0	5.74	27.6	2.30	56	6.3	26.8	110	372
STD DS8	Standard	1.22	35.7	6.8	<0.05	1.7	5.10	24.2	2.06	55	5.3	25.8	96	340
STD DS8	Standard	1.30	36.6	7.1	<0.05	2.1	5.98	27.6	2.16	57	5.3	27.0	101	327
STD DS8	Standard	1.10	36.6	6.6	<0.05	1.9	4.98	23.0	2.16	66	4.5	26.6	114	353
STD DS8	Standard	1.30	39.0	5.9	<0.05	1.9	6.16	28.3	2.16	49	5.1	25.2	113	353
STD DS8	Standard	1.20	37.2	5.9	<0.05	1.6	5.73	25.6	2.10	58	5.0	25.1	102	345
STD DS8	Standard	1.46	38.8	6.3	<0.05	1.5	6.13	27.6	2.11	58	5.1	26.9	111	328
STD DS8	Standard	1.36	40.4	6.6	<0.05	1.7	6.14	27.2	2.18	57	4.9	28.2	114	348
STD DS8	Standard	1.38	38.7	6.3	<0.05	1.5	6.01	27.1	2.11	62	5.3	27.7	114	352
STD DS8	Standard	1.24	36.1	6.5	<0.05	2.0	5.52	25.4	2.23	51	5.9	27.2	126	327
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

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Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: September 23, 2011

Page: 3 of 3 **Part** 1

QUALITY CONTROL REPORT

WHI11001140.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001140.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

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Project: Scarlet

Report Date: September 23, 2011

Page: 3 of 3 **Part** 3

QUALITY CONTROL REPORT

WHI11001140.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10



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Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 06, 2011
Report Date: September 12, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001169.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-18
P.O. Number: na-10337
Number of Samples: 320

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: database backup
Simon Ridgway
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			WHI
1F05	320	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
RJSV	320	Saving all or part of Soil Reject			WHI

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.1	0.01	0.02	0.02	0.02	2	0.01	0.001
118241	Soil	0.79	59.20	45.48	118.4	84	49.7	19.4	894	3.84	14.1	0.9	7.7	3.9	41.8	0.23	0.57	0.45	22	0.45	0.054
118242	Soil	0.59	47.73	26.07	131.9	62	63.0	21.4	1533	4.52	10.3	0.5	4.6	3.4	132.5	0.23	0.44	0.40	18	1.02	0.036
118243	Soil	0.61	38.14	28.73	106.6	60	43.7	12.6	276	3.70	24.2	0.7	5.1	3.4	43.2	0.12	0.62	0.38	17	0.33	0.042
118244	Soil	0.54	38.40	24.54	113.7	23	47.7	16.1	632	4.25	20.5	0.4	2.7	2.2	38.9	0.09	0.55	0.38	21	0.14	0.051
118245	Soil	0.34	41.98	24.64	112.1	53	50.2	15.3	436	4.06	14.2	0.5	4.2	3.8	45.4	0.11	0.45	0.41	15	0.18	0.043
118246	Soil	0.96	40.27	33.27	146.1	144	50.4	15.7	295	4.37	2226	1.0	12.9	2.6	48.4	0.17	2.54	0.31	25	0.94	0.072
118247	Soil	0.27	29.69	16.98	76.6	53	21.0	9.7	204	3.20	41.7	1.5	1.9	3.3	81.9	0.17	0.68	0.31	11	1.18	0.058
118248	Soil	1.19	30.67	25.38	73.6	153	23.4	11.3	408	2.90	29.2	2.8	6.0	1.1	93.4	0.17	1.31	0.29	12	1.42	0.090
118249	Soil	0.49	42.66	27.76	95.8	92	33.9	16.7	380	3.60	18.5	1.0	2.4	2.5	80.2	0.10	0.89	0.44	12	0.90	0.048
118250	Soil	0.72	41.00	37.79	83.4	141	28.2	15.8	1112	3.37	18.2	2.1	2.9	1.6	108.2	0.17	0.65	0.35	15	1.30	0.083
1096001	Soil	0.72	50.16	37.32	105.4	94	38.6	22.5	437	3.22	270.1	0.9	7.0	3.1	116.0	0.08	1.39	0.53	9	1.97	0.041
1096002	Soil	0.57	51.30	50.62	118.2	191	39.2	22.9	593	4.85	30.8	0.5	2.3	3.2	35.6	0.04	1.08	0.47	14	0.25	0.030
1096003	Soil	1.12	62.98	61.87	137.5	390	68.0	35.0	307	5.98	54.9	0.5	1.7	3.3	142.4	0.09	0.52	0.51	14	3.29	0.049
1096004	Soil	0.75	52.03	66.63	151.9	351	55.9	29.0	548	5.50	31.5	0.7	2.2	3.8	50.6	0.11	0.63	0.50	21	0.66	0.057
1096005	Soil	1.73	50.60	51.91	112.5	486	44.2	27.5	691	4.56	44.7	0.6	3.5	5.8	75.1	0.11	0.67	0.42	26	0.78	0.056
1096006	Soil	0.79	33.79	35.32	79.7	345	30.0	15.1	444	3.80	11.4	0.7	2.9	2.4	155.0	0.14	0.39	0.36	16	1.71	0.085
1096007	Soil	1.01	37.30	38.69	96.3	176	38.6	17.1	612	4.14	13.2	0.5	1.3	3.6	144.1	0.11	0.30	0.35	17	1.89	0.052
1096008	Soil	0.66	32.06	29.06	86.4	313	29.8	15.5	320	3.88	8.9	0.7	1.9	2.6	125.6	0.14	0.30	0.30	15	2.50	0.072
1096009	Soil	0.34	13.19	10.23	32.4	98	9.2	4.8	243	1.16	2.7	0.7	0.9	0.3	144.2	0.13	0.15	0.11	6	3.34	0.050
1096010	Soil	0.46	32.41	18.63	62.3	246	21.7	10.8	458	2.59	10.5	2.2	1.9	0.9	156.5	0.15	0.33	0.22	17	2.54	0.073
1096011	Soil	0.43	29.13	12.97	56.4	190	16.6	7.1	329	1.67	9.4	2.0	1.5	0.5	190.7	0.17	0.28	0.18	13	3.23	0.077
1096012	Soil	0.91	24.38	30.18	96.2	168	30.0	13.5	540	4.65	17.6	1.0	2.1	5.0	13.2	0.19	0.57	0.31	30	0.08	0.059
1096013	Soil	0.54	44.73	24.13	77.6	312	28.8	13.2	690	3.27	13.1	2.1	2.3	3.2	98.9	0.14	0.38	0.31	29	1.30	0.070
1096014	Soil	0.69	22.65	22.83	73.5	137	29.4	13.1	439	3.74	16.3	1.0	1.9	4.3	70.8	0.10	0.49	0.28	28	0.86	0.033
1096015	Soil	0.79	36.65	49.96	91.8	80	34.3	23.6	622	6.32	22.6	0.6	0.9	3.6	10.1	0.08	0.68	0.46	29	0.03	0.030
1096016	Soil	1.11	31.55	32.41	83.7	186	29.6	14.1	638	3.78	10.0	1.6	1.5	3.0	177.4	0.13	0.50	0.29	19	1.82	0.136
1096017	Soil	0.44	32.27	20.72	80.3	223	25.8	12.1	362	3.16	8.9	1.2	1.3	2.6	188.1	0.17	0.46	0.26	17	1.79	0.073
612901	Soil	0.85	18.04	20.99	104.2	44	17.4	12.5	641	4.32	15.5	0.4	2.2	0.8	11.5	0.14	0.45	0.35	39	0.05	0.063
612902	Soil	0.80	26.36	21.73	78.9	146	23.7	12.6	926	3.62	10.1	1.0	1.4	1.2	15.6	0.15	0.59	0.27	33	0.11	0.080
612903	Soil	1.16	19.45	19.27	87.3	56	16.2	7.7	349	3.68	18.2	0.5	0.7	0.6	15.2	0.20	0.69	0.38	46	0.07	0.037



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
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 Report Date: September 12, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
118241	Soil	9.0	44.0	1.29	79.8	0.005	6	1.76	0.004	0.12	<0.1	8.4	0.15	0.06	61	0.5	0.03	5.3	7.33	<0.1	0.09
118242	Soil	6.7	26.6	0.76	56.1	0.001	2	0.42	0.004	0.09	<0.1	6.8	0.10	0.12	148	0.4	0.02	1.9	2.47	<0.1	0.03
118243	Soil	8.4	27.5	0.43	42.4	0.002	3	0.82	0.003	0.08	<0.1	6.3	0.10	0.03	105	0.4	0.03	2.5	2.66	<0.1	0.06
118244	Soil	5.7	31.4	0.40	43.9	0.002	2	0.86	0.002	0.08	<0.1	4.6	0.09	<0.02	147	0.2	0.02	3.1	2.38	<0.1	<0.02
118245	Soil	6.3	23.5	0.45	50.1	0.002	2	0.81	0.001	0.08	<0.1	6.1	0.09	<0.02	83	0.2	<0.02	2.3	2.29	<0.1	0.03
118246	Soil	10.2	40.2	0.26	65.0	0.002	2	0.43	0.005	0.07	<0.1	9.9	4.70	0.07	1645	1.7	0.05	1.5	2.55	<0.1	0.06
118247	Soil	13.1	10.9	0.08	97.5	<0.001	2	0.74	0.003	0.07	<0.1	7.2	0.04	0.04	79	0.3	0.06	1.2	0.68	<0.1	0.04
118248	Soil	7.1	9.1	0.11	127.0	<0.001	2	0.57	0.005	0.06	<0.1	4.1	0.10	0.06	193	0.6	0.02	1.1	0.99	<0.1	0.03
118249	Soil	5.1	10.2	0.16	65.2	<0.001	3	0.59	0.004	0.08	<0.1	7.6	0.09	0.04	126	0.4	0.09	1.3	1.80	<0.1	0.05
118250	Soil	7.6	19.9	0.33	108.5	0.002	4	1.06	0.006	0.11	<0.1	6.0	0.11	0.07	108	0.4	0.07	2.9	4.08	<0.1	0.04
1096001	Soil	4.6	10.7	0.34	105.2	<0.001	4	0.32	0.005	0.09	<0.1	7.1	1.49	0.03	608	0.3	0.08	0.8	1.98	<0.1	0.03
1096002	Soil	6.2	14.3	0.25	56.3	<0.001	3	0.82	0.003	0.09	<0.1	5.6	0.08	<0.02	205	0.2	0.11	2.1	4.49	<0.1	0.04
1096003	Soil	4.3	17.4	0.41	168.8	0.002	4	1.12	0.003	0.08	<0.1	6.7	0.20	0.04	382	0.9	0.11	3.0	5.73	<0.1	0.07
1096004	Soil	8.1	24.5	0.45	142.0	0.002	3	1.56	0.003	0.10	<0.1	10.0	0.16	0.04	166	0.5	0.08	4.5	4.92	<0.1	0.05
1096005	Soil	9.7	27.7	0.46	178.1	0.005	5	1.42	0.006	0.10	<0.1	8.5	0.17	0.04	201	0.6	0.07	4.3	4.65	<0.1	0.07
1096006	Soil	6.4	21.1	0.32	162.7	0.002	4	1.19	0.003	0.08	<0.1	5.6	0.04	0.08	117	0.6	0.04	3.3	2.22	<0.1	0.06
1096007	Soil	7.0	26.5	0.42	134.7	0.003	4	1.22	0.004	0.11	<0.1	6.9	0.14	0.05	116	0.5	0.02	3.9	2.70	<0.1	0.06
1096008	Soil	6.7	17.3	0.34	122.9	0.002	5	1.00	0.005	0.09	<0.1	6.5	0.11	0.10	105	0.6	0.05	2.8	1.98	<0.1	0.06
1096009	Soil	3.0	6.4	0.16	70.9	0.002	5	0.32	0.007	0.03	<0.1	1.1	0.04	0.13	63	0.5	0.03	0.8	0.38	<0.1	0.05
1096010	Soil	6.6	16.9	0.38	138.8	0.003	4	1.03	0.007	0.07	<0.1	3.7	0.10	0.11	87	0.7	0.03	2.7	1.35	<0.1	0.06
1096011	Soil	5.1	13.2	0.26	114.1	0.004	5	0.78	0.009	0.05	<0.1	2.2	0.08	0.15	129	0.7	0.04	2.2	1.00	<0.1	0.05
1096012	Soil	10.4	29.5	0.35	91.1	0.006	2	1.96	0.003	0.09	<0.1	4.4	0.13	0.02	94	0.5	0.06	4.1	2.79	<0.1	0.04
1096013	Soil	10.8	27.8	0.46	273.6	0.003	3	1.70	0.005	0.11	<0.1	6.3	0.12	0.05	170	0.5	0.04	4.6	1.91	<0.1	0.06
1096014	Soil	9.9	25.7	0.46	128.5	0.005	2	1.51	0.005	0.07	<0.1	5.0	0.11	0.03	76	0.3	0.04	4.0	1.59	<0.1	0.04
1096015	Soil	5.4	32.1	0.46	82.2	0.002	3	2.04	0.002	0.11	<0.1	3.0	0.13	<0.02	83	0.4	0.10	5.5	4.19	<0.1	0.08
1096016	Soil	10.8	21.9	0.36	95.3	0.002	5	1.19	0.008	0.09	<0.1	5.3	0.10	0.07	138	0.5	0.04	3.2	1.40	<0.1	0.04
1096017	Soil	6.6	19.8	0.41	105.3	0.002	5	1.09	0.005	0.07	<0.1	5.8	0.11	0.07	185	0.5	0.03	3.0	1.45	<0.1	0.05
612901	Soil	6.4	25.8	0.29	123.1	0.005	2	1.60	0.002	0.11	<0.1	1.6	0.12	0.02	28	0.3	0.05	5.8	2.07	<0.1	<0.02
612902	Soil	10.6	26.1	0.37	140.9	0.005	1	1.70	0.002	0.08	<0.1	2.5	0.10	0.03	25	0.1	0.03	4.3	2.51	<0.1	<0.02
612903	Soil	8.6	22.1	0.15	64.8	0.016	<1	0.89	0.002	0.11	0.1	1.8	0.15	<0.02	26	0.3	0.04	4.5	2.41	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 2 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
118241	Soil			0.28	10.9	10.4	<0.05	3.3	14.81	23.1	0.06	<1	1.7	65.1	<10	<2
118242	Soil			0.02	5.6	1.6	<0.05	1.7	6.54	14.5	0.04	<1	0.9	8.0	<10	<2
118243	Soil			0.17	6.4	6.4	<0.05	2.1	10.83	17.2	0.05	<1	1.1	19.2	<10	<2
118244	Soil			0.11	6.8	2.3	<0.05	0.5	4.70	14.0	0.04	<1	1.4	21.8	<10	<2
118245	Soil			0.08	5.5	2.5	<0.05	1.5	9.63	13.8	0.04	<1	1.2	22.1	<10	<2
118246	Soil			0.13	7.1	4.6	<0.05	1.9	17.00	24.7	0.08	<1	0.8	3.9	<10	<2
118247	Soil			0.14	5.7	0.5	<0.05	1.5	19.00	35.5	0.06	<1	1.1	5.8	<10	<2
118248	Soil			0.10	5.3	1.8	<0.05	0.8	15.70	16.1	0.03	<1	1.0	3.2	<10	<2
118249	Soil			0.08	6.7	0.4	<0.05	1.0	17.97	11.8	0.04	<1	1.2	8.5	<10	<2
118250	Soil			0.20	9.6	8.8	<0.05	0.9	19.09	20.7	0.05	<1	1.2	25.1	<10	<2
1096001	Soil			0.03	5.8	2.7	<0.05	1.6	13.36	11.9	0.05	<1	1.1	3.8	<10	<2
1096002	Soil			0.04	7.3	2.8	<0.05	1.1	8.93	14.6	0.04	<1	1.2	25.3	<10	<2
1096003	Soil			0.12	8.3	2.3	<0.05	2.5	12.52	13.0	0.05	<1	1.0	39.2	<10	<2
1096004	Soil			0.23	9.4	1.9	<0.05	2.4	24.12	21.8	0.06	<1	1.7	50.7	<10	<2
1096005	Soil			0.37	12.5	2.7	<0.05	2.2	24.20	24.4	0.06	<1	1.2	39.2	<10	<2
1096006	Soil			0.21	8.4	1.5	<0.05	1.7	19.20	18.1	0.04	<1	1.1	38.2	<10	<2
1096007	Soil			0.23	9.2	5.7	<0.05	1.8	15.07	25.7	0.05	<1	1.1	42.1	<10	<2
1096008	Soil			0.20	8.6	2.0	<0.05	2.0	18.24	21.5	0.05	<1	1.0	29.6	<10	<2
1096009	Soil			0.10	2.3	2.1	<0.05	1.3	7.12	8.6	<0.02	<1	0.3	7.1	<10	<2
1096010	Soil			0.30	7.5	0.7	<0.05	2.0	14.77	18.6	0.03	<1	0.9	26.4	<10	<2
1096011	Soil			0.29	5.8	0.5	<0.05	1.9	9.62	11.7	0.02	<1	0.6	17.4	<10	<2
1096012	Soil			0.52	11.1	1.1	<0.05	1.9	10.03	32.6	0.05	<1	1.1	42.9	<10	<2
1096013	Soil			0.51	10.8	1.4	<0.05	2.1	17.62	25.3	0.04	<1	1.3	45.5	<10	<2
1096014	Soil			0.54	8.1	0.8	<0.05	2.0	9.92	29.4	0.03	<1	0.9	42.2	<10	<2
1096015	Soil			0.21	16.0	3.1	<0.05	3.8	3.40	15.3	0.05	<1	1.1	60.6	<10	<2
1096016	Soil			0.19	8.4	1.7	<0.05	1.9	23.00	31.1	0.05	<1	1.0	37.8	<10	<2
1096017	Soil			0.27	7.8	0.7	<0.05	2.3	12.84	17.5	0.04	<1	0.9	35.2	<10	<2
612901	Soil			0.47	19.1	1.5	<0.05	0.2	2.46	14.4	0.03	<1	0.6	32.9	<10	<2
612902	Soil			0.42	10.8	0.8	<0.05	0.3	10.10	30.1	0.04	<1	1.4	30.2	<10	<2
612903	Soil			0.61	18.2	1.7	<0.05	0.1	2.41	17.4	0.03	<1	0.3	6.3	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612904	Soil			0.44	34.38	24.57	127.7	54	22.8	14.8	714	3.65	13.3	0.8	1.1	1.9	27.9	0.25	0.28	0.43	18	0.32	0.095
612905	Soil			0.54	31.57	28.04	82.4	109	28.8	15.1	301	3.49	21.0	1.9	2.1	3.7	61.8	0.11	0.73	0.38	18	0.76	0.065
612906	Soil			0.65	26.88	23.49	95.6	160	23.1	10.9	550	3.28	28.4	2.9	1.4	1.1	80.5	0.43	0.70	0.32	29	1.00	0.103
612907	Soil			1.12	22.87	19.17	107.4	140	25.5	8.9	330	3.38	76.9	6.7	3.8	1.8	83.5	0.38	2.52	0.27	36	0.79	0.079
612908	Soil			1.06	22.43	22.72	138.3	376	25.5	11.2	546	3.36	114.9	4.9	6.3	1.4	131.8	0.58	2.28	0.26	38	1.19	0.121
612909	Soil			0.66	22.81	18.25	158.1	171	18.0	5.9	253	2.43	75.5	6.2	3.1	1.0	155.8	0.48	1.26	0.18	22	1.72	0.106
612910	Soil			0.72	22.00	14.88	90.5	44	20.8	9.0	415	3.29	17.3	1.1	2.9	1.3	24.0	0.27	0.64	0.27	36	0.39	0.061
612911	Soil			0.65	41.58	15.52	65.4	32	15.2	6.7	309	2.64	5.4	0.5	0.3	2.1	19.3	0.29	0.36	0.27	39	0.31	0.052
612912	Soil			0.87	31.89	20.49	103.9	75	30.7	11.4	436	2.48	30.0	1.3	2.7	4.9	101.3	0.30	1.01	0.18	21	3.62	0.075
612913	Soil			1.13	33.06	29.40	102.0	86	32.5	11.6	464	2.93	24.6	1.3	3.0	6.6	115.0	0.31	0.58	0.17	24	4.33	0.072
612914	Soil			0.63	34.94	18.53	106.1	103	34.6	13.2	343	3.32	27.3	0.8	3.8	3.7	38.7	0.21	0.81	0.24	21	0.96	0.081
612915	Soil			0.70	36.43	20.76	145.9	132	33.6	14.6	502	3.11	124.3	0.8	7.7	2.5	69.2	0.35	1.97	0.22	18	1.47	0.068
612916	Soil			0.37	43.17	21.20	121.3	49	55.3	17.2	584	3.91	7.3	0.5	2.5	3.7	59.2	0.13	0.53	0.35	17	0.58	0.039
612917	Soil			0.63	49.08	34.92	130.4	83	48.9	18.4	641	3.87	88.4	0.6	3.0	4.3	48.9	0.18	1.09	0.43	15	0.83	0.054
612918	Soil			0.32	31.62	21.49	111.2	55	39.4	13.3	408	3.47	14.5	0.6	1.9	3.1	50.3	0.14	0.38	0.35	16	0.57	0.053
612919	Soil			0.40	42.78	23.68	119.6	57	47.3	15.5	338	3.82	14.5	0.5	2.3	2.8	38.0	0.14	0.48	0.37	14	0.38	0.043
612920	Soil			0.41	38.10	22.60	106.3	59	40.5	11.9	272	3.44	14.4	0.7	2.5	2.6	52.7	0.12	0.58	0.33	14	0.69	0.054
612921	Soil			0.61	45.96	47.02	100.4	218	40.2	22.3	867	4.73	30.2	0.8	1.4	2.5	78.6	0.06	0.67	0.38	19	0.23	0.046
612922	Soil			0.96	57.50	97.14	131.7	426	42.1	45.3	3250	5.66	33.6	0.6	0.5	3.3	28.1	0.10	1.03	0.46	21	0.12	0.051
612923	Soil			1.08	66.07	101.0	157.3	396	58.4	50.7	884	5.97	67.5	0.7	1.4	3.6	61.4	0.12	0.74	0.50	26	0.95	0.057
612924	Soil			0.52	32.98	36.37	97.5	149	31.5	18.9	615	3.84	15.9	0.6	0.3	2.1	82.0	0.09	0.31	0.37	19	1.19	0.057
612925	Soil			0.42	35.24	26.38	85.5	175	27.7	13.1	624	3.26	20.7	1.2	0.8	1.9	116.7	0.14	0.39	0.31	21	1.30	0.055
612926	Soil			0.46	37.96	22.55	98.6	182	27.6	13.2	412	3.18	13.4	1.3	0.4	1.7	138.0	0.14	0.30	0.31	21	1.75	0.060
612927	Soil			0.34	32.70	19.87	86.7	160	27.5	11.4	275	3.06	13.7	1.0	0.3	2.1	93.3	0.09	0.30	0.28	19	1.25	0.048
612928	Soil			0.35	37.61	16.62	76.3	169	24.0	10.1	307	2.48	8.6	1.4	0.7	1.3	126.8	0.14	0.33	0.25	18	2.06	0.058
612929	Soil			0.44	32.73	20.32	91.4	146	27.5	11.4	275	3.15	10.3	1.2	0.9	2.8	73.3	0.11	0.32	0.28	22	0.99	0.053
612930	Soil			0.38	39.81	18.45	83.3	231	25.2	11.3	515	2.66	10.5	1.4	1.0	1.4	192.5	0.16	0.39	0.27	21	1.85	0.066
612931	Soil			0.36	16.95	15.66	80.8	138	14.9	6.7	244	1.87	3.4	0.7	0.2	1.1	159.8	0.11	0.23	0.20	14	2.36	0.064
612932	Soil			0.28	33.10	19.89	82.1	149	26.8	10.9	241	3.00	6.1	1.0	<0.2	2.0	113.2	0.08	0.27	0.28	18	1.37	0.046
612933	Soil			1.09	43.50	23.74	125.0	292	35.1	14.7	492	3.21	1579	1.9	15.2	1.4	70.5	0.51	4.85	0.31	33	1.11	0.057



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.10	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
612904	Soil	6.4	14.4	0.19	123.4	0.002	3	0.92	0.003	0.10	<0.1	4.1	0.09	0.04	39	0.2	0.08	2.2	4.11	<0.1	0.04
612905	Soil	15.4	16.9	0.21	133.1	0.002	2	0.99	0.004	0.07	<0.1	7.1	0.13	0.04	242	0.3	0.07	2.1	2.24	<0.1	0.05
612906	Soil	17.8	21.1	0.24	189.4	0.006	2	1.23	0.004	0.07	<0.1	3.8	0.16	0.06	328	0.4	0.05	2.9	1.93	<0.1	0.04
612907	Soil	14.6	30.1	0.36	131.5	0.009	1	1.51	0.005	0.08	<0.1	4.0	0.17	0.05	259	0.4	0.03	3.7	1.25	<0.1	0.05
612908	Soil	26.3	30.1	0.39	187.9	0.008	2	1.39	0.005	0.07	<0.1	3.3	0.11	0.06	367	0.7	0.03	3.3	0.69	<0.1	0.03
612909	Soil	14.6	18.5	0.21	111.9	0.004	3	0.89	0.004	0.07	<0.1	1.8	0.12	0.09	194	0.5	<0.02	2.0	0.63	<0.1	0.05
612910	Soil	10.0	22.2	0.36	175.6	0.004	1	1.18	0.002	0.06	<0.1	2.3	0.12	0.03	82	0.4	0.03	3.4	1.32	<0.1	0.02
612911	Soil	18.4	25.5	0.46	212.4	0.005	1	1.12	0.002	0.07	<0.1	2.2	0.10	0.02	25	0.2	<0.02	4.6	1.57	<0.1	<0.02
612912	Soil	19.0	29.9	1.79	82.4	0.002	2	0.36	0.006	0.06	<0.1	4.3	0.09	<0.02	157	1.1	<0.02	1.3	0.60	<0.1	0.05
612913	Soil	23.5	35.2	2.28	225.6	0.002	2	0.63	0.006	0.08	<0.1	5.2	0.11	0.02	224	1.3	<0.02	1.9	1.33	<0.1	0.06
612914	Soil	16.1	26.9	0.66	135.4	0.002	3	0.67	0.003	0.08	<0.1	6.4	0.13	0.04	101	1.3	<0.02	1.9	3.14	<0.1	0.08
612915	Soil	9.5	18.7	0.67	80.6	0.002	3	0.29	0.004	0.08	<0.1	6.1	0.36	0.05	232	1.6	<0.02	1.0	0.77	<0.1	0.05
612916	Soil	5.6	31.1	0.86	40.2	0.003	2	0.97	0.001	0.07	<0.1	6.4	0.09	0.07	57	0.2	<0.02	3.3	2.51	<0.1	0.05
612917	Soil	7.0	22.3	0.75	49.5	0.002	2	0.69	0.003	0.07	<0.1	7.9	0.10	0.03	258	0.3	<0.02	2.2	2.60	<0.1	0.05
612918	Soil	4.8	24.5	0.71	55.0	0.002	2	1.02	0.001	0.07	<0.1	5.7	0.07	0.03	65	0.2	<0.02	3.3	2.92	<0.1	0.07
612919	Soil	5.1	19.8	0.58	43.7	0.001	2	0.87	0.002	0.07	<0.1	6.7	0.08	0.04	81	0.2	<0.02	2.3	2.23	<0.1	0.06
612920	Soil	6.0	20.7	0.47	53.4	0.001	3	0.84	0.002	0.08	<0.1	6.0	0.07	0.05	101	0.3	0.02	2.3	1.73	<0.1	0.09
612921	Soil	3.3	15.1	0.27	71.9	0.001	2	0.58	0.002	0.09	<0.1	4.5	0.12	<0.02	168	0.3	0.04	1.7	3.82	<0.1	0.03
612922	Soil	5.2	24.5	0.50	99.4	0.002	4	1.60	0.002	0.09	<0.1	7.2	0.18	0.03	292	0.4	0.06	3.9	8.87	<0.1	0.04
612923	Soil	5.9	27.8	0.64	95.2	0.002	5	1.90	0.003	0.09	<0.1	9.7	0.15	0.05	97	0.6	0.13	5.1	7.69	<0.1	0.07
612924	Soil	5.2	23.1	0.42	120.5	0.002	4	1.44	0.003	0.08	<0.1	5.8	0.08	0.06	74	0.3	0.05	4.2	4.10	<0.1	0.05
612925	Soil	7.8	22.4	0.41	136.5	0.003	3	1.36	0.003	0.07	<0.1	5.8	0.09	0.05	113	0.5	0.05	4.1	1.65	<0.1	0.03
612926	Soil	6.5	21.5	0.44	120.4	0.003	5	1.41	0.005	0.09	<0.1	5.3	0.10	0.08	122	0.5	0.05	4.4	1.89	<0.1	0.04
612927	Soil	6.3	20.5	0.45	96.8	0.002	4	1.36	0.003	0.08	<0.1	5.2	0.08	0.06	119	0.4	0.02	3.9	1.70	<0.1	0.06
612928	Soil	5.4	19.0	0.40	109.9	0.002	5	1.26	0.005	0.08	0.2	4.0	0.08	0.09	122	0.4	<0.02	3.6	1.35	<0.1	0.07
612929	Soil	7.4	26.7	0.49	101.6	0.004	4	1.49	0.003	0.11	<0.1	4.7	0.09	0.04	118	0.4	0.03	4.7	1.83	<0.1	0.05
612930	Soil	6.8	19.5	0.42	119.5	0.003	7	1.33	0.004	0.09	<0.1	4.7	0.12	0.09	158	0.6	0.04	3.6	2.09	<0.1	0.04
612931	Soil	4.5	15.0	0.31	74.1	0.004	6	0.90	0.005	0.06	0.2	2.8	0.07	0.10	122	0.6	<0.02	2.7	1.31	<0.1	0.06
612932	Soil	5.2	21.6	0.47	94.9	0.003	5	1.43	0.004	0.07	<0.1	5.0	0.07	0.06	81	0.4	<0.02	4.2	1.77	<0.1	0.06
612933	Soil	9.0	24.6	0.31	107.2	0.002	3	0.56	0.003	0.07	<0.1	5.0	0.59	0.04	979	1.3	<0.02	1.6	0.45	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 3 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
612904	Soil			0.13	16.0	0.9	<0.05	0.9	9.23	21.9	0.05	<1	1.0	9.1	<10	<2
612905	Soil			0.26	9.4	0.9	<0.05	1.4	22.22	35.4	0.04	<1	1.1	11.8	<10	<2
612906	Soil			0.39	11.1	0.9	<0.05	0.9	22.27	35.4	0.04	<1	1.0	10.4	<10	<2
612907	Soil			0.59	11.2	0.8	<0.05	1.0	11.76	38.7	0.04	<1	1.1	14.3	<10	<2
612908	Soil			0.50	8.3	0.6	<0.05	1.2	15.89	51.8	0.03	<1	1.2	13.7	<10	<2
612909	Soil			0.36	13.8	0.8	<0.05	1.7	7.76	29.7	0.03	1	0.8	16.5	<10	<2
612910	Soil			0.37	9.5	0.5	<0.05	0.6	5.74	26.5	0.04	<1	0.8	18.9	<10	<2
612911	Soil			0.35	10.0	2.6	<0.05	0.4	6.36	38.5	0.03	<1	0.4	27.3	<10	<2
612912	Soil			0.07	3.6	2.4	<0.05	2.5	11.57	38.6	0.03	1	0.7	6.4	<10	<2
612913	Soil			0.07	5.1	10.6	<0.05	3.7	12.95	46.4	0.03	<1	1.0	18.9	<10	<2
612914	Soil			0.10	6.7	0.9	<0.05	2.2	13.33	35.8	0.04	<1	0.9	14.2	<10	<2
612915	Soil			0.07	3.9	1.7	<0.05	2.1	11.73	21.8	0.03	2	0.7	2.7	<10	<2
612916	Soil			0.10	5.2	1.3	<0.05	2.3	8.70	12.0	0.03	<1	1.4	34.7	<10	<2
612917	Soil			0.09	5.2	3.5	<0.05	2.2	12.39	15.4	0.05	<1	1.1	23.3	<10	<2
612918	Soil			0.17	6.7	1.0	<0.05	2.5	6.36	11.0	0.03	<1	0.9	33.2	<10	<2
612919	Soil			0.11	5.3	1.5	<0.05	2.3	9.65	12.0	0.03	<1	1.1	25.4	<10	<2
612920	Soil			0.12	5.8	1.3	<0.05	2.7	11.94	11.8	0.04	1	1.2	24.5	<10	<2
612921	Soil			0.05	6.4	8.3	<0.05	1.2	8.87	7.3	0.04	<1	1.1	14.8	<10	<2
612922	Soil			0.08	8.7	3.5	<0.05	1.6	16.45	15.0	0.05	<1	1.7	53.9	<10	<2
612923	Soil			0.21	9.0	12.1	<0.05	2.6	22.62	19.8	0.06	<1	1.5	67.9	<10	8
612924	Soil			0.29	8.5	1.4	<0.05	1.4	12.17	17.6	0.05	<1	1.1	46.2	<10	<2
612925	Soil			0.36	7.5	1.7	<0.05	1.4	14.48	23.3	0.04	<1	1.1	42.9	<10	<2
612926	Soil			0.40	8.8	0.7	<0.05	1.7	12.16	17.2	0.04	<1	1.1	44.7	<10	<2
612927	Soil			0.32	7.8	0.6	<0.05	1.7	11.78	14.2	0.03	<1	1.1	43.0	<10	<2
612928	Soil			0.36	8.4	0.5	<0.05	2.1	9.34	11.9	0.03	<1	1.0	35.4	<10	<2
612929	Soil			0.41	8.9	1.0	<0.05	2.1	10.52	15.5	0.04	1	0.9	45.8	<10	<2
612930	Soil			0.42	11.0	0.5	<0.05	1.8	11.95	15.6	0.03	<1	0.9	39.9	<10	<2
612931	Soil			0.30	7.3	1.8	<0.05	2.6	8.14	11.7	0.02	<1	0.7	27.5	<10	<2
612932	Soil			0.32	7.3	0.4	<0.05	2.0	11.92	11.9	0.04	<1	1.0	51.7	<10	<2
612933	Soil			0.15	4.5	1.6	<0.05	1.4	12.53	21.2	0.04	<1	1.0	5.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612934	Soil	0.84	20.05	17.23	62.4	193	19.0	8.8	416	3.01	20.3	4.6	2.4	1.4	105.8	0.22	0.68	0.22	29	1.20	0.064
612935	Soil	0.52	18.77	11.06	57.3	25	19.9	7.0	197	2.83	14.8	0.8	0.8	1.1	17.0	0.05	0.60	0.21	34	0.11	0.029
612936	Soil	0.50	29.96	16.12	77.1	24	26.1	11.2	272	3.21	32.5	0.8	1.0	1.9	34.6	0.07	1.27	0.27	20	0.03	0.039
612937	Soil	0.63	32.79	18.69	83.7	74	31.3	12.1	374	3.70	28.0	0.9	0.9	1.3	16.8	0.21	1.10	0.28	23	0.05	0.049
612938	Soil	0.82	27.09	14.25	83.8	63	23.6	9.6	258	3.41	25.3	0.8	0.5	0.9	23.4	0.13	1.05	0.27	24	0.20	0.077
612939	Soil	0.57	25.87	21.45	84.4	62	22.7	9.8	258	3.06	21.1	2.1	<0.2	2.1	72.5	0.19	0.78	0.31	22	0.95	0.107
612940	Soil	0.42	22.29	29.59	69.4	64	22.9	14.3	1762	3.77	14.5	2.7	<0.2	2.2	85.6	0.21	0.37	0.32	20	1.16	0.110
612941	Soil	0.74	29.89	20.60	84.9	149	23.9	10.6	806	3.49	19.9	2.3	0.2	1.2	69.4	0.34	0.69	0.30	32	0.96	0.129
612942	Soil	0.69	24.18	27.05	85.2	50	24.3	15.6	1420	4.15	29.4	0.9	<0.2	1.8	26.5	0.20	0.45	0.32	23	0.32	0.081
612943	Soil	0.65	26.20	27.60	73.6	120	28.9	15.2	1230	3.97	66.9	1.7	0.4	3.4	51.3	0.18	0.50	0.32	22	0.67	0.071
612944	Soil	0.90	44.28	26.23	111.8	147	27.1	14.5	868	3.80	515.3	2.0	<0.2	1.2	36.7	0.44	0.87	0.35	28	0.41	0.081
612945	Soil	1.01	23.60	16.97	70.4	65	18.6	9.1	283	3.24	72.9	0.8	<0.2	0.8	44.6	0.13	2.48	0.24	28	0.48	0.064
612946	Soil	1.12	27.40	24.50	91.5	131	16.7	9.3	337	4.09	22.6	0.5	3.2	0.8	14.7	0.15	0.81	0.49	36	0.03	0.067
612947	Soil	1.22	29.05	24.31	122.1	65	18.5	9.9	579	4.81	20.8	0.3	0.8	0.7	18.4	0.30	0.87	0.50	35	0.09	0.069
612948	Soil	0.67	23.04	21.51	63.1	132	17.1	8.4	631	2.72	10.6	0.8	0.9	1.7	25.4	0.10	0.43	0.36	32	0.15	0.047
612949	Soil	2.25	77.58	28.98	86.5	235	33.0	15.4	379	2.65	115.0	2.8	21.4	6.2	81.2	0.55	4.16	0.49	13	3.47	0.076
612950	Soil	0.84	63.24	31.64	123.2	125	36.3	18.1	242	3.11	85.3	1.2	7.0	2.4	105.3	0.12	2.90	0.56	11	1.40	0.067
612601	Soil	0.72	37.86	33.60	103.4	114	30.4	15.7	828	4.36	17.8	1.6	0.7	2.1	79.6	0.17	0.57	0.45	27	0.84	0.082
612602	Soil	1.08	26.78	31.70	132.9	92	18.0	13.3	626	5.63	15.5	0.5	<0.2	0.6	11.3	0.31	0.84	0.50	41	0.04	0.087
612603	Soil	0.87	23.56	24.49	71.4	66	22.6	9.7	282	4.16	20.0	0.6	1.7	2.6	9.0	0.10	0.64	0.38	34	0.04	0.042
612604	Soil	0.96	32.94	23.49	131.7	295	16.2	13.9	1275	4.70	13.8	0.9	<0.2	0.3	16.6	0.56	0.59	0.53	48	0.07	0.114
612605	Soil	0.92	35.46	38.17	149.2	113	23.8	27.2	2376	5.46	13.8	0.6	<0.2	1.2	12.4	0.68	0.53	0.55	40	0.07	0.102
612606	Soil	0.97	41.61	31.15	78.4	157	30.2	15.4	914	4.01	18.0	4.2	4.3	2.0	63.0	0.17	0.74	0.41	29	0.49	0.097
612607	Soil	0.75	31.94	26.18	80.9	88	22.6	11.9	571	4.71	18.1	0.8	2.8	1.3	18.7	0.18	0.89	0.47	24	0.15	0.102
612608	Soil	0.64	43.68	28.81	89.1	133	33.4	17.3	683	3.73	14.0	2.9	1.9	3.6	61.5	0.26	0.47	0.44	20	0.87	0.121
612609	Soil	0.51	32.35	25.75	77.9	71	27.4	12.5	412	3.21	14.2	1.9	0.5	4.1	44.8	0.12	0.45	0.44	21	0.58	0.062
612610	Soil	0.71	29.83	27.40	69.7	168	30.1	14.2	1396	3.81	25.0	2.9	2.3	3.0	59.6	0.20	0.75	0.36	20	0.71	0.086
612611	Soil	0.67	23.30	19.25	80.0	97	22.8	8.9	237	3.32	21.4	2.3	1.3	2.0	39.3	0.19	0.87	0.34	36	0.39	0.080
612612	Soil	0.47	29.97	21.41	258.1	128	18.3	7.2	517	2.31	76.8	6.5	0.4	1.3	62.2	3.07	1.58	0.25	27	1.25	0.106
612613	Soil	0.57	34.51	22.29	76.3	333	28.8	11.9	359	3.08	82.3	6.6	12.5	3.3	44.8	0.44	2.87	0.25	20	0.32	0.085



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 12, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	Unit	MDL	1F15 La	1F15 Cr	1F15 Mg	1F15 Ba	1F15 Ti	1F15 B	1F15 Al	1F15 Na	1F15 K	1F15 W	1F15 Sc	1F15 Ti	1F15 S	1F15 Hg	1F15 Se	1F15 Te	1F15 Ga	1F15 Cs	1F15 Ge	1F15 Hf
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
612934	Soil			19.4	17.7	0.26	165.8	0.005	1	1.16	0.003	0.06	0.1	3.4	0.12	0.05	129	0.7	0.02	2.7	0.87	<0.1	0.03
612935	Soil			10.8	25.3	0.40	105.7	0.009	1	1.72	0.002	0.05	0.1	2.1	0.15	<0.02	64	0.3	0.04	4.5	1.54	<0.1	<0.02
612936	Soil			11.6	18.8	0.16	72.5	0.001	<1	0.84	<0.001	0.05	<0.1	2.0	0.12	<0.02	195	0.5	0.03	2.3	1.41	<0.1	<0.02
612937	Soil			8.4	23.1	0.26	93.8	0.002	1	1.19	0.001	0.07	<0.1	2.0	0.14	0.02	85	0.5	<0.02	3.1	1.43	<0.1	0.02
612938	Soil			7.8	20.5	0.26	106.6	0.002	1	1.04	0.002	0.07	<0.1	1.6	0.12	0.03	54	0.5	0.02	3.0	1.45	<0.1	<0.02
612939	Soil			13.3	21.4	0.37	111.7	0.004	2	1.37	0.003	0.08	<0.1	6.9	0.10	0.07	59	0.3	0.04	3.2	2.21	<0.1	0.06
612940	Soil			21.2	19.7	0.46	111.3	0.003	2	1.66	0.002	0.06	<0.1	5.4	0.07	0.07	43	0.2	0.05	3.9	1.61	0.1	<0.02
612941	Soil			15.9	22.8	0.29	260.6	0.006	1	1.56	0.003	0.06	<0.1	3.7	0.10	0.07	61	0.3	0.05	3.9	1.86	<0.1	0.03
612942	Soil			8.0	19.7	0.42	87.2	0.004	2	1.53	0.002	0.09	<0.1	3.2	0.07	0.05	36	0.2	0.07	3.7	2.24	<0.1	0.04
612943	Soil			18.7	19.6	0.36	183.1	0.004	3	1.31	0.003	0.08	<0.1	8.8	0.10	0.05	69	0.2	0.05	2.8	2.46	<0.1	0.04
612944	Soil			12.5	19.8	0.27	103.0	0.008	1	1.18	0.003	0.09	<0.1	6.2	0.15	0.04	60	0.3	0.08	3.1	2.42	<0.1	<0.02
612945	Soil			6.0	18.0	0.20	126.8	0.003	3	1.02	0.003	0.06	<0.1	1.7	0.14	0.03	131	0.4	0.05	3.3	1.46	<0.1	<0.02
612946	Soil			6.5	17.5	0.18	64.9	0.010	2	0.82	0.001	0.07	<0.1	2.1	0.09	0.02	33	0.1	0.06	4.6	1.65	<0.1	<0.02
612947	Soil			3.9	26.5	0.22	81.7	0.009	2	0.92	0.002	0.09	<0.1	1.9	0.08	<0.02	50	0.2	0.05	5.1	3.10	<0.1	<0.02
612948	Soil			15.6	20.4	0.29	138.4	0.004	2	1.29	0.002	0.06	<0.1	2.4	0.11	<0.02	22	0.1	0.03	4.5	2.69	<0.1	<0.02
612949	Soil			9.4	6.1	1.58	48.5	<0.001	3	0.23	0.005	0.06	<0.1	6.4	0.16	0.04	481	1.0	0.06	0.8	0.65	<0.1	0.06
612950	Soil			6.5	10.0	0.20	90.8	<0.001	4	0.40	0.003	0.07	<0.1	7.0	0.59	0.03	188	0.4	0.08	1.0	1.60	<0.1	0.08
612601	Soil			7.5	26.8	0.38	114.1	0.005	3	1.50	0.003	0.08	<0.1	4.4	0.11	0.05	53	0.5	0.06	4.2	2.94	<0.1	0.03
612602	Soil			6.5	30.1	0.27	80.1	0.010	2	1.33	0.001	0.08	<0.1	1.3	0.11	0.04	35	0.4	0.04	5.9	4.93	<0.1	<0.02
612603	Soil			8.3	24.7	0.33	65.1	0.003	1	1.80	<0.001	0.05	<0.1	2.3	0.12	<0.02	27	0.2	0.02	4.4	1.75	<0.1	0.02
612604	Soil			8.9	27.2	0.18	141.0	0.008	2	1.38	0.001	0.09	<0.1	1.0	0.12	0.07	38	0.3	0.05	6.6	2.33	<0.1	<0.02
612605	Soil			4.9	28.1	0.33	126.4	0.007	2	1.73	<0.001	0.12	<0.1	2.4	0.11	0.04	31	0.2	0.05	6.9	3.90	<0.1	<0.02
612606	Soil			14.0	28.0	0.44	125.9	0.010	3	1.63	0.003	0.09	<0.1	5.5	0.11	0.06	57	0.4	0.05	4.3	3.65	<0.1	0.03
612607	Soil			5.3	22.4	0.30	96.0	0.004	2	1.33	0.001	0.09	<0.1	2.7	0.03	0.05	32	0.2	0.05	3.6	2.92	<0.1	<0.02
612608	Soil			30.0	20.0	0.18	90.7	0.003	3	1.02	0.003	0.07	<0.1	10.1	0.15	0.07	73	0.3	0.06	2.3	5.44	0.1	0.05
612609	Soil			14.3	21.8	0.31	79.4	0.004	3	1.14	0.002	0.07	<0.1	7.8	0.11	0.03	586	0.2	0.08	3.0	2.81	0.1	0.04
612610	Soil			36.0	20.5	0.15	185.2	0.003	3	1.03	0.002	0.05	<0.1	6.9	0.13	0.05	259	0.2	0.02	2.0	2.06	0.1	0.02
612611	Soil			14.8	26.0	0.30	152.3	0.005	1	1.71	0.002	0.06	0.1	3.5	0.15	0.04	83	0.2	0.03	4.0	1.82	<0.1	0.03
612612	Soil			21.0	13.8	0.17	125.5	0.004	2	0.66	0.002	0.04	<0.1	2.7	0.08	0.06	162	0.3	<0.02	1.8	0.60	<0.1	0.04
612613	Soil			21.5	24.7	0.16	109.8	0.002	2	1.59	<0.001	0.06	<0.1	6.4	0.22	0.05	598	0.7	0.04	1.9	1.59	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 4 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
612934	Soil	0.45	6.1	0.4	<0.05	1.1	11.26	39.3	0.03	<1	1.1	11.0	<10	<2
612935	Soil	0.47	10.2	0.5	<0.05	0.4	5.33	22.3	0.03	<1	0.7	21.2	<10	<2
612936	Soil	0.15	9.5	0.5	<0.05	0.6	3.65	25.3	0.03	<1	0.5	9.9	<10	<2
612937	Soil	0.19	9.9	0.7	<0.05	0.5	3.47	20.5	0.03	<1	0.8	16.5	<10	<2
612938	Soil	0.21	10.7	0.6	<0.05	0.5	3.70	18.8	0.03	<1	0.9	15.0	<10	<2
612939	Soil	0.29	12.2	1.4	<0.05	1.3	15.50	29.3	0.04	1	1.1	25.4	<10	<2
612940	Soil	0.19	9.0	0.7	<0.05	0.9	26.88	73.7	0.04	<1	1.4	40.8	<10	<2
612941	Soil	0.42	10.8	0.7	<0.05	0.9	21.94	26.3	0.03	<1	1.4	14.7	<10	<2
612942	Soil	0.21	9.8	1.5	<0.05	0.8	10.51	40.2	0.04	1	0.9	37.3	<10	<2
612943	Soil	0.24	8.9	1.6	<0.05	1.2	28.48	57.9	0.04	<1	1.4	23.9	<10	<2
612944	Soil	0.36	13.2	2.4	<0.05	0.5	26.23	21.7	0.04	<1	1.0	13.6	<10	<2
612945	Soil	0.27	11.3	0.6	<0.05	0.5	3.79	16.8	0.03	<1	0.6	12.9	<10	<2
612946	Soil	0.39	12.5	3.8	<0.05	<0.1	3.46	11.5	0.05	1	0.4	8.9	<10	<2
612947	Soil	0.42	15.6	2.6	<0.05	0.1	1.94	6.9	0.05	<1	0.4	14.2	<10	<2
612948	Soil	0.41	15.1	1.6	<0.05	0.3	15.24	30.1	0.04	1	0.8	25.2	<10	<2
612949	Soil	0.05	3.4	1.6	<0.05	3.4	14.56	20.0	0.05	1	0.8	2.9	<10	<2
612950	Soil	0.04	5.5	2.0	<0.05	2.0	13.97	13.6	0.05	<1	0.9	3.4	<10	<2
612601	Soil	0.43	14.4	2.1	<0.05	0.8	12.41	19.1	0.05	<1	1.1	48.5	<10	<2
612602	Soil	0.53	14.7	1.1	<0.05	0.1	2.41	11.7	0.05	<1	0.7	23.6	<10	<2
612603	Soil	0.48	9.5	1.5	<0.05	0.6	3.22	15.7	0.03	2	0.7	50.0	<10	<2
612604	Soil	0.34	16.3	1.4	<0.05	<0.1	8.45	17.6	0.03	<1	1.0	15.5	<10	<2
612605	Soil	0.40	18.7	1.7	<0.05	0.3	3.23	10.2	0.05	<1	1.1	31.7	<10	<2
612606	Soil	0.44	14.7	1.1	<0.05	0.6	25.64	27.5	0.05	<1	1.1	55.0	<10	<2
612607	Soil	0.31	11.6	2.0	<0.05	0.4	5.79	18.9	0.06	<1	1.0	25.7	<10	<2
612608	Soil	0.20	9.7	1.4	<0.05	1.1	43.92	71.4	0.06	<1	1.3	13.0	<10	<2
612609	Soil	0.24	10.5	1.8	<0.05	1.4	21.65	39.1	0.06	<1	1.2	18.6	<10	<2
612610	Soil	0.15	9.0	0.8	<0.05	0.9	33.24	60.3	0.04	<1	1.5	7.5	<10	<2
612611	Soil	0.47	11.5	0.9	<0.05	0.9	10.21	37.5	0.05	<1	1.0	17.1	<10	<2
612612	Soil	0.20	8.6	0.6	<0.05	1.1	18.87	29.9	0.03	<1	0.9	5.6	<10	<2
612613	Soil	0.20	9.4	0.9	<0.05	1.3	20.01	70.6	0.04	<1	1.5	11.8	<10	<2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Report Date: September 12, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612614	Soil	0.63	17.89	15.35	80.3	91	14.9	8.3	679	2.60	10.5	2.1	<0.2	1.4	49.9	0.33	0.39	0.27	38	0.69	0.103
612615	Soil	0.87	39.72	19.26	87.0	84	29.5	11.3	398	3.09	22.6	2.6	1.9	3.9	39.7	0.20	0.94	0.32	35	0.48	0.065
612616	Soil	0.67	42.75	19.56	119.5	154	32.9	12.4	336	2.86	39.9	2.4	4.3	3.5	69.4	0.33	1.12	0.28	22	1.22	0.079
612617	Soil	0.52	54.26	31.45	117.0	70	53.4	16.9	547	4.13	15.9	0.8	3.5	4.7	49.9	0.13	0.73	0.48	20	0.19	0.048
612618	Soil	0.51	49.02	22.61	112.4	70	49.2	13.6	258	3.47	15.5	1.0	3.4	3.6	48.3	0.14	0.42	0.44	17	0.65	0.053
612619	Soil	0.63	54.43	21.24	134.7	96	38.6	14.8	363	3.18	1009	1.1	5.6	3.1	91.5	0.23	1.49	0.31	13	2.00	0.101
612620	Soil	0.50	40.90	20.79	112.5	68	30.8	11.5	256	3.47	120.9	0.8	2.3	3.5	66.6	0.20	0.80	0.32	16	0.78	0.066
612621	Soil	0.47	55.00	31.28	108.9	66	32.7	15.4	430	3.28	33.8	1.0	3.5	2.8	68.9	0.12	1.67	0.57	13	0.49	0.043
612622	Soil	0.56	49.59	40.03	80.2	89	28.6	18.8	930	3.87	15.1	2.0	0.6	2.6	97.2	0.20	0.81	0.51	17	1.54	0.102
612623	Soil	0.55	54.42	43.12	106.2	237	38.6	18.7	365	3.91	22.4	0.8	1.6	3.5	84.6	0.08	0.60	0.48	16	0.94	0.054
612624	Soil	0.61	44.95	54.08	119.0	198	42.4	22.9	477	4.84	23.0	0.9	0.7	4.4	84.8	0.10	0.44	0.52	22	1.10	0.053
612625	Soil	0.45	44.35	33.84	102.6	226	35.0	16.1	453	3.69	19.3	1.1	1.2	4.0	86.7	0.10	0.33	0.43	20	1.29	0.059
612626	Soil	0.45	50.79	20.34	84.4	195	31.7	12.6	258	3.08	23.3	1.0	0.8	3.0	87.1	0.10	0.37	0.36	21	1.36	0.056
612627	Soil	0.41	39.97	31.20	107.4	175	35.2	15.1	281	3.78	20.3	0.9	1.2	4.2	93.8	0.12	0.35	0.39	19	1.45	0.061
612628	Soil	0.34	36.54	24.39	81.6	151	27.5	12.3	465	2.98	16.1	1.1	0.4	3.1	99.1	0.12	0.27	0.36	19	1.31	0.062
612629	Soil	0.33	37.66	23.55	80.2	152	25.1	12.3	359	2.64	16.9	1.3	1.0	2.6	163.8	0.10	0.51	0.32	17	1.55	0.056
612630	Soil	0.35	39.20	22.87	91.4	160	27.0	12.8	333	2.74	14.4	1.5	1.2	2.7	100.0	0.07	0.34	0.35	19	1.07	0.048
612631	Soil	0.36	47.79	22.46	94.8	172	27.9	12.8	432	2.67	13.5	1.5	1.2	2.2	106.8	0.16	0.39	0.34	19	1.41	0.056
612632	Soil	0.33	30.37	19.43	90.4	147	25.3	11.7	373	2.83	13.2	1.1	3.0	1.5	94.4	0.14	0.35	0.29	18	1.30	0.055
612633	Soil	0.35	30.96	18.59	98.1	156	24.6	11.3	366	2.73	11.9	1.2	1.7	1.7	163.2	0.12	0.39	0.28	18	1.26	0.056
612634	Soil	0.38	26.37	20.16	90.5	189	24.0	11.2	421	2.64	11.1	0.9	1.2	1.5	192.8	0.16	0.33	0.25	16	1.53	0.058
612635	Soil	0.32	32.07	22.92	95.7	199	26.4	12.6	455	2.91	11.5	0.9	1.0	1.8	133.1	0.14	0.39	0.28	17	1.53	0.055
612551	Soil	0.76	23.59	24.16	59.3	50	21.1	11.1	708	3.57	29.2	0.4	0.5	1.1	12.4	0.09	0.78	0.35	28	0.10	0.062
612552	Soil	0.70	22.08	16.87	57.7	39	17.1	7.0	288	2.70	26.0	0.4	1.1	0.8	8.8	0.07	0.69	0.26	26	0.05	0.058
612553	Soil	0.55	34.55	22.27	82.4	52	27.5	12.3	246	3.47	12.3	0.4	0.7	1.6	11.0	0.08	1.79	0.33	18	0.05	0.053
612554	Soil	0.45	43.06	22.51	99.2	138	30.4	14.0	399	4.18	38.9	0.5	1.7	1.9	17.7	0.11	1.40	0.40	14	0.05	0.043
612555	Soil	1.19	22.73	33.39	66.2	75	21.8	10.4	356	2.82	320.3	0.4	220.6	2.0	18.4	0.11	1.41	0.28	13	0.18	0.031
612556	Soil	1.03	21.07	48.23	68.7	153	23.5	9.1	614	2.64	179.2	0.6	93.6	1.1	39.8	0.35	0.74	0.25	17	0.49	0.085
612557	Soil	0.58	24.72	32.47	73.5	252	26.0	12.3	489	3.88	18.3	1.3	11.4	2.5	134.6	0.14	0.37	0.33	14	1.36	0.101
612558	Soil	0.65	34.91	32.34	82.7	237	33.4	14.9	460	4.03	11.7	0.8	2.8	2.4	76.1	0.10	0.33	0.25	16	1.25	0.066

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 12, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
612614	Soil	19.9	27.2	0.24	219.5	0.005	1	1.29	0.002	0.05	<0.1	2.7	0.18	0.05	42	0.4	<0.02	4.1	2.95	<0.1	0.02
612615	Soil	21.9	32.0	0.64	192.4	0.007	2	1.32	0.002	0.07	0.1	5.0	0.16	0.03	117	0.9	0.02	4.2	1.78	<0.1	0.05
612616	Soil	16.2	29.4	0.45	205.0	0.003	6	0.66	0.003	0.10	<0.1	6.7	0.20	0.08	255	1.7	<0.02	2.2	3.40	<0.1	0.07
612617	Soil	8.5	32.7	0.69	39.9	0.004	2	1.14	<0.001	0.07	<0.1	9.2	0.11	0.03	132	0.2	<0.02	3.2	4.74	<0.1	0.04
612618	Soil	7.0	27.3	0.54	48.6	0.002	3	0.80	0.002	0.08	<0.1	7.6	0.10	0.04	153	0.4	0.02	2.5	2.00	<0.1	0.08
612619	Soil	9.3	15.5	0.68	60.4	0.002	4	0.33	0.005	0.06	<0.1	7.4	3.61	0.08	1126	1.3	<0.02	1.0	1.94	<0.1	0.07
612620	Soil	10.8	18.8	0.20	55.1	0.001	3	0.36	0.002	0.07	<0.1	8.1	0.26	0.05	256	0.9	0.03	1.2	1.22	<0.1	0.04
612621	Soil	7.9	11.4	0.17	105.0	0.001	3	0.59	0.002	0.08	<0.1	8.8	0.12	0.03	96	0.2	0.06	1.3	1.88	<0.1	0.05
612622	Soil	18.3	18.9	0.32	196.1	0.003	4	1.20	0.003	0.08	<0.1	12.1	0.10	0.08	107	0.2	0.05	2.8	2.69	<0.1	0.04
612623	Soil	7.0	20.0	0.32	80.7	0.002	5	1.11	0.003	0.08	<0.1	6.3	0.10	0.05	528	0.4	0.08	3.3	4.34	<0.1	0.05
612624	Soil	7.7	27.9	0.45	104.1	0.003	4	1.58	0.003	0.07	<0.1	7.6	0.11	0.04	81	0.3	0.08	4.9	4.23	<0.1	0.04
612625	Soil	9.2	25.8	0.44	101.6	0.003	4	1.46	0.003	0.09	<0.1	7.5	0.11	0.05	99	0.3	0.05	4.4	3.73	<0.1	0.06
612626	Soil	7.9	26.6	0.45	110.3	0.004	5	1.43	0.003	0.09	<0.1	6.1	0.10	0.05	130	0.5	0.05	4.2	2.93	<0.1	0.04
612627	Soil	8.7	24.2	0.46	94.3	0.004	5	1.31	0.003	0.08	<0.1	7.2	0.11	0.05	116	0.4	0.02	4.1	3.32	<0.1	0.07
612628	Soil	9.1	24.1	0.43	105.0	0.004	5	1.31	0.003	0.08	<0.1	6.6	0.09	0.05	86	0.3	0.02	4.1	2.24	<0.1	0.05
612629	Soil	6.4	19.4	0.41	90.5	0.003	7	1.10	0.003	0.08	<0.1	5.9	0.09	0.07	96	0.4	<0.02	3.5	2.18	<0.1	0.04
612630	Soil	6.5	21.4	0.43	85.3	0.003	5	1.33	0.002	0.09	<0.1	5.7	0.09	0.04	122	0.3	0.02	4.0	2.62	<0.1	0.03
612631	Soil	7.1	20.3	0.37	94.5	0.003	5	1.24	0.003	0.08	<0.1	5.3	0.09	0.07	144	0.5	0.04	3.6	1.84	<0.1	0.04
612632	Soil	5.2	20.8	0.42	91.0	0.002	5	1.32	0.002	0.07	<0.1	4.2	0.09	0.06	111	0.4	0.04	4.0	1.76	<0.1	0.06
612633	Soil	6.0	22.0	0.45	105.6	0.002	6	1.29	0.002	0.08	<0.1	4.2	0.10	0.06	123	0.6	<0.02	4.0	1.86	<0.1	0.05
612634	Soil	5.5	20.7	0.44	97.7	0.002	7	1.18	0.002	0.08	<0.1	4.1	0.10	0.07	122	0.5	0.03	3.4	2.09	<0.1	0.05
612635	Soil	5.8	19.6	0.41	100.7	0.002	5	1.26	0.002	0.07	<0.1	4.8	0.10	0.06	140	0.5	0.05	3.5	1.97	<0.1	0.05
612551	Soil	5.1	17.9	0.09	127.7	0.002	2	1.25	<0.001	0.05	<0.1	1.7	0.19	0.03	68	0.2	0.04	3.9	2.69	<0.1	<0.02
612552	Soil	4.7	15.3	0.11	65.2	0.002	2	0.95	<0.001	0.05	<0.1	1.2	0.13	0.03	51	0.3	0.03	3.4	3.84	<0.1	<0.02
612553	Soil	4.0	15.4	0.08	52.4	<0.001	3	0.48	0.002	0.06	<0.1	2.5	0.11	0.03	81	0.2	0.04	2.1	7.61	<0.1	<0.02
612554	Soil	6.4	10.8	0.06	40.6	<0.001	2	0.34	0.001	0.08	<0.1	3.5	0.07	0.02	67	0.2	0.04	1.3	1.19	<0.1	<0.02
612555	Soil	5.9	10.2	0.08	70.7	0.002	2	0.42	0.002	0.06	<0.1	2.4	0.06	<0.02	65	0.2	0.04	1.6	2.29	<0.1	<0.02
612556	Soil	6.6	15.8	0.18	174.7	0.002	3	1.10	0.003	0.08	<0.1	2.4	0.12	0.05	113	0.4	0.02	2.9	3.93	<0.1	0.03
612557	Soil	9.4	18.7	0.26	140.2	0.002	4	1.13	0.002	0.06	<0.1	6.6	0.10	0.09	115	0.5	0.05	2.8	2.29	<0.1	0.05
612558	Soil	6.2	21.5	0.32	745.9	0.002	4	1.15	0.002	0.07	<0.1	8.0	0.10	0.08	145	0.4	0.05	3.6	3.68	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 5 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
612614	Soil	0.32	12.8	0.9	<0.05	0.8	9.19	33.5	0.04	<1	0.7	11.5	<10	<2
612615	Soil	0.41	9.3	1.1	<0.05	1.7	10.52	38.1	0.04	<1	0.8	27.9	<10	<2
612616	Soil	0.20	9.2	1.4	<0.05	2.8	13.52	27.8	0.03	<1	0.9	12.8	<10	<2
612617	Soil	0.15	7.3	2.8	<0.05	1.6	12.69	17.0	0.05	<1	1.3	35.3	<10	<2
612618	Soil	0.14	6.2	2.0	<0.05	2.7	11.12	11.1	0.05	<1	1.2	22.4	<10	<2
612619	Soil	0.11	5.2	1.0	<0.05	2.4	13.75	19.2	0.05	<1	0.7	3.6	<10	<2
612620	Soil	0.08	5.1	1.2	<0.05	1.7	15.02	21.8	0.06	<1	0.6	3.7	<10	<2
612621	Soil	0.09	5.9	1.0	<0.05	1.5	22.60	14.3	0.06	<1	1.1	7.5	<10	<2
612622	Soil	0.17	8.4	2.3	<0.05	0.8	41.28	34.9	0.07	<1	1.6	30.9	<10	<2
612623	Soil	0.21	7.5	2.2	<0.05	1.8	15.59	14.8	0.04	<1	1.3	40.7	<10	<2
612624	Soil	0.30	10.2	1.5	<0.05	1.3	12.39	26.6	0.06	<1	1.2	52.1	<10	<2
612625	Soil	0.29	10.3	1.3	<0.05	1.7	16.34	21.8	0.05	<1	1.3	44.6	<10	<2
612626	Soil	0.36	9.9	1.3	<0.05	1.6	13.68	16.2	0.05	<1	1.1	44.6	<10	<2
612627	Soil	0.34	9.7	1.2	<0.05	2.2	14.99	18.8	0.05	<1	1.1	47.8	<10	<2
612628	Soil	0.31	9.2	0.9	<0.05	1.6	16.43	20.7	0.04	<1	1.0	45.3	<10	<2
612629	Soil	0.27	8.7	0.9	<0.05	1.5	12.68	14.9	0.03	<1	0.8	37.6	<10	<2
612630	Soil	0.30	9.4	0.6	<0.05	1.5	10.69	13.4	0.04	<1	1.0	41.9	<10	<2
612631	Soil	0.32	8.4	0.7	<0.05	1.3	12.00	14.8	0.04	<1	0.9	39.0	<10	<2
612632	Soil	0.33	8.0	0.7	<0.05	1.5	9.10	13.1	0.05	<1	1.0	39.1	<10	<2
612633	Soil	0.34	8.8	0.7	<0.05	1.9	8.81	14.7	0.04	<1	0.9	40.0	<10	<2
612634	Soil	0.33	8.1	1.0	<0.05	1.7	9.53	14.9	0.03	<1	0.7	40.4	<10	<2
612635	Soil	0.30	8.1	0.8	<0.05	1.9	10.98	16.3	0.03	<1	0.9	41.9	<10	<2
612551	Soil	0.28	13.0	1.1	<0.05	0.6	4.15	13.4	0.03	<1	0.7	12.9	<10	<2
612552	Soil	0.21	10.8	0.8	<0.05	0.4	2.81	10.5	0.03	<1	0.4	9.4	<10	<2
612553	Soil	0.07	9.2	2.4	<0.05	0.4	3.20	10.5	0.04	<1	0.9	5.5	<10	<2
612554	Soil	0.05	5.3	1.3	<0.05	0.4	2.69	14.4	0.04	<1	0.9	2.1	<10	<2
612555	Soil	0.12	6.6	1.2	<0.05	0.5	3.51	13.0	0.04	<1	0.5	4.6	<10	<2
612556	Soil	0.29	12.3	3.3	<0.05	0.8	7.94	14.2	0.04	<1	0.9	15.6	<10	<2
612557	Soil	0.19	8.7	1.3	<0.05	1.0	20.15	28.8	0.05	<1	1.3	29.8	<10	<2
612558	Soil	0.25	7.5	3.8	<0.05	1.3	19.43	17.2	0.05	<1	1.0	36.8	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 12, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
612559	Soil			1.26	29.63	35.01	88.9	227	34.7	15.1	556	3.75	12.9	0.7	1.5	2.5	145.2	0.11	0.35	0.32	12	1.84	0.070
612560	Soil			0.66	27.64	29.64	85.0	280	31.3	16.5	436	4.02	14.5	0.5	1.4	4.2	70.6	0.12	0.32	0.32	15	0.90	0.045
612561	Soil			0.40	31.95	17.03	61.5	217	23.8	9.5	271	2.57	7.3	1.3	1.5	1.0	106.1	0.08	0.25	0.25	14	1.93	0.075
612562	Soil			0.33	25.99	20.55	70.3	203	22.9	10.8	397	2.55	6.8	0.9	1.1	1.5	122.5	0.17	0.26	0.22	13	2.19	0.070
612563	Soil			0.76	22.72	19.81	48.9	195	17.3	6.9	262	1.95	7.1	1.5	0.3	0.6	159.3	0.17	0.32	0.22	12	2.50	0.084
612564	Soil			0.39	20.50	19.02	63.5	131	21.6	8.9	224	2.62	8.9	0.6	1.0	1.9	61.1	0.07	0.22	0.24	13	0.85	0.045
612565	Soil			0.34	19.21	20.49	69.3	162	19.3	7.7	199	2.56	9.8	0.6	2.0	1.5	154.2	0.06	0.21	0.24	13	1.13	0.055
612566	Soil			0.35	19.35	19.57	77.5	137	19.3	8.1	264	2.43	8.2	1.0	0.7	1.2	142.1	0.09	0.26	0.22	11	1.18	0.051
612567	Soil			0.40	22.13	22.36	109.8	182	22.1	9.7	347	2.84	10.6	1.2	1.0	1.6	123.1	0.15	0.33	0.28	15	1.26	0.065
612568	Soil			0.57	29.88	25.36	79.6	199	25.9	11.9	499	3.68	18.6	1.1	1.9	2.8	72.3	0.14	0.52	0.26	19	0.94	0.052
612569	Soil			0.42	22.83	23.02	61.9	121	19.7	11.0	307	2.80	11.1	1.0	1.0	1.6	152.7	0.12	0.25	0.26	16	1.08	0.049
612570	Soil			0.30	24.58	21.63	79.6	177	22.6	9.5	245	2.85	12.0	0.7	1.8	1.9	90.1	0.08	0.31	0.25	14	1.13	0.049
612636	Soil			0.58	28.61	22.21	91.8	92	25.1	11.8	734	3.72	14.2	1.7	0.6	1.6	46.7	0.27	0.57	0.31	20	0.69	0.107
612637	Soil			0.48	30.67	19.98	114.2	79	24.0	11.4	558	3.36	12.5	1.6	1.0	1.8	48.2	0.35	0.50	0.29	13	0.88	0.091
612638	Soil			0.61	24.87	20.84	80.5	91	20.5	8.6	376	3.20	19.7	1.3	0.7	1.1	31.1	0.23	0.87	0.30	20	0.34	0.100
612639	Soil			0.52	36.37	25.47	102.4	90	27.8	13.5	747	3.18	22.2	1.1	2.8	2.0	68.0	0.23	1.38	0.36	13	0.84	0.080
612640	Soil			0.60	24.90	14.17	79.2	78	21.5	7.2	300	2.61	24.4	3.1	1.4	1.2	69.1	0.16	1.27	0.23	17	0.81	0.134
612641	Soil			0.62	28.68	18.87	135.5	86	25.6	11.2	482	3.30	29.9	1.8	1.1	1.6	44.7	0.34	1.26	0.28	20	0.38	0.087
612642	Soil			0.57	29.39	23.37	80.4	138	23.5	15.5	1312	3.64	56.9	4.9	2.0	1.4	78.7	0.30	0.57	0.28	27	1.06	0.119
612643	Soil			0.93	21.85	18.88	108.5	115	17.0	12.8	875	4.25	51.5	0.4	<0.2	0.6	13.6	0.37	0.56	0.31	36	0.12	0.059
612644	Soil			1.20	17.58	17.94	91.9	76	18.0	8.6	439	4.47	21.7	0.4	0.3	1.2	10.3	0.15	0.74	0.34	48	0.05	0.040
612645	Soil			0.78	21.21	22.17	102.4	49	20.2	11.0	434	5.17	14.9	0.4	0.2	1.6	9.5	0.12	0.44	0.35	34	0.02	0.063
612646	Soil			0.91	17.56	15.62	84.2	50	13.5	6.5	353	4.10	14.2	0.3	<0.2	0.5	8.9	0.29	0.60	0.30	45	0.02	0.062
612647	Soil			0.59	17.18	18.24	80.0	104	16.4	9.8	668	3.03	11.6	0.4	0.4	1.0	41.0	0.20	0.35	0.29	27	0.37	0.064
612648	Soil			0.82	59.27	31.16	113.8	112	35.2	18.3	687	4.10	13.5	1.6	3.2	2.4	81.1	0.32	0.72	0.51	17	1.24	0.092
612649	Soil			0.21	49.38	57.43	94.3	11	19.8	8.2	217	3.81	56.1	0.4	1.5	2.9	21.6	0.06	0.77	0.67	8	0.02	0.023
612650	Soil			1.22	39.37	25.04	86.1	207	19.2	9.1	599	3.45	11.8	1.0	1.4	0.7	8.8	0.25	0.66	0.56	38	0.02	0.074
119780	Soil			1.14	32.83	32.01	94.6	74	32.2	14.7	425	4.20	15.6	0.5	0.8	1.4	27.3	0.19	0.54	0.49	23	0.31	0.071
119781	Soil			1.10	32.54	39.55	91.6	97	31.5	12.2	265	4.36	19.7	0.6	1.0	2.0	29.8	0.10	0.73	0.51	25	0.14	0.053
119782	Soil			0.78	34.01	43.83	74.3	116	31.9	13.8	435	4.77	18.7	1.5	1.8	4.7	32.4	0.13	0.61	0.43	20	0.27	0.053



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: September 12, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
612559	Soil	9.0	24.3	0.28	118.8	0.001	4	1.04	0.003	0.07	<0.1	6.6	0.12	0.07	150	0.5	0.07	2.9	1.91	<0.1	0.04
612560	Soil	8.2	21.3	0.35	126.9	0.001	4	1.21	0.002	0.06	<0.1	7.7	0.09	0.05	185	0.5	0.04	3.2	1.89	<0.1	0.04
612561	Soil	5.4	15.5	0.28	138.1	0.001	5	0.98	0.003	0.06	<0.1	4.0	0.09	0.09	113	0.8	0.04	2.7	1.39	<0.1	0.03
612562	Soil	5.1	15.0	0.25	120.9	0.002	5	0.85	0.002	0.07	<0.1	4.2	0.09	0.08	119	0.5	<0.02	2.6	1.46	<0.1	0.04
612563	Soil	3.0	15.7	0.16	150.9	0.004	6	0.70	0.005	0.06	<0.1	2.0	0.09	0.12	110	0.6	<0.02	2.1	2.48	<0.1	0.03
612564	Soil	3.0	14.4	0.23	111.5	0.002	3	0.95	0.002	0.07	<0.1	3.3	0.08	0.05	91	0.3	0.03	2.7	1.59	<0.1	0.03
612565	Soil	3.7	14.6	0.28	87.1	0.002	5	0.93	0.002	0.06	<0.1	3.5	0.10	0.07	118	0.5	0.04	2.7	1.51	<0.1	0.03
612566	Soil	2.6	11.5	0.24	101.8	0.001	6	0.72	0.003	0.06	<0.1	2.7	0.10	0.08	121	0.6	0.02	2.0	1.65	<0.1	0.03
612567	Soil	4.3	16.9	0.29	114.3	0.002	4	1.02	0.003	0.08	<0.1	3.5	0.09	0.06	126	0.5	0.02	3.0	1.40	<0.1	0.04
612568	Soil	12.4	19.7	0.32	116.8	0.003	3	1.14	0.002	0.06	<0.1	6.8	0.10	0.03	142	0.6	0.06	3.2	1.25	<0.1	0.05
612569	Soil	4.9	16.0	0.25	120.6	0.002	3	1.06	0.003	0.08	<0.1	3.8	0.09	0.05	119	0.5	0.04	3.1	1.15	<0.1	0.04
612570	Soil	5.0	15.1	0.27	99.4	0.002	4	0.96	0.003	0.07	<0.1	4.1	0.10	0.05	148	0.6	0.04	2.7	1.55	<0.1	0.03
612636	Soil	12.5	18.0	0.22	131.3	0.003	2	1.14	0.002	0.07	<0.1	4.8	0.08	0.05	63	0.3	0.05	2.9	1.91	<0.1	0.02
612637	Soil	13.2	12.1	0.11	115.1	0.001	2	0.69	0.002	0.06	<0.1	5.7	0.06	0.05	78	0.3	0.04	1.3	0.80	<0.1	0.04
612638	Soil	10.3	16.3	0.16	202.9	0.003	1	1.10	0.001	0.06	<0.1	3.1	0.09	0.04	33	0.3	0.04	2.7	1.26	<0.1	<0.02
612639	Soil	8.6	14.2	0.23	181.9	0.002	4	0.86	0.003	0.10	<0.1	7.1	0.11	0.06	103	0.5	0.06	1.8	4.97	<0.1	0.04
612640	Soil	13.5	20.5	0.21	131.6	0.002	3	0.94	0.001	0.08	<0.1	3.6	0.09	0.08	135	0.5	0.04	2.5	1.20	<0.1	0.05
612641	Soil	11.8	20.8	0.19	97.7	0.003	3	0.92	0.002	0.10	<0.1	4.4	0.10	0.04	110	0.4	0.03	2.5	2.06	<0.1	0.03
612642	Soil	25.1	22.1	0.46	148.3	0.006	3	1.59	0.003	0.07	<0.1	5.5	0.11	0.08	126	0.5	0.04	4.1	1.34	<0.1	0.04
612643	Soil	4.5	23.5	0.25	89.7	0.008	3	1.44	<0.001	0.13	<0.1	1.5	0.10	0.04	35	0.3	0.06	5.3	4.25	<0.1	<0.02
612644	Soil	7.7	26.7	0.32	87.5	0.020	2	1.65	<0.001	0.11	<0.1	2.1	0.10	0.02	38	0.4	0.05	6.1	3.63	<0.1	<0.02
612645	Soil	4.3	25.5	0.37	63.3	0.004	3	1.91	<0.001	0.10	<0.1	2.5	0.09	<0.02	201	0.3	0.05	5.7	3.64	<0.1	<0.02
612646	Soil	5.9	17.8	0.14	78.7	0.008	2	1.15	<0.001	0.08	<0.1	1.1	0.10	<0.02	35	0.2	0.04	6.2	2.10	<0.1	<0.02
612647	Soil	5.3	19.6	0.39	98.0	0.007	2	1.14	0.002	0.09	<0.1	1.7	0.07	0.03	26	0.3	0.04	4.3	2.07	<0.1	<0.02
612648	Soil	11.4	12.6	0.18	198.1	0.002	4	0.69	0.003	0.06	<0.1	8.1	0.09	0.08	145	0.4	0.06	1.7	1.94	<0.1	0.04
612649	Soil	8.2	4.1	0.06	48.9	<0.001	2	0.41	0.002	0.06	<0.1	3.1	0.07	<0.02	21	<0.1	0.08	0.8	2.72	<0.1	<0.02
612650	Soil	7.4	18.1	0.10	104.5	0.005	2	1.19	<0.001	0.07	<0.1	1.9	0.17	0.04	52	0.3	0.07	5.2	5.37	<0.1	<0.02
119780	Soil	4.3	18.9	0.20	198.3	0.003	3	1.05	0.002	0.11	<0.1	3.1	0.08	0.03	69	0.2	0.11	2.8	2.20	<0.1	0.03
119781	Soil	5.9	20.3	0.27	117.7	0.006	3	1.14	0.010	0.12	<0.1	3.1	0.11	0.06	189	0.3	0.06	3.1	4.34	<0.1	0.03
119782	Soil	11.5	14.2	0.20	133.0	0.002	2	1.15	0.002	0.08	<0.1	5.2	0.11	0.02	235	0.2	0.07	2.4	1.16	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 6 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
612559	Soil	0.14	7.2	4.2	<0.05	1.3	19.19	29.7	0.05	<1	1.0	35.8	<10	<2
612560	Soil	0.16	6.8	2.9	<0.05	1.5	19.12	26.5	0.04	<1	1.4	41.2	<10	<2
612561	Soil	0.21	7.5	0.9	<0.05	1.1	15.50	14.9	0.03	<1	1.0	29.9	<10	<2
612562	Soil	0.19	6.7	0.6	<0.05	1.8	12.62	15.5	0.03	<1	0.8	26.9	<10	<2
612563	Soil	0.27	8.2	2.0	<0.05	1.4	5.96	7.1	0.03	<1	0.5	15.6	<10	<2
612564	Soil	0.22	7.4	0.8	<0.05	1.3	6.29	7.8	0.03	<1	0.8	30.5	<10	<2
612565	Soil	0.20	9.5	0.6	<0.05	1.2	7.76	9.0	0.04	<1	0.8	30.6	<10	<2
612566	Soil	0.22	8.3	0.7	<0.05	1.1	5.53	6.5	0.03	<1	0.5	22.9	<10	<2
612567	Soil	0.27	8.5	0.6	<0.05	1.4	7.54	10.8	0.03	<1	0.7	32.1	<10	<2
612568	Soil	0.27	6.7	0.7	<0.05	1.5	18.71	25.3	0.05	<1	1.2	30.9	<10	<2
612569	Soil	0.30	8.8	0.6	<0.05	1.3	8.97	12.6	0.03	<1	0.9	29.5	<10	<2
612570	Soil	0.23	8.7	0.4	<0.05	1.3	9.58	12.3	0.03	<1	0.8	33.5	<10	<2
612636	Soil	0.25	12.2	1.0	<0.05	0.8	22.40	28.5	0.04	<1	1.5	14.3	<10	<2
612637	Soil	0.12	6.2	0.4	<0.05	1.0	20.20	24.2	0.05	<1	1.2	5.8	<10	<2
612638	Soil	0.26	11.8	0.8	<0.05	0.6	12.29	26.8	0.04	<1	1.0	9.3	<10	<2
612639	Soil	0.18	16.1	0.5	<0.05	1.3	18.56	31.9	0.05	<1	1.3	12.6	<10	<2
612640	Soil	0.21	8.5	0.8	<0.05	1.6	18.08	21.7	0.04	<1	1.1	10.5	<10	<2
612641	Soil	0.22	11.0	0.6	<0.05	0.8	13.07	36.4	0.04	<1	0.9	12.4	<10	<2
612642	Soil	0.34	8.5	1.4	<0.05	1.0	35.71	69.2	0.04	<1	1.4	30.9	<10	<2
612643	Soil	0.46	15.8	0.9	<0.05	0.2	1.95	10.2	0.04	<1	0.6	28.7	<10	<2
612644	Soil	0.77	15.8	1.2	<0.05	0.2	2.29	15.5	0.03	<1	0.4	30.7	<10	<2
612645	Soil	0.47	12.8	0.7	<0.05	0.6	2.06	8.9	0.04	<1	0.9	42.8	<10	<2
612646	Soil	0.44	14.1	1.6	<0.05	<0.1	1.71	11.8	0.03	<1	0.5	12.2	<10	<2
612647	Soil	0.37	14.8	0.8	<0.05	0.5	2.87	11.3	0.02	<1	0.7	26.1	<10	<2
612648	Soil	0.12	7.3	1.4	<0.05	1.2	28.69	18.8	0.08	<1	1.4	10.2	<10	<2
612649	Soil	0.03	7.6	0.6	<0.05	0.2	2.69	14.2	0.06	2	0.7	2.0	<10	<2
612650	Soil	0.42	17.9	1.4	<0.05	0.2	4.17	14.2	0.04	<1	0.7	8.5	<10	<2
119780	Soil	0.36	13.2	2.5	<0.05	0.8	3.62	8.2	0.05	<1	0.7	25.3	<10	<2
119781	Soil	0.41	12.0	6.4	<0.05	0.3	3.20	10.6	0.05	<1	1.0	30.8	<10	<2
119782	Soil	0.27	10.3	1.0	<0.05	1.2	15.76	34.0	0.05	<1	1.1	18.0	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
119783	Soil			1.03	40.43	41.61	99.4	198	34.8	20.3	685	4.23	19.4	0.7	4.1	3.4	22.7	0.16	0.66	0.39	23	0.19	0.051
119784	Soil			0.63	33.69	22.60	66.5	166	25.2	12.1	472	3.82	21.6	1.4	0.9	2.5	86.7	0.19	0.52	0.32	23	1.66	0.101
119785	Soil			0.77	40.56	43.01	106.6	77	27.7	20.2	869	4.82	10.6	0.7	0.9	9.2	62.9	0.37	0.46	0.46	26	0.33	0.033
119786	Soil			0.74	40.49	25.09	77.5	22	29.5	13.2	224	4.13	63.7	0.7	2.2	3.4	15.1	0.05	1.23	0.42	20	0.05	0.026
119787	Soil			0.89	33.56	27.36	76.2	116	24.7	11.9	689	3.43	91.8	0.9	1.8	1.3	40.8	0.28	1.71	0.37	26	0.39	0.096
119788	Soil			0.78	24.78	24.52	86.0	141	18.2	15.4	1245	3.46	64.6	0.8	1.2	1.6	16.1	0.19	1.24	0.37	30	0.09	0.053
119789	Soil			0.73	19.73	23.95	63.7	87	13.9	10.0	473	3.11	97.2	0.6	1.3	1.6	16.7	0.09	0.94	0.35	30	0.11	0.047
119790	Soil			0.57	26.68	26.35	72.8	142	21.2	16.0	1269	3.17	53.6	0.4	1.0	1.4	25.1	0.30	0.91	0.37	31	0.13	0.043
119791	Soil			0.73	29.90	26.39	70.3	212	28.2	12.1	435	4.02	20.2	1.6	1.0	2.4	42.6	0.13	0.64	0.41	22	0.60	0.078
119792	Soil			0.73	17.92	31.69	127.2	190	41.6	12.8	442	4.32	19.1	1.1	0.4	1.1	28.7	0.22	0.42	0.41	35	0.33	0.147
119793	Soil			0.94	24.77	21.14	114.9	72	17.8	8.6	333	3.61	27.9	0.4	1.1	1.8	10.0	0.17	0.84	0.41	32	0.02	0.042
119794	Soil			1.09	27.55	36.28	187.9	198	23.3	13.7	412	4.29	15.7	0.4	0.7	1.2	25.9	0.47	0.59	0.45	30	0.05	0.085
119795	Soil			1.22	26.39	33.60	99.9	101	24.5	9.7	310	4.10	11.9	0.4	0.9	2.5	24.4	0.13	0.53	0.43	28	0.07	0.057
119796	Soil			0.84	36.41	37.80	109.3	256	31.1	12.3	322	5.57	22.4	0.5	2.4	4.6	10.4	0.13	0.61	0.45	24	0.02	0.049
119797	Soil			0.53	20.80	14.97	60.6	45	10.4	4.3	104	2.80	6.0	0.2	6.1	1.3	14.2	0.09	0.35	0.45	28	0.14	0.033
119798	Soil			0.47	41.33	31.25	90.6	205	31.0	12.2	294	3.30	7.5	0.8	0.8	3.1	87.4	0.12	0.30	0.46	17	1.20	0.061
119799	Soil			0.50	29.08	19.08	69.1	164	23.1	10.6	450	2.77	24.3	1.0	1.1	2.2	96.7	0.11	0.38	0.34	21	1.45	0.068
119800	Soil			0.57	32.28	19.08	81.4	94	30.1	11.8	243	3.52	50.7	1.0	1.8	4.1	53.2	0.14	0.85	0.35	23	0.54	0.037
612571	Soil			0.64	44.57	27.54	86.4	116	28.6	14.5	289	4.80	152.9	0.4	9.5	2.4	14.2	0.06	2.54	0.48	22	0.02	0.034
612572	Soil			0.79	35.40	25.21	95.0	72	24.8	14.9	963	4.00	283.3	0.4	1.2	1.1	20.8	0.15	2.00	0.43	30	0.11	0.052
612573	Soil			1.13	25.04	62.34	75.4	112	20.0	22.2	2880	3.49	181.7	0.7	5.1	0.4	18.9	0.17	1.12	0.36	29	0.14	0.076
612574	Soil			0.98	25.82	31.24	70.1	96	16.6	10.3	511	3.33	121.4	0.5	2.9	0.9	13.9	0.21	0.94	0.41	32	0.07	0.051
612575	Soil			0.75	28.29	23.24	86.8	169	21.9	10.3	587	3.35	78.9	0.9	4.3	1.4	39.1	0.22	0.86	0.38	26	0.37	0.084
612576	Soil			0.83	26.50	34.72	78.1	66	22.7	12.1	497	3.56	87.0	0.6	1.0	1.7	17.9	0.12	0.97	0.38	26	0.12	0.044
612577	Soil			1.08	40.79	42.16	92.3	187	28.8	20.4	1391	4.60	18.5	1.2	0.7	2.9	112.0	0.36	0.99	0.41	24	1.30	0.095
612578	Soil			0.73	28.64	30.28	83.8	110	22.9	14.5	585	4.58	12.1	0.8	0.7	4.7	49.6	0.17	0.49	0.37	24	0.42	0.076
612579	Soil			1.38	58.95	48.69	83.0	274	39.0	21.9	2013	4.49	11.2	1.2	<0.2	1.6	90.9	0.48	0.70	0.36	26	1.20	0.172
612580	Soil			0.69	26.28	27.95	87.0	142	23.1	11.1	516	4.35	12.1	1.3	0.4	1.2	31.0	0.29	0.47	0.42	30	0.38	0.111
612581	Soil			1.33	24.56	30.41	141.8	99	23.0	15.5	846	3.40	13.7	0.5	1.0	0.6	16.2	0.35	0.66	0.51	34	0.13	0.065
612582	Soil			0.78	29.71	32.97	120.2	248	23.6	8.4	146	4.86	12.1	0.3	<0.2	2.3	13.1	0.14	0.38	0.55	24	0.01	0.054



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
119783	Soil	5.0	20.5	0.33	119.6	0.003	3	1.23	0.002	0.11	<0.1	3.6	0.10	0.02	78	0.3	0.04	3.4	2.66	<0.1	0.02
119784	Soil	11.3	18.4	0.26	227.7	0.003	4	1.14	0.003	0.09	<0.1	6.6	0.09	0.08	79	0.4	0.05	3.3	1.27	<0.1	0.05
119785	Soil	13.6	19.5	0.24	165.6	0.003	3	1.34	0.003	0.16	<0.1	9.8	0.11	<0.02	33	0.1	0.07	4.0	1.50	<0.1	0.04
119786	Soil	6.0	14.0	0.20	41.4	0.002	3	0.79	0.001	0.08	<0.1	4.0	0.09	<0.02	72	0.2	0.04	2.2	1.58	<0.1	0.02
119787	Soil	6.4	18.5	0.22	155.3	0.005	3	0.98	0.003	0.12	<0.1	3.0	0.10	0.04	164	0.2	0.03	3.3	1.56	<0.1	0.03
119788	Soil	7.6	16.7	0.16	128.9	0.007	3	1.04	0.002	0.15	<0.1	2.5	0.09	0.03	44	0.2	0.05	3.7	1.90	<0.1	<0.02
119789	Soil	5.9	14.0	0.14	125.3	0.004	2	0.93	0.001	0.15	<0.1	2.0	0.12	0.02	47	0.2	0.02	4.2	2.00	<0.1	<0.02
119790	Soil	8.3	14.8	0.16	182.8	0.014	3	0.87	0.003	0.16	<0.1	2.4	0.09	0.02	48	0.2	0.04	3.7	1.34	<0.1	<0.02
119791	Soil	13.5	15.3	0.16	122.0	0.004	3	1.03	0.004	0.07	<0.1	5.3	0.12	0.04	807	0.3	0.06	2.4	0.79	<0.1	0.04
119792	Soil	6.9	19.8	0.24	158.7	0.004	2	2.08	0.002	0.10	<0.1	2.1	0.12	0.06	36	0.2	0.05	4.3	3.25	<0.1	0.03
119793	Soil	8.3	15.4	0.16	91.2	0.010	2	0.83	0.003	0.08	<0.1	2.1	0.10	<0.02	36	0.2	0.07	4.0	1.90	<0.1	<0.02
119794	Soil	6.1	20.1	0.15	202.3	0.005	2	0.99	0.007	0.14	<0.1	1.9	0.08	0.05	35	0.2	0.03	4.1	2.11	<0.1	<0.02
119795	Soil	5.5	21.4	0.19	150.6	0.005	3	1.10	0.005	0.10	<0.1	2.4	0.08	0.04	44	0.2	0.07	4.1	2.43	<0.1	<0.02
119796	Soil	4.9	21.4	0.29	72.4	0.003	4	1.67	0.002	0.07	<0.1	4.0	0.16	0.03	98	0.4	0.05	3.3	5.05	<0.1	0.03
119797	Soil	3.4	9.7	0.07	102.5	0.003	2	0.66	0.003	0.11	<0.1	1.9	0.07	<0.02	24	0.2	0.07	4.3	1.17	<0.1	<0.02
119798	Soil	9.7	19.0	0.29	195.9	0.003	5	1.12	0.004	0.09	<0.1	7.2	0.12	0.04	122	0.4	0.06	3.0	2.29	<0.1	0.04
119799	Soil	6.2	18.5	0.32	232.1	0.004	3	1.19	0.004	0.06	<0.1	4.1	0.08	0.06	116	0.3	0.05	3.5	1.18	<0.1	0.06
119800	Soil	7.7	22.5	0.43	156.0	0.006	3	1.25	0.003	0.06	<0.1	4.9	0.09	<0.02	177	0.4	0.04	3.6	1.13	<0.1	0.05
612571	Soil	4.6	15.1	0.21	54.8	0.002	2	0.97	<0.001	0.07	<0.1	3.3	0.09	<0.02	114	0.2	0.06	2.8	2.87	<0.1	<0.02
612572	Soil	7.0	15.0	0.15	165.1	0.009	2	0.74	0.002	0.08	<0.1	2.5	0.13	0.02	115	0.2	0.06	3.5	2.31	<0.1	<0.02
612573	Soil	6.8	16.5	0.12	182.5	0.007	2	0.91	0.003	0.11	<0.1	1.6	0.18	0.04	46	0.3	0.06	3.7	2.46	<0.1	<0.02
612574	Soil	7.2	13.4	0.09	114.1	0.007	2	0.78	0.003	0.12	<0.1	1.9	0.10	0.03	32	0.2	0.05	4.2	1.83	<0.1	<0.02
612575	Soil	9.0	17.7	0.25	179.3	0.006	4	1.16	0.004	0.14	<0.1	3.1	0.10	0.06	42	0.2	0.04	3.7	2.58	<0.1	0.02
612576	Soil	6.8	17.5	0.23	105.9	0.005	2	1.00	0.002	0.11	<0.1	2.4	0.08	<0.02	41	0.2	0.04	3.2	1.68	<0.1	<0.02
612577	Soil	10.2	17.0	0.20	175.3	0.005	4	1.08	0.004	0.12	<0.1	7.1	0.09	0.07	72	0.3	0.07	3.0	2.20	<0.1	0.03
612578	Soil	9.5	19.2	0.25	125.8	0.002	2	1.32	0.002	0.11	<0.1	7.6	0.09	0.03	27	0.2	0.05	3.4	1.74	<0.1	0.03
612579	Soil	12.8	19.3	0.19	233.4	0.006	2	1.24	0.003	0.08	<0.1	4.0	0.07	0.10	48	0.3	0.06	3.5	2.18	<0.1	0.03
612580	Soil	8.7	17.4	0.20	141.2	0.005	2	1.24	0.002	0.10	<0.1	3.0	0.10	0.04	69	0.3	0.04	3.1	1.30	<0.1	<0.02
612581	Soil	8.5	16.9	0.14	105.8	0.016	2	0.80	0.003	0.12	<0.1	2.0	0.09	0.03	72	0.2	0.06	3.8	3.25	<0.1	<0.02
612582	Soil	3.1	16.6	0.12	69.0	0.002	3	1.23	0.003	0.10	<0.1	2.7	0.11	0.04	50	0.3	0.06	4.1	2.54	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 7 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
119783	Soil	0.23	8.5	5.5	<0.05	0.7	4.14	16.8	0.04	<1	1.2	31.3	<10	<2
119784	Soil	0.30	9.5	1.1	<0.05	1.3	17.21	26.3	0.07	<1	1.1	24.7	<10	<2
119785	Soil	0.31	15.2	3.9	<0.05	1.7	14.93	44.8	0.07	<1	1.2	28.1	<10	<2
119786	Soil	0.20	8.1	0.7	<0.05	0.6	3.35	16.0	0.06	<1	0.9	16.3	<10	<2
119787	Soil	0.31	17.5	4.3	<0.05	0.7	4.43	13.5	0.05	<1	0.8	15.1	<10	<2
119788	Soil	0.41	18.9	1.1	<0.05	0.2	2.74	15.7	0.05	1	0.6	15.7	<10	<2
119789	Soil	0.36	14.9	2.6	<0.05	0.1	2.00	10.5	0.04	<1	0.5	14.2	<10	<2
119790	Soil	0.69	17.0	1.1	<0.05	0.3	2.30	16.3	0.03	<1	0.5	12.2	<10	<2
119791	Soil	0.29	11.1	1.1	<0.05	1.0	17.11	27.8	0.06	<1	1.0	10.4	<10	<2
119792	Soil	0.52	20.4	1.4	<0.05	0.8	7.03	15.0	0.04	<1	1.3	37.7	<10	<2
119793	Soil	0.42	16.7	1.7	<0.05	0.1	2.08	13.6	0.04	<1	0.3	13.7	<10	<2
119794	Soil	0.26	16.2	4.6	<0.05	0.1	1.95	10.7	0.05	<1	0.6	17.6	<10	<2
119795	Soil	0.47	14.5	5.8	<0.05	0.3	2.26	9.5	0.04	<1	0.6	32.2	<10	<2
119796	Soil	0.35	11.4	0.9	<0.05	1.4	3.09	9.1	0.06	<1	1.1	46.3	<10	<2
119797	Soil	0.24	16.4	2.9	<0.05	0.2	1.50	5.6	0.03	<1	0.3	4.0	<10	<2
119798	Soil	0.26	10.9	2.5	<0.05	1.4	19.65	16.6	0.06	<1	1.1	37.8	<10	<2
119799	Soil	0.43	7.8	1.7	<0.05	1.6	7.72	11.8	0.05	<1	0.9	31.9	<10	<2
119800	Soil	0.30	7.0	1.3	<0.05	2.1	6.05	16.4	0.04	<1	0.8	42.7	<10	<2
612571	Soil	0.13	7.9	1.5	<0.05	0.5	2.82	7.7	0.05	<1	0.9	23.8	<10	<2
612572	Soil	0.32	15.0	1.9	<0.05	0.1	2.49	12.6	0.07	<1	0.5	8.2	<10	<2
612573	Soil	0.19	17.3	6.4	<0.05	<0.1	2.64	15.8	0.03	1	0.5	10.7	<10	<2
612574	Soil	0.44	15.2	3.5	<0.05	<0.1	2.24	12.2	0.04	<1	0.4	6.9	<10	<2
612575	Soil	0.41	18.0	2.7	<0.05	0.6	8.10	15.1	0.06	1	0.8	17.0	<10	<2
612576	Soil	0.35	13.3	2.5	<0.05	0.3	2.72	15.3	0.04	<1	0.6	20.7	<10	<2
612577	Soil	0.38	14.7	6.4	<0.05	1.4	20.80	29.9	0.07	<1	1.2	19.1	<10	<2
612578	Soil	0.24	13.5	2.9	<0.05	1.1	14.13	31.7	0.07	<1	1.2	30.3	<10	<2
612579	Soil	0.36	16.2	6.2	<0.05	0.7	18.57	30.7	0.06	<1	1.5	19.6	<10	<2
612580	Soil	0.35	15.4	1.4	<0.05	0.4	9.70	28.6	0.06	<1	1.1	16.4	<10	<2
612581	Soil	0.44	27.4	8.5	<0.05	0.1	2.26	14.4	0.05	<1	0.5	9.1	<10	<2
612582	Soil	0.25	14.2	2.6	<0.05	0.8	1.86	5.7	0.06	<1	0.5	20.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612583	Soil			1.18	19.21	17.48	61.5	29	12.7	4.7	126	2.46	6.5	0.3	2.4	2.9	4.5	0.04	0.51	0.37	35	0.02	0.029
612584	Soil			0.81	24.13	23.11	75.1	82	15.9	7.4	167	3.03	5.9	0.3	0.6	2.7	4.7	0.07	0.41	0.44	37	0.01	0.040
612585	Soil			0.93	26.37	41.91	70.2	104	20.2	9.8	329	3.22	5.2	0.4	0.9	1.2	20.4	0.20	0.30	0.41	24	0.08	0.064
612586	Soil			0.94	25.65	27.05	105.8	297	21.7	10.6	316	4.65	15.3	0.5	1.0	3.5	7.6	0.11	0.63	0.46	35	0.02	0.041
612587	Soil			0.73	22.17	23.14	61.5	53	17.4	7.9	215	3.27	47.8	0.7	1.6	3.8	11.3	0.09	0.52	0.35	30	0.03	0.028
612588	Soil			0.61	21.45	21.15	67.7	91	18.2	7.8	227	3.11	32.6	0.6	<0.2	3.7	9.8	0.06	0.42	0.37	29	0.03	0.022
612589	Soil			0.41	26.02	25.17	64.9	28	20.6	8.7	181	3.32	6.2	0.3	0.5	2.9	8.3	0.05	0.35	0.37	8	0.05	0.024
612590	Soil			0.44	38.39	34.83	83.6	287	32.5	10.9	350	3.53	12.1	1.0	0.7	3.7	97.4	0.14	0.48	0.43	12	0.92	0.054
612591	Soil			0.57	30.21	29.24	97.0	190	31.4	11.1	252	3.09	9.1	0.8	1.3	4.7	100.1	0.12	0.39	0.39	9	1.33	0.058
612592	Soil			0.63	29.97	32.86	95.6	236	30.1	12.3	412	3.23	12.6	1.0	1.3	2.1	124.8	0.11	0.85	0.39	12	1.83	0.048
612593	Soil			0.49	32.99	33.19	84.8	207	29.7	10.7	272	3.13	12.3	0.5	2.7	3.5	94.4	0.09	1.09	0.39	11	1.12	0.048
612594	Soil			0.44	31.79	25.61	86.0	187	26.8	9.3	269	2.54	7.0	1.1	1.3	1.8	149.8	0.14	0.42	0.34	10	2.47	0.062
612595	Soil			0.98	27.79	50.05	136.7	154	31.4	11.6	371	2.64	10.4	1.6	1.9	1.3	73.0	0.22	0.85	0.34	12	2.38	0.110
612596	Soil			0.38	19.78	39.33	348.7	130	19.9	6.6	571	2.29	26.7	1.7	15.8	1.5	62.3	0.46	1.94	0.23	9	6.99	0.133
119901	Soil			0.55	15.36	17.93	61.6	45	11.5	8.1	1145	2.20	26.8	0.4	0.4	0.6	18.9	0.25	1.67	0.30	29	0.12	0.043
119902	Soil			0.60	26.01	24.61	73.6	196	17.8	11.5	859	2.66	60.8	0.6	2.7	0.4	21.5	0.18	1.22	0.35	27	0.15	0.089
119903	Soil			1.31	17.57	32.57	101.4	100	16.5	11.3	587	2.85	117.9	0.5	0.3	0.6	14.2	0.52	0.89	0.34	31	0.08	0.048
119904	Soil			0.72	19.97	33.43	85.5	70	16.1	11.9	798	3.29	332.6	0.5	5.9	2.5	14.0	0.13	0.95	0.32	28	0.06	0.041
119905	Soil			1.10	18.14	33.03	64.7	73	17.7	7.8	281	3.06	211.9	0.6	19.8	2.6	14.8	0.11	1.04	0.30	26	0.09	0.028
119906	Soil			0.80	21.70	24.99	71.6	111	17.1	10.0	477	3.08	81.8	0.8	2.8	1.6	21.9	0.13	1.32	0.38	26	0.16	0.061
119907	Soil			0.90	37.18	38.35	74.6	88	26.1	14.7	496	3.79	22.4	0.7	1.9	5.2	28.1	0.12	1.83	0.37	14	0.22	0.057
119908	Soil			0.80	27.62	29.71	69.6	102	22.6	14.5	1571	3.41	28.6	0.7	0.6	2.7	19.9	0.22	1.35	0.36	23	0.10	0.060
119909	Soil			0.85	40.01	33.14	95.3	177	26.9	15.4	1092	3.74	14.3	1.1	0.4	4.6	129.8	0.26	0.74	0.35	19	1.25	0.122
119910	Soil			0.74	42.52	32.40	85.0	136	33.6	15.1	514	3.76	23.6	1.2	0.7	3.3	96.5	0.17	1.37	0.39	20	0.90	0.104
119911	Soil			1.12	33.57	46.04	78.3	332	28.3	13.5	1139	3.92	12.7	0.8	0.5	1.7	29.0	0.24	0.80	0.39	22	0.17	0.087
119912	Soil			1.19	35.13	50.83	86.1	72	34.1	17.2	361	5.23	18.1	0.7	0.3	3.2	16.9	0.21	0.95	0.41	27	0.15	0.071
119913	Soil			0.69	16.33	22.17	70.4	97	9.5	4.2	106	2.52	7.8	0.3	<0.2	2.8	11.5	0.14	0.43	0.33	25	0.03	0.031
119914	Soil			0.90	21.50	28.33	73.0	62	19.3	10.2	803	5.51	12.4	1.0	0.2	1.6	13.7	0.21	0.73	0.40	42	0.08	0.082
119915	Soil			0.78	38.85	44.59	81.1	29	25.8	10.7	267	4.12	39.6	0.5	1.6	3.1	21.2	0.05	0.96	0.49	24	0.01	0.038
119916	Soil			0.87	24.83	28.30	61.9	146	13.7	5.6	165	3.12	10.0	0.4	<0.2	2.6	9.3	0.12	0.46	0.37	28	0.02	0.047



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
612583	Soil	7.3	11.5	0.05	42.4	0.005	2	0.65	0.002	0.08	<0.1	1.6	0.08	<0.02	56	0.2	0.04	4.1	2.69	<0.1	<0.02
612584	Soil	5.6	10.7	0.06	61.1	0.004	2	0.89	0.001	0.09	<0.1	2.5	0.11	<0.02	18	0.1	0.03	4.4	1.85	<0.1	<0.02
612585	Soil	3.9	16.7	0.09	131.2	0.003	1	0.90	0.004	0.09	<0.1	1.6	0.09	0.05	31	0.3	0.04	3.6	3.42	<0.1	<0.02
612586	Soil	6.0	21.6	0.23	61.7	0.004	2	1.55	0.001	0.08	0.1	2.9	0.10	<0.02	27	0.2	0.02	4.8	2.87	<0.1	0.05
612587	Soil	8.0	18.4	0.24	91.0	0.003	1	1.22	0.001	0.06	<0.1	2.4	0.12	<0.02	34	0.2	0.04	4.3	2.03	<0.1	0.02
612588	Soil	7.4	17.2	0.25	92.6	0.004	1	1.17	0.002	0.07	<0.1	2.6	0.12	<0.02	36	0.2	0.03	4.2	1.88	<0.1	0.03
612589	Soil	5.2	4.0	0.03	47.4	<0.001	2	0.40	0.001	0.07	<0.1	2.7	0.12	<0.02	407	0.2	<0.02	0.9	1.14	<0.1	<0.02
612590	Soil	10.4	10.5	0.18	229.8	0.002	3	0.80	0.002	0.09	<0.1	5.9	0.12	0.04	513	0.6	<0.02	1.8	1.01	<0.1	0.06
612591	Soil	8.1	7.4	0.19	112.4	0.001	4	0.55	0.003	0.10	<0.1	5.5	0.13	0.04	356	0.4	0.03	1.4	1.57	<0.1	0.04
612592	Soil	4.9	9.4	0.18	174.5	0.002	4	0.62	0.004	0.08	<0.1	4.3	0.14	0.07	348	0.6	<0.02	1.5	1.59	<0.1	0.02
612593	Soil	6.6	10.8	0.20	128.5	0.002	4	0.64	0.003	0.10	<0.1	5.2	0.12	0.04	397	0.4	0.03	1.6	1.49	<0.1	0.04
612594	Soil	5.0	9.4	0.18	188.6	0.001	7	0.63	0.005	0.09	<0.1	3.7	0.11	0.09	269	0.6	<0.02	1.6	0.98	<0.1	0.03
612595	Soil	16.7	13.0	0.26	97.5	0.005	5	0.58	0.006	0.12	<0.1	3.0	0.23	0.11	311	0.5	<0.02	1.3	3.76	<0.1	0.03
612596	Soil	7.9	8.0	3.82	88.9	0.004	4	0.47	0.007	0.09	<0.1	1.9	0.17	0.03	204	0.5	0.03	1.3	2.32	<0.1	0.04
119901	Soil	8.7	11.4	0.03	176.0	0.006	<1	0.78	0.002	0.08	<0.1	1.2	0.09	<0.02	59	0.2	0.03	3.6	1.63	<0.1	<0.02
119902	Soil	7.0	13.3	0.16	167.8	0.004	2	0.89	0.004	0.11	<0.1	0.8	0.11	0.06	58	0.3	0.02	3.4	3.19	<0.1	<0.02
119903	Soil	7.3	17.8	0.09	131.4	0.011	<1	0.63	0.003	0.12	<0.1	1.2	0.10	0.03	28	0.2	0.03	3.5	2.02	<0.1	<0.02
119904	Soil	7.0	14.1	0.14	118.2	0.004	2	1.10	0.002	0.11	<0.1	2.2	0.20	0.02	32	0.3	0.03	4.0	3.33	<0.1	<0.02
119905	Soil	8.0	15.7	0.16	95.0	0.007	<1	0.71	0.002	0.09	<0.1	2.0	0.07	<0.02	29	0.3	<0.02	3.2	3.13	<0.1	<0.02
119906	Soil	7.0	14.2	0.18	111.4	0.006	<1	0.86	0.002	0.14	<0.1	2.1	0.10	0.04	56	0.2	0.02	3.2	3.88	<0.1	<0.02
119907	Soil	9.9	13.1	0.14	103.2	0.002	2	0.62	0.002	0.12	<0.1	8.5	0.08	0.03	60	<0.1	0.05	1.5	1.35	<0.1	0.04
119908	Soil	8.7	14.6	0.16	210.0	0.005	2	0.86	0.003	0.17	<0.1	3.6	0.08	0.03	36	0.1	0.05	2.7	1.17	<0.1	<0.02
119909	Soil	12.4	16.3	0.26	200.7	0.005	4	0.95	0.005	0.17	<0.1	9.9	0.10	0.10	64	0.4	0.05	2.6	2.16	<0.1	0.05
119910	Soil	9.0	19.2	0.24	130.2	0.003	2	1.02	0.003	0.09	<0.1	7.0	0.09	0.06	59	0.3	0.03	2.6	2.23	<0.1	0.05
119911	Soil	7.2	18.2	0.21	187.7	0.005	1	0.97	0.003	0.14	<0.1	3.6	0.08	0.05	131	0.4	0.05	2.9	1.66	<0.1	<0.02
119912	Soil	7.8	16.2	0.22	152.8	0.004	<1	1.14	0.002	0.10	<0.1	3.9	0.10	0.03	51	0.2	0.07	3.4	1.76	<0.1	0.03
119913	Soil	7.7	10.8	0.08	105.7	0.008	<1	0.63	0.003	0.09	<0.1	1.6	0.11	0.02	32	0.2	0.04	3.5	1.66	<0.1	<0.02
119914	Soil	8.7	23.2	0.24	152.1	0.006	<1	1.48	0.001	0.06	0.1	2.5	0.10	0.03	49	0.2	0.06	4.2	1.69	<0.1	<0.02
119915	Soil	5.2	18.9	0.15	45.3	0.002	1	0.97	0.004	0.08	<0.1	2.7	0.11	0.04	161	0.4	0.04	2.9	1.67	<0.1	<0.02
119916	Soil	4.9	11.9	0.06	42.7	0.004	1	0.77	0.002	0.07	<0.1	1.9	0.09	0.03	34	0.2	0.04	4.1	3.26	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
612583	Soil	0.31	11.7	6.5	<0.05	0.3	1.65	12.4	0.05	<1	0.2	2.1	<10	<2
612584	Soil	0.38	14.5	1.8	<0.05	0.6	1.46	10.1	0.04	<1	0.3	3.9	<10	<2
612585	Soil	0.27	13.4	8.4	<0.05	0.3	2.36	7.5	0.04	<1	0.5	13.2	<10	<2
612586	Soil	0.47	15.1	1.4	<0.05	1.9	2.05	10.4	0.05	<1	0.7	44.1	<10	<2
612587	Soil	0.36	13.7	2.4	<0.05	1.2	3.05	14.6	0.04	<1	0.4	32.7	<10	<2
612588	Soil	0.37	11.7	1.4	<0.05	1.4	3.07	13.6	0.04	<1	0.5	27.7	<10	<2
612589	Soil	0.05	8.8	1.5	<0.05	0.3	3.38	10.9	0.04	<1	0.4	2.6	<10	<2
612590	Soil	0.18	6.9	1.1	<0.05	1.5	17.89	19.5	0.04	<1	1.2	11.8	<10	<2
612591	Soil	0.10	7.7	1.8	<0.05	1.8	11.67	16.5	0.04	<1	0.8	10.2	<10	<2
612592	Soil	0.23	7.1	1.2	<0.05	1.6	8.36	13.0	0.05	<1	0.8	11.4	<10	<2
612593	Soil	0.13	7.5	2.4	<0.05	1.6	11.00	13.2	0.05	<1	0.9	15.3	<10	<2
612594	Soil	0.19	7.1	0.7	<0.05	1.7	8.80	9.8	0.04	<1	0.7	12.2	<10	<2
612595	Soil	0.21	7.8	15.0	<0.05	1.0	15.41	30.5	0.04	<1	0.5	7.5	<10	<2
612596	Soil	0.10	5.7	1.3	<0.05	1.4	9.04	16.3	<0.02	<1	0.5	6.0	<10	<2
119901	Soil	0.34	17.3	5.1	<0.05	<0.1	2.13	15.3	0.02	<1	0.3	8.4	<10	<2
119902	Soil	0.41	18.2	4.5	<0.05	0.3	3.33	13.4	0.04	<1	0.7	8.5	<10	<2
119903	Soil	0.36	20.1	5.1	<0.05	0.1	1.59	13.1	0.02	<1	0.3	5.3	<10	<2
119904	Soil	0.37	16.0	1.7	<0.05	0.3	2.35	13.1	0.03	<1	0.5	19.0	<10	<2
119905	Soil	0.51	12.9	7.2	<0.05	0.4	2.28	14.0	0.03	<1	0.4	10.5	<10	<2
119906	Soil	0.37	14.5	1.2	<0.05	0.2	2.92	13.8	0.05	<1	0.5	10.7	<10	<2
119907	Soil	0.14	8.4	8.2	<0.05	1.3	20.76	27.2	0.08	<1	1.0	6.3	<10	<2
119908	Soil	0.28	14.9	3.1	<0.05	0.4	6.59	20.8	0.04	<1	0.7	10.7	<10	<2
119909	Soil	0.28	12.7	3.1	<0.05	2.2	25.92	32.6	0.06	<1	1.0	18.8	<10	<2
119910	Soil	0.29	10.2	3.4	<0.05	1.4	18.78	23.1	0.04	<1	1.1	20.0	<10	<2
119911	Soil	0.25	12.6	9.8	<0.05	0.6	7.84	17.4	0.05	<1	0.9	16.9	<10	<2
119912	Soil	0.36	10.7	4.3	<0.05	1.0	5.52	20.1	0.06	<1	0.7	22.6	<10	<2
119913	Soil	0.38	14.9	3.7	<0.05	0.2	1.59	13.3	0.03	<1	0.2	4.4	<10	<2
119914	Soil	0.43	10.9	2.4	<0.05	0.3	6.73	20.4	0.03	<1	0.8	24.3	<10	<2
119915	Soil	0.22	8.8	4.0	<0.05	0.9	2.74	9.6	0.05	<1	0.4	13.7	<10	<2
119916	Soil	0.33	11.3	2.8	<0.05	0.4	1.86	8.9	0.04	<1	0.3	3.8	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
119917	Soil			1.14	30.60	53.91	75.2	97	24.0	9.2	212	3.68	10.7	0.4	0.8	3.9	18.3	0.08	0.46	0.40	25	0.02	0.053
119918	Soil			0.76	35.03	51.17	81.6	160	24.0	12.2	260	4.82	7.1	0.3	<0.2	3.4	7.3	0.11	0.37	0.35	20	0.01	0.052
119919	Soil			0.52	46.38	43.19	111.2	176	44.2	15.8	437	5.03	10.7	0.6	0.7	7.2	71.9	0.07	0.38	0.49	18	0.49	0.098
119920	Soil			0.48	27.91	36.22	87.8	80	26.0	12.0	340	3.93	11.4	0.5	<0.2	3.1	11.7	0.07	0.30	0.42	18	0.07	0.046
119921	Soil			0.52	32.08	36.34	87.6	91	22.8	10.7	294	5.07	12.5	0.3	0.3	2.6	4.2	0.07	0.36	0.47	22	0.01	0.045
119922	Soil			0.33	31.94	32.76	84.1	285	25.0	9.5	263	2.80	14.4	0.7	1.2	2.2	105.2	0.14	0.58	0.41	9	1.60	0.061
119923	Soil			0.39	26.30	34.33	80.9	311	27.9	10.3	280	3.51	9.0	0.3	3.4	2.5	62.0	0.12	0.31	0.34	5	0.82	0.030
119924	Soil			0.39	21.29	23.23	62.4	228	22.8	8.3	224	2.53	7.1	0.6	1.8	1.2	179.1	0.10	0.28	0.26	7	2.27	0.051
119925	Soil			0.57	29.09	42.63	75.9	279	36.9	13.4	363	3.56	10.9	0.4	1.4	2.9	90.7	0.09	0.38	0.34	5	1.13	0.044
119926	Soil			0.44	25.53	26.61	83.0	227	28.5	10.4	315	2.98	10.7	0.7	1.6	2.1	78.1	0.09	0.66	0.35	9	1.27	0.040
119927	Soil			0.39	23.90	21.61	86.9	199	22.6	8.5	339	2.48	8.2	0.6	1.7	1.4	137.7	0.12	0.36	0.28	10	2.11	0.058
119233	Soil			0.41	22.71	32.82	66.4	163	23.2	12.1	628	3.32	15.8	0.8	1.2	2.9	50.4	0.10	0.50	0.32	10	0.48	0.029
119234	Soil			0.55	26.68	27.96	86.5	192	30.7	10.8	301	3.11	13.4	0.4	0.9	3.6	47.8	0.09	0.35	0.33	8	0.65	0.024
119235	Soil			0.40	23.56	21.94	65.1	173	23.1	9.2	294	2.66	10.1	0.6	1.8	1.6	125.6	0.12	0.31	0.26	13	1.76	0.050
119236	Soil			0.45	23.30	23.74	77.9	162	27.2	10.0	247	2.87	12.2	0.6	1.4	2.7	75.3	0.09	0.35	0.30	12	1.14	0.036
119237	Soil			0.50	21.52	36.57	63.1	239	23.3	9.6	272	3.13	11.2	0.6	1.1	2.3	77.0	0.06	0.34	0.30	10	0.95	0.035
119238	Soil			0.42	21.08	26.98	69.8	151	21.9	8.8	338	2.60	11.3	0.7	1.1	1.8	112.6	0.10	0.34	0.25	12	1.54	0.047
120017	Soil			0.44	31.66	31.31	79.9	105	26.4	14.1	366	3.70	39.0	0.6	2.3	2.8	42.5	0.14	1.87	0.33	9	0.50	0.045
120018	Soil			0.81	35.20	45.04	97.6	249	30.7	18.7	606	4.12	11.9	0.5	1.6	4.0	76.4	0.14	0.42	0.37	17	0.68	0.051
120019	Soil			0.57	29.99	25.36	88.4	264	25.3	13.1	323	3.87	8.7	0.7	1.2	3.8	60.6	0.12	0.33	0.30	17	1.13	0.061
120020	Soil			0.53	32.54	27.18	84.3	227	27.4	12.6	289	3.56	13.0	0.7	2.2	2.5	77.1	0.13	0.71	0.29	14	1.39	0.082
120021	Soil			0.67	27.66	32.58	73.0	221	26.2	11.0	348	3.11	16.2	0.9	1.3	1.2	106.9	0.14	0.75	0.26	11	1.91	0.069
120022	Soil			0.73	18.42	29.47	57.0	197	19.6	7.0	159	2.59	13.4	1.0	1.2	0.9	137.1	0.10	0.62	0.25	9	2.43	0.078
120023	Soil			0.64	27.10	28.80	86.7	237	27.3	13.5	278	3.00	16.2	0.8	1.3	1.4	103.7	0.09	0.49	0.29	11	1.57	0.057
120024	Soil			0.62	29.48	31.73	91.0	226	30.2	12.2	305	3.38	12.7	0.7	0.9	1.5	86.4	0.09	0.39	0.30	11	1.39	0.053
120025	Soil			0.43	22.33	30.79	82.0	197	28.9	11.7	314	3.09	11.6	0.7	0.8	1.8	88.7	0.06	0.26	0.29	14	1.16	0.056
120026	Soil			0.38	27.02	27.94	80.6	193	27.7	9.6	256	3.16	8.7	0.7	0.8	2.7	73.3	0.07	0.27	0.30	13	1.14	0.057
120027	Soil			0.36	19.07	24.76	71.3	195	22.5	9.0	262	3.08	7.6	0.4	0.3	2.8	55.3	0.03	0.19	0.32	15	0.82	0.048
120028	Soil			0.35	19.55	20.35	70.1	265	21.4	6.5	176	2.57	6.9	0.3	0.6	1.9	66.4	0.05	0.30	0.27	10	0.89	0.048
120029	Soil			0.41	19.08	25.20	74.3	97	19.3	8.0	164	3.27	8.9	0.4	<0.2	2.5	18.7	0.10	0.24	0.31	16	0.14	0.026



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
119917	Soil	5.1	17.8	0.15	73.8	0.004	1	1.00	0.004	0.09	<0.1	2.9	0.10	0.04	46	0.4	0.03	3.7	3.77	<0.1	<0.02
119918	Soil	2.7	15.0	0.14	54.3	0.001	<1	1.05	0.003	0.07	<0.1	2.9	0.10	0.03	30	0.2	0.05	3.2	4.81	<0.1	<0.02
119919	Soil	5.4	16.8	0.28	147.9	0.002	3	0.91	0.005	0.10	<0.1	8.1	0.13	0.04	111	0.2	0.03	2.4	2.93	<0.1	0.03
119920	Soil	2.7	16.4	0.24	69.8	0.002	<1	1.15	0.002	0.09	<0.1	3.6	0.09	0.02	35	0.2	0.03	3.3	2.72	<0.1	0.02
119921	Soil	2.3	16.4	0.19	44.1	0.002	<1	1.19	0.001	0.08	<0.1	4.0	0.10	<0.02	42	0.2	0.03	4.0	3.88	<0.1	0.02
119922	Soil	6.8	8.5	0.15	146.3	0.001	4	0.58	0.003	0.07	<0.1	4.2	0.07	0.06	375	0.5	<0.02	1.4	1.09	<0.1	0.03
119923	Soil	7.4	6.2	0.07	147.2	<0.001	3	0.42	0.003	0.07	<0.1	4.7	0.14	0.03	723	0.5	<0.02	0.8	1.17	<0.1	0.05
119924	Soil	5.7	7.6	0.12	231.2	0.001	5	0.58	0.005	0.07	<0.1	2.9	0.11	0.08	536	0.6	0.03	1.3	0.68	<0.1	0.05
119925	Soil	4.1	6.1	0.09	143.5	<0.001	3	0.34	0.003	0.08	<0.1	4.4	0.13	0.05	630	0.6	0.03	0.7	1.57	<0.1	0.06
119926	Soil	5.3	10.0	0.16	139.2	0.001	5	0.63	0.005	0.09	<0.1	3.7	0.10	0.06	537	0.5	0.04	1.5	0.77	<0.1	0.04
119927	Soil	5.2	11.3	0.20	147.4	0.001	5	0.68	0.005	0.08	<0.1	3.0	0.11	0.08	335	0.5	0.03	1.7	0.86	<0.1	0.03
119233	Soil	7.4	10.0	0.12	225.2	<0.001	2	0.75	0.002	0.07	<0.1	4.4	0.12	0.02	572	0.4	0.03	1.6	0.68	<0.1	0.03
119234	Soil	7.3	9.7	0.13	113.8	0.001	4	0.60	0.003	0.08	<0.1	5.0	0.12	<0.02	379	0.4	0.03	1.4	1.00	<0.1	0.03
119235	Soil	5.8	12.2	0.22	234.6	0.002	3	0.77	0.005	0.07	<0.1	3.3	0.09	0.06	314	0.6	<0.02	1.9	0.76	<0.1	0.04
119236	Soil	6.2	13.4	0.23	122.5	0.002	4	0.83	0.003	0.07	<0.1	4.2	0.10	0.03	282	0.5	0.03	2.1	0.77	<0.1	0.04
119237	Soil	5.7	11.2	0.17	182.8	0.001	4	0.71	0.004	0.08	<0.1	4.0	0.11	0.04	298	0.5	0.02	1.8	1.11	<0.1	0.03
119238	Soil	5.8	12.1	0.22	128.1	0.002	5	0.69	0.004	0.08	<0.1	3.2	0.08	0.06	212	0.4	0.03	1.9	0.70	<0.1	0.04
120017	Soil	4.6	7.1	0.09	83.6	<0.001	2	0.41	0.003	0.07	<0.1	7.1	0.08	0.03	71	0.4	0.06	0.9	1.34	<0.1	0.05
120018	Soil	6.7	22.9	0.38	118.7	0.002	3	1.27	0.003	0.08	<0.1	9.1	0.12	0.04	248	0.3	0.07	3.5	4.34	<0.1	0.04
120019	Soil	5.5	17.8	0.27	103.9	0.001	2	1.02	0.006	0.07	<0.1	7.7	0.09	0.06	112	0.3	0.04	2.8	1.83	<0.1	0.05
120020	Soil	6.0	14.3	0.23	98.4	0.001	4	0.76	0.005	0.08	<0.1	5.8	0.08	0.05	184	0.5	0.06	2.1	1.42	<0.1	0.03
120021	Soil	6.6	10.4	0.12	114.7	0.001	3	0.47	0.007	0.06	<0.1	3.8	0.11	0.08	268	0.6	0.03	1.1	1.43	<0.1	0.06
120022	Soil	3.6	10.0	0.11	152.1	0.001	5	0.46	0.007	0.06	<0.1	3.0	0.09	0.12	235	0.5	<0.02	1.1	1.20	<0.1	0.03
120023	Soil	3.5	11.1	0.18	126.5	0.001	3	0.65	0.009	0.08	<0.1	4.4	0.08	0.07	181	0.4	0.04	1.4	2.01	<0.1	0.05
120024	Soil	4.4	11.6	0.20	130.7	0.001	4	0.69	0.005	0.09	<0.1	4.5	0.11	0.06	222	0.6	0.03	1.6	1.59	<0.1	0.03
120025	Soil	4.1	16.2	0.26	97.6	0.001	4	0.98	0.007	0.09	<0.1	4.3	0.12	0.07	104	0.5	0.04	2.4	2.77	<0.1	0.03
120026	Soil	4.3	15.3	0.28	146.2	<0.001	4	0.97	0.005	0.08	<0.1	4.6	0.11	0.06	90	0.5	<0.02	2.4	1.93	<0.1	0.04
120027	Soil	2.4	16.2	0.25	178.5	0.001	3	0.99	0.005	0.08	<0.1	4.7	0.13	0.04	106	0.3	0.04	2.6	1.98	<0.1	0.04
120028	Soil	2.6	12.2	0.24	118.3	0.001	3	0.78	0.004	0.08	<0.1	3.8	0.11	0.05	174	0.3	<0.02	2.2	2.31	<0.1	0.05
120029	Soil	2.7	14.9	0.22	67.8	0.001	1	0.95	0.004	0.10	<0.1	3.0	0.09	<0.02	46	0.2	0.04	2.9	1.97	<0.1	<0.02



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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 9 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
119917	Soil	0.26	11.2	8.5	<0.05	0.8	2.87	9.9	0.04	<1	0.6	18.7	<10	<2
119918	Soil	0.19	11.3	3.5	<0.05	1.1	1.85	5.2	0.05	<1	0.9	27.8	<10	<2
119919	Soil	0.07	8.0	3.9	<0.05	3.6	15.51	13.2	0.08	<1	1.2	30.4	<10	<2
119920	Soil	0.17	10.2	2.4	<0.05	0.7	3.91	6.4	0.06	<1	0.7	29.4	<10	<2
119921	Soil	0.22	12.2	2.5	<0.05	1.2	2.38	4.5	0.05	<1	0.7	27.4	<10	<2
119922	Soil	0.13	5.5	1.2	<0.05	1.4	13.12	16.1	0.05	<1	0.7	14.2	<10	<2
119923	Soil	0.08	5.3	2.6	<0.05	1.4	14.25	15.7	0.05	<1	0.8	4.7	<10	<2
119924	Soil	0.16	5.1	0.9	<0.05	1.7	10.62	12.9	0.04	<1	0.7	8.7	<10	<2
119925	Soil	0.06	5.9	4.3	<0.05	2.0	11.35	12.1	0.04	<1	0.7	5.3	<10	<2
119926	Soil	0.14	5.4	1.5	<0.05	1.8	10.03	14.7	0.03	<1	0.7	11.8	<10	<2
119927	Soil	0.20	6.8	1.7	<0.05	1.5	8.36	13.1	0.04	<1	0.7	15.0	<10	<2
119233	Soil	0.12	7.4	3.2	<0.05	0.9	10.59	23.0	0.05	<1	0.9	9.1	<10	<2
119234	Soil	0.09	7.2	2.6	<0.05	1.9	12.15	18.6	0.05	<1	0.9	8.5	<10	<2
119235	Soil	0.26	5.6	1.4	<0.05	1.3	8.20	14.0	0.03	<1	0.7	16.9	<10	<2
119236	Soil	0.20	6.2	1.3	<0.05	2.0	9.96	15.5	0.04	<1	0.7	19.1	<10	<2
119237	Soil	0.14	6.7	1.8	<0.05	1.5	9.23	16.0	0.04	1	0.6	13.8	<10	<2
119238	Soil	0.20	5.7	5.2	<0.05	1.3	8.10	14.0	0.02	<1	0.7	15.4	<10	<2
120017	Soil	0.08	5.7	1.3	<0.05	1.7	19.20	13.0	0.05	<1	0.9	4.1	<10	<2
120018	Soil	0.18	9.6	5.3	<0.05	1.5	19.36	21.5	0.07	<1	1.1	52.2	<10	<2
120019	Soil	0.19	7.4	1.5	<0.05	1.7	16.23	17.0	0.04	<1	1.0	34.3	<10	<2
120020	Soil	0.16	6.6	2.7	<0.05	1.4	15.01	15.9	0.05	<1	0.7	19.8	<10	<2
120021	Soil	0.14	6.1	6.4	<0.05	1.5	14.39	18.6	0.04	<1	0.7	7.7	<10	<2
120022	Soil	0.13	5.8	4.6	<0.05	1.4	7.65	10.1	0.05	<1	0.6	6.3	<10	<2
120023	Soil	0.18	7.8	2.5	<0.05	1.8	12.23	9.1	0.04	<1	0.7	14.5	<10	<2
120024	Soil	0.14	7.3	2.7	<0.05	1.2	11.39	11.7	0.03	<1	0.7	15.8	<10	<2
120025	Soil	0.19	9.2	2.3	<0.05	1.3	9.31	11.0	0.04	<1	0.8	33.6	<10	<2
120026	Soil	0.18	8.7	2.3	<0.05	2.2	11.66	10.1	0.05	<1	0.8	34.2	<10	<2
120027	Soil	0.17	9.4	1.0	<0.05	1.5	5.52	7.3	0.05	<1	1.0	29.4	<10	<2
120028	Soil	0.15	8.2	1.7	<0.05	1.4	7.00	6.7	0.03	<1	1.0	24.2	<10	<2
120029	Soil	0.19	9.9	1.2	<0.05	0.9	3.00	6.6	0.04	<1	0.4	22.9	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
120030	Soil			0.80	17.88	17.61	45.8	43	9.6	2.8	73	2.85	5.8	0.2	<0.2	1.7	3.2	0.07	0.29	0.29	32	<0.01	0.025
120031	Soil			0.66	23.08	23.09	67.7	223	18.7	7.5	141	3.03	8.9	0.4	0.2	2.0	11.2	0.16	0.29	0.27	22	0.05	0.034
120032	Soil			0.37	23.06	18.83	79.6	98	23.1	8.8	158	3.25	8.7	0.5	0.8	3.3	42.5	0.06	0.26	0.26	16	0.23	0.032
120523	Soil			0.37	15.90	25.26	66.7	178	17.0	8.2	400	2.76	8.4	0.6	0.5	1.6	87.9	0.09	0.14	0.31	13	0.91	0.061
120524	Soil			0.49	23.94	25.79	102.3	110	29.2	10.5	326	3.78	8.7	0.6	0.8	3.1	46.4	0.11	0.26	0.31	16	0.38	0.039
120525	Soil			0.49	30.68	24.87	87.7	76	29.5	11.9	261	3.70	12.8	0.6	0.9	4.4	48.7	0.06	0.39	0.32	20	0.48	0.028
120875	Soil			1.32	20.55	17.83	68.0	51	21.6	9.3	223	3.84	39.0	0.4	1.7	1.6	11.8	0.07	1.11	0.30	33	0.04	0.035
120876	Soil			0.82	18.42	14.33	51.4	88	14.8	5.9	191	2.22	72.6	0.4	5.2	0.2	10.6	0.08	0.89	0.24	21	0.03	0.069
120877	Soil			0.40	26.97	19.61	66.0	59	24.2	10.4	218	3.08	39.3	0.5	2.3	2.1	20.1	0.06	1.19	0.24	12	0.15	0.034
120878	Soil			0.52	22.54	26.18	66.4	34	20.8	13.1	953	2.94	55.4	0.4	15.7	2.1	18.5	0.10	0.85	0.26	18	0.12	0.040
120879	Soil			0.98	16.81	43.75	78.3	77	21.6	12.9	926	2.75	28.9	0.5	1.0	0.7	19.1	0.28	0.73	0.22	19	0.22	0.076
120880	Soil			0.69	18.73	45.23	68.9	59	18.0	8.2	225	2.52	287.9	0.4	31.6	1.7	20.1	0.11	1.12	0.22	16	0.10	0.038
120881	Soil			0.65	27.04	30.14	82.6	69	25.9	11.6	255	3.15	131.4	0.5	8.2	1.2	22.6	0.11	3.71	0.43	9	0.31	0.029
120882	Soil			0.60	29.28	21.13	80.3	54	29.3	12.8	315	3.88	32.0	0.8	27.9	2.2	12.5	0.09	1.40	0.34	22	0.06	0.034
120883	Soil			0.46	25.98	17.34	70.7	133	19.6	8.1	126	3.14	32.7	0.3	1.5	0.9	19.0	0.07	0.68	0.38	19	0.12	0.048
120884	Soil			0.60	30.61	42.59	68.4	207	22.4	12.6	820	4.32	14.3	0.4	1.1	2.0	15.9	0.08	0.28	0.44	23	0.10	0.058
120885	Soil			0.44	25.64	20.50	69.5	27	24.3	11.9	407	3.92	23.5	0.4	1.1	1.8	8.4	0.05	0.38	0.33	23	0.02	0.028
120886	Soil			0.52	30.59	20.49	68.4	91	26.5	14.5	644	3.50	22.5	1.5	1.9	1.4	67.6	0.11	0.44	0.29	19	0.85	0.060
120887	Soil			0.61	28.05	26.75	88.4	107	25.4	11.1	789	3.29	25.6	1.6	2.6	1.6	56.4	0.24	1.17	0.27	17	0.70	0.065
120888	Soil			0.96	19.22	23.04	57.8	37	15.4	13.6	410	3.98	26.3	0.4	0.5	1.0	37.3	0.07	0.42	0.33	30	0.29	0.047
120889	Soil			0.84	27.34	19.97	71.3	200	21.6	11.0	788	3.07	14.5	2.1	1.0	1.2	74.2	0.13	0.42	0.28	33	0.60	0.094
120890	Soil			0.77	44.16	48.43	103.9	224	49.5	27.0	557	4.75	18.0	0.4	1.5	3.5	48.3	0.10	0.46	0.32	18	1.04	0.029
120891	Soil			1.11	34.45	45.62	88.7	219	37.1	22.1	890	4.40	7.3	0.3	1.7	2.1	34.2	0.13	0.29	0.22	17	0.63	0.056
120892	Soil			0.74	32.10	36.73	94.3	330	32.9	19.9	478	3.94	14.3	0.4	3.0	2.7	144.2	0.13	0.85	0.31	16	1.26	0.055
120893	Soil			0.61	30.46	27.09	76.8	206	30.6	16.8	746	4.07	7.9	0.6	1.0	2.5	115.4	0.13	0.36	0.23	16	1.16	0.068
120894	Soil			0.65	29.82	25.00	94.5	189	27.9	12.8	304	3.91	12.8	0.5	2.6	3.0	58.9	0.13	0.63	0.30	16	0.81	0.050
120895	Soil			0.46	26.22	19.72	74.0	231	27.4	12.6	316	3.23	11.0	0.8	1.9	1.6	91.7	0.09	0.47	0.24	13	1.43	0.070
120896	Soil			0.46	26.67	22.62	64.0	219	26.3	11.4	380	2.92	11.8	1.1	2.1	0.8	105.6	0.07	0.45	0.26	12	1.76	0.060
120897	Soil			0.41	23.30	24.48	90.2	192	29.5	10.4	246	3.22	9.5	0.7	1.2	1.7	73.6	0.06	0.31	0.28	12	0.93	0.045
120898	Soil			0.37	20.63	21.34	82.2	158	23.9	9.1	259	2.67	7.4	0.7	0.9	1.3	83.4	0.06	0.23	0.26	11	1.18	0.048



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
120030	Soil	4.7	9.4	0.03	28.5	0.002	1	0.70	0.002	0.06	<0.1	1.8	0.10	<0.02	9	0.2	0.04	4.1	2.30	<0.1	<0.02
120031	Soil	4.7	14.9	0.16	70.0	0.002	2	1.03	0.003	0.08	<0.1	2.4	0.10	<0.02	28	0.2	0.05	3.6	2.15	<0.1	<0.02
120032	Soil	5.1	16.7	0.31	72.4	0.003	2	1.04	0.003	0.08	<0.1	3.7	0.07	<0.02	76	0.3	0.05	2.8	1.67	<0.1	0.03
120523	Soil	3.5	14.4	0.23	112.0	0.001	4	0.92	0.006	0.09	<0.1	3.7	0.10	0.06	115	0.3	<0.02	2.7	1.43	<0.1	<0.02
120524	Soil	3.4	17.9	0.30	83.2	0.002	3	1.14	0.004	0.11	<0.1	4.1	0.12	0.03	68	0.2	<0.02	3.2	2.08	<0.1	<0.02
120525	Soil	5.3	23.2	0.43	82.4	0.002	3	1.38	0.004	0.10	<0.1	4.9	0.09	<0.02	75	0.3	0.05	4.1	1.72	<0.1	0.05
120875	Soil	6.6	19.9	0.26	78.6	0.004	1	1.45	0.002	0.06	<0.1	2.1	0.16	<0.02	33	0.2	0.04	4.3	2.32	<0.1	<0.02
120876	Soil	5.3	11.3	0.05	56.4	0.002	<1	0.64	0.004	0.07	<0.1	0.7	0.12	0.04	44	0.2	0.03	2.9	3.35	<0.1	<0.02
120877	Soil	5.7	10.1	0.09	73.6	<0.001	1	0.39	0.002	0.08	<0.1	3.2	0.07	<0.02	74	0.1	<0.02	1.3	2.36	<0.1	<0.02
120878	Soil	7.0	12.9	0.12	79.9	0.002	2	0.70	0.002	0.10	<0.1	2.4	0.09	0.02	69	0.2	0.03	2.3	4.73	<0.1	<0.02
120879	Soil	5.7	17.2	0.08	130.9	0.002	1	0.70	0.004	0.10	<0.1	1.4	0.08	0.04	61	0.2	0.02	2.5	2.76	<0.1	<0.02
120880	Soil	5.6	13.2	0.06	103.0	0.001	<1	0.62	0.002	0.08	<0.1	1.7	0.10	0.02	208	0.1	0.02	2.2	4.65	<0.1	<0.02
120881	Soil	2.4	7.4	0.04	54.8	<0.001	3	0.40	0.002	0.08	<0.1	3.6	0.19	0.02	569	0.2	0.06	1.0	3.32	<0.1	0.05
120882	Soil	6.2	23.7	0.29	62.2	0.002	3	1.30	<0.001	0.09	<0.1	2.8	0.11	<0.02	120	0.3	0.03	3.3	4.75	<0.1	0.03
120883	Soil	3.9	17.4	0.30	53.1	0.002	3	1.13	0.001	0.10	<0.1	1.3	0.08	<0.02	31	0.1	0.06	3.6	6.89	<0.1	<0.02
120884	Soil	2.5	21.5	0.45	102.8	0.001	2	1.57	<0.001	0.08	<0.1	2.3	0.11	0.03	58	0.1	0.06	3.9	8.79	<0.1	0.03
120885	Soil	2.6	18.0	0.30	77.7	0.001	3	1.43	<0.001	0.06	<0.1	2.9	0.11	<0.02	28	<0.1	0.05	3.7	2.28	<0.1	0.03
120886	Soil	6.8	17.8	0.37	121.3	0.002	4	1.12	0.003	0.09	<0.1	4.8	0.07	0.06	123	0.3	0.04	3.2	1.27	<0.1	0.05
120887	Soil	7.5	18.2	0.23	108.9	0.002	3	0.85	0.003	0.08	<0.1	4.3	0.08	0.05	155	0.4	0.04	2.4	1.50	<0.1	0.05
120888	Soil	2.8	17.5	0.18	92.1	0.002	2	1.10	0.002	0.10	<0.1	2.0	0.08	0.03	35	0.1	0.04	4.9	3.76	<0.1	<0.02
120889	Soil	6.4	25.3	0.42	126.8	0.005	3	1.56	0.004	0.08	<0.1	2.6	0.12	0.05	43	0.2	0.03	4.7	3.89	<0.1	0.04
120890	Soil	4.1	23.4	0.38	160.1	0.002	4	1.26	0.002	0.10	<0.1	7.7	0.15	0.04	136	0.4	0.06	4.0	6.33	<0.1	0.06
120891	Soil	2.8	25.8	0.34	180.5	0.003	4	1.15	0.003	0.08	<0.1	6.7	0.13	0.06	157	0.3	0.04	3.9	6.14	<0.1	0.03
120892	Soil	4.5	17.9	0.31	120.5	0.002	5	1.17	0.004	0.09	<0.1	6.9	0.13	0.05	121	0.5	0.05	3.3	2.00	<0.1	0.07
120893	Soil	4.9	20.6	0.30	159.6	0.002	5	1.13	0.003	0.08	<0.1	7.5	0.11	0.08	130	0.3	0.04	3.5	3.22	<0.1	0.05
120894	Soil	4.7	17.3	0.32	84.0	0.002	4	1.03	0.003	0.07	<0.1	6.8	0.09	0.05	85	0.3	0.03	3.0	2.32	<0.1	0.06
120895	Soil	4.2	12.4	0.23	106.4	0.001	4	0.74	0.004	0.06	<0.1	4.3	0.09	0.08	202	0.5	0.04	2.1	1.47	<0.1	0.04
120896	Soil	4.9	10.5	0.17	130.1	<0.001	3	0.73	0.005	0.05	<0.1	3.0	0.11	0.09	202	0.5	0.05	1.7	1.39	<0.1	0.03
120897	Soil	2.8	12.5	0.21	104.4	0.001	4	0.88	0.004	0.07	<0.1	3.8	0.10	0.06	146	0.4	0.04	2.1	2.26	<0.1	0.04
120898	Soil	3.1	11.7	0.21	103.0	0.001	4	0.80	0.003	0.08	<0.1	3.1	0.09	0.07	163	0.5	0.03	1.9	1.47	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 10 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
120030	Soil	0.19	8.7	1.2	<0.05	0.3	0.91	9.2	0.03	<1	0.2	2.5	<10	<2
120031	Soil	0.24	11.0	1.8	<0.05	0.3	4.00	10.5	0.03	<1	0.5	16.9	<10	<2
120032	Soil	0.17	7.6	0.7	<0.05	1.1	6.37	11.6	0.04	<1	0.7	36.2	<10	<2
120523	Soil	0.23	10.9	1.4	<0.05	1.0	5.57	9.5	0.04	<1	0.9	23.4	<10	<2
120524	Soil	0.16	9.1	1.5	<0.05	1.0	5.18	8.6	0.04	<1	0.8	35.9	<10	<2
120525	Soil	0.25	8.6	2.2	<0.05	2.0	7.67	12.9	0.04	<1	1.0	44.9	<10	<2
120875	Soil	0.61	12.1	0.8	<0.05	0.3	2.30	13.3	0.03	<1	0.3	16.5	<10	<2
120876	Soil	0.17	13.4	1.4	<0.05	0.2	1.66	10.3	0.02	<1	0.3	2.1	<10	<2
120877	Soil	0.07	6.4	1.7	<0.05	0.5	3.88	14.7	0.04	<1	1.1	3.6	<10	<2
120878	Soil	0.12	10.0	1.3	<0.05	0.3	3.40	15.6	0.03	<1	0.6	12.5	<10	<2
120879	Soil	0.18	13.4	4.8	<0.05	0.2	3.21	12.8	0.03	<1	0.5	10.1	<10	<2
120880	Soil	0.16	10.9	2.4	<0.05	0.3	2.03	11.7	<0.02	<1	0.6	11.1	<10	<2
120881	Soil	0.05	6.3	2.9	<0.05	1.5	5.10	6.9	0.06	<1	2.0	2.5	<10	<2
120882	Soil	0.16	8.5	1.4	<0.05	1.0	4.84	20.7	0.05	<1	1.3	29.0	<10	<2
120883	Soil	0.19	11.5	2.0	<0.05	0.2	2.03	9.6	0.02	<1	0.8	23.0	<10	<2
120884	Soil	0.13	9.5	2.2	<0.05	0.9	5.28	10.5	0.03	<1	1.5	46.0	<10	<2
120885	Soil	0.15	9.6	6.8	<0.05	0.7	3.62	10.4	0.04	<1	1.1	28.6	<10	<2
120886	Soil	0.21	8.1	1.3	<0.05	1.4	12.81	16.3	0.04	<1	1.2	21.1	<10	<2
120887	Soil	0.16	6.9	4.5	<0.05	1.2	11.53	19.7	0.03	<1	1.0	13.0	<10	<2
120888	Soil	0.38	12.5	3.3	<0.05	0.4	2.60	7.2	0.03	<1	0.8	17.1	<10	<2
120889	Soil	0.55	14.3	3.1	<0.05	1.0	7.39	16.8	0.03	<1	1.1	27.9	<10	<2
120890	Soil	0.12	9.6	4.0	<0.05	2.3	13.49	16.4	0.06	<1	1.2	38.1	<10	<2
120891	Soil	0.20	7.9	10.6	<0.05	1.3	8.78	12.8	0.05	<1	1.0	37.5	<10	<2
120892	Soil	0.17	6.7	1.4	<0.05	2.3	17.19	16.4	0.05	<1	1.1	31.9	<10	<2
120893	Soil	0.20	7.4	2.5	<0.05	1.5	18.76	20.9	0.05	<1	1.0	34.7	<10	<2
120894	Soil	0.16	6.6	3.8	<0.05	1.9	16.44	15.7	0.05	<1	1.0	31.8	<10	<2
120895	Soil	0.15	6.3	1.1	<0.05	1.5	12.99	14.9	0.04	<1	0.9	16.8	<10	<2
120896	Soil	0.17	7.7	1.1	<0.05	1.1	14.37	15.9	0.03	<1	0.8	11.7	<10	<2
120897	Soil	0.14	8.3	0.7	<0.05	1.8	7.91	8.4	0.04	<1	0.8	22.3	<10	<2
120898	Soil	0.15	7.9	1.2	<0.05	1.3	8.58	9.9	0.04	<1	0.9	20.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
120899	Soil			0.25	14.41	17.12	58.4	34	18.9	7.5	104	2.38	5.1	0.3	0.7	1.7	48.4	0.12	0.15	0.21	13	0.40	0.035
120900	Soil			0.35	18.52	18.33	50.7	115	19.5	6.6	162	2.37	6.7	0.5	0.8	1.4	106.9	0.07	0.16	0.27	14	1.18	0.056
1096018	Soil			0.80	36.32	46.56	114.8	268	29.5	26.3	1579	4.43	9.4	0.8	1.6	3.4	66.3	0.25	0.51	0.38	18	0.84	0.095
1096019	Soil			0.98	21.13	22.79	69.5	68	23.0	11.5	482	4.17	19.0	0.3	0.7	1.2	24.8	0.08	0.80	0.27	23	0.25	0.058
1096020	Soil			0.49	30.64	25.01	70.7	52	30.4	16.2	449	4.77	6.6	0.3	0.5	1.6	9.8	0.05	0.27	0.26	18	0.09	0.055
1096021	Soil			0.82	29.52	28.40	80.3	140	32.3	15.0	561	3.83	15.5	0.6	3.4	2.9	50.3	0.11	0.61	0.28	18	0.46	0.056
1096022	Soil			0.59	24.43	21.68	77.8	29	24.3	13.5	653	3.96	8.4	0.7	0.5	3.2	59.3	0.13	0.35	0.27	19	0.34	0.046
1096023	Soil			0.67	23.79	25.73	79.4	110	24.1	13.2	574	3.55	8.8	0.6	0.7	1.2	99.7	0.25	0.43	0.28	19	0.92	0.086
1096024	Soil			0.68	19.21	13.15	60.3	146	17.5	6.6	153	2.64	117.5	0.6	6.1	0.5	17.4	0.13	1.16	0.23	19	0.15	0.068
1096025	Soil			0.50	9.67	19.66	47.0	44	13.7	8.0	352	2.11	39.9	0.3	8.2	1.4	12.9	0.07	0.54	0.15	16	0.11	0.029
1096026	Soil			0.81	20.45	25.94	75.4	129	18.1	11.2	541	2.89	71.5	0.5	5.8	0.8	15.1	0.20	0.93	0.28	24	0.08	0.044
1096027	Soil			0.88	16.98	32.01	90.2	103	19.3	8.6	461	2.42	372.1	0.4	66.9	0.2	13.3	0.41	1.08	0.23	16	0.10	0.061
1096028	Soil			0.50	7.96	25.27	37.0	40	8.1	4.5	293	1.81	32.0	0.2	1.2	1.1	9.1	0.18	1.06	0.16	10	0.07	0.037
1096029	Soil			0.85	27.69	27.57	192.1	153	26.5	16.2	1206	3.00	27.8	0.4	1.5	0.6	32.6	1.62	1.36	0.32	18	0.46	0.094
1096030	Soil			0.53	23.94	40.12	75.1	52	16.4	9.6	285	3.84	13.5	0.2	0.4	0.6	27.2	0.12	0.35	0.33	24	0.14	0.060
1096031	Soil			0.45	15.25	13.34	73.2	155	15.3	8.1	371	3.37	24.8	0.3	0.4	1.0	12.3	0.15	0.27	0.28	26	0.07	0.042
1096032	Soil			0.58	11.92	13.47	61.9	193	12.7	6.9	339	3.11	19.0	0.3	0.3	1.6	10.7	0.14	0.32	0.27	33	0.05	0.028
1096033	Soil			0.47	12.76	12.11	76.5	48	11.1	7.6	609	2.30	15.3	0.3	0.2	0.6	20.7	0.15	0.22	0.28	30	0.13	0.041
1096034	Soil			0.70	25.96	27.13	66.6	208	24.4	13.9	888	4.10	11.8	1.8	2.4	1.6	56.1	0.33	0.45	0.35	24	1.04	0.112
1096035	Soil			1.40	27.34	51.54	134.7	80	28.3	15.6	514	6.03	25.5	0.5	1.8	1.2	20.8	0.24	1.37	0.52	29	0.19	0.065
1096036	Soil			0.75	22.99	33.20	78.2	104	32.0	16.8	274	3.41	26.7	0.6	1.4	2.0	27.6	0.12	0.64	0.36	13	0.31	0.037
1096037	Soil			1.08	30.18	51.97	82.1	177	34.0	24.0	879	3.69	17.5	1.1	2.1	2.4	64.5	0.11	0.84	0.32	10	0.81	0.063
1096038	Soil			0.53	31.60	31.29	68.4	235	27.6	11.9	362	2.74	9.9	1.1	1.2	0.9	112.4	0.10	0.48	0.29	10	2.03	0.069
1096039	Soil			0.63	27.09	34.64	107.9	100	31.8	14.4	473	3.90	13.7	0.7	0.9	2.8	19.1	0.18	0.34	0.36	18	0.24	0.057
1096040	Soil			0.58	35.40	40.76	122.0	322	39.2	16.0	516	4.04	11.0	0.8	1.0	3.5	73.0	0.13	0.33	0.42	13	0.93	0.046
1096041	Soil			0.34	29.24	27.16	84.7	170	29.9	10.5	212	3.00	7.6	0.8	0.5	2.8	74.5	0.08	0.27	0.36	12	1.08	0.051
1096042	Soil			0.54	29.08	21.59	109.6	206	33.8	10.7	177	2.96	8.1	0.6	1.2	3.9	30.6	0.14	0.25	0.33	11	0.36	0.031
1096043	Soil			0.44	26.36	27.62	90.1	263	29.8	10.6	216	2.87	6.9	0.6	1.3	3.3	56.1	0.07	0.22	0.36	11	0.85	0.040
1096044	Soil			0.31	20.84	26.18	71.1	119	24.2	9.1	236	2.78	7.2	0.5	0.7	2.8	32.9	0.06	0.22	0.34	11	0.45	0.036
1096045	Soil			0.37	24.57	29.99	69.1	208	27.0	10.4	246	3.03	7.5	0.5	0.6	2.6	46.7	0.06	0.32	0.38	9	0.66	0.039



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
120899	Soil	2.7	13.0	0.22	76.8	<0.001	5	1.05	0.003	0.07	<0.1	3.1	0.11	0.07	92	0.4	0.02	2.5	1.65	<0.1	0.04
120900	Soil	2.9	13.9	0.22	126.4	<0.001	3	0.94	0.005	0.08	<0.1	2.9	0.11	0.08	85	0.3	0.03	2.7	1.63	<0.1	0.03
1096018	Soil	6.3	21.0	0.30	104.8	0.002	4	1.42	0.003	0.10	<0.1	10.5	0.14	0.07	101	0.3	0.08	3.8	4.98	<0.1	0.06
1096019	Soil	3.5	18.5	0.22	122.4	0.004	1	1.02	0.001	0.08	<0.1	2.2	0.07	0.03	19	0.2	0.04	3.1	1.36	<0.1	<0.02
1096020	Soil	2.3	18.1	0.24	60.8	0.002	2	1.04	<0.001	0.08	<0.1	4.0	0.08	<0.02	130	0.2	0.04	3.3	3.64	<0.1	0.02
1096021	Soil	7.7	21.7	0.26	124.4	0.002	2	1.07	0.002	0.09	<0.1	6.1	0.10	0.04	122	0.3	0.04	3.0	2.67	<0.1	0.05
1096022	Soil	9.7	14.4	0.18	88.3	0.002	2	0.93	0.002	0.08	<0.1	6.9	0.09	0.02	30	0.2	0.03	2.4	2.03	<0.1	0.04
1096023	Soil	6.2	17.5	0.24	105.7	0.003	3	1.05	0.003	0.09	<0.1	4.6	0.09	0.05	56	0.3	0.04	2.9	3.52	<0.1	0.02
1096024	Soil	4.4	9.9	0.07	82.6	0.002	2	0.49	0.003	0.11	<0.1	1.4	0.08	0.05	54	0.2	0.06	2.4	5.31	<0.1	<0.02
1096025	Soil	4.2	10.1	0.08	116.6	0.002	2	0.72	0.002	0.09	<0.1	1.4	0.09	<0.02	17	<0.1	0.02	2.3	5.41	<0.1	<0.02
1096026	Soil	5.7	13.3	0.10	98.8	0.003	2	0.86	0.003	0.13	<0.1	1.5	0.11	0.03	47	0.2	0.06	3.1	3.15	<0.1	<0.02
1096027	Soil	4.2	13.9	0.05	92.5	0.003	1	0.54	0.002	0.10	<0.1	0.9	0.08	0.04	76	0.2	0.05	2.3	3.20	<0.1	<0.02
1096028	Soil	3.4	6.3	0.05	47.6	0.002	1	0.39	0.002	0.09	<0.1	1.1	0.05	0.02	157	0.2	0.02	1.4	2.12	<0.1	<0.02
1096029	Soil	4.7	12.4	0.08	118.7	0.003	2	0.50	0.004	0.13	<0.1	2.4	0.09	0.05	98	0.2	0.06	2.1	3.55	<0.1	<0.02
1096030	Soil	2.6	17.3	0.27	112.6	0.003	2	1.06	0.001	0.12	<0.1	1.9	0.05	0.03	16	0.2	0.06	4.3	4.20	<0.1	<0.02
1096031	Soil	3.2	17.1	0.26	74.3	0.004	1	1.04	0.001	0.10	<0.1	1.7	0.06	<0.02	28	0.1	0.05	4.1	1.96	<0.1	<0.02
1096032	Soil	5.5	16.0	0.18	86.3	0.003	<1	1.12	<0.001	0.08	<0.1	1.6	0.09	<0.02	15	0.1	0.04	4.8	1.75	<0.1	<0.02
1096033	Soil	5.4	13.3	0.16	137.6	0.007	2	0.90	0.002	0.09	<0.1	1.3	0.09	<0.02	17	0.1	0.04	4.6	1.71	<0.1	<0.02
1096034	Soil	9.3	15.3	0.14	221.0	0.004	2	0.98	0.003	0.06	<0.1	3.7	0.08	0.08	52	0.3	0.07	2.8	1.46	<0.1	0.04
1096035	Soil	3.6	19.7	0.16	114.6	0.003	2	1.10	0.002	0.07	<0.1	2.4	0.10	0.02	30	0.2	0.05	4.1	3.41	<0.1	<0.02
1096036	Soil	3.5	11.5	0.11	116.4	0.002	3	0.57	0.003	0.07	<0.1	3.5	0.07	0.03	61	0.2	0.05	1.5	1.63	<0.1	0.02
1096037	Soil	3.6	12.5	0.11	173.3	0.003	4	0.43	0.006	0.07	<0.1	5.5	0.09	0.07	135	0.5	<0.02	1.1	1.92	<0.1	0.05
1096038	Soil	4.5	9.9	0.25	158.5	0.002	5	0.60	0.005	0.05	<0.1	3.2	0.08	0.08	218	0.5	<0.02	1.2	1.48	<0.1	0.04
1096039	Soil	3.4	15.7	0.15	88.3	0.002	3	0.99	0.002	0.07	<0.1	3.2	0.11	0.03	35	0.3	0.02	2.8	3.88	<0.1	<0.02
1096040	Soil	5.4	12.8	0.17	179.6	0.002	5	0.77	0.003	0.07	<0.1	5.8	0.16	0.05	127	0.6	<0.02	1.9	2.47	<0.1	0.03
1096041	Soil	3.6	14.4	0.25	178.4	0.002	5	0.84	0.003	0.07	<0.1	4.8	0.11	0.06	90	0.3	0.04	2.3	2.21	<0.1	0.04
1096042	Soil	3.3	15.3	0.25	113.1	0.002	3	0.87	0.002	0.07	<0.1	4.5	0.10	0.02	96	0.3	<0.02	2.5	3.11	<0.1	0.03
1096043	Soil	3.6	14.5	0.26	145.3	0.002	5	0.91	0.003	0.09	<0.1	5.1	0.12	0.03	178	0.6	<0.02	2.6	2.96	<0.1	0.07
1096044	Soil	2.7	14.0	0.24	119.0	0.001	4	0.87	0.002	0.09	<0.1	4.7	0.09	0.03	108	0.2	<0.02	2.5	2.37	<0.1	0.03
1096045	Soil	3.6	11.2	0.18	89.5	0.001	5	0.73	0.003	0.09	<0.1	5.2	0.11	0.05	169	0.3	0.03	1.9	2.47	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 11 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
120899	Soil	0.17	9.2	0.6	<0.05	1.5	7.12	9.1	0.04	<1	0.9	23.5	<10	<2
120900	Soil	0.18	11.0	1.0	<0.05	1.0	5.94	8.5	0.03	<1	0.7	22.2	<10	<2
1096018	Soil	0.16	10.5	2.4	<0.05	1.6	30.90	35.5	0.06	<1	1.5	36.4	<10	<2
1096019	Soil	0.24	11.5	2.1	<0.05	0.3	4.32	16.9	0.04	<1	0.7	16.7	<10	<2
1096020	Soil	0.12	7.4	1.0	<0.05	0.5	4.52	9.8	0.05	<1	1.1	25.1	<10	<2
1096021	Soil	0.19	8.5	4.7	<0.05	1.3	16.31	29.3	0.05	<1	1.0	22.9	<10	<2
1096022	Soil	0.13	9.8	0.9	<0.05	1.2	19.77	37.0	0.05	<1	1.1	12.4	<10	<2
1096023	Soil	0.24	12.6	3.0	<0.05	0.6	16.71	26.1	0.05	<1	1.0	19.3	<10	<2
1096024	Soil	0.19	11.8	2.0	<0.05	0.3	3.27	11.5	0.03	<1	0.7	2.3	<10	<2
1096025	Soil	0.18	13.2	1.8	<0.05	0.4	1.98	10.7	0.02	<1	0.4	5.7	<10	<2
1096026	Soil	0.26	12.6	2.9	<0.05	0.1	2.59	14.6	0.03	<1	0.6	8.2	<10	<2
1096027	Soil	0.15	12.8	6.3	<0.05	0.1	2.11	10.6	0.03	<1	0.6	4.0	<10	<2
1096028	Soil	0.16	6.1	4.4	<0.05	0.2	0.97	8.3	<0.02	<1	0.2	3.7	<10	<2
1096029	Soil	0.20	14.8	4.5	<0.05	0.3	5.32	12.1	0.03	<1	0.7	2.6	<10	<2
1096030	Soil	0.24	21.6	1.2	<0.05	0.2	1.79	5.8	0.02	<1	0.6	20.9	<10	<2
1096031	Soil	0.27	13.9	1.8	<0.05	0.1	1.89	7.8	0.03	<1	0.5	18.1	<10	<2
1096032	Soil	0.35	13.5	1.0	<0.05	0.2	2.58	12.8	0.02	<1	0.5	17.0	<10	<2
1096033	Soil	0.41	15.0	1.3	<0.05	<0.1	1.63	12.5	0.03	<1	0.3	8.8	<10	<2
1096034	Soil	0.28	11.6	0.9	<0.05	0.8	14.00	24.5	0.06	<1	1.2	12.8	<10	<2
1096035	Soil	0.41	13.5	3.7	<0.05	0.4	3.43	7.7	0.03	<1	0.8	31.1	<10	<2
1096036	Soil	0.18	8.6	5.5	<0.05	0.9	5.13	9.5	0.04	<1	0.8	9.5	<10	<2
1096037	Soil	0.14	7.9	8.9	<0.05	1.8	12.24	11.6	<0.02	<1	0.6	7.5	<10	<2
1096038	Soil	0.11	6.0	2.4	<0.05	1.3	12.77	11.0	0.03	3	0.9	15.0	<10	<2
1096039	Soil	0.18	11.2	3.1	<0.05	0.9	4.33	11.7	0.03	<1	0.8	31.3	<10	<2
1096040	Soil	0.14	9.3	2.2	<0.05	1.7	13.16	13.5	0.04	<1	1.0	24.3	<10	<2
1096041	Soil	0.17	8.1	1.1	<0.05	1.9	9.91	8.7	0.04	1	1.0	34.2	<10	<2
1096042	Soil	0.14	7.5	1.5	<0.05	1.7	7.31	9.4	0.04	<1	1.0	33.6	<10	<2
1096043	Soil	0.19	8.5	2.1	<0.05	2.1	8.18	9.5	0.04	<1	0.9	37.5	<10	<2
1096044	Soil	0.14	8.9	1.4	<0.05	1.2	6.29	7.3	0.04	<1	1.0	30.3	<10	<2
1096045	Soil	0.11	8.7	2.0	<0.05	1.4	8.91	8.2	0.04	<1	1.0	22.5	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1096046	Soil	0.43	23.63	26.95	74.6	95	27.4	12.4	309	3.26	9.1	0.6	0.7	3.2	31.2	0.07	0.33	0.40	13	0.36	0.035
1096047	Soil	0.38	24.25	29.43	64.8	173	21.8	7.6	207	2.54	7.6	0.6	0.8	1.4	199.3	0.07	0.36	0.33	8	1.18	0.046
1096048	Soil	0.45	28.27	24.74	93.4	68	28.1	13.4	378	3.28	13.4	0.5	0.7	2.3	49.0	0.05	0.33	0.36	15	0.42	0.037
1096049	Soil	0.41	34.59	23.14	63.0	212	30.2	9.8	447	2.46	7.6	1.3	1.3	1.3	188.0	0.20	0.28	0.29	14	1.57	0.063
118154	Soil	0.54	19.67	16.84	81.8	94	21.0	9.2	314	3.28	27.6	0.4	<0.2	1.2	29.7	0.11	0.49	0.33	27	0.11	0.050
118155	Soil	0.77	38.57	38.02	96.2	168	34.6	15.8	478	4.77	37.6	0.4	0.6	0.3	24.2	0.24	2.33	0.49	17	0.08	0.090
118156	Soil	0.44	20.35	20.04	49.1	33	13.8	6.1	78	2.03	306.4	0.3	1.2	0.8	24.7	0.05	1.84	0.28	16	0.18	0.039
118157	Soil	0.76	17.60	31.99	77.7	47	16.6	13.8	844	3.02	82.4	0.5	3.9	2.3	13.7	0.21	0.69	0.33	27	0.08	0.038
118158	Soil	0.55	16.54	29.24	79.2	73	16.2	11.5	501	2.62	68.3	0.4	0.7	1.5	19.7	0.32	0.66	0.27	17	0.14	0.062
118159	Soil	0.64	19.58	30.14	79.7	40	16.7	11.9	523	3.00	167.6	0.5	2.4	2.8	13.7	0.12	0.84	0.31	24	0.09	0.031
118160	Soil	0.54	16.04	24.77	58.2	39	17.5	11.4	555	2.34	57.7	0.4	2.8	1.9	14.7	0.10	0.82	0.23	17	0.16	0.036
118161	Soil	0.69	21.25	29.07	84.0	118	19.1	10.4	457	2.67	107.9	0.6	10.4	0.9	19.7	0.16	1.16	0.31	22	0.14	0.047
118162	Soil	0.74	39.74	30.80	95.1	117	30.9	18.4	985	3.95	9.9	0.5	1.0	2.9	95.6	0.22	0.45	0.35	18	0.85	0.078
118163	Soil	0.74	34.24	32.45	87.2	135	29.5	18.5	1145	3.81	10.5	1.1	0.3	3.7	108.7	0.20	0.60	0.36	16	0.93	0.099
118164	Soil	0.81	32.58	24.77	82.9	177	25.5	12.8	524	4.28	19.5	0.9	0.6	3.8	20.5	0.17	1.21	0.36	14	0.12	0.065
118165	Soil	0.74	31.83	23.99	99.1	219	24.0	14.5	1268	3.01	16.7	0.5	0.6	0.3	25.8	0.58	1.01	0.38	22	0.26	0.091
118166	Soil	0.81	38.30	25.45	99.4	183	29.7	13.7	975	3.83	11.6	0.6	<0.2	1.2	79.6	0.55	0.66	0.35	23	0.70	0.088
118167	Soil	0.84	28.12	28.87	204.2	181	24.1	12.8	641	4.27	7.6	0.7	<0.2	2.0	68.3	0.57	0.42	0.39	23	0.71	0.118
118168	Soil	0.74	24.86	47.67	80.9	364	25.4	11.0	984	4.10	41.6	1.5	3.3	1.0	115.6	0.20	6.85	0.26	11	1.33	0.100
118169	Soil	1.04	24.05	28.30	73.8	61	20.9	12.0	228	3.58	15.9	0.3	1.0	0.4	8.2	0.19	0.63	0.35	32	0.04	0.071



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1096046	Soil	4.1	15.1	0.24	161.2	0.001	3	0.98	0.002	0.08	<0.1	4.2	0.07	<0.02	89	0.2	<0.02	2.6	1.56	<0.1	0.04
1096047	Soil	3.8	8.8	0.16	134.9	0.002	5	0.62	0.003	0.07	<0.1	3.4	0.08	0.07	232	0.4	0.02	1.5	1.21	<0.1	0.04
1096048	Soil	3.4	17.3	0.30	81.4	0.002	3	1.01	0.002	0.08	<0.1	3.3	0.08	0.02	47	0.1	0.04	3.1	2.96	<0.1	0.03
1096049	Soil	4.4	14.3	0.24	124.3	0.003	6	0.93	0.004	0.08	<0.1	3.0	0.09	0.09	125	0.4	<0.02	2.4	1.77	<0.1	0.04
118154	Soil	5.4	19.9	0.34	74.7	0.009	3	1.05	0.003	0.10	<0.1	2.2	0.07	0.02	37	0.2	0.02	3.9	1.75	<0.1	<0.02
118155	Soil	2.9	8.1	0.05	129.2	0.002	2	0.37	0.002	0.08	<0.1	1.4	0.12	0.04	365	0.3	0.03	1.6	5.66	<0.1	<0.02
118156	Soil	3.6	8.0	0.05	47.1	0.002	2	0.46	0.003	0.10	<0.1	1.2	0.15	0.05	230	0.2	0.03	2.3	1.71	<0.1	<0.02
118157	Soil	6.1	14.3	0.15	123.2	0.004	3	1.13	0.002	0.11	<0.1	2.1	0.11	<0.02	53	0.3	0.03	3.9	3.02	<0.1	<0.02
118158	Soil	4.5	10.3	0.10	160.2	0.004	3	0.76	0.003	0.11	<0.1	2.3	0.09	0.04	37	0.2	0.03	2.6	3.07	<0.1	0.02
118159	Soil	6.0	13.3	0.13	104.7	0.004	2	0.94	0.002	0.09	<0.1	2.1	0.15	<0.02	44	0.2	0.04	3.6	3.25	<0.1	<0.02
118160	Soil	5.5	10.9	0.12	120.8	0.004	3	0.70	0.002	0.11	<0.1	1.8	0.08	0.03	46	0.2	<0.02	2.3	2.71	<0.1	<0.02
118161	Soil	6.6	12.3	0.10	114.4	0.005	3	0.68	0.002	0.10	<0.1	1.6	0.10	0.03	32	0.1	0.05	2.9	3.70	<0.1	<0.02
118162	Soil	12.4	17.6	0.29	240.5	0.004	5	1.19	0.003	0.12	<0.1	7.5	0.10	0.06	59	<0.1	0.05	3.0	2.86	<0.1	0.05
118163	Soil	12.7	13.4	0.17	210.7	0.004	4	0.87	0.003	0.11	<0.1	8.1	0.09	0.08	56	0.3	0.05	2.1	1.67	<0.1	0.06
118164	Soil	10.3	10.5	0.09	108.8	0.002	2	0.62	0.002	0.08	<0.1	8.0	0.07	0.03	56	0.2	0.09	1.4	1.21	<0.1	0.03
118165	Soil	5.3	14.1	0.09	200.3	0.005	2	0.59	0.004	0.11	<0.1	1.5	0.08	0.06	54	0.2	0.04	3.0	2.30	<0.1	<0.02
118166	Soil	6.7	18.9	0.21	212.8	0.007	3	1.11	0.004	0.12	<0.1	3.8	0.08	0.06	40	0.2	<0.02	4.0	2.35	<0.1	<0.02
118167	Soil	6.4	19.4	0.24	164.5	0.006	3	1.16	0.002	0.09	<0.1	4.9	0.08	0.05	34	0.2	0.03	3.9	1.87	<0.1	<0.02
118168	Soil	14.2	7.8	0.05	123.5	0.002	2	0.57	0.004	0.05	<0.1	3.9	0.07	0.09	145	0.4	0.03	1.1	0.53	<0.1	<0.02
118169	Soil	4.4	14.8	0.06	93.3	0.005	2	0.78	0.002	0.06	<0.1	1.4	0.09	0.03	44	0.3	0.02	4.5	2.15	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 12, 2011

Page: 12 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001169.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1096046	Soil	0.12	8.2	1.4	<0.05	1.2	7.35	9.7	0.04	<1	0.9	30.6	<10	<2
1096047	Soil	0.15	7.0	2.6	<0.05	1.4	8.04	9.2	0.04	2	0.9	12.4	<10	<2
1096048	Soil	0.16	9.9	1.4	<0.05	1.1	4.01	7.5	0.03	<1	0.8	39.6	<10	<2
1096049	Soil	0.27	8.9	4.6	<0.05	1.5	8.20	9.9	0.03	<1	1.0	30.9	<10	<2
118154	Soil	0.38	14.3	1.7	<0.05	0.2	2.27	10.9	0.03	<1	0.6	26.9	<10	<2
118155	Soil	0.09	13.0	3.7	<0.05	<0.1	3.78	6.0	0.04	<1	0.5	2.0	<10	<2
118156	Soil	0.15	7.7	1.0	<0.05	<0.1	1.06	6.9	0.02	<1	0.4	6.0	<10	<2
118157	Soil	0.40	16.6	1.4	<0.05	0.4	2.14	12.8	0.02	<1	0.6	17.9	<10	<2
118158	Soil	0.29	14.9	1.8	<0.05	0.6	2.08	9.4	0.02	1	0.5	11.8	<10	<2
118159	Soil	0.32	14.8	1.6	<0.05	0.5	1.97	12.1	0.03	<1	0.6	18.1	<10	<2
118160	Soil	0.30	11.7	1.3	<0.05	0.5	2.35	12.4	0.04	<1	0.5	8.9	<10	<2
118161	Soil	0.30	13.3	7.8	<0.05	<0.1	2.54	13.8	0.03	<1	0.6	9.3	<10	<2
118162	Soil	0.20	10.4	1.0	<0.05	1.5	25.48	36.3	0.06	<1	1.2	30.2	<10	<2
118163	Soil	0.18	9.9	1.8	<0.05	1.9	27.76	43.1	0.05	<1	1.2	12.5	<10	<2
118164	Soil	0.13	7.7	1.4	<0.05	1.0	21.41	33.2	0.06	<1	1.3	5.7	<10	<2
118165	Soil	0.21	14.6	2.2	<0.05	<0.1	4.19	12.7	0.03	1	0.7	4.9	<10	<2
118166	Soil	0.40	18.2	1.3	<0.05	0.5	11.00	14.7	0.04	1	0.9	23.0	<10	<2
118167	Soil	0.30	16.5	1.4	<0.05	0.4	10.44	21.2	0.06	<1	1.2	23.9	<10	<2
118168	Soil	0.11	5.7	1.6	<0.05	0.6	23.14	32.2	0.04	<1	1.1	2.9	<10	<2
118169	Soil	0.34	9.4	7.0	<0.05	<0.1	2.31	8.7	<0.02	<1	0.3	5.5	<10	<2



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 12, 2011

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI11001169.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
1096004	Soil	0.75	52.03	66.63	151.9	351	55.9	29.0	548	5.50	31.5	0.7	2.2	3.8	50.6	0.11	0.63	0.50	21	0.66	0.057
REP 1096004	QC	0.74	53.34	66.93	152.5	357	56.7	28.7	551	5.46	32.2	0.7	2.4	3.8	51.8	0.10	0.66	0.52	21	0.65	0.057
612905	Soil	0.54	31.57	28.04	82.4	109	28.8	15.1	301	3.49	21.0	1.9	2.1	3.7	61.8	0.11	0.73	0.38	18	0.76	0.065
REP 612905	QC	0.51	31.05	26.67	81.1	106	29.6	14.8	289	3.41	19.9	1.9	1.9	3.7	58.1	0.10	0.66	0.37	17	0.74	0.057
612926	Soil	0.46	37.96	22.55	98.6	182	27.6	13.2	412	3.18	13.4	1.3	0.4	1.7	138.0	0.14	0.30	0.31	21	1.75	0.060
REP 612926	QC	0.39	34.95	21.42	92.3	175	26.6	12.5	386	2.98	12.6	1.2	0.7	1.8	130.2	0.13	0.30	0.30	19	1.63	0.057
612942	Soil	0.69	24.18	27.05	85.2	50	24.3	15.6	1420	4.15	29.4	0.9	<0.2	1.8	26.5	0.20	0.45	0.32	23	0.32	0.081
REP 612942	QC	0.72	23.49	27.30	87.5	50	23.8	15.6	1412	4.12	30.4	0.9	<0.2	1.5	27.5	0.23	0.46	0.31	23	0.31	0.083
612601	Soil	0.72	37.86	33.60	103.4	114	30.4	15.7	828	4.36	17.8	1.6	0.7	2.1	79.6	0.17	0.57	0.45	27	0.84	0.082
REP 612601	QC	0.73	35.76	32.78	97.9	111	29.5	15.2	789	4.14	17.2	1.5	0.7	2.1	75.9	0.17	0.51	0.44	25	0.80	0.076
612619	Soil	0.63	54.43	21.24	134.7	96	38.6	14.8	363	3.18	1009	1.1	5.6	3.1	91.5	0.23	1.49	0.31	13	2.00	0.101
REP 612619	QC	0.57	48.66	19.90	122.8	86	34.7	13.5	333	3.05	968.4	1.0	6.9	2.9	96.5	0.20	1.41	0.28	13	1.91	0.091
612553	Soil	0.55	34.55	22.27	82.4	52	27.5	12.3	246	3.47	12.3	0.4	0.7	1.6	11.0	0.08	1.79	0.33	18	0.05	0.053
REP 612553	QC	0.52	33.04	21.03	77.0	53	26.6	12.0	228	3.34	11.5	0.4	0.5	1.5	11.0	0.08	2.05	0.31	17	0.05	0.054
612568	Soil	0.57	29.88	25.36	79.6	199	25.9	11.9	499	3.68	18.6	1.1	1.9	2.8	72.3	0.14	0.52	0.26	19	0.94	0.052
REP 612568	QC	0.58	31.29	25.21	82.7	210	26.7	12.5	498	3.64	19.1	1.1	2.5	2.8	74.9	0.17	0.54	0.27	20	0.93	0.052
119794	Soil	1.09	27.55	36.28	187.9	198	23.3	13.7	412	4.29	15.7	0.4	0.7	1.2	25.9	0.47	0.59	0.45	30	0.05	0.085
REP 119794	QC	1.03	25.38	34.16	178.2	193	22.4	12.8	393	4.04	14.4	0.4	0.6	1.2	23.7	0.42	0.57	0.41	28	0.05	0.077
612576	Soil	0.83	26.50	34.72	78.1	66	22.7	12.1	497	3.56	87.0	0.6	1.0	1.7	17.9	0.12	0.97	0.38	26	0.12	0.044
REP 612576	QC	0.85	28.14	36.33	81.5	78	23.4	12.7	517	3.73	90.1	0.6	2.9	1.8	18.7	0.14	1.02	0.39	27	0.13	0.046
612595	Soil	0.98	27.79	50.05	136.7	154	31.4	11.6	371	2.64	10.4	1.6	1.9	1.3	73.0	0.22	0.85	0.34	12	2.38	0.110
REP 612595	QC	0.99	26.95	49.95	134.9	142	30.2	11.5	367	2.59	10.1	1.6	1.7	1.5	72.1	0.25	0.81	0.34	12	2.32	0.109
119909	Soil	0.85	40.01	33.14	95.3	177	26.9	15.4	1092	3.74	14.3	1.1	0.4	4.6	129.8	0.26	0.74	0.35	19	1.25	0.122
REP 119909	QC	0.85	40.18	32.62	93.6	179	27.0	15.2	1072	3.70	13.8	1.1	0.5	4.6	129.8	0.28	0.73	0.36	18	1.23	0.119
119924	Soil	0.39	21.29	23.23	62.4	228	22.8	8.3	224	2.53	7.1	0.6	1.8	1.2	179.1	0.10	0.28	0.26	7	2.27	0.051
REP 119924	QC	0.35	21.89	23.32	61.4	222	22.4	8.7	225	2.62	7.2	0.5	0.8	1.1	172.5	0.09	0.27	0.26	8	2.34	0.051
120032	Soil	0.37	23.06	18.83	79.6	98	23.1	8.8	158	3.25	8.7	0.5	0.8	3.3	42.5	0.06	0.26	0.26	16	0.23	0.032
REP 120032	QC	0.37	22.63	18.86	76.2	90	23.2	8.9	156	3.28	8.8	0.5	0.5	3.3	41.7	0.06	0.26	0.27	16	0.24	0.032

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: Radius Gold Inc.
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: September 12, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI11001169.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
1096004	Soil	8.1	24.5	0.45	142.0	0.002	3	1.56	0.003	0.10	<0.1	10.0	0.16	0.04	166	0.5	0.08	4.5	4.92	<0.1	0.05
REP 1096004	QC	8.6	24.7	0.46	147.0	0.002	4	1.56	0.003	0.11	<0.1	10.2	0.17	0.04	180	0.4	0.07	4.5	5.28	<0.1	0.07
612905	Soil	15.4	16.9	0.21	133.1	0.002	2	0.99	0.004	0.07	<0.1	7.1	0.13	0.04	242	0.3	0.07	2.1	2.24	<0.1	0.05
REP 612905	QC	14.7	15.7	0.20	120.8	0.002	2	0.95	0.004	0.06	<0.1	6.9	0.13	0.04	216	0.2	0.08	2.1	1.88	<0.1	0.05
612926	Soil	6.5	21.5	0.44	120.4	0.003	5	1.41	0.005	0.09	<0.1	5.3	0.10	0.08	122	0.5	0.05	4.4	1.89	<0.1	0.04
REP 612926	QC	6.1	20.6	0.40	113.9	0.003	4	1.35	0.004	0.08	<0.1	4.8	0.08	0.08	116	0.5	0.02	3.9	1.78	<0.1	0.04
612942	Soil	8.0	19.7	0.42	87.2	0.004	2	1.53	0.002	0.09	<0.1	3.2	0.07	0.05	36	0.2	0.07	3.7	2.24	<0.1	0.04
REP 612942	QC	8.2	20.0	0.41	92.2	0.004	2	1.51	0.003	0.09	<0.1	2.8	0.07	0.05	37	0.2	0.07	3.8	2.34	<0.1	0.03
612601	Soil	7.5	26.8	0.38	114.1	0.005	3	1.50	0.003	0.08	<0.1	4.4	0.11	0.05	53	0.5	0.06	4.2	2.94	<0.1	0.03
REP 612601	QC	7.0	24.9	0.36	107.3	0.005	3	1.40	0.002	0.07	<0.1	4.1	0.10	0.05	53	0.5	0.04	4.1	2.84	<0.1	0.03
612619	Soil	9.3	15.5	0.68	60.4	0.002	4	0.33	0.005	0.06	<0.1	7.4	3.61	0.08	1126	1.3	<0.02	1.0	1.94	<0.1	0.07
REP 612619	QC	8.6	14.2	0.65	57.2	0.001	3	0.31	0.005	0.06	<0.1	6.8	3.38	0.07	1047	1.4	<0.02	1.0	1.82	<0.1	0.06
612553	Soil	4.0	15.4	0.08	52.4	<0.001	3	0.48	0.002	0.06	<0.1	2.5	0.11	0.03	81	0.2	0.04	2.1	7.61	<0.1	<0.02
REP 612553	QC	3.9	14.9	0.08	51.1	<0.001	3	0.45	0.003	0.06	<0.1	2.4	0.10	0.03	72	0.2	0.04	2.0	6.88	<0.1	<0.02
612568	Soil	12.4	19.7	0.32	116.8	0.003	3	1.14	0.002	0.06	<0.1	6.8	0.10	0.03	142	0.6	0.06	3.2	1.25	<0.1	0.05
REP 612568	QC	12.6	19.7	0.32	119.4	0.003	3	1.18	0.002	0.07	<0.1	7.1	0.10	0.03	124	0.6	0.03	3.3	1.37	<0.1	0.04
119794	Soil	6.1	20.1	0.15	202.3	0.005	2	0.99	0.007	0.14	<0.1	1.9	0.08	0.05	35	0.2	0.03	4.1	2.11	<0.1	<0.02
REP 119794	QC	5.6	18.2	0.14	189.2	0.005	2	0.91	0.007	0.13	<0.1	1.7	0.07	0.05	33	0.2	0.03	3.9	1.99	<0.1	<0.02
612576	Soil	6.8	17.5	0.23	105.9	0.005	2	1.00	0.002	0.11	<0.1	2.4	0.08	<0.02	41	0.2	0.04	3.2	1.68	<0.1	<0.02
REP 612576	QC	7.0	17.3	0.23	109.9	0.005	2	1.06	0.002	0.11	<0.1	2.5	0.08	0.02	32	0.3	0.06	3.4	1.74	<0.1	<0.02
612595	Soil	16.7	13.0	0.26	97.5	0.005	5	0.58	0.006	0.12	<0.1	3.0	0.23	0.11	311	0.5	<0.02	1.3	3.76	<0.1	0.03
REP 612595	QC	16.7	12.4	0.25	99.6	0.004	6	0.56	0.006	0.11	<0.1	3.0	0.22	0.10	278	0.5	0.04	1.4	3.62	<0.1	0.02
119909	Soil	12.4	16.3	0.26	200.7	0.005	4	0.95	0.005	0.17	<0.1	9.9	0.10	0.10	64	0.4	0.05	2.6	2.16	<0.1	0.05
REP 119909	QC	12.2	15.7	0.25	195.6	0.004	3	0.92	0.004	0.16	<0.1	9.6	0.09	0.10	67	0.4	0.03	2.6	2.06	<0.1	0.06
119924	Soil	5.7	7.6	0.12	231.2	0.001	5	0.58	0.005	0.07	<0.1	2.9	0.11	0.08	536	0.6	0.03	1.3	0.68	<0.1	0.05
REP 119924	QC	5.7	7.8	0.12	238.2	0.001	5	0.60	0.005	0.08	<0.1	2.9	0.11	0.08	518	0.5	0.02	1.3	0.68	<0.1	0.04
120032	Soil	5.1	16.7	0.31	72.4	0.003	2	1.04	0.003	0.08	<0.1	3.7	0.07	<0.02	76	0.3	0.05	2.8	1.67	<0.1	0.03
REP 120032	QC	4.9	15.7	0.30	72.7	0.002	2	1.04	0.003	0.08	<0.1	3.9	0.07	<0.02	77	0.2	0.02	2.9	1.65	<0.1	0.02



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 1 of 2 Part 3

QUALITY CONTROL REPORT

WHI11001169.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
1096004	Soil	0.23	9.4	1.9	<0.05	2.4	24.12	21.8	0.06	<1	1.7	50.7	<10	<2
REP 1096004	QC	0.22	10.3	1.9	<0.05	2.2	24.60	22.4	0.07	<1	1.6	52.8	<10	<2
612905	Soil	0.26	9.4	0.9	<0.05	1.4	22.22	35.4	0.04	<1	1.1	11.8	<10	<2
REP 612905	QC	0.22	8.3	1.0	<0.05	1.3	21.29	33.0	0.05	<1	1.1	11.7	<10	<2
612926	Soil	0.40	8.8	0.7	<0.05	1.7	12.16	17.2	0.04	<1	1.1	44.7	<10	<2
REP 612926	QC	0.36	9.0	0.7	<0.05	1.6	11.93	16.1	0.04	<1	1.0	40.0	<10	<2
612942	Soil	0.21	9.8	1.5	<0.05	0.8	10.51	40.2	0.04	1	0.9	37.3	<10	<2
REP 612942	QC	0.22	9.8	1.6	<0.05	0.7	10.66	41.6	0.04	<1	1.0	35.3	<10	<2
612601	Soil	0.43	14.4	2.1	<0.05	0.8	12.41	19.1	0.05	<1	1.1	48.5	<10	<2
REP 612601	QC	0.41	13.5	2.0	<0.05	0.8	11.75	17.7	0.06	1	1.0	44.9	<10	<2
612619	Soil	0.11	5.2	1.0	<0.05	2.4	13.75	19.2	0.05	<1	0.7	3.6	<10	<2
REP 612619	QC	0.10	5.0	1.0	<0.05	2.0	12.35	17.8	0.05	<1	0.6	3.2	<10	<2
612553	Soil	0.07	9.2	2.4	<0.05	0.4	3.20	10.5	0.04	<1	0.9	5.5	<10	<2
REP 612553	QC	0.06	9.2	2.2	<0.05	0.6	3.13	10.1	0.03	<1	0.8	5.4	<10	<2
612568	Soil	0.27	6.7	0.7	<0.05	1.5	18.71	25.3	0.05	<1	1.2	30.9	<10	<2
REP 612568	QC	0.27	7.2	0.7	<0.05	1.4	19.10	26.7	0.04	<1	1.1	30.4	<10	<2
119794	Soil	0.26	16.2	4.6	<0.05	0.1	1.95	10.7	0.05	<1	0.6	17.6	<10	<2
REP 119794	QC	0.25	14.4	4.8	<0.05	<0.1	1.77	9.7	0.05	<1	0.5	16.8	<10	<2
612576	Soil	0.35	13.3	2.5	<0.05	0.3	2.72	15.3	0.04	<1	0.6	20.7	<10	<2
REP 612576	QC	0.36	13.5	2.6	<0.05	0.3	2.84	15.7	0.05	<1	0.8	21.8	<10	<2
612595	Soil	0.21	7.8	15.0	<0.05	1.0	15.41	30.5	0.04	<1	0.5	7.5	<10	<2
REP 612595	QC	0.19	7.6	14.5	<0.05	0.8	15.35	30.0	0.04	<1	0.5	7.4	<10	<2
119909	Soil	0.28	12.7	3.1	<0.05	2.2	25.92	32.6	0.06	<1	1.0	18.8	<10	<2
REP 119909	QC	0.29	12.1	3.3	<0.05	2.1	25.97	32.1	0.06	<1	1.0	18.3	<10	<2
119924	Soil	0.16	5.1	0.9	<0.05	1.7	10.62	12.9	0.04	<1	0.7	8.7	<10	<2
REP 119924	QC	0.13	5.2	0.9	<0.05	1.4	10.35	12.8	0.03	<1	0.5	8.6	<10	<2
120032	Soil	0.17	7.6	0.7	<0.05	1.1	6.37	11.6	0.04	<1	0.7	36.2	<10	<2
REP 120032	QC	0.15	6.9	0.7	<0.05	1.1	6.23	11.4	0.03	<1	0.9	36.6	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: September 12, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI11001169.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
120897	Soil	0.41	23.30	24.48	90.2	192	29.5	10.4	246	3.22	9.5	0.7	1.2	1.7	73.6	0.06	0.31	0.28	12	0.93	0.045
REP 120897	QC	0.41	23.16	24.60	90.4	192	29.6	10.5	245	3.16	9.7	0.7	0.8	1.6	73.2	0.07	0.30	0.27	12	0.94	0.047
1096023	Soil	0.67	23.79	25.73	79.4	110	24.1	13.2	574	3.55	8.8	0.6	0.7	1.2	99.7	0.25	0.43	0.28	19	0.92	0.086
REP 1096023	QC	0.68	24.21	26.21	80.7	119	24.4	13.4	589	3.66	9.1	0.7	0.8	1.3	103.0	0.24	0.46	0.28	20	0.93	0.089
1096038	Soil	0.53	31.60	31.29	68.4	235	27.6	11.9	362	2.74	9.9	1.1	1.2	0.9	112.4	0.10	0.48	0.29	10	2.03	0.069
REP 1096038	QC	0.51	31.79	31.58	68.5	218	27.8	11.8	361	2.77	10.2	1.0	1.3	0.9	110.3	0.08	0.48	0.31	10	2.02	0.072
118158	Soil	0.55	16.54	29.24	79.2	73	16.2	11.5	501	2.62	68.3	0.4	0.7	1.5	19.7	0.32	0.66	0.27	17	0.14	0.062
REP 118158	QC	0.56	16.76	29.47	77.9	66	15.3	10.5	476	2.53	69.1	0.4	1.2	1.5	19.2	0.32	0.68	0.27	17	0.14	0.062
Reference Materials																					
STD DS8	Standard	12.54	94.42	125.0	312.7	1889	37.2	7.4	626	2.48	24.8	2.4	122.3	5.9	64.5	2.10	5.19	5.98	41	0.72	0.078
STD DS8	Standard	12.05	98.11	119.8	293.9	1753	33.9	6.7	566	2.38	25.2	2.3	114.3	5.5	60.1	2.15	4.90	5.76	38	0.68	0.080
STD DS8	Standard	12.57	123.8	128.5	293.5	1657	36.4	7.2	556	2.52	24.7	3.1	104.8	8.5	69.7	2.05	5.92	7.32	42	0.72	0.083
STD DS8	Standard	12.72	107.1	123.6	318.9	1738	35.6	7.5	641	2.60	26.6	2.6	110.9	6.2	62.6	2.32	5.28	6.25	42	0.75	0.084
STD DS8	Standard	12.21	104.5	123.8	311.3	1827	35.8	7.1	614	2.55	25.6	2.5	121.7	6.0	64.2	2.27	5.11	6.07	41	0.73	0.084
STD DS8	Standard	12.02	101.4	121.3	293.5	1701	34.7	7.0	555	2.43	24.8	2.4	113.7	5.7	59.5	2.20	5.01	5.94	40	0.71	0.079
STD DS8	Standard	12.07	121.8	124.4	301.8	1735	34.8	7.0	534	2.32	28.3	2.9	126.4	7.4	63.6	2.34	5.41	7.00	38	0.65	0.078
STD DS8	Standard	12.36	126.9	128.9	310.9	1641	36.5	7.5	585	2.63	23.8	3.0	102.9	7.9	68.3	2.28	5.73	7.52	43	0.73	0.087
STD DS8	Standard	12.70	110.4	120.6	310.9	1584	38.7	7.7	582	2.38	25.3	2.6	102.0	6.4	61.2	2.18	5.23	6.65	39	0.65	0.075
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI11001169.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
120897	Soil	2.8	12.5	0.21	104.4	0.001	4	0.88	0.004	0.07	<0.1	3.8	0.10	0.06	146	0.4	0.04	2.1	2.26	<0.1	0.04
REP 120897	QC	2.8	12.5	0.21	104.6	0.001	4	0.87	0.004	0.07	<0.1	3.7	0.10	0.06	150	0.4	0.05	2.0	2.25	<0.1	0.04
1096023	Soil	6.2	17.5	0.24	105.7	0.003	3	1.05	0.003	0.09	<0.1	4.6	0.09	0.05	56	0.3	0.04	2.9	3.52	<0.1	0.02
REP 1096023	QC	6.3	18.0	0.24	107.9	0.003	3	1.08	0.003	0.09	<0.1	4.6	0.09	0.06	54	0.3	0.05	3.0	3.56	<0.1	0.02
1096038	Soil	4.5	9.9	0.25	158.5	0.002	5	0.60	0.005	0.05	<0.1	3.2	0.08	0.08	218	0.5	<0.02	1.2	1.48	<0.1	0.04
REP 1096038	QC	4.6	9.5	0.26	159.4	0.002	6	0.60	0.005	0.05	<0.1	3.3	0.08	0.08	216	0.5	<0.02	1.2	1.57	<0.1	0.03
118158	Soil	4.5	10.3	0.10	160.2	0.004	3	0.76	0.003	0.11	<0.1	2.3	0.09	0.04	37	0.2	0.03	2.6	3.07	<0.1	0.02
REP 118158	QC	4.5	10.6	0.09	158.8	0.003	2	0.74	0.003	0.10	<0.1	2.1	0.09	0.04	36	0.2	<0.02	2.5	3.05	<0.1	<0.02
Reference Materials																					
STD DS8	Standard	12.7	123.5	0.61	251.4	0.098	3	0.92	0.086	0.42	3.3	1.9	5.66	0.16	211	5.3	5.27	4.7	2.59	<0.1	0.08
STD DS8	Standard	13.8	110.8	0.58	256.3	0.100	2	0.89	0.088	0.40	2.8	2.0	5.29	0.15	192	4.9	4.64	4.4	2.31	<0.1	0.06
STD DS8	Standard	16.1	113.0	0.61	239.4	0.126	2	0.95	0.097	0.43	2.7	2.6	4.92	0.16	178	4.7	4.72	4.3	2.24	<0.1	0.07
STD DS8	Standard	15.4	115.3	0.64	285.2	0.108	2	0.97	0.096	0.44	3.0	2.2	5.49	0.17	214	5.1	4.72	4.8	2.46	<0.1	0.06
STD DS8	Standard	14.8	123.8	0.63	255.7	0.105	2	0.96	0.094	0.42	2.9	2.3	5.61	0.16	207	5.3	4.69	4.6	2.40	<0.1	0.07
STD DS8	Standard	13.7	115.4	0.60	269.1	0.101	2	0.91	0.094	0.41	2.9	2.0	5.40	0.16	210	5.0	4.39	4.3	2.29	0.1	0.07
STD DS8	Standard	16.3	110.0	0.56	240.7	0.117	3	0.83	0.079	0.37	2.7	2.3	5.04	0.15	190	4.4	4.54	4.3	2.23	<0.1	0.06
STD DS8	Standard	16.1	113.9	0.63	247.2	0.121	3	0.96	0.093	0.43	2.9	2.5	5.16	0.17	173	5.1	4.83	4.5	2.37	<0.1	0.07
STD DS8	Standard	13.6	115.2	0.58	254.8	0.114	3	0.84	0.082	0.39	2.8	2.0	5.02	0.15	190	4.7	4.68	4.1	2.26	0.1	0.06
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 2 of 2 Part 3

QUALITY CONTROL REPORT

WHI11001169.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
120897	Soil	0.14	8.3	0.7	<0.05	1.8	7.91	8.4	0.04	<1	0.8	22.3	<10	<2
REP 120897	QC	0.12	8.1	0.8	<0.05	1.6	7.86	8.4	0.04	<1	0.8	22.7	<10	<2
1096023	Soil	0.24	12.6	3.0	<0.05	0.6	16.71	26.1	0.05	<1	1.0	19.3	<10	<2
REP 1096023	QC	0.24	12.8	2.7	<0.05	0.5	17.08	26.3	0.05	<1	1.0	20.7	<10	<2
1096038	Soil	0.11	6.0	2.4	<0.05	1.3	12.77	11.0	0.03	3	0.9	15.0	<10	<2
REP 1096038	QC	0.13	6.0	2.2	<0.05	1.2	13.05	10.6	0.02	<1	1.0	16.4	<10	<2
118158	Soil	0.29	14.9	1.8	<0.05	0.6	2.08	9.4	0.02	1	0.5	11.8	<10	<2
REP 118158	QC	0.29	14.6	2.6	<0.05	0.6	2.04	9.5	0.02	<1	0.6	11.5	<10	<2
Reference Materials														
STD DS8	Standard	1.35	35.7	6.3	<0.05	1.8	5.61	27.2	2.04	64	5.2	26.8	117	369
STD DS8	Standard	1.19	34.6	5.9	<0.05	1.4	5.51	25.7	1.98	53	4.8	25.4	107	325
STD DS8	Standard	1.21	35.0	6.3	<0.05	1.7	6.15	25.4	2.28	52	4.5	28.0	104	299
STD DS8	Standard	1.29	36.8	6.7	<0.05	1.5	5.82	27.7	2.10	61	5.3	29.5	111	348
STD DS8	Standard	1.21	38.3	6.4	<0.05	1.4	5.82	28.1	2.15	50	4.9	29.0	98	374
STD DS8	Standard	1.13	35.3	5.9	<0.05	1.3	5.33	25.3	1.98	58	4.7	26.8	106	354
STD DS8	Standard	1.12	35.0	6.7	<0.05	1.5	5.96	25.7	2.40	51	4.7	25.8	84	320
STD DS8	Standard	1.12	37.4	7.4	<0.05	1.6	5.93	24.1	2.65	46	5.0	29.8	104	313
STD DS8	Standard	1.09	34.8	6.5	<0.05	1.8	5.49	23.2	2.16	55	5.0	27.5	103	316
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

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Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 06, 2011
Report Date: September 12, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001170.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-18
P.O. Number: NA-10337
Number of Samples: 320

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: database backup
Simon Ridgway
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, 1F05, and RJSV.

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
118170	Soil			0.74	30.26	23.69	75.4	90	21.2	10.9	460	3.68	11.2	0.4	0.8	0.6	20.8	0.21	0.56	0.37	27	0.16	0.068
118171	Soil			0.76	18.65	13.01	73.3	31	14.0	7.0	174	2.12	6.7	0.2	0.6	1.4	12.5	0.09	0.27	0.28	34	0.04	0.037
118172	Soil			0.69	22.26	24.37	70.1	60	16.0	7.4	116	3.15	10.4	0.3	0.8	2.5	5.2	0.05	0.41	0.33	27	<0.01	0.033
118173	Soil			0.73	29.52	33.28	82.0	160	23.4	10.5	332	3.63	14.9	0.5	1.1	2.6	25.3	0.21	0.40	0.35	24	0.19	0.048
118174	Soil			1.07	22.33	35.57	60.5	110	16.4	6.0	129	2.87	8.4	0.3	1.1	2.0	6.1	0.08	0.39	0.32	28	0.01	0.047
118175	Soil			0.46	25.75	32.98	77.3	139	21.5	9.3	231	3.74	15.3	0.3	0.6	2.3	4.1	0.08	0.33	0.32	17	<0.01	0.040
118176	Soil			0.66	27.42	39.56	100.5	146	28.6	12.2	242	3.92	10.2	0.4	0.8	3.1	15.1	0.11	0.31	0.36	19	0.11	0.042
118177	Soil			0.44	29.58	46.00	48.4	187	35.0	12.8	247	3.98	10.5	0.4	0.7	3.2	23.1	0.03	0.55	0.40	7	0.33	0.026
118178	Soil			0.34	20.93	43.38	51.0	166	20.3	9.3	244	2.74	16.3	0.5	2.6	2.3	69.3	0.05	1.46	0.38	8	1.11	0.045
118179	Soil			0.28	18.78	28.96	59.7	180	19.7	9.1	230	2.70	7.0	0.4	0.7	3.3	71.3	0.09	0.25	0.37	9	1.04	0.033
118180	Soil			0.43	22.11	31.55	73.9	224	26.2	12.5	267	2.86	6.9	0.6	1.3	2.4	89.8	0.07	0.28	0.33	10	1.09	0.043
118181	Soil			0.66	23.17	43.13	158.5	133	20.6	10.0	421	2.33	17.2	1.3	3.3	0.6	62.5	0.42	1.08	0.28	16	4.09	0.152
118182	Soil			0.57	24.98	49.39	130.9	159	29.7	11.8	299	2.39	10.0	1.5	1.1	1.6	173.6	0.19	0.38	0.34	9	6.15	0.110
120135	Soil			0.86	22.23	22.54	86.0	128	18.9	12.6	932	3.84	8.8	0.4	0.7	2.4	34.0	0.21	0.50	0.35	40	0.45	0.056
120136	Soil			0.60	31.87	30.69	64.7	95	25.2	17.2	782	3.94	7.9	0.4	0.4	1.8	22.3	0.14	0.31	0.28	19	0.35	0.102
120137	Soil			0.49	37.74	34.80	87.5	125	30.0	16.2	640	4.42	11.3	0.6	0.5	2.2	20.8	0.11	0.62	0.32	17	0.25	0.097
120138	Soil			0.25	40.83	19.56	72.8	37	27.1	13.7	196	4.65	8.2	0.3	0.3	2.1	17.8	0.03	0.29	0.28	24	0.16	0.023
120139	Soil			0.68	27.67	26.45	81.5	78	21.5	10.9	370	2.76	209.3	0.5	18.7	0.5	22.8	0.19	1.37	0.30	21	0.11	0.053
120140	Soil			0.54	36.74	18.07	96.0	85	24.0	9.8	322	3.18	47.7	0.5	2.6	1.1	33.6	0.15	1.07	0.42	22	0.13	0.056
120141	Soil			0.88	23.69	13.13	74.0	56	16.5	6.8	323	2.86	45.7	0.6	7.6	0.4	16.2	0.20	1.10	0.34	37	0.08	0.042
120142	Soil			0.56	14.04	18.66	56.9	40	11.5	5.6	122	2.09	353.3	0.3	25.8	0.6	7.9	0.20	0.96	0.22	18	0.01	0.034
120143	Soil			0.50	28.69	27.71	81.3	43	22.3	15.7	942	3.39	30.4	0.5	2.3	2.7	28.2	0.15	1.05	0.34	16	0.26	0.048
120144	Soil			1.03	21.99	28.42	91.7	79	21.3	11.4	418	3.14	18.5	0.4	0.6	0.6	24.6	0.16	0.40	0.34	22	0.22	0.065
120145	Soil			0.48	32.48	18.00	71.3	138	18.9	7.0	249	3.49	25.6	0.3	0.5	0.5	20.7	0.20	0.44	0.46	24	0.02	0.061
120146	Soil			1.01	35.73	24.55	79.7	110	28.4	13.1	243	3.55	53.7	0.3	0.9	0.2	19.3	0.11	1.43	0.39	28	0.06	0.063
120147	Soil			0.57	21.17	31.45	139.8	161	19.6	18.4	956	4.02	36.6	0.7	0.6	1.6	17.1	0.23	0.38	0.33	34	0.09	0.113
120148	Soil			0.54	26.60	20.04	62.7	50	23.4	12.4	406	3.86	47.9	0.4	1.3	2.2	15.0	0.05	0.39	0.36	27	0.06	0.027
120149	Soil			0.49	32.78	21.32	70.2	30	26.0	13.5	419	3.71	77.2	0.6	1.0	2.6	26.5	0.08	0.60	0.37	24	0.20	0.036
120150	Soil			0.44	40.88	21.17	85.9	113	27.2	13.7	571	3.23	33.6	1.2	2.7	1.7	91.1	0.18	0.65	0.33	19	1.13	0.067
118183	Soil			0.36	27.58	40.44	94.7	113	24.4	17.2	603	3.46	81.9	0.8	2.6	1.8	33.7	0.14	1.66	0.37	11	1.96	0.100



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
118170	Soil	4.3	16.4	0.12	127.3	0.002	2	0.87	0.002	0.08	<0.1	2.0	0.08	0.03	37	0.2	0.05	3.3	2.50	<0.1	<0.02
118171	Soil	4.5	13.0	0.08	58.3	<0.001	5	0.95	0.002	0.08	<0.1	2.0	0.10	<0.02	46	<0.1	0.06	4.5	2.22	<0.1	<0.02
118172	Soil	4.7	12.5	0.07	52.5	0.001	1	0.88	<0.001	0.07	<0.1	2.3	0.10	<0.02	21	0.1	0.03	4.3	2.84	<0.1	<0.02
118173	Soil	6.7	17.6	0.14	240.4	<0.001	2	1.32	0.003	0.10	<0.1	3.7	0.17	0.04	56	0.3	0.03	3.6	3.75	<0.1	<0.02
118174	Soil	3.9	22.0	0.07	36.7	0.001	2	0.91	0.002	0.07	<0.1	2.2	0.13	0.03	28	0.2	0.02	4.3	2.93	<0.1	<0.02
118175	Soil	2.4	16.9	0.18	47.3	0.001	2	1.19	0.001	0.09	<0.1	3.5	0.10	0.02	38	0.3	0.04	3.4	4.27	<0.1	0.02
118176	Soil	3.5	17.2	0.14	150.7	<0.001	2	1.01	0.002	0.09	<0.1	4.6	0.15	0.02	50	0.3	<0.02	3.9	4.45	<0.1	<0.02
118177	Soil	2.8	10.0	0.14	85.2	<0.001	3	0.49	0.002	0.12	<0.1	8.9	0.10	0.02	140	0.3	<0.02	1.3	5.04	<0.1	<0.02
118178	Soil	3.9	9.8	0.14	116.6	<0.001	3	0.59	0.002	0.10	<0.1	5.3	0.08	0.05	226	0.3	<0.02	1.5	1.37	<0.1	0.04
118179	Soil	5.0	10.8	0.15	130.5	<0.001	4	0.73	0.002	0.09	<0.1	5.3	0.11	0.04	343	0.3	0.02	1.8	1.47	<0.1	0.03
118180	Soil	5.0	14.1	0.17	169.8	<0.001	3	0.84	0.003	0.09	<0.1	4.4	0.16	0.05	228	0.3	0.05	1.9	1.87	<0.1	0.03
118181	Soil	10.5	11.7	1.39	74.4	0.003	6	0.73	0.006	0.10	<0.1	1.4	0.10	0.12	392	0.5	0.05	1.7	1.66	<0.1	<0.02
118182	Soil	14.1	9.5	0.22	225.7	0.002	6	0.60	0.004	0.14	<0.1	2.4	0.35	0.08	408	0.6	0.08	1.4	3.29	<0.1	0.05
120135	Soil	6.6	25.1	0.27	278.7	0.004	2	1.58	0.003	0.10	<0.1	4.0	0.13	0.03	36	0.2	0.03	6.1	3.22	<0.1	<0.02
120136	Soil	4.9	23.9	0.29	114.8	0.002	3	1.39	0.002	0.09	<0.1	4.5	0.09	0.06	50	0.2	0.03	3.4	4.85	<0.1	<0.02
120137	Soil	4.4	15.2	0.13	155.0	<0.001	2	0.96	0.002	0.12	<0.1	7.7	0.09	0.04	67	0.1	0.03	2.3	5.37	<0.1	<0.02
120138	Soil	3.2	23.3	0.41	91.8	0.001	2	1.57	<0.001	0.10	<0.1	5.8	0.08	<0.02	34	0.2	0.05	4.6	4.93	<0.1	<0.02
120139	Soil	6.0	15.2	0.08	81.9	0.001	2	0.59	0.003	0.13	<0.1	1.4	0.13	0.03	179	0.2	0.02	2.7	1.71	<0.1	<0.02
120140	Soil	7.7	14.5	0.10	128.8	0.001	2	0.62	0.002	0.12	<0.1	3.0	0.09	<0.02	60	<0.1	0.03	2.4	6.05	<0.1	<0.02
120141	Soil	9.9	17.6	0.14	99.4	0.006	2	0.90	0.003	0.10	<0.1	1.5	0.12	0.03	41	0.2	0.05	4.0	4.38	<0.1	<0.02
120142	Soil	5.7	9.3	0.06	55.9	0.003	2	0.44	0.002	0.08	<0.1	1.3	0.08	0.03	50	0.2	0.03	2.2	2.32	<0.1	<0.02
120143	Soil	5.5	12.6	0.12	111.4	0.001	3	0.79	0.003	0.17	<0.1	5.2	0.11	0.03	56	0.2	0.06	2.1	2.27	<0.1	0.03
120144	Soil	5.3	16.1	0.10	84.1	0.002	2	0.62	0.003	0.12	<0.1	1.7	0.09	0.03	58	0.2	0.05	2.6	4.00	<0.1	<0.02
120145	Soil	5.7	19.1	0.20	61.5	0.002	3	0.96	0.001	0.12	<0.1	1.5	0.08	0.02	32	0.1	0.03	3.6	3.20	<0.1	<0.02
120146	Soil	3.5	16.0	0.07	51.8	0.002	3	0.42	0.002	0.12	<0.1	1.3	0.11	0.03	34	0.2	0.09	3.2	3.43	<0.1	<0.02
120147	Soil	7.0	25.3	0.30	131.8	0.003	3	1.79	0.002	0.18	<0.1	2.4	0.11	0.04	36	0.2	0.06	5.4	11.85	<0.1	<0.02
120148	Soil	4.2	22.4	0.34	80.8	0.001	2	1.69	<0.001	0.11	<0.1	3.3	0.10	<0.02	41	0.1	0.04	4.3	2.13	<0.1	<0.02
120149	Soil	4.6	19.9	0.29	71.0	<0.001	2	1.54	0.001	0.11	<0.1	4.3	0.11	<0.02	51	0.1	0.07	3.8	2.11	<0.1	0.02
120150	Soil	8.9	20.4	0.39	154.7	0.002	6	1.22	0.004	0.14	<0.1	6.2	0.10	0.07	147	0.5	0.04	3.1	2.23	<0.1	0.04
118183	Soil	10.6	10.0	0.77	206.0	0.001	6	0.60	0.003	0.16	<0.1	5.3	0.22	0.07	247	0.4	0.03	1.7	4.97	<0.1	0.03



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 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 2 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
118170	Soil	0.38	14.2	1.3	<0.05	0.1	2.50	8.2	0.04	<1	0.6	11.2	<10	<2
118171	Soil	0.17	9.5	2.6	<0.05	0.3	1.57	8.2	0.03	<1	0.3	5.0	<10	<2
118172	Soil	0.27	13.2	2.8	<0.05	0.5	1.83	8.8	0.03	<1	0.3	4.1	<10	<2
118173	Soil	0.23	13.9	2.1	<0.05	0.6	10.09	12.6	0.04	<1	0.8	26.0	<10	<2
118174	Soil	0.26	10.8	10.4	<0.05	0.4	1.63	7.2	0.04	<1	0.3	5.5	<10	<2
118175	Soil	0.22	11.9	3.6	<0.05	1.0	2.60	5.2	0.04	<1	0.6	26.2	<10	<2
118176	Soil	0.18	11.3	4.7	<0.05	0.7	7.21	8.9	0.04	<1	0.7	22.5	<10	<2
118177	Soil	0.05	10.5	4.3	<0.05	1.1	9.96	6.2	0.08	<1	1.1	14.7	<10	<2
118178	Soil	0.12	8.1	1.9	<0.05	1.7	8.49	9.6	0.04	<1	0.9	11.0	<10	<2
118179	Soil	0.14	8.2	0.8	<0.05	2.0	7.70	12.8	0.04	<1	0.8	19.2	<10	<2
118180	Soil	0.15	9.4	4.1	<0.05	1.0	5.75	12.2	0.05	<1	0.6	21.0	<10	<2
118181	Soil	0.28	7.1	0.8	<0.05	0.5	12.79	17.9	0.02	<1	0.4	7.7	<10	<2
118182	Soil	0.18	9.4	2.1	<0.05	1.7	16.02	31.3	0.03	<1	0.7	9.1	<10	<2
120135	Soil	0.70	21.5	2.4	<0.05	0.5	4.71	14.6	0.05	<1	0.7	40.0	<10	<2
120136	Soil	0.22	13.3	3.1	<0.05	0.3	8.19	21.0	0.05	<1	1.0	43.7	<10	<2
120137	Soil	0.10	15.3	2.2	<0.05	0.5	13.58	15.4	0.06	<1	1.2	18.5	<10	<2
120138	Soil	0.13	10.3	1.4	<0.05	0.7	3.56	7.2	0.05	<1	1.0	54.1	<10	<2
120139	Soil	0.24	13.8	3.3	<0.05	<0.1	1.78	11.2	0.03	<1	0.4	5.9	<10	<2
120140	Soil	0.09	15.2	1.8	<0.05	0.1	3.84	14.1	0.04	<1	0.7	5.5	<10	<2
120141	Soil	0.33	22.3	1.5	<0.05	<0.1	2.66	18.1	0.02	<1	0.4	7.8	<10	<2
120142	Soil	0.28	13.8	1.7	<0.05	<0.1	1.68	10.2	0.02	<1	0.2	2.5	<10	<2
120143	Soil	0.13	13.0	2.7	<0.05	1.1	6.71	14.9	0.04	<1	0.9	9.6	<10	<2
120144	Soil	0.17	19.6	5.2	<0.05	<0.1	2.47	9.6	0.04	<1	0.4	6.1	<10	<2
120145	Soil	0.18	15.6	3.4	<0.05	<0.1	2.22	10.4	0.04	<1	0.5	15.6	<10	<2
120146	Soil	0.07	16.2	5.4	<0.05	<0.1	1.78	6.4	0.03	<1	0.5	2.2	<10	<2
120147	Soil	0.31	29.2	3.4	<0.05	0.3	5.57	17.3	0.04	<1	1.2	40.2	<10	<2
120148	Soil	0.19	13.1	1.9	<0.05	0.6	2.63	8.1	0.04	<1	0.8	42.6	<10	<2
120149	Soil	0.14	14.0	2.1	<0.05	0.7	4.73	15.0	0.04	<1	1.0	33.0	<10	<2
120150	Soil	0.25	16.8	1.1	<0.05	1.1	15.08	16.1	0.04	<1	1.1	25.6	<10	<2
118183	Soil	0.10	11.7	2.5	<0.05	1.1	16.98	21.5	0.04	<1	1.1	4.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
118184	Soil			0.46	25.48	41.68	229.8	163	26.7	11.2	537	2.79	98.1	1.1	12.6	3.1	45.3	0.28	3.89	0.38	10	5.37	0.107
118185	Soil			0.72	25.69	128.1	612.0	236	29.2	9.6	555	2.97	44.0	2.4	19.0	2.8	80.3	0.92	4.15	0.38	11	5.63	0.154
118186	Soil			0.72	29.23	51.60	419.0	266	35.9	10.4	567	3.06	33.5	1.6	8.6	2.7	102.5	0.55	2.33	0.42	9	5.18	0.136
118187	Soil			0.48	27.21	36.71	218.4	179	38.2	14.3	375	2.95	19.9	1.0	3.0	1.9	122.6	0.28	1.79	0.43	9	1.59	0.088
118188	Soil			0.55	26.09	40.60	236.8	182	32.9	13.1	533	2.69	28.6	1.3	4.7	3.9	70.2	0.40	1.86	0.34	9	5.76	0.094
118189	Soil			0.97	42.53	41.72	185.1	366	56.0	17.9	373	4.24	14.2	1.5	0.2	6.1	90.7	0.21	0.49	0.47	11	0.90	0.094
118190	Soil			1.19	31.96	44.78	148.8	281	37.7	11.5	301	3.02	10.2	1.5	0.5	2.2	206.2	0.30	0.43	0.40	10	2.57	0.123
118191	Soil			0.66	40.84	40.54	174.3	353	61.1	25.1	793	4.41	10.7	1.0	1.5	6.3	57.6	0.17	0.42	0.43	9	0.37	0.066
118192	Soil			0.71	35.09	40.27	157.3	313	44.8	15.3	390	3.71	10.3	1.1	<0.2	4.3	118.6	0.20	0.35	0.43	11	1.59	0.081
118193	Soil			0.56	28.92	37.01	148.5	183	34.5	13.1	434	3.07	14.1	0.8	1.0	5.2	47.2	0.22	0.48	0.41	10	0.99	0.062
118194	Soil			0.61	34.54	43.56	134.9	355	40.6	14.3	306	4.43	9.2	0.9	1.0	3.4	88.1	0.15	0.42	0.48	14	0.90	0.085
118195	Soil			0.59	31.13	42.69	123.6	340	37.0	13.3	299	4.31	8.2	0.9	0.7	2.9	131.2	0.14	0.34	0.46	13	1.56	0.083
118196	Soil			0.76	42.83	47.57	137.1	285	43.3	17.7	357	5.01	10.4	0.6	0.7	5.8	56.4	0.15	0.43	0.61	16	0.61	0.058
118197	Soil			0.65	40.98	48.82	138.6	359	42.5	18.1	598	4.87	8.5	0.8	<0.2	3.4	73.5	0.16	0.42	0.55	15	0.72	0.076
118198	Soil			0.66	27.75	38.62	110.6	155	30.0	12.0	447	4.00	10.9	0.8	0.8	2.0	51.0	0.13	0.70	0.44	17	0.51	0.080
118199	Soil			1.03	22.05	27.17	75.7	117	21.8	8.3	282	3.47	8.7	0.8	0.4	1.3	17.8	0.08	0.46	0.40	26	0.14	0.082
118200	Soil			0.62	31.87	28.10	102.0	191	29.8	12.9	525	3.86	9.8	1.1	<0.2	3.1	119.5	0.22	0.46	0.38	21	0.87	0.095
1096201	Soil			0.60	39.73	27.90	100.9	168	33.8	14.8	534	4.87	15.7	0.9	0.3	3.8	46.3	0.14	0.41	0.43	22	0.56	0.094
1096202	Soil			0.89	26.43	29.12	102.8	68	32.0	12.9	493	4.30	11.4	0.9	1.2	1.6	31.2	0.13	0.57	0.38	30	0.22	0.098
1096203	Soil			0.78	33.40	24.59	119.0	535	30.1	11.9	432	3.33	11.8	3.1	2.2	2.2	113.8	0.29	0.47	0.40	25	1.16	0.149
1096204	Soil			0.69	24.80	18.56	86.3	335	22.6	8.2	470	2.74	9.0	1.2	2.2	1.1	137.0	0.24	0.43	0.31	22	1.43	0.161
1096205	Soil			0.60	24.44	23.44	91.7	172	23.2	9.4	351	3.53	8.2	0.8	<0.2	2.0	70.1	0.17	0.35	0.39	24	0.61	0.126
1096206	Soil			0.60	25.11	21.57	66.6	293	20.4	8.3	365	2.88	11.3	0.8	0.2	1.4	103.2	0.12	0.36	0.33	22	1.04	0.157
1096207	Soil			0.76	33.03	30.91	93.2	242	28.3	14.1	850	3.87	17.4	1.7	2.0	1.6	89.6	0.24	0.38	0.39	30	0.89	0.179
1096208	Soil			0.76	47.60	41.65	135.2	89	35.6	21.2	664	6.11	29.3	0.6	<0.2	2.6	18.0	0.07	0.46	0.61	28	0.03	0.061
1096209	Soil			0.67	46.05	34.82	110.6	71	29.7	20.2	964	5.31	23.3	0.6	0.5	2.1	17.1	0.13	0.45	0.58	30	0.04	0.078
1096210	Soil			0.77	43.64	23.21	97.3	100	31.9	17.1	542	3.78	14.1	0.7	3.9	3.9	35.7	0.12	0.61	0.37	32	0.28	0.092
1096211	Soil			1.24	24.98	24.36	70.4	63	19.8	12.6	688	3.65	13.8	0.6	0.4	0.4	10.6	0.10	0.73	0.38	37	0.06	0.103
1096212	Soil			1.11	30.38	22.13	83.0	72	23.2	12.9	779	3.92	16.9	0.8	0.2	0.4	22.3	0.16	0.79	0.42	37	0.20	0.087
1096213	Soil			0.80	41.40	21.97	94.3	49	17.0	14.9	647	3.74	14.2	0.4	1.2	1.5	19.4	0.05	0.46	0.42	33	0.10	0.061



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method Analyte	1F15																				
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
118184	Soil	8.0	9.1	3.22	99.1	0.003	5	0.57	0.007	0.09	0.1	3.4	0.19	<0.02	551	0.7	0.08	1.5	1.97	<0.1	0.08
118185	Soil	6.5	11.0	2.91	99.8	0.002	8	0.62	0.007	0.10	<0.1	3.1	0.19	0.05	2031	1.1	0.06	1.6	1.85	<0.1	0.12
118186	Soil	9.7	8.8	2.45	169.3	0.003	7	0.42	0.006	0.10	<0.1	3.0	0.36	0.05	821	0.9	0.02	1.3	3.28	<0.1	0.06
118187	Soil	10.8	8.5	0.13	160.3	0.002	7	0.50	0.004	0.11	<0.1	3.3	0.23	0.10	373	0.9	0.03	1.2	2.23	<0.1	0.07
118188	Soil	8.5	9.4	3.25	126.4	0.004	4	0.47	0.007	0.11	<0.1	3.5	0.23	0.04	366	0.9	0.03	1.4	3.07	<0.1	0.08
118189	Soil	15.3	9.9	0.25	216.5	0.003	6	0.66	0.006	0.14	<0.1	5.9	0.31	0.08	128	1.5	<0.02	1.7	2.78	<0.1	0.10
118190	Soil	19.9	11.5	0.10	190.2	0.002	7	0.57	0.006	0.11	<0.1	3.6	0.21	0.10	117	1.3	0.04	1.2	1.05	<0.1	0.10
118191	Soil	12.3	8.8	0.16	170.2	0.003	5	0.60	0.008	0.10	<0.1	4.6	0.33	0.12	108	1.1	0.02	1.4	2.68	<0.1	0.07
118192	Soil	12.4	11.3	0.30	182.0	0.004	5	0.72	0.007	0.15	<0.1	4.4	0.24	0.08	183	1.0	0.07	2.0	2.66	<0.1	0.08
118193	Soil	12.1	8.7	0.47	126.4	0.003	8	0.57	0.005	0.12	<0.1	4.1	0.18	0.04	159	0.9	0.02	1.6	1.99	<0.1	0.06
118194	Soil	9.2	14.1	0.24	147.2	0.002	5	0.84	0.005	0.09	<0.1	5.3	0.21	0.06	65	0.8	0.06	2.2	2.62	<0.1	0.10
118195	Soil	9.0	13.4	0.28	137.6	0.001	5	0.80	0.005	0.08	<0.1	5.2	0.20	0.07	93	1.1	0.02	2.1	2.20	<0.1	0.06
118196	Soil	7.2	13.7	0.26	88.4	0.003	3	0.70	0.004	0.07	<0.1	6.3	0.12	<0.02	51	0.6	0.03	2.2	1.65	<0.1	0.07
118197	Soil	7.0	16.0	0.29	119.4	0.001	3	0.81	0.005	0.08	<0.1	6.7	0.19	0.06	112	0.9	0.02	2.3	3.01	<0.1	0.11
118198	Soil	5.6	14.8	0.20	158.8	0.003	2	0.95	0.005	0.06	<0.1	4.1	0.17	0.06	67	0.7	0.06	2.8	2.82	<0.1	0.05
118199	Soil	5.9	19.8	0.23	116.6	0.003	2	1.25	0.005	0.06	<0.1	2.4	0.19	0.05	8	0.6	<0.02	4.2	3.19	<0.1	0.03
118200	Soil	20.8	17.1	0.26	158.5	0.005	2	1.08	0.004	0.06	<0.1	5.8	0.12	0.05	43	0.8	0.07	3.0	1.75	0.1	0.08
1096201	Soil	7.4	18.2	0.30	117.3	0.003	2	0.98	0.004	0.06	<0.1	7.3	0.11	0.03	19	0.6	0.03	2.7	1.45	<0.1	0.07
1096202	Soil	8.9	24.7	0.35	127.4	0.006	2	1.48	0.005	0.07	0.1	2.9	0.15	0.04	14	0.5	0.09	4.5	3.93	<0.1	<0.02
1096203	Soil	7.7	24.8	0.27	214.0	0.003	1	1.43	0.006	0.13	<0.1	5.1	0.19	0.12	271	0.9	0.04	4.1	10.46	<0.1	0.16
1096204	Soil	7.3	17.2	0.25	179.4	0.004	2	1.07	0.006	0.09	<0.1	2.7	0.14	0.14	155	0.9	0.02	3.4	6.24	<0.1	0.08
1096205	Soil	8.5	19.8	0.31	150.8	0.003	4	1.28	0.005	0.08	<0.1	3.9	0.13	0.07	48	0.5	0.05	3.9	6.30	<0.1	0.06
1096206	Soil	9.4	17.7	0.25	169.0	0.003	<1	1.12	0.005	0.08	<0.1	3.1	0.15	0.12	121	0.8	<0.02	3.5	5.64	<0.1	0.13
1096207	Soil	7.2	25.4	0.25	262.6	0.002	4	1.65	0.006	0.14	<0.1	4.9	0.28	0.11	127	0.6	0.05	5.5	10.02	0.1	0.09
1096208	Soil	6.0	21.3	0.20	66.6	0.002	3	1.04	0.003	0.06	<0.1	4.6	0.15	0.02	53	0.5	0.06	4.9	4.06	<0.1	0.03
1096209	Soil	6.7	24.1	0.37	59.3	0.004	1	1.44	0.003	0.08	<0.1	3.6	0.13	0.04	75	1.0	0.17	6.0	8.03	<0.1	0.06
1096210	Soil	11.7	24.1	0.44	66.6	0.028	3	0.99	0.007	0.06	<0.1	4.4	0.07	<0.02	76	0.5	0.09	3.7	5.11	<0.1	0.02
1096211	Soil	7.6	25.3	0.38	66.3	0.010	2	1.35	0.006	0.07	0.1	1.5	0.11	0.07	71	0.7	0.05	5.6	4.58	<0.1	<0.02
1096212	Soil	10.1	18.5	0.21	101.3	0.008	3	1.10	0.005	0.07	0.1	2.6	0.14	0.05	59	0.8	0.04	5.5	3.64	<0.1	<0.02
1096213	Soil	4.4	17.8	0.26	60.8	0.002	3	1.13	0.003	0.08	<0.1	3.2	0.10	0.02	59	0.3	0.06	6.5	9.78	<0.1	0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 3 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
118184	Soil			0.11	6.6	1.1	<0.05	2.6	12.50	18.8	0.05	<1	0.5	6.4	<10	<2
118185	Soil			0.08	6.6	2.7	<0.05	3.0	13.12	17.3	0.02	<1	0.5	10.8	<10	<2
118186	Soil			0.10	6.0	2.3	<0.05	2.6	12.95	23.9	0.03	1	0.9	4.0	<10	3
118187	Soil			0.19	8.0	1.1	<0.05	1.8	14.97	29.7	0.03	<1	0.9	4.7	<10	<2
118188	Soil			0.13	8.9	2.5	<0.05	2.1	11.97	22.3	0.02	<1	0.8	7.7	<10	<2
118189	Soil			0.12	12.0	1.6	<0.05	3.2	18.73	34.7	0.04	1	1.0	9.3	<10	<2
118190	Soil			0.14	6.9	10.1	<0.05	3.1	18.73	40.0	<0.02	1	0.7	6.3	<10	<2
118191	Soil			0.07	8.5	1.1	<0.05	3.3	18.84	36.1	0.04	<1	0.8	11.9	<10	<2
118192	Soil			0.17	11.7	1.6	<0.05	2.6	15.66	30.9	<0.02	<1	0.9	12.5	<10	3
118193	Soil			0.11	9.5	2.1	<0.05	2.2	12.62	32.6	0.03	<1	1.0	8.1	<10	3
118194	Soil			0.14	8.9	2.7	<0.05	3.3	20.61	20.1	0.04	<1	1.4	19.6	<10	<2
118195	Soil			0.10	7.5	2.8	<0.05	2.6	21.62	22.4	0.04	<1	1.4	22.3	<10	<2
118196	Soil			0.11	6.1	2.2	<0.05	3.5	17.27	15.7	0.05	<1	1.7	22.6	<10	<2
118197	Soil			0.09	8.1	2.6	<0.05	2.6	21.91	22.0	0.05	<1	1.5	27.9	<10	<2
118198	Soil			0.18	11.0	1.4	<0.05	1.6	11.84	14.4	0.06	<1	0.9	22.2	<10	<2
118199	Soil			0.30	13.3	1.9	<0.05	0.7	6.18	13.3	0.05	<1	0.7	23.8	<10	<2
118200	Soil			0.29	9.6	1.0	<0.05	1.7	20.56	48.6	0.05	1	1.4	21.1	<10	<2
1096201	Soil			0.17	8.3	1.2	<0.05	2.1	20.57	16.9	0.05	<1	1.5	23.4	<10	3
1096202	Soil			0.36	14.8	0.6	<0.05	0.9	8.85	30.6	0.05	<1	1.2	37.8	<10	<2
1096203	Soil			0.42	22.8	1.5	<0.05	4.0	17.33	15.4	0.03	<1	1.1	21.4	<10	3
1096204	Soil			0.45	17.9	1.3	<0.05	2.3	12.98	15.9	0.04	<1	0.6	18.5	<10	<2
1096205	Soil			0.27	17.5	0.7	<0.05	2.4	13.51	24.5	0.04	<1	1.0	26.4	<10	<2
1096206	Soil			0.38	14.4	1.0	<0.05	2.6	17.36	16.0	0.03	<1	0.8	13.0	<10	<2
1096207	Soil			0.32	21.0	0.9	<0.05	2.6	14.76	17.9	0.04	<1	1.2	16.2	<10	<2
1096208	Soil			0.16	13.7	3.2	<0.05	1.1	5.54	14.3	0.04	4	1.5	24.6	<10	<2
1096209	Soil			0.29	14.6	1.0	<0.05	1.2	5.59	16.1	0.03	<1	0.8	40.9	<10	<2
1096210	Soil			0.28	7.0	0.8	<0.05	1.2	9.59	25.2	0.03	<1	0.9	29.7	<10	<2
1096211	Soil			0.55	10.9	5.6	<0.05	<0.1	3.47	16.1	<0.02	1	0.6	28.6	<10	<2
1096212	Soil			0.33	14.6	5.3	<0.05	<0.1	10.87	25.3	<0.02	<1	1.3	15.3	<10	<2
1096213	Soil			0.20	15.2	1.6	<0.05	0.6	3.88	9.2	0.04	3	1.0	20.3	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1096214	Soil			0.98	47.58	32.64	110.6	185	47.6	27.3	995	5.26	26.8	1.0	0.2	4.2	68.7	0.20	0.71	0.41	24	0.61	0.078
1096215	Soil			0.69	30.89	19.64	90.2	84	26.6	10.9	334	4.33	26.4	1.2	0.9	2.9	31.7	0.08	0.46	0.44	25	0.29	0.086
1096216	Soil			1.09	44.64	27.53	119.6	195	29.2	13.4	368	4.05	84.5	1.4	1.2	2.3	64.7	0.24	0.52	0.48	17	0.54	0.114
1096217	Soil			1.20	41.46	30.94	91.1	85	31.2	17.3	799	4.90	44.7	2.1	1.1	2.7	60.0	0.16	0.65	0.48	21	0.52	0.110
1096218	Soil			1.35	38.22	25.43	86.5	618	32.3	16.3	683	4.39	55.7	4.0	3.8	3.8	53.6	0.27	0.64	0.29	20	0.48	0.090
1096219	Soil			0.88	22.56	19.41	80.3	118	20.7	10.7	496	3.67	19.0	2.7	1.9	1.5	76.8	0.15	0.49	0.35	34	0.72	0.134
1096220	Soil			0.74	28.94	17.42	72.3	108	20.7	7.6	290	3.05	12.3	3.0	3.8	2.3	45.4	0.22	0.62	0.47	25	0.42	0.111
1096221	Soil			0.85	38.66	26.31	83.8	165	25.3	14.0	623	3.47	18.1	3.3	4.0	3.1	59.1	0.34	1.05	0.43	21	0.63	0.096
1096222	Soil			0.68	26.84	16.62	105.1	128	19.4	9.0	283	2.55	9.6	3.6	2.6	2.1	67.2	0.36	0.50	0.30	24	1.02	0.092
1096223	Soil			0.80	19.48	14.09	92.7	86	14.7	5.8	213	2.37	8.3	2.6	1.4	1.4	55.2	0.39	0.48	0.30	30	0.68	0.146
1096224	Soil			1.06	22.61	17.30	96.0	144	15.2	8.7	788	2.51	9.3	2.7	1.3	0.3	37.9	0.81	0.65	0.30	27	0.41	0.135
1096225	Soil			1.13	21.58	15.21	60.6	63	15.7	6.1	294	2.68	7.2	2.3	0.8	0.3	25.7	0.18	0.63	0.42	39	0.20	0.099
1096226	Soil			1.01	15.12	12.74	53.3	62	13.6	5.6	428	2.39	8.5	1.5	0.6	1.3	25.4	0.14	0.59	0.34	39	0.21	0.069
119928	Soil			0.45	39.80	45.44	119.8	155	42.2	19.5	444	3.65	13.2	0.9	1.6	9.6	35.6	0.12	0.47	0.60	6	0.73	0.039
119929	Soil			0.44	33.46	39.52	172.4	135	36.7	19.1	548	3.23	65.1	1.0	4.3	8.0	37.2	0.21	1.80	0.51	9	1.15	0.052
119930	Soil			0.40	43.82	48.49	196.3	245	44.4	23.6	846	4.00	110.3	1.1	4.0	9.7	59.3	0.19	3.20	0.53	11	0.92	0.093
119931	Soil			0.24	26.12	50.96	386.5	65	19.9	9.3	699	2.25	137.9	1.4	10.5	4.5	53.9	0.35	5.34	0.27	11	9.78	0.120
119932	Soil			0.58	33.94	39.22	178.7	191	38.3	14.5	472	3.01	21.4	2.6	2.1	5.5	65.8	0.24	2.61	0.46	11	0.99	0.141
119933	Soil			0.55	24.59	62.90	487.6	152	27.1	9.4	442	2.21	31.3	2.9	7.3	4.2	144.4	0.92	5.13	0.30	7	8.26	0.132
119934	Soil			0.54	42.48	43.34	203.1	179	54.3	25.5	419	3.93	12.9	1.3	2.0	8.0	66.8	0.19	0.72	0.53	11	0.75	0.048
119935	Soil			0.76	44.41	42.58	159.0	293	44.1	15.7	388	3.76	10.6	1.6	0.9	6.8	69.1	0.20	0.48	0.49	12	0.74	0.081
119936	Soil			1.01	44.72	42.13	179.6	275	46.2	15.2	286	3.65	10.5	2.1	1.1	7.8	74.1	0.25	0.53	0.54	12	0.77	0.120
119937	Soil			0.62	35.35	43.67	158.6	227	34.9	12.6	336	3.18	8.6	1.1	0.8	3.9	112.5	0.24	0.40	0.43	9	2.42	0.069
119938	Soil			0.56	39.68	41.31	156.3	315	34.2	12.7	365	3.54	12.3	1.2	1.5	3.6	103.3	0.23	0.71	0.44	12	1.33	0.103
119939	Soil			0.67	40.73	51.88	125.1	312	36.9	14.3	334	4.12	8.5	0.9	1.2	4.3	92.8	0.14	0.49	0.51	12	1.17	0.077
119940	Soil			0.58	42.66	44.66	116.9	287	35.1	14.1	258	4.02	7.0	0.8	0.8	4.2	117.9	0.12	0.40	0.56	12	2.05	0.070
119941	Soil			0.61	43.31	49.84	124.8	271	36.4	14.9	408	4.33	7.0	0.9	0.9	4.0	81.9	0.13	0.40	0.54	14	1.16	0.074
119942	Soil			0.50	37.97	41.54	110.2	239	31.1	12.7	328	4.17	7.7	0.8	0.8	4.5	50.1	0.15	0.50	0.51	14	0.42	0.057
119943	Soil			1.01	31.05	42.07	90.9	165	27.8	10.6	485	3.56	7.3	1.2	0.9	1.8	52.5	0.10	0.61	0.44	25	0.37	0.067
119944	Soil			0.56	29.31	34.13	85.3	92	27.4	11.5	399	3.62	5.8	0.7	0.8	3.1	19.5	0.07	0.44	0.40	16	0.11	0.036



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1096214	Soil	18.7	20.8	0.40	129.4	0.005	1	1.10	0.005	0.08	<0.1	9.9	0.11	0.03	350	0.8	0.08	3.1	2.49	<0.1	0.09
1096215	Soil	10.5	19.5	0.29	106.6	0.002	2	1.20	0.004	0.06	<0.1	7.3	0.13	0.04	1030	0.6	0.04	3.6	2.73	<0.1	0.05
1096216	Soil	14.5	13.3	0.17	86.6	0.002	1	0.77	0.004	0.05	<0.1	5.8	0.14	0.04	616	0.7	0.03	1.9	3.03	<0.1	0.09
1096217	Soil	20.2	17.0	0.18	95.7	0.002	2	1.04	0.004	0.06	<0.1	6.2	0.24	0.05	464	0.8	0.10	2.7	1.96	<0.1	0.09
1096218	Soil	48.6	19.0	0.37	104.3	0.001	2	1.10	0.003	0.05	<0.1	9.8	0.15	0.05	662	1.6	0.09	2.4	1.54	<0.1	0.07
1096219	Soil	16.6	23.2	0.39	178.4	0.005	2	1.50	0.005	0.05	<0.1	3.4	0.15	0.07	581	0.7	0.07	4.6	1.60	<0.1	0.05
1096220	Soil	18.4	18.8	0.39	94.8	0.003	3	1.35	0.003	0.06	<0.1	4.0	0.11	0.05	155	0.2	0.07	3.4	1.31	<0.1	0.07
1096221	Soil	32.5	18.2	0.41	51.4	0.003	3	1.10	0.002	0.06	<0.1	6.4	0.09	0.05	1584	0.4	0.05	2.8	1.06	<0.1	0.05
1096222	Soil	18.8	23.3	0.69	100.1	0.006	3	1.04	0.004	0.06	<0.1	5.4	0.11	0.07	255	0.9	0.03	3.1	4.28	<0.1	0.05
1096223	Soil	14.3	24.5	0.59	124.0	0.005	3	1.22	0.003	0.07	<0.1	2.6	0.15	0.09	223	0.4	0.04	4.1	2.41	<0.1	0.05
1096224	Soil	12.6	17.7	0.24	106.8	0.004	3	0.87	0.006	0.07	<0.1	1.1	0.11	0.10	1753	0.4	0.03	3.0	1.75	<0.1	<0.02
1096225	Soil	12.0	21.0	0.34	123.8	0.005	2	1.45	0.004	0.06	<0.1	0.8	0.14	0.07	40	0.2	0.05	5.7	2.71	<0.1	<0.02
1096226	Soil	13.0	19.2	0.30	145.4	0.006	2	1.37	0.002	0.05	0.1	1.9	0.17	0.03	147	0.3	0.03	5.1	2.10	<0.1	<0.02
119928	Soil	8.5	4.0	0.26	189.1	0.001	4	0.41	0.003	0.13	<0.1	6.7	0.19	0.07	225	0.4	0.03	1.1	6.65	<0.1	0.05
119929	Soil	9.2	6.5	0.54	200.1	0.002	4	0.59	0.003	0.15	<0.1	5.7	0.28	0.02	204	0.3	<0.02	1.7	5.76	<0.1	0.06
119930	Soil	12.2	8.2	0.39	217.5	0.002	4	0.72	0.006	0.15	<0.1	6.5	0.42	0.05	939	0.2	0.05	2.0	5.50	<0.1	0.07
119931	Soil	6.5	7.6	5.29	106.4	0.002	3	0.62	0.008	0.11	0.3	3.7	0.20	<0.02	1573	0.2	0.03	1.8	2.78	<0.1	0.04
119932	Soil	18.4	8.8	0.12	235.7	0.003	7	0.64	0.007	0.19	<0.1	5.3	0.31	0.15	378	0.5	0.07	1.6	4.40	<0.1	0.06
119933	Soil	8.7	6.3	2.81	126.1	0.002	6	0.38	0.007	0.13	<0.1	3.3	0.27	0.08	884	0.8	0.03	1.1	3.81	<0.1	0.03
119934	Soil	11.7	9.0	0.15	217.7	0.003	6	0.81	0.004	0.17	<0.1	7.1	0.34	0.07	123	0.5	0.04	2.2	5.30	<0.1	0.09
119935	Soil	17.2	9.4	0.21	157.4	0.003	7	0.69	0.005	0.15	<0.1	7.1	0.23	0.08	109	0.6	0.05	1.8	2.68	<0.1	0.06
119936	Soil	18.9	8.8	0.14	134.8	0.002	6	0.71	0.005	0.15	<0.1	6.4	0.24	0.04	113	0.7	0.03	1.7	2.08	<0.1	0.06
119937	Soil	14.2	7.8	0.35	168.9	0.001	7	0.57	0.004	0.15	<0.1	4.8	0.17	0.06	156	0.6	0.04	1.4	2.32	<0.1	0.03
119938	Soil	14.9	11.2	0.18	168.0	0.002	7	0.77	0.005	0.12	<0.1	5.3	0.21	0.07	233	0.6	0.04	1.8	2.32	<0.1	0.07
119939	Soil	10.3	12.6	0.22	128.7	0.001	5	0.78	0.005	0.11	<0.1	6.3	0.18	0.07	103	0.5	<0.02	1.9	2.96	<0.1	0.06
119940	Soil	6.7	9.7	0.22	95.1	<0.001	4	0.72	0.005	0.10	<0.1	6.1	0.16	0.06	78	0.6	0.02	1.8	2.63	<0.1	0.04
119941	Soil	7.8	13.1	0.24	113.1	<0.001	5	0.83	0.005	0.10	<0.1	7.2	0.17	0.07	94	0.5	0.06	2.0	3.76	<0.1	0.06
119942	Soil	6.6	12.2	0.22	105.6	0.001	3	0.89	0.005	0.10	<0.1	6.5	0.14	0.05	78	0.3	0.05	2.1	2.54	<0.1	0.05
119943	Soil	7.2	18.2	0.20	116.6	0.005	3	1.07	0.005	0.09	<0.1	3.7	0.16	0.04	53	0.4	0.04	3.2	4.26	<0.1	<0.02
119944	Soil	6.2	10.6	0.17	91.7	0.003	2	0.74	0.005	0.06	<0.1	4.2	0.10	0.03	19	0.1	<0.02	1.9	2.16	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 4 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1096214	Soil	0.22	7.3	3.7	<0.05	1.8	26.03	45.7	0.04	2	1.2	21.5	<10	<2
1096215	Soil	0.18	12.3	0.8	<0.05	1.8	17.45	27.1	0.05	<1	1.5	22.0	<10	<2
1096216	Soil	0.13	8.1	1.0	<0.05	1.8	25.07	31.4	0.05	<1	1.4	9.2	<10	<2
1096217	Soil	0.17	11.3	0.6	<0.05	2.0	29.88	58.7	0.05	<1	1.6	12.4	<10	<2
1096218	Soil	0.09	9.2	0.6	<0.05	1.8	44.12	77.5	0.04	<1	1.4	18.9	<10	<2
1096219	Soil	0.36	13.4	1.0	<0.05	1.3	13.92	38.1	0.05	<1	1.0	21.5	<10	<2
1096220	Soil	0.27	10.4	1.1	<0.05	1.6	14.98	31.2	0.06	<1	1.1	24.1	<10	<2
1096221	Soil	0.14	6.2	0.8	<0.05	1.9	29.44	48.7	0.05	<1	1.2	24.9	<10	<2
1096222	Soil	0.31	8.7	0.7	<0.05	1.8	12.66	34.1	0.03	<1	0.7	24.2	<10	<2
1096223	Soil	0.29	13.8	2.5	<0.05	1.2	7.10	21.7	0.03	<1	0.6	23.3	<10	<2
1096224	Soil	0.19	12.6	1.0	<0.05	0.2	7.07	22.4	0.04	<1	0.7	14.8	<10	<2
1096225	Soil	0.31	12.9	1.1	<0.05	0.1	4.41	18.5	0.03	<1	0.5	27.4	<10	<2
1096226	Soil	0.35	10.7	1.0	<0.05	0.3	4.25	22.4	0.03	<1	0.4	22.7	<10	<2
119928	Soil	0.06	10.6	0.7	<0.05	3.5	13.04	19.8	0.05	<1	1.1	5.3	<10	<2
119929	Soil	0.08	12.3	0.7	<0.05	2.9	12.11	20.8	0.05	<1	0.9	10.4	<10	<2
119930	Soil	0.03	12.0	1.0	<0.05	6.6	15.62	29.8	0.06	<1	0.9	13.5	<10	<2
119931	Soil	0.06	7.2	0.7	<0.05	2.1	8.28	12.6	0.02	<1	0.6	8.8	<10	<2
119932	Soil	0.11	10.7	1.2	<0.05	2.7	19.89	35.9	0.05	<1	0.9	7.5	<10	<2
119933	Soil	0.07	7.6	1.5	<0.05	1.4	11.43	19.1	0.03	<1	0.5	5.2	<10	<2
119934	Soil	0.20	15.8	2.4	<0.05	3.0	15.52	28.0	0.07	<1	1.1	16.1	<10	<2
119935	Soil	0.09	12.3	3.9	<0.05	2.3	19.01	31.7	0.03	<1	1.0	11.7	<10	2
119936	Soil	0.09	10.4	2.9	<0.05	2.8	18.28	31.4	0.06	<1	1.2	8.7	<10	<2
119937	Soil	0.08	10.2	5.4	<0.05	1.1	14.43	25.1	0.05	<1	0.8	7.3	<10	<2
119938	Soil	0.17	9.8	3.7	<0.05	2.4	20.19	23.7	0.06	<1	1.0	11.5	<10	<2
119939	Soil	0.09	8.3	8.0	<0.05	2.3	20.40	19.6	0.05	<1	1.0	20.0	<10	<2
119940	Soil	0.05	7.7	2.7	<0.05	1.7	17.34	13.0	0.07	<1	1.0	21.3	<10	<2
119941	Soil	0.06	8.9	7.0	<0.05	2.0	20.98	15.6	0.07	<1	1.1	25.9	<10	<2
119942	Soil	0.09	7.8	3.1	<0.05	2.0	15.92	12.4	0.06	<1	1.0	25.7	<10	<2
119943	Soil	0.24	12.1	8.3	<0.05	0.4	9.26	12.2	0.08	<1	0.7	31.2	<10	<2
119944	Soil	0.09	7.2	2.1	<0.05	0.3	7.35	10.1	0.05	<1	0.8	16.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 12, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
119945	Soil			0.66	44.96	30.48	93.1	137	29.8	13.7	487	4.37	11.0	1.6	0.6	3.8	35.8	0.13	0.41	0.42	22	0.34	0.067
119946	Soil			0.75	31.98	31.40	88.0	175	26.6	10.9	424	3.36	8.2	1.6	1.0	1.9	64.2	0.19	0.63	0.42	23	0.78	0.086
119947	Soil			0.77	35.82	34.96	102.1	216	29.1	11.8	372	3.94	8.1	1.4	1.6	3.8	55.5	0.17	0.57	0.45	24	0.40	0.081
119948	Soil			0.83	17.79	21.52	51.6	102	14.3	5.8	291	2.46	5.3	1.2	0.9	0.6	53.8	0.12	0.45	0.39	35	0.47	0.135
119949	Soil			0.85	25.93	25.59	80.4	102	20.9	8.4	334	3.11	7.0	1.1	0.6	1.7	69.9	0.15	0.52	0.38	27	0.68	0.145
119950	Soil			0.97	22.89	21.33	69.1	51	22.1	8.5	282	3.29	7.8	0.8	1.3	1.6	38.7	0.08	0.66	0.35	39	0.31	0.075
1097001	Soil			0.79	32.62	27.30	90.3	90	26.6	11.2	456	3.93	8.7	1.0	0.7	3.5	55.2	0.14	0.55	0.43	34	0.44	0.090
1097002	Soil			0.74	25.79	31.72	74.9	50	20.7	10.7	491	3.78	8.7	0.9	0.6	2.0	58.4	0.15	0.51	0.40	31	0.40	0.109
1097003	Soil			0.80	26.79	23.46	69.7	50	21.8	9.7	309	3.70	8.3	0.8	1.1	2.2	36.2	0.09	0.50	0.39	33	0.26	0.069
1097004	Soil			0.48	47.32	45.29	107.6	44	32.9	25.4	993	4.83	17.5	0.7	0.9	3.6	23.4	0.07	0.38	0.59	23	0.03	0.037
1097005	Soil			1.30	51.68	56.57	111.8	122	49.7	29.5	1215	4.81	53.4	0.7	1.6	3.1	41.8	0.04	0.81	0.64	26	0.04	0.034
1097006	Soil			1.11	29.83	23.98	87.2	50	23.0	11.5	559	3.44	13.2	0.9	3.4	1.4	19.2	0.14	0.86	0.44	43	0.06	0.058
1097007	Soil			0.93	33.66	35.75	109.4	33	34.8	18.2	633	4.44	18.2	0.8	3.4	3.5	11.3	0.17	0.69	0.45	28	0.06	0.053
1097008	Soil			1.30	27.09	21.34	88.5	89	23.3	11.6	543	3.99	13.0	0.8	1.8	1.0	9.6	0.18	0.69	0.37	40	0.05	0.078
1097009	Soil			0.73	36.65	22.00	93.4	94	30.3	14.1	1076	4.58	40.6	1.3	<0.2	2.5	39.1	0.18	0.58	0.39	29	0.42	0.074
1097010	Soil			0.70	52.11	32.78	94.9	149	49.5	29.4	840	5.07	43.4	1.1	2.1	4.2	226.5	0.20	0.63	0.40	20	3.83	0.052
1097011	Soil			1.11	55.22	38.16	105.4	149	48.2	25.0	908	5.31	38.0	1.5	1.2	5.8	23.6	0.15	0.65	0.42	19	0.21	0.047
1097012	Soil			0.92	34.95	29.31	88.1	153	28.3	15.1	835	3.80	21.5	3.6	2.6	1.5	94.0	0.20	0.62	0.38	25	1.27	0.119
1097013	Soil			1.59	49.53	29.22	141.8	298	37.2	16.9	581	4.16	66.3	7.2	4.1	2.4	46.4	0.33	1.35	0.38	25	0.62	0.085
1097014	Soil			1.01	23.79	21.89	68.7	103	19.8	10.1	458	3.35	21.7	3.1	1.9	2.3	45.5	0.27	0.51	0.31	26	0.61	0.079
120033	Soil			0.93	28.31	33.25	118.4	155	27.4	11.9	262	4.76	11.0	0.3	<0.2	2.4	9.5	0.14	0.49	0.45	25	0.05	0.057
120034	Soil			0.64	18.39	30.99	149.2	119	22.0	15.5	595	3.51	7.5	0.3	0.6	2.4	9.8	0.26	0.34	0.36	26	0.04	0.049
120035	Soil			0.84	31.83	27.67	85.0	89	32.9	13.1	384	3.59	42.4	2.4	1.7	2.2	37.2	0.17	1.18	0.34	27	0.71	0.065
120036	Soil			0.92	24.79	23.42	80.9	139	26.9	13.7	382	3.81	21.9	0.6	0.6	2.7	16.8	0.11	0.79	0.30	30	0.19	0.041
120037	Soil			0.72	30.41	36.66	81.0	109	31.9	21.6	1492	4.46	23.2	1.6	2.4	3.7	55.7	0.21	0.65	0.36	27	0.47	0.048
120038	Soil			0.69	20.46	19.59	73.1	42	24.8	10.7	286	3.67	20.1	0.3	1.4	2.4	14.2	0.04	0.54	0.29	24	0.10	0.033
120039	Soil			0.68	29.23	22.11	60.1	150	26.2	11.3	464	3.39	22.0	1.2	1.4	3.1	61.7	0.06	0.49	0.28	28	0.87	0.059
120040	Soil			0.91	31.22	32.48	76.5	78	28.6	16.8	975	4.78	25.3	0.8	1.0	5.9	55.7	0.14	0.71	0.29	24	0.41	0.043
120041	Soil			0.96	20.31	24.07	74.8	84	25.1	13.1	786	3.36	33.2	0.8	1.9	3.1	20.2	0.15	0.90	0.26	31	0.18	0.034
120042	Soil			0.70	20.39	18.30	59.9	44	24.1	9.5	132	2.85	115.2	0.4	6.3	1.8	13.1	0.04	1.42	0.19	12	0.07	0.022



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	Unit	MDL	1F15 La	1F15 Cr	1F15 Mg	1F15 Ba	1F15 Ti	1F15 B	1F15 Al	1F15 Na	1F15 K	1F15 W	1F15 Sc	1F15 Ti	1F15 S	1F15 Hg	1F15 Se	1F15 Te	1F15 Ga	1F15 Cs	1F15 Ge	1F15 Hf
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
119945	Soil			7.8	16.0	0.27	107.4	0.002	3	1.04	0.004	0.08	<0.1	7.6	0.09	0.03	45	0.2	0.11	2.6	2.37	<0.1	0.05
119946	Soil			10.2	17.4	0.26	121.0	0.006	3	1.05	0.005	0.08	<0.1	4.2	0.11	0.06	62	0.4	0.06	2.8	2.62	<0.1	0.04
119947	Soil			11.9	18.4	0.28	122.1	0.005	3	1.25	0.005	0.09	<0.1	6.1	0.15	0.04	62	0.3	0.05	3.0	3.29	<0.1	0.06
119948	Soil			9.6	20.1	0.24	151.6	0.006	2	1.31	0.004	0.08	<0.1	1.9	0.17	0.07	26	0.2	0.03	4.8	2.68	<0.1	<0.02
119949	Soil			9.6	19.2	0.26	134.3	0.005	3	1.26	0.003	0.08	<0.1	3.7	0.12	0.08	39	0.3	0.06	3.5	2.94	<0.1	0.05
119950	Soil			10.8	23.2	0.34	136.2	0.007	2	1.53	0.003	0.08	0.1	2.5	0.16	0.04	30	0.3	0.04	4.6	3.05	<0.1	0.02
1097001	Soil			11.0	22.9	0.32	154.1	0.005	3	1.52	0.004	0.11	<0.1	4.9	0.15	0.04	48	0.2	0.03	4.4	5.82	<0.1	0.07
1097002	Soil			8.1	17.4	0.20	142.7	0.003	2	1.22	0.002	0.07	<0.1	3.2	0.14	0.05	41	0.2	0.06	3.9	2.59	<0.1	0.03
1097003	Soil			9.2	20.6	0.26	98.4	0.004	2	1.45	0.002	0.08	<0.1	2.8	0.16	0.02	38	0.3	0.04	4.1	3.66	<0.1	0.02
1097004	Soil			8.2	13.8	0.20	50.9	0.002	1	0.87	0.002	0.08	<0.1	4.9	0.09	<0.02	42	0.1	0.05	3.0	5.03	<0.1	<0.02
1097005	Soil			8.0	13.1	0.11	73.6	0.002	2	0.43	0.002	0.08	<0.1	7.5	0.26	<0.02	244	<0.1	0.06	1.7	6.27	<0.1	<0.02
1097006	Soil			13.3	22.5	0.32	91.3	0.011	3	1.41	0.002	0.09	0.1	2.7	0.16	<0.02	58	0.3	0.05	4.4	7.10	<0.1	<0.02
1097007	Soil			8.7	23.0	0.29	60.6	0.009	2	1.11	0.002	0.05	<0.1	3.8	0.10	<0.02	61	0.2	0.07	3.3	6.05	<0.1	0.04
1097008	Soil			8.2	30.9	0.34	62.9	0.009	<1	1.68	0.001	0.06	<0.1	2.1	0.14	0.05	78	0.6	0.04	5.4	4.59	<0.1	<0.02
1097009	Soil			14.1	20.1	0.11	127.3	0.002	2	1.03	0.002	0.05	<0.1	6.9	0.14	0.03	212	0.1	0.07	2.8	1.89	0.1	0.06
1097010	Soil			14.8	15.7	0.14	80.0	0.001	4	0.72	0.003	0.06	<0.1	10.2	0.10	0.03	2068	0.4	0.12	1.4	1.65	<0.1	0.05
1097011	Soil			21.9	18.9	0.25	83.6	0.002	1	1.09	0.002	0.05	<0.1	10.4	0.15	0.02	829	0.5	0.07	2.5	3.97	<0.1	0.07
1097012	Soil			15.0	20.8	0.25	172.1	0.006	3	1.05	0.005	0.06	0.1	4.4	0.16	0.11	327	0.8	0.07	2.9	6.04	<0.1	0.07
1097013	Soil			16.4	21.6	0.22	118.6	0.003	2	0.79	0.003	0.07	<0.1	7.0	0.23	0.06	1526	0.9	0.07	1.9	2.56	<0.1	0.10
1097014	Soil			16.1	18.7	0.19	114.8	0.004	2	1.15	0.002	0.07	<0.1	4.8	0.12	0.04	244	0.4	0.10	3.0	1.38	<0.1	0.06
120033	Soil			4.7	18.3	0.20	145.3	0.003	3	1.22	0.002	0.12	<0.1	3.2	0.18	<0.02	20	0.2	0.07	4.4	2.86	<0.1	0.02
120034	Soil			5.7	18.9	0.16	231.4	0.003	3	1.20	0.003	0.15	<0.1	2.5	0.10	<0.02	8	0.2	0.08	4.3	2.38	<0.1	<0.02
120035	Soil			9.7	22.9	0.29	261.4	0.006	3	1.32	0.004	0.10	<0.1	4.1	0.12	0.04	61	0.3	<0.02	3.2	2.20	<0.1	0.06
120036	Soil			9.1	22.5	0.31	125.3	0.007	3	1.22	0.003	0.12	<0.1	2.5	0.09	<0.02	30	0.5	0.02	3.9	1.62	<0.1	<0.02
120037	Soil			9.5	23.9	0.33	184.6	0.005	4	1.63	0.005	0.13	<0.1	5.4	0.15	0.03	57	0.3	0.06	4.8	2.98	<0.1	0.06
120038	Soil			7.0	21.9	0.32	69.8	0.005	2	1.12	0.002	0.09	<0.1	2.1	0.05	<0.02	184	0.1	<0.02	4.0	1.38	<0.1	<0.02
120039	Soil			8.8	24.8	0.30	217.0	0.004	3	1.37	0.004	0.10	<0.1	5.4	0.09	0.04	54	0.2	0.06	4.0	1.51	<0.1	0.04
120040	Soil			9.6	20.1	0.23	148.5	0.003	4	1.25	0.004	0.12	<0.1	8.3	0.14	0.03	112	0.4	0.09	3.2	2.37	<0.1	0.04
120041	Soil			11.4	24.6	0.29	168.3	0.008	3	1.30	0.004	0.13	<0.1	3.0	0.10	0.02	34	0.3	0.03	4.0	2.32	<0.1	0.02
120042	Soil			4.4	10.0	0.07	34.2	0.003	1	0.32	0.003	0.06	<0.1	2.1	0.05	<0.02	32	0.2	0.04	1.3	1.51	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: September 12, 2011

Page: 5 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
119945	Soil	0.12	8.9	2.4	<0.05	1.6	17.32	14.2	0.05	<1	1.0	28.9	<10	<2
119946	Soil	0.32	10.4	2.5	<0.05	1.1	13.23	17.5	0.04	<1	0.8	25.3	<10	<2
119947	Soil	0.25	11.3	2.1	<0.05	1.6	15.86	20.9	0.05	<1	1.0	30.9	<10	<2
119948	Soil	0.32	14.1	5.5	<0.05	0.4	6.58	15.4	0.04	<1	0.5	21.3	<10	<2
119949	Soil	0.35	16.3	4.4	<0.05	1.3	10.53	19.1	0.05	1	0.8	24.3	<10	<2
119950	Soil	0.45	13.3	3.5	<0.05	0.4	4.70	19.3	0.04	<1	0.6	22.6	<10	<2
1097001	Soil	0.36	16.9	1.6	<0.05	1.8	11.55	27.1	0.05	<1	0.9	36.5	<10	<2
1097002	Soil	0.23	15.1	2.9	<0.05	0.9	6.66	20.3	0.06	<1	0.8	22.7	<10	<2
1097003	Soil	0.32	13.1	2.0	<0.05	0.6	6.64	17.8	0.04	<1	0.8	24.4	<10	<2
1097004	Soil	0.07	10.4	1.0	<0.05	0.3	5.68	15.3	0.05	<1	1.2	19.7	<10	<2
1097005	Soil	0.05	8.0	1.6	<0.05	0.2	8.67	13.6	0.05	<1	1.2	6.8	<10	<2
1097006	Soil	0.30	15.1	1.8	<0.05	<0.1	5.16	22.4	0.04	<1	0.7	22.0	<10	<2
1097007	Soil	0.31	9.3	1.8	<0.05	0.9	6.58	26.6	0.07	<1	1.0	23.7	<10	3
1097008	Soil	0.41	12.5	1.8	<0.05	0.3	4.58	18.4	0.04	<1	0.8	24.5	<10	<2
1097009	Soil	0.12	10.9	1.3	<0.05	1.0	19.04	34.3	0.08	<1	1.2	10.1	<10	<2
1097010	Soil	0.05	5.4	1.3	<0.05	1.7	26.70	29.9	0.07	1	1.6	8.0	24	<2
1097011	Soil	0.12	8.9	1.8	<0.05	1.8	36.15	52.8	0.05	<1	1.5	18.3	<10	2
1097012	Soil	0.40	11.9	1.8	<0.05	1.9	19.38	34.2	0.04	<1	1.3	15.9	<10	<2
1097013	Soil	0.19	10.2	1.5	<0.05	2.3	24.85	36.1	0.03	1	1.7	8.6	<10	<2
1097014	Soil	0.29	12.6	1.5	<0.05	1.1	14.08	38.6	0.04	<1	1.1	13.8	<10	<2
120033	Soil	0.26	16.8	1.7	<0.05	0.5	2.52	9.5	0.04	<1	0.6	26.9	<10	<2
120034	Soil	0.27	21.7	2.7	<0.05	0.6	1.88	11.8	0.04	1	0.8	21.2	<10	<2
120035	Soil	0.46	10.6	3.7	<0.05	1.1	8.30	24.8	0.04	<1	1.1	18.2	<10	<2
120036	Soil	0.39	17.5	2.3	<0.05	0.5	2.78	19.1	0.04	<1	0.7	32.3	<10	2
120037	Soil	0.32	23.1	3.3	<0.05	1.7	10.17	26.4	0.03	<1	1.3	40.1	<10	<2
120038	Soil	0.27	14.0	1.8	<0.05	0.4	2.18	15.4	0.02	<1	0.7	24.7	<10	<2
120039	Soil	0.44	11.4	2.7	<0.05	1.1	9.97	23.7	0.03	<1	1.2	24.5	<10	<2
120040	Soil	0.27	15.5	2.3	<0.05	1.6	14.78	40.0	0.04	1	1.4	23.5	<10	<2
120041	Soil	0.49	18.4	2.7	<0.05	0.5	5.44	28.2	0.04	<1	1.0	18.4	<10	<2
120042	Soil	0.11	6.2	2.9	<0.05	<0.1	2.31	10.0	0.02	1	0.4	4.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
120043	Soil			0.62	30.87	27.05	83.9	152	28.5	13.9	571	3.71	71.7	0.7	2.3	2.3	27.0	0.12	1.49	0.32	24	0.21	0.064
120044	Soil			0.58	30.43	34.03	97.9	135	36.1	14.2	524	4.21	74.7	0.8	10.1	4.5	33.9	0.06	1.06	0.34	22	0.30	0.058
120045	Soil			0.65	23.76	25.64	81.7	141	23.8	13.1	537	3.53	84.9	0.9	11.7	2.7	25.7	0.08	0.91	0.30	27	0.19	0.052
120046	Soil			0.76	21.13	22.81	80.8	83	21.4	12.8	418	3.44	66.3	0.6	4.3	2.8	19.0	0.09	0.95	0.26	24	0.14	0.036
120047	Soil			0.51	21.22	19.83	63.0	85	24.3	10.4	320	3.25	24.5	0.7	1.4	3.3	29.2	0.07	0.63	0.35	23	0.29	0.038
120048	Soil			0.82	33.02	33.16	81.5	100	29.1	19.9	1705	3.99	21.6	0.9	1.5	5.6	41.7	0.30	0.58	0.33	31	0.25	0.039
120049	Soil			0.67	23.33	22.73	65.2	67	22.3	12.9	394	3.65	32.0	0.4	1.6	2.3	24.8	0.05	0.78	0.30	23	0.16	0.047
120050	Soil			0.65	40.55	26.24	85.7	107	33.1	14.7	520	4.17	17.5	0.7	1.6	2.1	56.8	0.12	0.75	0.31	20	0.55	0.069
1096151	Soil			0.66	33.87	29.67	89.0	138	31.7	16.0	673	4.11	16.6	1.2	1.5	3.9	41.7	0.10	0.65	0.34	24	0.42	0.058
1096152	Soil			0.70	23.48	30.19	72.3	108	25.6	16.3	872	3.87	15.8	0.9	0.5	3.7	42.3	0.14	0.47	0.30	29	0.37	0.029
1096153	Soil			0.64	28.44	27.62	74.7	71	27.4	13.2	565	3.67	21.2	1.3	0.9	4.5	73.2	0.21	0.57	0.28	26	0.54	0.017
1096154	Soil			0.56	34.55	23.77	68.7	170	25.6	10.2	509	3.04	14.1	0.8	2.7	2.6	117.6	0.14	0.39	0.31	27	0.79	0.065
1096155	Soil			0.73	19.37	24.46	150.2	110	16.8	13.6	770	3.22	43.5	0.5	1.9	1.1	44.1	0.62	0.57	0.28	30	0.36	0.057
1096156	Soil			0.47	34.93	25.88	85.7	166	28.6	10.9	427	3.24	15.6	1.4	2.6	1.4	227.5	0.46	0.54	0.28	19	1.65	0.074
1096157	Soil			0.68	26.25	27.34	79.3	87	28.5	10.7	322	3.85	18.0	1.1	1.6	3.9	47.6	0.12	0.51	0.29	27	0.66	0.041
1096158	Soil			0.63	31.26	24.58	76.0	126	28.0	14.4	527	3.52	14.1	0.6	1.1	1.8	55.6	0.12	0.62	0.28	19	0.60	0.084
1096159	Soil			0.57	33.47	24.90	64.8	180	29.8	10.4	537	3.81	15.3	1.2	3.0	1.4	107.3	0.35	0.80	0.29	19	2.64	0.092
1096160	Soil			0.62	26.92	26.43	61.4	137	26.6	14.1	759	3.44	16.0	1.1	1.3	1.9	68.4	0.17	0.57	0.26	20	1.02	0.051
1096161	Soil			0.49	17.97	20.07	75.4	35	23.6	9.4	165	3.44	21.3	0.3	2.1	1.3	9.0	0.08	0.26	0.34	25	0.06	0.028
1096162	Soil			0.78	24.54	58.36	95.2	160	28.2	12.4	218	4.64	16.4	0.6	0.8	2.0	11.7	0.11	0.48	0.32	20	0.06	0.033
1096163	Soil			0.49	8.29	14.01	41.0	114	11.2	7.0	310	2.42	14.1	0.2	0.6	1.6	9.8	0.13	0.28	0.25	28	0.05	0.027
1096164	Soil			0.68	15.63	16.58	61.8	54	18.1	8.4	602	3.12	22.3	0.3	0.6	1.2	13.7	0.09	0.40	0.25	23	0.16	0.035
1096165	Soil			0.59	21.85	21.14	103.6	79	22.9	10.8	412	2.90	12.8	0.4	1.3	1.4	45.3	0.25	0.46	0.24	17	1.12	0.042
1096166	Soil			0.77	25.43	18.45	46.8	178	19.7	5.7	185	2.49	20.6	1.0	1.0	1.0	30.7	0.25	0.29	0.29	34	0.40	0.048
1096167	Soil			0.62	24.95	15.93	46.3	120	17.1	5.8	177	2.09	13.5	0.9	0.9	1.5	20.4	0.19	0.28	0.26	32	0.21	0.035
1096168	Soil			0.47	27.72	22.18	84.1	80	29.9	14.2	580	3.53	14.9	0.4	2.2	4.2	93.0	0.09	0.40	0.26	19	3.04	0.039
1096169	Soil			0.40	23.82	15.32	50.5	115	21.9	9.2	432	2.57	12.1	0.9	1.1	1.2	111.5	0.29	0.40	0.22	19	2.04	0.065
1096170	Soil			0.37	19.21	18.76	88.5	86	20.5	9.4	360	2.82	14.1	0.7	1.2	1.8	51.4	0.24	0.35	0.24	18	1.08	0.042
612597	Soil			0.25	11.21	21.97	392.0	54	10.7	6.7	452	1.64	47.9	0.7	15.9	2.1	52.7	0.60	3.01	0.12	6	13.72	0.090
612598	Soil			0.19	14.51	20.19	154.3	52	13.9	9.6	633	2.22	43.8	0.4	12.8	0.7	23.9	0.28	2.19	0.21	7	6.65	0.064



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
120043	Soil	6.8	20.0	0.24	147.2	0.003	2	1.13	0.003	0.14	<0.1	3.3	0.11	0.03	188	0.3	0.05	3.8	3.12	<0.1	0.03
120044	Soil	8.1	26.2	0.34	118.5	0.002	2	1.45	0.002	0.11	<0.1	4.4	0.12	0.03	151	0.3	0.03	3.9	2.88	<0.1	0.07
120045	Soil	8.8	21.3	0.28	123.5	0.004	3	1.29	0.003	0.13	<0.1	3.7	0.11	0.02	50	0.3	0.05	4.3	2.35	<0.1	0.03
120046	Soil	7.0	19.8	0.21	90.9	0.004	2	1.00	0.002	0.14	<0.1	2.6	0.08	0.02	43	0.3	0.05	3.5	2.03	0.1	<0.02
120047	Soil	7.7	23.2	0.28	102.7	0.004	3	1.25	0.002	0.11	<0.1	3.6	0.06	<0.02	1693	0.6	<0.02	4.1	1.74	<0.1	0.03
120048	Soil	12.8	22.9	0.21	238.7	0.005	3	1.54	0.003	0.16	<0.1	6.9	0.13	0.02	39	0.5	<0.02	4.2	2.39	0.1	0.05
120049	Soil	5.9	18.9	0.22	89.4	0.003	2	1.01	0.001	0.14	<0.1	3.0	0.08	<0.02	43	0.2	0.06	3.4	1.57	0.1	<0.02
120050	Soil	4.8	19.0	0.20	98.5	0.002	4	0.77	0.003	0.08	<0.1	4.7	0.09	0.04	103	0.4	0.04	2.9	2.92	<0.1	0.03
1096151	Soil	10.6	23.8	0.29	158.1	0.003	2	1.58	0.003	0.11	<0.1	6.2	0.10	0.03	65	0.3	0.05	4.4	2.04	<0.1	0.06
1096152	Soil	7.6	25.0	0.30	207.4	0.005	3	1.48	0.003	0.13	<0.1	3.9	0.11	0.02	66	<0.1	0.05	4.7	1.80	<0.1	0.05
1096153	Soil	9.4	23.9	0.32	161.6	0.003	3	1.44	0.004	0.09	<0.1	4.6	0.10	<0.02	62	0.3	0.05	4.4	1.56	<0.1	0.05
1096154	Soil	9.1	22.3	0.30	184.2	0.004	3	1.33	0.004	0.13	<0.1	4.6	0.09	0.03	67	0.2	0.05	4.3	2.06	<0.1	0.03
1096155	Soil	7.1	16.8	0.17	122.7	0.008	2	0.86	0.003	0.13	<0.1	1.7	0.07	0.03	6	0.1	<0.02	4.1	1.27	<0.1	<0.02
1096156	Soil	7.9	22.4	0.39	168.1	0.003	7	1.24	0.006	0.12	<0.1	3.6	0.07	0.07	101	0.9	0.02	3.4	3.55	<0.1	0.04
1096157	Soil	8.3	28.0	0.32	148.4	0.003	2	1.56	0.003	0.09	<0.1	4.9	0.11	0.03	65	0.3	0.03	4.5	1.37	<0.1	0.04
1096158	Soil	5.3	19.2	0.21	118.5	0.003	4	0.87	0.003	0.11	<0.1	4.2	0.08	0.07	83	0.5	<0.02	2.8	2.28	<0.1	0.04
1096159	Soil	11.2	18.7	0.18	206.6	0.003	4	1.06	0.005	0.10	<0.1	3.5	0.10	0.09	169	0.6	0.04	2.9	1.03	<0.1	<0.02
1096160	Soil	8.4	18.9	0.19	240.9	0.003	3	1.12	0.003	0.12	<0.1	3.8	0.10	0.06	74	0.4	0.03	3.0	1.25	<0.1	0.04
1096161	Soil	3.4	13.5	0.18	111.3	<0.001	2	1.18	0.001	0.08	<0.1	2.1	0.08	<0.02	10	<0.1	0.06	2.8	2.10	<0.1	<0.02
1096162	Soil	3.6	14.4	0.14	101.3	<0.001	<1	1.04	0.002	0.10	<0.1	2.9	0.18	0.03	48	0.2	0.02	2.4	4.12	<0.1	<0.02
1096163	Soil	5.1	12.5	0.17	70.4	0.003	1	0.90	0.002	0.11	<0.1	1.0	0.07	<0.02	5	<0.1	<0.02	3.5	0.62	<0.1	<0.02
1096164	Soil	4.0	12.3	0.18	90.9	0.002	1	0.81	0.002	0.09	<0.1	1.4	0.07	<0.02	17	0.1	<0.02	2.8	0.80	<0.1	<0.02
1096165	Soil	3.1	17.3	0.30	52.9	0.002	3	0.88	0.004	0.09	<0.1	2.4	0.06	0.05	111	0.2	<0.02	2.6	0.83	<0.1	0.04
1096166	Soil	8.1	18.0	0.19	159.2	0.003	2	1.35	0.002	0.09	<0.1	1.4	0.10	0.02	31	0.1	0.02	4.3	1.41	<0.1	<0.02
1096167	Soil	8.5	15.5	0.15	187.2	0.002	2	1.25	0.003	0.09	<0.1	1.7	0.10	<0.02	46	0.2	0.03	4.0	1.53	<0.1	<0.02
1096168	Soil	6.5	21.8	0.98	101.0	0.002	3	1.45	0.005	0.13	<0.1	3.3	0.08	<0.02	170	<0.1	<0.02	3.7	1.71	<0.1	0.04
1096169	Soil	3.8	15.3	0.26	164.3	0.001	2	1.16	0.006	0.07	<0.1	2.1	0.06	0.08	147	0.4	0.03	2.9	0.76	<0.1	0.04
1096170	Soil	4.6	15.8	0.28	124.8	0.001	3	1.08	0.004	0.08	<0.1	2.8	0.07	0.05	124	0.2	0.03	2.9	0.95	<0.1	0.04
612597	Soil	3.1	4.7	7.27	38.1	0.002	3	0.23	0.008	0.08	<0.1	1.8	0.08	<0.02	896	0.3	0.03	0.8	1.67	<0.1	0.02
612598	Soil	3.8	5.8	3.79	101.7	0.001	5	0.40	0.005	0.12	<0.1	2.2	0.10	0.03	418	0.2	<0.02	1.1	2.82	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: September 12, 2011

Page: 6 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
120043	Soil	0.31	19.8	5.4	<0.05	1.0	5.72	15.3	0.02	<1	0.9	15.0	<10	<2
120044	Soil	0.24	14.0	3.1	<0.05	1.9	8.82	19.4	0.02	<1	1.3	25.4	<10	<2
120045	Soil	0.35	15.4	1.3	<0.05	0.8	7.30	19.8	0.05	<1	1.2	18.3	<10	<2
120046	Soil	0.35	14.5	1.3	<0.05	0.5	3.16	16.7	0.03	<1	0.8	15.8	<10	<2
120047	Soil	0.25	17.9	3.0	<0.05	0.9	4.55	17.5	<0.02	<1	0.8	20.1	<10	<2
120048	Soil	0.51	20.4	2.0	<0.05	1.8	14.37	37.0	0.04	<1	1.3	18.7	<10	<2
120049	Soil	0.20	14.0	2.4	<0.05	0.6	2.75	13.5	0.03	<1	0.9	15.2	<10	2
120050	Soil	0.21	11.8	0.8	<0.05	0.8	6.60	13.0	0.04	<1	1.1	16.4	<10	3
1096151	Soil	0.27	14.7	2.0	<0.05	1.5	13.34	27.4	0.04	<1	1.4	24.0	<10	<2
1096152	Soil	0.42	17.2	1.9	<0.05	1.5	5.27	19.9	0.04	<1	0.9	36.5	<10	<2
1096153	Soil	0.50	14.1	2.2	<0.05	2.5	7.74	22.8	0.05	1	1.1	26.7	<10	3
1096154	Soil	0.42	19.3	0.9	<0.05	1.1	8.26	19.1	0.04	<1	1.4	22.2	<10	2
1096155	Soil	0.36	32.9	2.5	<0.05	0.2	2.31	14.9	<0.02	2	0.4	10.4	<10	<2
1096156	Soil	0.33	16.5	6.0	<0.05	1.0	11.05	15.8	<0.02	<1	1.2	20.3	<10	2
1096157	Soil	0.37	11.3	2.5	<0.05	1.6	8.71	18.5	0.05	<1	1.0	26.3	<10	<2
1096158	Soil	0.23	13.3	3.1	<0.05	1.0	7.03	14.7	0.04	3	1.1	16.2	<10	2
1096159	Soil	0.28	10.1	1.7	<0.05	1.0	13.54	26.3	0.02	<1	0.9	12.7	<10	<2
1096160	Soil	0.31	12.5	1.7	<0.05	1.0	8.71	22.0	0.03	<1	1.5	16.7	<10	<2
1096161	Soil	0.12	9.2	2.3	<0.05	0.5	1.88	7.8	0.04	<1	0.7	21.0	<10	<2
1096162	Soil	0.11	9.1	3.9	<0.05	0.8	2.94	8.7	0.05	<1	1.0	14.4	<10	<2
1096163	Soil	0.39	13.0	1.6	<0.05	0.3	1.13	11.8	0.02	<1	0.3	12.6	<10	<2
1096164	Soil	0.22	9.0	1.7	<0.05	0.2	1.74	8.9	0.03	<1	0.4	13.6	<10	<2
1096165	Soil	0.22	8.5	4.6	<0.05	1.3	3.14	9.3	0.03	<1	0.6	14.3	<10	<2
1096166	Soil	0.58	15.2	1.3	<0.05	0.2	6.60	20.5	0.03	<1	0.9	10.7	<10	<2
1096167	Soil	0.39	14.1	1.1	<0.05	0.3	5.70	19.9	0.02	<1	0.8	8.5	<10	<2
1096168	Soil	0.15	7.2	2.9	<0.05	2.4	6.22	16.0	0.03	<1	0.9	25.0	<10	<2
1096169	Soil	0.31	6.1	1.1	<0.05	1.5	5.76	9.8	0.03	<1	0.9	12.7	<10	<2
1096170	Soil	0.23	7.0	2.5	<0.05	1.2	5.87	13.1	0.03	<1	0.8	15.6	<10	<2
612597	Soil	0.06	3.4	1.5	<0.05	1.5	4.81	7.2	<0.02	<1	0.4	2.5	<10	<2
612598	Soil	0.06	6.7	0.9	<0.05	0.5	6.07	9.8	<0.02	<1	0.7	3.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
612599	Soil	0.52	22.39	29.38	133.9	125	32.0	13.8	454	2.93	52.7	0.7	2.7	4.3	49.3	0.15	1.03	0.29	9	2.75	0.054
612600	Soil	0.44	15.73	31.65	206.3	110	19.4	7.5	584	2.04	27.8	1.3	2.7	1.8	77.7	0.37	1.67	0.18	8	10.22	0.086
118452	Soil	0.37	18.63	16.09	65.4	110	20.7	9.1	295	2.50	22.4	1.1	1.9	1.6	56.8	0.14	0.44	0.25	18	0.93	0.050
118453	Soil	0.41	25.08	19.62	81.6	89	27.2	10.8	276	3.49	28.9	0.4	4.8	3.9	32.1	0.09	0.55	0.27	20	0.27	0.040
118454	Soil	0.34	18.43	16.99	77.4	185	21.2	8.0	308	2.49	16.0	0.6	1.3	1.3	116.8	0.16	0.35	0.24	13	1.43	0.047
118455	Soil	0.40	18.85	19.94	69.7	170	22.4	9.1	349	2.64	11.5	0.5	1.0	1.4	106.7	0.09	0.29	0.26	10	1.27	0.039
118456	Soil	0.38	22.24	18.63	66.2	170	23.7	9.1	280	2.76	17.1	0.8	1.3	1.8	97.1	0.10	0.40	0.37	15	1.20	0.044
118457	Soil	0.35	18.64	17.28	75.8	179	20.2	8.7	269	2.52	15.9	0.6	2.3	1.5	127.9	0.09	0.34	0.27	14	1.60	0.051
118458	Soil	0.29	19.86	13.78	84.5	97	21.0	9.4	413	2.36	15.6	0.8	3.8	1.6	113.0	0.10	0.37	0.23	16	1.73	0.047
118459	Soil	0.33	23.33	12.15	55.4	79	18.3	7.2	271	2.02	11.0	1.1	2.1	0.6	162.7	0.18	0.44	0.20	13	2.78	0.058
118460	Soil	0.36	25.05	19.52	84.1	100	23.1	10.6	348	2.76	14.4	0.7	3.7	1.9	85.7	0.14	0.52	0.32	14	1.49	0.046
118461	Soil	0.42	28.85	21.52	68.7	68	24.5	12.3	430	2.95	19.0	1.0	3.3	2.0	87.1	0.14	0.58	0.32	16	1.34	0.043
118462	Soil	0.35	30.44	18.74	81.1	106	24.4	10.4	315	2.63	18.5	0.9	4.1	1.5	97.7	0.15	0.60	0.29	14	1.69	0.048
118463	Soil	0.40	24.09	17.96	79.0	91	19.9	9.9	311	2.55	17.3	1.1	3.0	1.2	89.9	0.10	0.53	0.27	14	1.70	0.054
118464	Soil	0.44	25.12	20.45	75.9	99	23.4	10.1	305	2.91	20.1	0.7	2.5	2.1	64.0	0.10	0.51	0.33	16	1.11	0.044
118465	Soil	0.43	27.22	20.86	71.8	83	23.8	11.1	322	3.12	18.9	0.7	1.4	2.5	58.0	0.12	0.49	0.32	17	0.98	0.029
118466	Soil	0.66	18.17	20.94	63.6	24	20.0	8.7	181	3.12	26.2	0.3	0.3	2.0	6.2	0.08	0.68	0.32	19	0.02	0.020
118467	Soil	0.70	17.62	19.86	66.9	171	18.0	8.1	212	3.38	27.7	0.3	0.5	2.1	7.7	0.11	0.47	0.33	22	0.03	0.024
118468	Soil	1.10	24.44	18.07	80.6	37	16.6	6.6	106	3.01	15.7	0.3	1.4	1.5	5.5	0.10	0.74	0.33	22	0.01	0.029
118469	Soil	0.58	14.87	15.31	58.3	40	16.4	6.6	142	2.32	9.4	0.2	0.7	1.9	9.4	0.06	0.35	0.28	20	0.03	0.023
118470	Soil	0.80	19.88	22.18	60.4	233	19.9	8.1	141	3.06	21.6	0.3	0.4	2.1	9.4	0.07	0.82	0.34	20	0.06	0.023
118471	Soil	0.72	15.74	19.44	58.5	135	17.1	9.4	470	2.92	11.3	0.2	0.4	1.0	9.7	0.12	0.40	0.34	22	0.05	0.033
118472	Soil	0.78	19.63	30.61	112.2	150	24.4	19.3	813	3.80	16.5	0.4	0.7	1.9	14.5	0.25	0.49	0.44	29	0.09	0.054
118473	Soil	0.88	28.08	48.25	68.5	99	48.1	20.3	715	6.08	27.9	1.1	0.4	5.2	37.4	0.07	2.00	0.35	16	0.55	0.033
118474	Soil	0.57	15.78	22.17	60.2	53	19.3	10.7	444	3.58	21.0	0.4	0.6	2.5	26.7	0.11	0.42	0.34	24	0.32	0.034
118475	Soil	0.99	19.59	24.51	61.4	107	20.2	11.8	608	3.64	15.5	0.3	0.3	1.0	20.9	0.19	0.51	0.34	25	0.23	0.050
118476	Soil	0.58	25.80	26.17	72.2	56	27.0	13.8	455	3.90	22.0	0.4	<0.2	3.0	19.5	0.08	0.67	0.33	21	0.22	0.021
118477	Soil	0.58	18.23	22.72	72.7	41	22.7	13.3	521	3.52	18.2	0.3	0.3	2.7	13.6	0.11	0.48	0.32	22	0.17	0.024
118478	Soil	0.85	27.99	19.23	81.4	199	31.2	11.1	304	4.25	30.1	1.1	1.0	3.0	36.2	0.09	0.98	0.36	24	1.01	0.041
118479	Soil	0.91	24.09	25.20	76.6	45	28.3	11.6	223	4.21	32.3	0.5	1.0	2.9	8.8	0.07	0.68	0.37	27	0.05	0.025



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 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
612599	Soil	6.4	9.4	1.42	158.3	0.002	5	0.62	0.005	0.15	<0.1	3.2	0.19	0.05	262	0.3	<0.02	1.6	3.13	<0.1	0.05
612600	Soil	5.2	7.0	5.08	63.4	0.001	4	0.35	0.007	0.09	<0.1	2.0	0.12	0.03	354	0.4	0.06	0.9	1.46	<0.1	0.02
118452	Soil	5.8	16.4	0.25	116.6	0.002	4	1.04	0.003	0.09	<0.1	3.4	0.09	0.05	145	0.4	0.03	2.5	1.27	<0.1	0.03
118453	Soil	7.1	16.5	0.33	86.5	0.005	3	1.07	0.004	0.09	<0.1	3.4	0.07	<0.02	105	0.2	<0.02	2.9	1.34	<0.1	0.03
118454	Soil	5.3	10.9	0.21	173.9	0.002	4	0.76	0.004	0.08	<0.1	2.9	0.10	0.06	254	0.3	<0.02	1.9	0.91	<0.1	0.02
118455	Soil	5.1	8.4	0.17	174.4	0.001	4	0.64	0.004	0.07	<0.1	2.7	0.11	0.06	225	0.3	0.03	1.5	1.01	<0.1	<0.02
118456	Soil	6.3	12.7	0.24	180.5	0.001	5	0.89	0.004	0.09	<0.1	3.4	0.08	0.06	327	0.4	<0.02	2.1	1.01	<0.1	<0.02
118457	Soil	5.2	12.4	0.26	191.6	0.002	6	0.89	0.005	0.09	<0.1	3.2	0.11	0.06	209	0.4	0.04	2.2	1.15	<0.1	0.03
118458	Soil	4.3	14.5	0.31	123.2	0.002	6	1.00	0.006	0.11	<0.1	2.7	0.08	0.08	131	0.3	0.04	2.7	1.19	<0.1	0.05
118459	Soil	3.8	11.3	0.26	129.7	0.002	8	0.84	0.007	0.08	<0.1	1.7	0.06	0.12	148	0.3	0.03	2.1	0.90	<0.1	0.03
118460	Soil	4.8	14.9	0.26	98.1	0.002	3	0.84	0.003	0.06	<0.1	3.2	0.06	0.07	164	0.4	0.03	2.4	0.99	<0.1	0.05
118461	Soil	5.2	15.6	0.26	117.6	0.002	3	0.93	0.004	0.06	<0.1	3.5	0.06	0.06	123	0.2	<0.02	2.6	0.78	<0.1	0.05
118462	Soil	5.1	14.3	0.27	109.5	0.002	4	0.87	0.004	0.07	<0.1	2.8	0.05	0.07	145	0.3	0.03	2.4	0.63	<0.1	0.05
118463	Soil	3.5	13.0	0.25	108.5	0.002	2	0.81	0.004	0.07	<0.1	2.2	0.05	0.08	151	0.5	0.04	2.3	0.63	<0.1	0.05
118464	Soil	4.5	16.0	0.28	95.9	0.002	2	0.93	0.003	0.06	<0.1	3.1	0.03	0.05	131	0.3	<0.02	2.7	0.58	<0.1	0.05
118465	Soil	4.3	16.8	0.31	114.6	0.001	1	1.04	0.003	0.05	<0.1	3.0	0.05	0.03	99	0.2	0.05	3.0	0.47	<0.1	0.05
118466	Soil	3.7	14.4	0.21	49.5	0.002	2	0.84	0.002	0.05	<0.1	1.9	0.08	<0.02	20	0.1	0.03	2.9	0.96	<0.1	0.02
118467	Soil	4.7	16.7	0.24	53.3	0.003	<1	0.89	0.001	0.05	<0.1	1.7	0.06	<0.02	17	0.2	0.06	3.4	0.81	<0.1	<0.02
118468	Soil	4.9	9.3	0.04	46.0	0.005	<1	0.39	0.002	0.05	<0.1	1.7	0.06	<0.02	11	0.2	0.05	2.8	1.24	<0.1	<0.02
118469	Soil	4.5	12.1	0.15	117.1	0.001	<1	0.76	0.002	0.05	<0.1	1.6	0.05	<0.02	16	0.2	0.04	2.9	0.58	<0.1	<0.02
118470	Soil	4.5	10.0	0.09	70.2	0.002	<1	0.59	0.001	0.05	<0.1	2.0	0.05	<0.02	20	0.2	0.07	2.5	0.51	<0.1	<0.02
118471	Soil	4.1	9.7	0.08	172.7	0.002	<1	0.64	0.001	0.08	<0.1	1.6	0.05	<0.02	11	<0.1	0.02	2.5	0.40	<0.1	<0.02
118472	Soil	5.1	19.2	0.23	248.7	0.002	<1	1.39	0.002	0.11	<0.1	2.5	0.09	0.02	20	0.1	0.06	4.4	1.94	<0.1	<0.02
118473	Soil	12.8	12.0	0.14	91.9	0.001	2	0.77	0.003	0.12	<0.1	7.0	0.09	0.03	109	0.2	0.11	1.4	0.17	<0.1	0.06
118474	Soil	5.3	18.4	0.27	104.6	0.002	<1	1.15	0.002	0.08	<0.1	1.9	0.06	<0.02	16	0.2	0.03	3.9	0.74	<0.1	<0.02
118475	Soil	4.0	17.9	0.18	85.5	0.003	1	0.85	0.003	0.19	<0.1	1.7	0.05	0.02	40	<0.1	0.05	3.8	0.50	<0.1	<0.02
118476	Soil	5.3	18.7	0.29	73.4	0.001	<1	1.18	0.001	0.08	<0.1	2.5	0.07	<0.02	61	0.1	0.04	3.5	0.48	<0.1	0.03
118477	Soil	5.9	19.5	0.30	70.5	0.003	1	1.22	0.002	0.08	<0.1	2.2	0.06	<0.02	15	<0.1	0.02	3.7	0.79	<0.1	0.03
118478	Soil	9.6	19.7	0.23	109.3	0.003	2	0.95	0.004	0.07	0.1	7.5	0.09	0.03	263	<0.1	0.06	1.9	0.50	<0.1	0.05
118479	Soil	6.0	20.2	0.29	62.4	0.002	1	1.31	0.001	0.06	<0.1	2.7	0.08	<0.02	24	0.1	0.05	3.7	1.55	<0.1	0.02



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Page: 7 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
612599	Soil	0.07	9.4	3.3	<0.05	2.4	9.10	19.7	0.03	<1	0.8	9.9	<10	<2
612600	Soil	0.05	4.2	1.7	<0.05	1.0	8.48	13.1	<0.02	<1	0.4	5.2	<10	<2
118452	Soil	0.28	7.9	1.2	<0.05	1.1	8.25	14.1	0.03	<1	0.7	25.3	<10	<2
118453	Soil	0.16	5.9	1.2	<0.05	2.2	7.23	16.5	0.03	<1	0.8	22.0	<10	<2
118454	Soil	0.24	7.7	0.6	<0.05	1.0	8.15	14.3	0.03	<1	0.7	14.1	<10	<2
118455	Soil	0.15	6.8	1.0	<0.05	1.1	8.40	16.5	0.03	<1	0.7	10.1	<10	<2
118456	Soil	0.22	7.1	0.9	<0.05	1.3	10.41	16.5	0.03	<1	0.8	15.4	<10	<2
118457	Soil	0.27	7.9	0.5	<0.05	1.2	7.97	14.1	0.03	<1	0.8	16.0	<10	<2
118458	Soil	0.25	7.3	0.8	<0.05	1.7	5.98	11.4	0.03	<1	0.8	18.8	<10	<2
118459	Soil	0.22	6.0	0.7	<0.05	1.7	6.38	8.7	0.02	<1	0.7	11.4	<10	<2
118460	Soil	0.21	5.9	0.7	<0.05	1.9	7.37	10.1	0.04	<1	0.9	17.8	<10	<2
118461	Soil	0.24	5.7	0.7	<0.05	2.0	8.82	11.1	0.03	<1	0.9	18.4	<10	<2
118462	Soil	0.26	4.8	0.6	<0.05	2.0	8.69	10.3	0.02	2	0.9	19.5	<10	<2
118463	Soil	0.22	4.9	1.0	<0.05	1.8	5.62	7.2	<0.02	<1	0.6	15.5	<10	<2
118464	Soil	0.25	4.8	0.6	<0.05	1.8	6.22	10.5	0.04	<1	0.7	19.8	<10	<2
118465	Soil	0.25	4.7	0.6	<0.05	1.9	5.61	9.7	0.03	<1	0.9	20.5	<10	<2
118466	Soil	0.25	10.2	2.9	<0.05	0.9	1.66	7.4	0.02	<1	0.4	18.0	<10	<2
118467	Soil	0.33	9.5	0.9	<0.05	0.7	1.53	8.9	0.02	<1	0.4	18.9	<10	<2
118468	Soil	0.33	10.5	2.3	<0.05	<0.1	1.46	9.0	0.03	<1	0.2	2.5	<10	<2
118469	Soil	0.20	8.7	0.9	<0.05	0.3	1.69	8.5	0.02	<1	0.4	14.2	<10	<2
118470	Soil	0.31	8.0	1.6	<0.05	0.6	1.59	8.2	0.04	<1	0.3	8.0	<10	<2
118471	Soil	0.24	8.8	1.0	<0.05	<0.1	1.25	7.6	0.03	<1	0.3	9.3	<10	<2
118472	Soil	0.40	20.6	1.8	<0.05	0.7	2.19	10.7	0.04	<1	1.0	24.2	<10	<2
118473	Soil	0.19	4.6	0.6	<0.05	2.5	22.48	34.0	0.05	<1	1.2	4.8	<10	<2
118474	Soil	0.33	9.5	0.8	<0.05	0.6	1.84	10.9	0.02	<1	0.7	21.6	<10	<2
118475	Soil	0.38	11.9	2.4	<0.05	0.2	1.66	8.3	0.04	<1	0.4	18.5	<10	<2
118476	Soil	0.25	7.6	1.0	<0.05	1.6	3.00	12.1	0.03	<1	0.7	23.4	<10	<2
118477	Soil	0.31	11.4	0.9	<0.05	1.1	2.20	14.5	0.03	<1	0.6	22.5	<10	<2
118478	Soil	0.33	6.5	1.4	<0.05	1.7	19.77	19.0	0.04	<1	1.1	11.6	<10	<2
118479	Soil	0.40	10.3	1.9	<0.05	1.4	2.73	12.0	0.03	<1	0.8	32.6	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
118480	Soil		1.11	20.31	19.87	69.9	69	18.6	7.3	106	3.03	16.2	0.3	0.4	1.5	15.5	0.07	0.55	0.40	20	0.07	0.030
118481	Soil		0.94	19.50	20.17	62.5	68	17.1	7.2	147	2.93	23.0	0.3	0.8	1.5	15.0	0.07	0.63	0.32	21	0.08	0.036
118482	Soil		0.69	26.89	25.09	72.9	67	24.3	11.1	395	3.32	17.2	0.5	0.3	2.4	22.3	0.41	0.58	0.34	23	0.24	0.027
118483	Soil		0.51	23.06	22.62	83.5	79	25.3	11.0	600	2.73	12.6	0.6	<0.2	2.3	28.8	0.38	0.38	0.30	20	0.41	0.050
118484	Soil		0.58	14.73	17.97	44.1	121	11.9	3.7	117	1.13	4.1	0.4	<0.2	0.6	60.4	0.24	0.24	0.27	21	0.48	0.023
118485	Soil		0.69	18.76	26.03	72.6	41	25.4	11.7	253	3.31	19.1	0.4	1.4	2.2	13.4	0.12	0.45	0.34	16	0.06	0.031
118486	Soil		0.53	26.95	26.18	72.7	70	26.9	12.0	287	3.31	16.6	0.7	0.5	2.4	39.0	0.13	0.50	0.34	20	0.52	0.036
118487	Soil		0.57	31.99	27.96	97.5	99	32.4	15.0	456	3.86	16.1	0.6	1.7	3.7	35.4	0.10	0.51	0.37	20	0.49	0.030
118488	Soil		0.51	32.10	29.40	92.2	101	33.1	14.9	439	3.92	17.1	0.6	1.9	4.7	27.8	0.16	0.55	0.37	20	0.30	0.024
118489	Soil		0.55	31.27	24.85	94.2	39	30.5	13.7	334	3.97	16.4	0.5	1.0	3.9	17.6	0.07	0.50	0.37	22	0.18	0.020
118490	Soil		0.39	30.39	20.15	89.4	112	26.4	10.8	407	2.83	14.1	0.7	1.9	1.6	129.9	0.16	0.54	0.28	14	1.93	0.051
118491	Soil		0.63	27.16	25.15	83.9	97	27.9	13.2	462	3.32	16.8	0.7	2.3	2.3	64.0	0.12	0.67	0.32	17	1.12	0.039
118492	Soil		0.36	26.65	18.66	91.2	85	24.6	10.4	403	2.72	12.6	0.8	1.1	1.6	96.4	0.16	0.51	0.27	14	1.40	0.048
118493	Soil		0.42	29.90	18.32	80.8	107	23.3	10.9	316	2.72	16.2	1.1	2.3	1.5	148.6	0.16	0.57	0.28	14	2.20	0.057
118494	Soil		0.41	30.13	19.26	61.7	110	22.7	10.7	1152	2.43	11.4	1.3	1.4	0.7	150.4	0.37	0.41	0.26	14	2.58	0.076
118495	Soil		0.42	30.13	19.97	92.6	108	25.3	9.4	255	2.88	14.6	0.6	2.1	1.8	145.8	0.15	0.58	0.29	15	1.91	0.050
118496	Soil		0.37	23.19	18.01	63.1	77	18.5	8.1	269	2.18	10.9	0.8	3.9	1.0	158.7	0.20	0.50	0.26	12	2.12	0.045
118497	Soil		0.33	21.51	20.39	57.0	109	18.3	8.5	250	2.55	14.4	0.6	2.6	2.1	121.4	0.14	0.45	0.30	16	1.54	0.042
1096051	Soil		0.45	19.84	38.53	238.2	125	25.9	10.2	451	1.98	27.8	1.4	5.2	4.1	88.7	0.42	1.84	0.26	7	5.85	0.073
1096052	Soil		0.63	30.76	44.01	134.5	214	37.9	13.6	356	3.11	9.5	0.8	1.2	5.5	69.8	0.31	0.33	0.40	8	0.82	0.044
1096053	Soil		0.98	29.34	30.37	128.8	241	35.0	9.7	155	2.51	8.1	1.3	0.7	3.2	141.8	0.23	0.35	0.37	9	1.80	0.066
1096054	Soil		0.45	33.91	43.61	120.0	223	37.5	17.0	591	4.02	6.8	0.9	0.8	5.2	54.5	0.15	0.27	0.34	8	0.34	0.044
1096055	Soil		0.59	33.80	41.53	110.5	259	38.9	15.6	375	3.92	7.6	0.8	0.4	3.7	258.3	0.10	0.28	0.40	8	4.19	0.059
1096056	Soil		0.60	29.27	40.74	128.1	190	34.3	13.1	404	3.00	11.5	0.8	0.7	5.2	93.6	0.21	0.46	0.37	10	1.87	0.057
1096057	Soil		0.68	33.42	42.30	121.6	263	36.8	15.4	468	3.84	8.5	0.7	1.0	4.0	86.3	0.20	0.39	0.43	11	1.13	0.059
1096058	Soil		0.53	32.96	40.67	113.4	312	34.5	12.6	296	3.79	7.5	0.7	0.9	3.6	73.3	0.15	0.37	0.44	12	0.86	0.066
1096059	Soil		0.57	32.89	34.05	109.9	236	34.2	13.1	289	3.37	6.7	0.6	1.2	3.3	76.1	0.17	0.33	0.42	13	1.10	0.054
1096060	Soil		0.56	32.86	33.86	103.6	241	33.8	13.1	420	3.51	6.4	0.6	0.6	2.8	50.9	0.15	0.35	0.41	15	0.65	0.054
1096061	Soil		0.61	24.09	27.00	109.4	202	27.0	8.9	292	3.15	15.7	0.8	1.4	1.9	69.1	0.22	1.07	0.31	19	0.96	0.068
1096062	Soil		0.72	18.42	30.76	80.0	49	17.7	8.3	347	3.05	8.0	0.8	<0.2	0.6	29.8	0.13	0.63	0.36	25	0.32	0.067



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
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Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method Analyte	1F15 La		1F15 Cr		1F15 Mg		1F15 Ba		1F15 Ti		1F15 B		1F15 Al		1F15 Na		1F15 K		1F15 W		1F15 Sc		1F15 Tl		1F15 S		1F15 Hg		1F15 Se		1F15 Te		1F15 Ga		1F15 Cs		1F15 Ge		1F15 Hf	
	Unit	ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.001	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.1	0.1	0.1	0.02	0.02	0.02	5	0.1	0.02	0.02	0.1	0.02	0.02	0.1	0.02	0.02	0.1	0.02	0.1	0.02
118480	Soil	4.4	12.9	0.11	76.2	0.002	1	0.62	0.003	0.08	<0.1	1.8	0.07	<0.02	38	0.2	0.06	2.3	1.14	<0.1	<0.02																			
118481	Soil	4.3	12.8	0.10	144.5	0.003	<1	0.60	0.002	0.07	<0.1	1.5	0.06	0.02	19	<0.1	0.03	3.2	0.46	<0.1	<0.02																			
118482	Soil	5.1	18.0	0.21	87.5	0.002	<1	0.94	0.002	0.09	<0.1	2.4	0.05	<0.02	29	<0.1	0.03	3.5	0.48	<0.1	0.02																			
118483	Soil	8.2	17.6	0.25	160.6	0.002	1	1.21	0.002	0.07	<0.1	2.4	0.06	0.03	72	<0.1	0.03	3.7	0.74	<0.1	0.02																			
118484	Soil	6.6	12.3	0.06	295.9	0.004	<1	0.58	0.003	0.05	<0.1	0.9	0.06	<0.02	16	<0.1	0.03	2.6	0.84	<0.1	<0.02																			
118485	Soil	4.2	16.8	0.22	87.3	0.002	1	0.84	0.002	0.06	<0.1	2.2	0.11	<0.02	32	0.1	0.04	2.5	1.73	<0.1	<0.02																			
118486	Soil	5.2	19.5	0.28	132.8	0.002	1	1.17	0.002	0.06	<0.1	3.2	0.06	0.03	86	0.2	<0.02	3.5	0.65	<0.1	0.04																			
118487	Soil	5.5	21.6	0.30	121.3	0.002	1	1.07	0.002	0.06	<0.1	4.0	0.05	<0.02	114	<0.1	0.05	3.1	0.68	<0.1	0.06																			
118488	Soil	6.8	21.5	0.31	129.7	0.002	<1	1.13	0.002	0.05	<0.1	4.8	0.05	<0.02	152	0.1	0.03	3.2	0.70	<0.1	0.06																			
118489	Soil	5.2	21.0	0.28	67.8	0.002	<1	1.11	0.002	0.06	<0.1	3.8	0.06	<0.02	110	<0.1	0.05	3.6	0.71	<0.1	0.04																			
118490	Soil	4.4	14.5	0.28	157.0	0.002	4	0.84	0.004	0.07	<0.1	2.8	0.07	0.08	197	0.3	0.04	2.4	0.90	<0.1	0.04																			
118491	Soil	4.6	19.1	0.28	102.0	0.002	2	0.92	0.004	0.06	<0.1	3.4	0.05	0.04	207	0.2	<0.02	2.8	0.79	<0.1	0.05																			
118492	Soil	4.2	15.1	0.25	103.1	0.002	3	0.86	0.003	0.06	<0.1	2.7	0.05	0.06	175	0.3	0.04	2.5	0.64	<0.1	0.04																			
118493	Soil	4.9	16.0	0.26	139.9	0.001	3	0.99	0.005	0.07	<0.1	2.6	0.06	0.09	179	0.3	0.06	2.7	0.64	<0.1	0.06																			
118494	Soil	4.4	14.7	0.25	195.2	0.002	3	0.90	0.005	0.05	<0.1	1.8	0.04	0.12	174	0.4	0.03	2.6	0.57	<0.1	0.03																			
118495	Soil	4.8	15.6	0.31	137.8	0.002	6	0.90	0.004	0.08	<0.1	3.0	0.07	0.11	186	0.6	0.05	2.6	0.72	<0.1	0.04																			
118496	Soil	4.1	12.2	0.24	123.3	0.002	5	0.75	0.005	0.06	<0.1	2.1	0.06	0.09	152	0.6	0.03	2.3	0.91	<0.1	0.04																			
118497	Soil	5.3	14.9	0.24	115.6	0.002	3	0.98	0.004	0.08	<0.1	3.0	0.07	0.06	152	0.5	0.04	2.8	0.98	<0.1	0.04																			
1096051	Soil	6.1	8.6	2.52	112.2	0.003	6	0.42	0.006	0.11	<0.1	2.6	0.18	0.05	545	0.5	0.02	1.1	2.96	<0.1	0.04																			
1096052	Soil	11.6	9.6	0.16	150.2	0.002	4	0.53	0.006	0.14	<0.1	4.9	0.19	0.04	133	0.7	0.04	1.4	2.05	<0.1	0.05																			
1096053	Soil	13.8	8.4	0.14	140.9	0.002	7	0.50	0.006	0.12	<0.1	3.9	0.19	0.08	145	0.9	0.05	1.2	1.76	<0.1	0.07																			
1096054	Soil	8.9	10.0	0.17	110.3	0.001	3	0.64	0.015	0.09	<0.1	4.2	0.24	0.18	75	0.6	0.03	1.3	2.09	<0.1	0.06																			
1096055	Soil	4.5	9.4	0.19	113.0	<0.001	4	0.57	0.008	0.09	<0.1	4.3	0.19	0.21	104	0.8	0.06	1.2	3.51	<0.1	0.03																			
1096056	Soil	9.6	10.5	0.43	128.2	0.002	5	0.53	0.005	0.11	<0.1	4.0	0.16	0.05	165	0.7	0.03	1.4	2.37	<0.1	0.04																			
1096057	Soil	8.3	12.0	0.20	134.7	0.001	4	0.70	0.005	0.10	<0.1	5.0	0.17	0.06	97	0.7	0.04	1.6	2.35	<0.1	0.06																			
1096058	Soil	7.5	12.1	0.22	116.8	0.001	3	0.72	0.004	0.08	<0.1	5.4	0.14	0.05	89	0.7	0.06	1.7	1.88	<0.1	0.06																			
1096059	Soil	6.3	11.3	0.23	82.6	0.001	3	0.68	0.004	0.08	<0.1	4.7	0.12	0.04	59	0.6	0.04	1.8	1.29	<0.1	0.04																			
1096060	Soil	5.9	14.0	0.22	97.8	0.001	3	0.79	0.003	0.07	<0.1	4.9	0.12	0.04	64	0.5	0.04	1.9	1.62	<0.1	0.04																			
1096061	Soil	11.0	14.5	0.27	123.3	0.005	3	0.85	0.005	0.07	<0.1	3.6	0.10	0.05	191	0.6	0.06	1.9	1.18	<0.1	0.04																			
1096062	Soil	5.0	15.4	0.17	102.8	0.005	1	0.89	0.002	0.07	<0.1	1.5	0.09	0.03	30	0.3	0.04	3.0	2.77	<0.1	<0.02																			



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: September 12, 2011

Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
118480	Soil	0.22	9.0	2.3	<0.05	0.1	1.44	8.4	0.04	<1	0.6	9.7	<10	<2
118481	Soil	0.30	6.5	3.4	<0.05	0.1	1.46	8.0	<0.02	<1	0.3	7.0	<10	<2
118482	Soil	0.34	8.8	2.9	<0.05	0.8	2.90	10.7	0.04	<1	0.7	13.6	<10	<2
118483	Soil	0.35	9.5	1.5	<0.05	0.7	6.72	18.6	0.02	<1	0.8	20.5	<10	<2
118484	Soil	0.43	9.8	3.9	<0.05	<0.1	1.30	12.1	<0.02	<1	0.3	8.6	<10	<2
118485	Soil	0.21	8.8	1.5	<0.05	0.6	2.92	8.8	0.04	<1	0.6	25.3	<10	<2
118486	Soil	0.30	6.8	4.7	<0.05	1.3	6.10	11.5	0.04	<1	0.8	19.6	<10	<2
118487	Soil	0.21	5.0	2.8	<0.05	2.0	6.42	13.8	0.03	<1	0.8	20.8	<10	<2
118488	Soil	0.21	5.5	1.0	<0.05	2.5	8.60	16.5	0.03	<1	0.9	20.4	<10	<2
118489	Soil	0.20	5.9	1.4	<0.05	1.7	4.03	11.8	0.03	<1	0.8	19.0	<10	<2
118490	Soil	0.25	5.2	0.7	<0.05	2.0	7.22	9.3	0.03	<1	0.8	17.2	<10	<2
118491	Soil	0.26	4.6	2.7	<0.05	1.5	5.41	11.8	0.03	<1	0.8	19.0	<10	<2
118492	Soil	0.23	4.9	0.6	<0.05	1.6	6.06	9.9	0.02	<1	0.7	16.4	<10	<2
118493	Soil	0.26	5.1	1.3	<0.05	2.1	7.99	9.5	0.03	<1	0.9	16.8	<10	<2
118494	Soil	0.22	4.4	0.8	<0.05	0.9	6.04	10.1	0.02	<1	0.7	14.9	<10	<2
118495	Soil	0.24	5.3	0.9	<0.05	1.8	6.91	9.8	0.04	<1	0.9	19.4	<10	<2
118496	Soil	0.23	5.9	0.6	<0.05	1.2	5.64	8.6	0.04	<1	0.7	13.7	<10	<2
118497	Soil	0.27	6.6	0.9	<0.05	1.4	6.00	11.3	0.03	<1	0.9	17.0	<10	<2
1096051	Soil	0.10	8.2	1.8	<0.05	1.6	8.36	15.8	0.02	1	0.7	7.0	<10	<2
1096052	Soil	0.07	9.1	4.2	<0.05	2.0	12.16	26.6	0.03	2	1.0	7.5	<10	<2
1096053	Soil	0.18	8.9	1.9	<0.05	2.4	14.45	29.0	0.03	<1	0.7	6.1	<10	<2
1096054	Soil	0.05	6.8	4.6	<0.05	2.4	13.59	25.4	0.03	1	1.2	12.1	<10	<2
1096055	Soil	0.05	7.5	1.1	<0.05	1.5	12.85	13.6	0.04	3	0.9	14.1	<10	<2
1096056	Soil	0.10	9.0	4.3	<0.05	2.0	11.89	25.1	0.04	<1	0.9	11.0	<10	<2
1096057	Soil	0.07	7.3	1.9	<0.05	2.3	16.35	23.6	0.04	<1	1.0	15.5	<10	<2
1096058	Soil	0.09	7.0	3.2	<0.05	2.5	17.71	17.1	0.06	<1	1.1	17.4	<10	<2
1096059	Soil	0.10	5.6	1.2	<0.05	1.7	14.81	16.4	0.05	<1	0.9	17.8	<10	<2
1096060	Soil	0.10	6.7	2.0	<0.05	1.6	14.66	16.1	0.05	<1	0.9	19.8	<10	<2
1096061	Soil	0.30	6.6	0.6	<0.05	1.5	14.63	19.8	0.03	<1	0.7	13.8	<10	<2
1096062	Soil	0.19	11.8	1.7	<0.05	0.2	3.97	10.7	0.04	1	0.6	16.5	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1096063	Soil			0.89	26.09	21.46	69.9	205	20.1	10.5	701	2.53	6.9	3.1	0.9	0.7	179.3	0.21	0.54	0.28	22	1.76	0.195
1096064	Soil			0.81	21.76	24.97	73.2	161	22.5	9.1	371	2.90	9.7	1.7	0.9	1.6	81.5	0.11	0.48	0.35	27	0.68	0.079
1096065	Soil			0.75	26.93	26.40	87.9	46	31.3	12.5	409	3.48	9.6	0.7	0.4	2.9	18.4	0.12	0.58	0.32	23	0.13	0.055
1096066	Soil			0.64	26.26	23.85	74.9	145	25.3	9.1	275	2.87	8.5	0.8	0.4	1.9	68.7	0.19	0.41	0.30	19	0.61	0.084
1096067	Soil			0.77	24.44	25.21	85.2	129	27.5	10.7	434	3.37	7.9	0.8	0.4	3.1	82.4	0.17	0.31	0.33	19	0.61	0.070
1096068	Soil			0.86	24.06	27.86	92.1	58	23.8	10.8	547	3.37	12.3	0.7	0.9	1.6	56.2	0.17	0.51	0.38	28	0.49	0.101
1096069	Soil			0.77	28.33	23.97	91.4	214	23.3	10.6	636	2.87	11.7	1.2	1.3	1.4	117.6	0.36	0.47	0.35	23	1.23	0.212
1096070	Soil			0.74	30.30	19.31	95.2	40	22.6	10.2	305	3.36	21.6	0.4	0.5	0.8	43.5	0.13	0.42	0.42	26	0.35	0.062
1096071	Soil			0.67	34.20	40.09	109.3	44	26.7	14.7	550	5.41	21.8	0.6	0.7	2.2	16.8	0.11	0.46	0.50	25	0.04	0.060
1096072	Soil			0.72	22.31	32.62	92.6	42	17.0	12.1	1122	4.67	16.8	0.5	1.5	0.5	12.4	0.07	0.44	0.43	25	0.03	0.088
1096073	Soil			0.55	28.67	29.39	82.2	16	28.1	13.8	481	3.72	14.0	0.5	0.8	1.9	11.0	0.12	0.42	0.35	20	0.02	0.056
1096074	Soil			1.05	24.55	20.74	73.2	40	19.8	9.5	468	3.30	12.9	0.7	0.9	0.4	11.7	0.14	0.63	0.35	34	0.05	0.069
1096075	Soil			1.22	27.99	28.95	83.9	42	17.2	13.6	2230	3.39	14.8	0.8	0.6	0.3	11.1	0.20	0.61	0.38	27	0.03	0.133
1096076	Soil			0.93	35.41	31.79	92.5	145	39.6	19.4	898	4.36	20.8	1.7	0.9	3.8	43.7	0.22	0.65	0.39	26	0.44	0.078
1096077	Soil			1.07	21.08	19.00	63.9	111	25.0	11.4	534	3.47	17.0	1.8	0.9	1.5	45.3	0.10	0.56	0.34	39	0.39	0.079
1096078	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1096079	Soil			1.03	28.98	23.82	103.0	139	29.7	12.7	751	4.43	43.2	2.7	1.5	2.1	60.3	0.38	1.55	0.31	31	0.74	0.046
1096080	Soil			0.86	30.05	24.64	76.2	71	31.2	15.4	752	4.14	23.1	1.5	0.9	3.3	30.5	0.18	0.55	0.37	23	0.32	0.053
1096081	Soil			0.67	22.48	23.76	74.3	124	23.0	11.3	984	3.53	29.1	2.4	1.3	1.3	51.9	0.18	0.66	0.29	30	0.74	0.101
1096082	Soil			1.03	25.07	22.39	80.4	125	27.9	12.9	785	3.95	23.2	1.7	1.1	2.5	36.9	0.21	1.05	0.34	31	0.38	0.078
1096083	Soil			0.73	21.31	17.06	80.0	129	23.3	10.5	452	3.03	15.7	1.9	1.8	3.0	29.5	0.26	0.61	0.23	23	0.28	0.059
1096084	Soil			0.80	24.60	17.40	85.2	139	19.8	8.4	474	2.75	15.4	2.7	1.5	1.6	61.9	0.40	0.58	0.29	23	0.66	0.101
118646	Soil			0.80	34.36	18.65	65.1	150	28.6	14.7	510	2.55	21.6	1.8	3.9	4.2	339.0	0.23	0.46	0.25	15	6.82	0.055
118647	Soil			0.52	17.74	26.56	67.2	141	20.9	9.8	541	3.82	6.0	0.3	3.5	2.6	37.2	0.11	0.20	0.32	16	0.35	0.039
118648	Soil			0.74	21.89	23.71	72.1	25	19.0	7.8	157	4.48	6.2	0.2	1.5	2.0	6.6	0.06	0.34	0.33	22	0.05	0.037
118649	Soil			0.56	14.85	14.03	50.3	238	12.6	5.6	167	2.78	5.5	0.2	1.2	1.8	5.9	0.07	0.26	0.32	22	0.03	0.026
118650	Soil			0.74	15.99	21.75	70.8	68	17.8	7.3	248	4.14	14.2	0.3	1.4	2.2	8.9	0.06	0.41	0.26	34	0.05	0.029
1096171	Soil			0.50	23.56	19.65	75.7	163	24.1	10.2	317	3.08	18.3	0.9	1.8	1.9	101.3	0.06	0.50	0.28	15	1.41	0.048
1096172	Soil			0.23	6.65	17.50	168.1	56	6.0	2.3	471	0.83	8.1	0.6	4.9	0.3	28.3	0.27	0.73	0.09	3	7.63	0.068
1096173	Soil			0.37	10.79	22.99	241.0	109	11.1	4.4	665	1.69	16.1	0.8	5.5	0.3	41.0	0.39	1.33	0.13	10	6.93	0.117



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 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1096063	Soil	12.1	17.9	0.24	202.7	0.006	3	1.10	0.005	0.05	<0.1	1.9	0.08	0.20	74	0.9	0.04	2.9	1.85	<0.1	0.04
1096064	Soil	7.9	20.5	0.28	159.5	0.005	2	1.19	0.004	0.07	<0.1	2.9	0.12	0.05	60	0.6	0.05	3.5	3.38	<0.1	0.03
1096065	Soil	7.4	18.2	0.28	102.7	0.004	2	1.20	0.002	0.05	<0.1	3.3	0.10	0.02	22	0.3	0.04	2.8	2.60	<0.1	0.04
1096066	Soil	8.1	15.6	0.21	108.4	0.005	1	0.92	0.004	0.07	<0.1	3.5	0.09	0.05	53	0.4	0.02	2.5	2.22	<0.1	0.03
1096067	Soil	9.1	20.4	0.27	111.0	0.003	2	1.15	0.003	0.07	<0.1	4.7	0.08	0.04	43	0.3	0.06	3.0	2.65	<0.1	0.07
1096068	Soil	6.5	19.4	0.22	152.2	0.004	1	1.05	0.002	0.07	<0.1	2.8	0.12	0.05	52	0.2	0.03	3.4	2.83	<0.1	0.04
1096069	Soil	7.5	20.2	0.23	202.2	0.004	<1	1.18	0.003	0.09	<0.1	3.0	0.12	0.17	86	0.6	0.03	3.4	4.41	<0.1	0.08
1096070	Soil	4.3	11.1	0.09	86.4	0.002	<1	0.61	0.003	0.05	<0.1	2.3	0.10	0.03	42	0.2	0.06	3.3	2.27	<0.1	<0.02
1096071	Soil	6.7	27.1	0.29	44.6	0.005	<1	1.51	0.001	0.06	<0.1	3.0	0.08	0.02	44	0.4	0.04	5.1	5.92	<0.1	0.03
1096072	Soil	5.3	23.9	0.16	58.0	0.008	2	1.02	0.002	0.07	<0.1	1.5	0.05	0.06	61	0.4	0.06	4.5	5.05	<0.1	<0.02
1096073	Soil	4.9	16.3	0.23	48.8	0.002	1	1.17	0.001	0.05	<0.1	2.6	0.10	0.02	108	0.3	<0.02	2.9	3.21	<0.1	0.02
1096074	Soil	8.6	21.5	0.29	62.9	0.008	1	1.27	0.002	0.06	<0.1	1.3	0.10	0.04	48	0.3	0.04	4.0	4.11	<0.1	<0.02
1096075	Soil	4.3	19.1	0.12	77.1	0.003	1	1.06	0.002	0.07	<0.1	1.3	0.16	0.11	62	0.5	0.05	3.9	10.04	<0.1	<0.02
1096076	Soil	15.9	21.3	0.39	118.9	0.004	2	1.36	0.004	0.07	<0.1	8.0	0.11	0.03	110	0.6	0.04	3.3	4.94	<0.1	0.03
1096077	Soil	16.0	22.3	0.29	163.6	0.007	2	1.56	0.003	0.05	<0.1	3.6	0.15	0.03	274	0.4	0.04	3.9	2.54	<0.1	<0.02
1096078	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1096079	Soil	20.0	22.9	0.17	102.2	0.003	1	0.63	0.002	0.04	<0.1	8.6	0.16	0.04	670	0.9	0.06	1.6	0.87	<0.1	0.04
1096080	Soil	14.5	21.5	0.32	97.7	0.002	<1	1.42	0.002	0.05	<0.1	5.4	0.13	0.03	572	0.5	0.03	3.0	1.86	<0.1	0.02
1096081	Soil	22.3	20.2	0.21	184.3	0.005	<1	1.33	0.002	0.04	<0.1	3.5	0.12	0.06	1041	0.4	0.04	3.0	1.26	<0.1	0.03
1096082	Soil	15.5	21.4	0.33	159.6	0.005	<1	1.55	0.002	0.06	<0.1	4.6	0.14	0.03	16056	0.4	0.03	3.4	2.08	<0.1	0.05
1096083	Soil	25.9	24.0	0.74	92.5	0.003	<1	1.30	0.001	0.06	<0.1	5.3	0.08	0.03	403	0.6	0.04	3.0	0.88	<0.1	0.05
1096084	Soil	14.7	18.5	0.37	105.1	0.003	<1	1.10	0.001	0.05	<0.1	3.4	0.08	0.06	375	0.5	0.02	3.1	0.94	<0.1	0.05
118646	Soil	13.5	17.0	0.89	55.9	0.005	<1	0.93	0.005	0.06	<0.1	3.8	0.08	<0.02	287	0.6	0.03	2.4	1.17	<0.1	0.05
118647	Soil	4.2	13.3	0.15	178.9	<0.001	3	1.17	0.002	0.09	<0.1	2.8	0.16	<0.02	38	0.2	0.03	2.8	1.17	<0.1	0.02
118648	Soil	3.1	17.6	0.20	61.6	0.001	3	1.30	0.001	0.09	<0.1	2.4	0.12	<0.02	24	0.2	0.05	3.9	3.17	<0.1	0.02
118649	Soil	4.0	9.9	0.09	52.0	0.002	2	0.71	<0.001	0.08	<0.1	1.5	0.09	<0.02	31	<0.1	0.03	3.3	1.27	<0.1	<0.02
118650	Soil	6.0	19.6	0.25	81.9	0.003	2	1.39	0.001	0.07	0.1	2.1	0.12	<0.02	37	0.2	0.05	4.4	2.92	<0.1	<0.02
1096171	Soil	4.1	14.0	0.23	151.7	<0.001	3	0.91	0.003	0.07	<0.1	4.3	0.13	0.06	200	0.4	0.04	2.4	1.47	<0.1	0.05
1096172	Soil	2.6	4.1	3.90	28.8	0.001	4	0.24	0.006	0.04	<0.1	0.4	0.07	0.04	243	0.3	0.04	0.6	1.27	<0.1	0.02
1096173	Soil	6.5	7.9	3.63	72.7	0.002	4	0.59	0.006	0.05	<0.1	0.7	0.12	0.05	306	0.3	<0.02	1.2	0.99	<0.1	<0.02



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 Vancouver BC V6C 2G8 Canada

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 Report Date: September 12, 2011

Page: 9 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1096063	Soil	0.45	9.3	0.7	<0.05	1.3	15.54	22.0	0.04	<1	0.8	11.3	<10	<2
1096064	Soil	0.45	12.9	1.9	<0.05	1.1	8.23	18.0	0.03	<1	0.7	30.6	<10	<2
1096065	Soil	0.20	10.2	0.7	<0.05	1.1	6.67	32.5	0.04	<1	1.2	22.7	<10	<2
1096066	Soil	0.24	9.3	2.0	<0.05	1.5	10.99	17.7	0.04	<1	0.7	18.4	<10	<2
1096067	Soil	0.20	9.9	1.6	<0.05	2.2	13.41	25.4	0.04	<1	1.0	26.4	<10	<2
1096068	Soil	0.30	12.9	2.6	<0.05	1.2	5.74	16.5	0.03	<1	0.8	15.5	<10	<2
1096069	Soil	0.40	14.3	1.0	<0.05	2.3	14.41	14.2	0.03	<1	1.1	10.3	<10	<2
1096070	Soil	0.16	9.8	1.1	<0.05	0.4	2.72	8.2	0.03	<1	0.4	4.9	<10	<2
1096071	Soil	0.31	11.1	1.0	<0.05	1.1	4.67	15.3	0.05	<1	0.9	25.9	<10	<2
1096072	Soil	0.23	11.2	4.9	<0.05	<0.1	2.91	12.0	0.03	<1	0.5	10.4	<10	<2
1096073	Soil	0.14	9.0	0.6	<0.05	1.0	4.54	19.1	0.04	<1	0.5	28.1	<10	<2
1096074	Soil	0.23	9.9	1.7	<0.05	0.2	4.67	18.1	0.03	<1	0.8	20.1	<10	<2
1096075	Soil	0.16	19.3	1.1	<0.05	0.4	3.04	9.9	0.03	<1	0.7	6.9	<10	<2
1096076	Soil	0.23	10.3	2.7	<0.05	1.3	21.86	41.1	0.04	<1	1.0	26.1	<10	<2
1096077	Soil	0.38	10.0	0.8	<0.05	0.7	13.05	44.0	0.05	<1	0.8	14.4	<10	<2
1096078	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1096079	Soil	0.14	6.3	2.2	<0.05	0.9	42.98	29.4	0.05	<1	1.2	5.4	<10	<2
1096080	Soil	0.18	8.8	0.7	<0.05	1.1	15.20	50.3	0.04	<1	0.9	18.6	<10	<2
1096081	Soil	0.27	7.9	1.3	<0.05	0.8	17.50	47.5	0.04	<1	1.4	10.0	<10	<2
1096082	Soil	0.32	12.2	0.8	<0.05	1.5	15.03	49.4	0.04	<1	1.0	16.5	<10	<2
1096083	Soil	0.14	7.7	1.2	<0.05	1.5	18.74	44.4	0.05	<1	1.1	21.9	<10	<2
1096084	Soil	0.22	8.0	0.8	<0.05	1.6	12.75	26.6	0.04	<1	0.8	15.9	<10	<2
118646	Soil	0.11	3.8	2.1	<0.05	3.2	9.65	24.1	<0.02	<1	0.6	24.7	<10	<2
118647	Soil	0.14	11.9	1.1	<0.05	0.8	3.72	14.2	0.06	<1	0.8	17.2	<10	<2
118648	Soil	0.33	12.8	3.2	<0.05	0.7	1.66	7.3	0.04	<1	0.5	28.2	<10	<2
118649	Soil	0.26	12.7	0.7	<0.05	0.2	1.31	9.7	0.02	<1	0.3	10.0	<10	<2
118650	Soil	0.54	12.1	2.5	<0.05	1.3	2.82	14.8	0.03	<1	0.5	33.6	<10	<2
1096171	Soil	0.24	6.9	0.6	<0.05	2.1	8.61	11.5	0.04	<1	0.8	21.5	<10	<2
1096172	Soil	0.03	2.7	2.9	<0.05	0.7	4.16	5.1	<0.02	<1	0.2	1.9	<10	<2
1096173	Soil	0.07	3.9	1.3	<0.05	0.6	7.67	14.7	<0.02	<1	0.4	4.1	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 10 of 12 Part 1

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WHI11001170.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1096174	Soil			0.36	23.04	25.55	142.5	129	27.2	13.0	466	2.50	76.3	0.6	5.3	3.6	90.6	0.14	1.45	0.27	7	5.62	0.051
1096175	Soil			0.57	21.16	30.06	130.7	137	27.7	11.8	504	2.94	38.5	0.7	2.6	4.0	81.2	0.19	1.04	0.26	10	4.64	0.067
1096176	Soil			0.19	8.87	17.84	108.8	54	10.3	5.2	537	1.62	25.5	0.7	5.3	1.5	100.4	0.19	1.01	0.10	5	14.36	0.061
1096177	Soil			0.68	20.46	27.86	105.0	146	29.1	9.8	229	2.82	8.7	0.9	0.5	2.4	162.4	0.16	0.28	0.25	9	2.23	0.067
1096178	Soil			0.39	29.56	34.75	113.1	260	36.8	16.9	550	4.70	8.1	0.7	<0.2	4.3	66.3	0.11	0.25	0.32	9	0.40	0.044
1096179	Soil			0.52	29.59	35.80	108.7	261	37.6	16.0	397	4.31	8.6	0.6	0.6	3.8	128.4	0.11	0.27	0.38	11	1.77	0.048
1096180	Soil			0.44	23.16	36.09	78.7	240	22.9	8.7	229	3.28	6.9	0.6	0.6	1.6	83.1	0.08	0.22	0.35	11	1.08	0.051
1096181	Soil			0.51	27.04	30.96	99.5	278	29.7	12.4	369	3.51	7.7	0.5	0.6	2.5	62.6	0.13	0.27	0.35	15	0.84	0.068
1096182	Soil			0.60	24.75	29.00	97.4	245	30.4	12.7	408	3.70	8.2	0.6	1.0	2.6	77.3	0.18	0.33	0.34	17	1.10	0.068
1096183	Soil			0.48	22.85	26.19	95.1	253	26.7	9.6	239	3.54	7.6	0.9	0.8	1.9	68.9	0.12	0.26	0.35	17	0.91	0.077
1096184	Soil			0.58	19.67	24.90	84.0	157	20.4	8.0	350	3.25	8.0	0.9	0.8	1.0	77.3	0.18	0.33	0.28	18	1.14	0.084
1096185	Soil			0.58	26.47	35.30	103.3	194	28.6	11.2	240	3.77	8.9	0.6	0.7	2.7	56.5	0.09	0.32	0.37	13	0.66	0.053
1096186	Soil			0.49	16.48	19.44	102.1	167	18.7	7.0	341	2.65	12.8	1.2	1.0	0.7	126.3	0.22	0.80	0.23	16	2.10	0.103
1096187	Soil			0.51	14.79	19.01	80.2	111	17.6	6.5	286	2.41	9.4	0.8	0.9	0.6	129.6	0.14	0.51	0.23	10	2.34	0.072
1096188	Soil			0.62	15.51	24.23	82.4	121	20.5	8.0	460	2.81	8.0	0.9	1.0	1.0	151.1	0.21	0.33	0.21	10	2.57	0.091
1096189	Soil			0.75	25.24	22.73	68.6	226	22.6	9.0	463	3.08	10.6	2.7	3.9	1.6	99.5	0.13	0.49	0.37	29	0.97	0.129
1096190	Soil			0.90	29.20	32.58	96.2	127	27.7	11.7	467	3.64	9.2	1.1	2.0	2.3	53.0	0.21	0.56	0.36	23	0.59	0.075
1096191	Soil			0.55	29.45	27.10	93.6	133	27.4	11.7	384	3.80	8.8	0.9	1.4	3.1	47.3	0.17	0.40	0.32	20	0.40	0.071
1096192	Soil			0.75	23.04	24.15	74.4	61	17.9	8.7	361	3.34	9.8	0.7	0.7	1.2	44.4	0.11	0.38	0.39	26	0.30	0.112
1096193	Soil			0.93	19.09	22.70	60.9	75	16.8	8.7	466	2.50	7.8	0.6	0.4	0.8	92.2	0.10	0.35	0.28	22	1.04	0.139
1096194	Soil			0.59	33.74	32.11	78.9	241	27.9	15.3	806	3.41	12.6	1.2	0.7	2.1	72.3	0.11	0.41	0.36	25	0.78	0.125
1096195	Soil			1.10	24.17	24.40	71.0	50	15.4	8.9	631	3.68	10.4	0.6	1.9	0.3	20.6	0.10	0.52	0.38	36	0.14	0.069
1096196	Soil			1.09	25.01	28.68	79.0	40	17.1	11.2	1197	4.90	14.1	0.7	0.6	0.3	8.2	0.08	0.68	0.39	40	0.03	0.086
1096197	Soil			0.84	41.27	36.56	96.7	29	25.0	18.8	821	4.71	19.9	0.6	0.6	0.7	11.6	0.08	0.47	0.41	29	0.02	0.073
1096198	Soil			1.05	16.65	27.65	69.3	52	12.0	12.9	1503	7.64	10.4	0.8	<0.2	0.4	7.2	0.11	0.57	0.43	43	0.03	0.148
1096199	Soil			0.88	31.35	29.49	77.1	57	24.3	13.2	503	4.31	14.5	0.9	0.3	1.0	15.0	0.13	0.57	0.33	27	0.09	0.061
1096200	Soil			0.69	21.62	15.45	131.6	56	22.8	9.2	339	3.39	11.3	2.5	0.8	1.6	23.4	0.12	0.37	0.28	31	0.16	0.118
1096085	Soil			0.65	20.85	16.27	214.3	104	20.4	9.6	687	2.54	12.8	5.5	1.2	1.2	54.4	0.75	0.48	0.20	24	0.75	0.122
1096086	Soil			0.55	21.59	14.00	79.3	203	19.7	7.2	189	2.78	15.9	4.2	2.8	2.1	48.4	0.13	0.56	0.19	24	0.37	0.071
1096087	Soil			0.84	16.61	15.09	74.4	41	16.1	7.1	320	2.94	10.4	1.6	1.0	0.7	18.3	0.09	0.37	0.25	34	0.15	0.090



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 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1096174	Soil	4.8	7.2	2.57	120.1	0.001	4	0.49	0.005	0.14	<0.1	2.9	0.22	0.04	626	0.4	<0.02	1.4	3.33	<0.1	0.03
1096175	Soil	6.3	9.6	2.14	128.7	0.002	4	0.49	0.006	0.11	<0.1	3.5	0.16	0.04	270	0.4	0.03	1.4	2.38	<0.1	0.04
1096176	Soil	2.5	4.3	6.43	46.9	<0.001	3	0.26	0.006	0.07	<0.1	1.3	0.06	<0.02	283	0.2	<0.02	0.7	1.11	<0.1	<0.02
1096177	Soil	11.3	9.5	0.14	163.8	0.002	7	0.50	0.008	0.13	<0.1	3.0	0.15	0.09	69	0.6	<0.02	1.2	1.42	<0.1	0.04
1096178	Soil	7.4	8.9	0.23	101.7	<0.001	4	0.76	0.013	0.11	<0.1	3.9	0.21	0.14	70	0.3	0.04	1.4	2.54	<0.1	0.05
1096179	Soil	4.3	9.7	0.25	106.1	<0.001	3	0.66	0.007	0.10	<0.1	4.2	0.19	0.20	77	0.6	0.02	1.5	3.28	<0.1	0.04
1096180	Soil	4.3	9.4	0.25	184.8	<0.001	5	0.62	0.008	0.13	<0.1	3.1	0.21	0.13	102	0.3	0.04	1.6	4.96	<0.1	0.02
1096181	Soil	6.5	12.5	0.25	135.4	0.001	4	0.87	0.003	0.10	<0.1	4.1	0.14	0.04	109	0.3	0.03	2.0	1.99	<0.1	0.04
1096182	Soil	7.6	13.2	0.29	130.3	0.002	4	0.89	0.004	0.09	<0.1	4.0	0.12	0.04	72	0.4	0.04	2.2	1.57	<0.1	0.03
1096183	Soil	6.1	12.6	0.25	121.1	0.001	3	0.95	0.003	0.08	<0.1	3.7	0.14	0.06	64	0.5	0.04	2.2	1.53	<0.1	0.04
1096184	Soil	6.2	13.1	0.19	104.9	0.003	3	0.90	0.004	0.07	<0.1	2.4	0.10	0.08	55	0.3	0.04	2.2	2.30	<0.1	0.02
1096185	Soil	4.2	11.9	0.22	97.6	<0.001	4	0.74	0.006	0.09	<0.1	4.0	0.14	0.06	69	0.4	0.04	1.8	2.54	<0.1	0.05
1096186	Soil	7.6	11.3	0.22	143.4	0.002	5	0.77	0.006	0.07	<0.1	1.8	0.10	0.12	179	0.3	<0.02	1.7	0.96	<0.1	0.02
1096187	Soil	4.4	9.4	0.18	105.1	0.002	4	0.56	0.005	0.07	<0.1	1.6	0.10	0.12	112	0.4	<0.02	1.3	0.96	<0.1	0.02
1096188	Soil	6.7	10.7	0.19	139.5	0.001	4	0.51	0.005	0.07	<0.1	2.2	0.10	0.09	122	0.3	<0.02	1.2	1.11	<0.1	0.02
1096189	Soil	10.3	22.0	0.28	192.0	0.005	2	1.38	0.003	0.08	0.1	3.5	0.16	0.09	93	0.6	0.05	3.8	6.77	<0.1	0.09
1096190	Soil	8.6	19.6	0.30	122.9	0.005	2	1.13	0.004	0.08	<0.1	4.2	0.14	0.05	55	0.3	0.03	3.0	3.81	<0.1	0.05
1096191	Soil	9.2	17.4	0.27	89.0	0.004	2	1.09	0.003	0.07	<0.1	5.3	0.09	0.03	55	0.3	0.05	2.8	2.59	<0.1	0.05
1096192	Soil	6.0	17.2	0.18	96.9	0.003	1	1.00	0.002	0.06	<0.1	2.6	0.13	0.05	59	0.3	0.06	3.5	2.98	<0.1	0.03
1096193	Soil	4.3	17.2	0.16	138.5	0.003	2	0.83	0.007	0.07	<0.1	1.9	0.12	0.12	84	0.4	0.02	2.9	2.98	<0.1	0.03
1096194	Soil	13.5	20.7	0.25	164.7	0.002	2	1.33	0.002	0.11	<0.1	6.5	0.18	0.08	151	0.3	0.03	3.6	8.71	<0.1	0.09
1096195	Soil	7.0	20.1	0.20	46.1	0.008	2	1.14	0.002	0.07	<0.1	1.1	0.11	0.04	44	0.4	0.07	4.9	5.56	<0.1	<0.02
1096196	Soil	7.1	24.7	0.21	52.2	0.010	1	1.33	<0.001	0.07	<0.1	1.1	0.09	0.05	55	0.5	0.04	4.8	5.86	<0.1	<0.02
1096197	Soil	5.3	22.7	0.30	39.7	0.007	2	1.47	<0.001	0.07	<0.1	2.3	0.09	0.03	180	0.3	0.10	3.8	5.45	<0.1	<0.02
1096198	Soil	5.5	40.7	0.20	51.7	0.012	2	1.67	<0.001	0.07	<0.1	1.2	0.08	0.10	62	0.6	0.08	8.0	5.99	<0.1	<0.02
1096199	Soil	7.7	19.5	0.23	65.3	0.005	2	1.19	0.002	0.06	<0.1	2.7	0.10	0.03	130	0.3	0.05	3.6	3.47	<0.1	<0.02
1096200	Soil	12.5	23.9	0.40	114.7	0.006	1	1.80	0.002	0.08	<0.1	3.3	0.13	0.05	73	0.3	0.06	4.3	3.02	<0.1	0.08
1096085	Soil	18.0	23.8	0.49	94.5	0.008	2	1.18	0.002	0.08	<0.1	3.0	0.09	0.07	491	0.5	0.05	2.9	1.74	<0.1	0.05
1096086	Soil	18.1	22.9	0.48	91.4	0.004	2	1.27	0.001	0.07	<0.1	4.0	0.11	0.03	8230	0.4	<0.02	2.9	1.27	<0.1	0.05
1096087	Soil	9.5	24.0	0.37	99.7	0.004	2	1.61	<0.001	0.07	<0.1	1.5	0.14	0.04	399	0.2	<0.02	4.8	2.07	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: September 12, 2011

Page: 10 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1096174	Soil	0.04	8.0	1.5	<0.05	2.1	7.78	16.8	0.02	<1	0.6	8.0	<10	<2
1096175	Soil	0.06	7.2	3.7	<0.05	2.5	10.58	20.1	0.03	1	0.6	9.2	<10	<2
1096176	Soil	0.03	3.3	1.4	<0.05	1.0	4.55	6.8	<0.02	<1	0.3	4.5	<10	<2
1096177	Soil	0.15	7.6	5.7	<0.05	1.6	12.66	31.4	0.03	<1	0.7	6.2	<10	<2
1096178	Soil	0.04	6.9	1.6	<0.05	2.6	13.89	23.7	0.03	<1	0.9	13.9	<10	<2
1096179	Soil	0.05	7.0	2.0	<0.05	2.3	12.38	16.3	0.05	<1	0.9	15.7	<10	<2
1096180	Soil	0.07	10.1	1.6	<0.05	1.3	9.93	10.9	0.04	<1	0.8	10.0	<10	<2
1096181	Soil	0.12	8.2	1.8	<0.05	1.8	15.03	19.5	0.04	<1	0.9	16.2	<10	<2
1096182	Soil	0.19	6.9	1.6	<0.05	1.7	14.85	23.4	0.04	<1	0.9	18.2	<10	<2
1096183	Soil	0.17	8.2	1.6	<0.05	1.8	14.45	14.7	0.04	<1	0.9	17.8	<10	<2
1096184	Soil	0.26	7.6	1.6	<0.05	1.2	12.07	14.3	0.03	<1	0.9	16.8	<10	<2
1096185	Soil	0.08	6.9	3.9	<0.05	2.1	12.12	12.9	0.05	<1	1.0	18.7	<10	<2
1096186	Soil	0.27	6.0	0.9	<0.05	1.2	11.43	17.3	0.02	<1	0.7	10.2	<10	<2
1096187	Soil	0.17	5.7	2.3	<0.05	1.1	7.72	12.9	0.03	<1	0.6	9.1	<10	<2
1096188	Soil	0.12	6.5	5.2	<0.05	1.0	10.23	23.6	0.02	<1	0.7	9.0	<10	<2
1096189	Soil	0.46	18.2	1.5	<0.05	1.8	14.22	24.2	0.06	<1	1.0	26.2	<10	<2
1096190	Soil	0.34	12.9	3.1	<0.05	1.6	11.48	27.7	0.05	<1	0.9	27.0	<10	<2
1096191	Soil	0.16	9.6	1.1	<0.05	1.8	13.93	24.7	0.05	<1	0.8	25.7	<10	<2
1096192	Soil	0.23	13.9	1.2	<0.05	0.7	5.77	14.5	0.04	<1	0.8	13.8	<10	<2
1096193	Soil	0.40	13.0	2.1	<0.05	1.3	4.54	10.0	0.03	<1	0.6	7.4	<10	<2
1096194	Soil	0.31	16.8	1.2	<0.05	2.3	34.79	20.9	0.03	<1	1.7	17.4	<10	<2
1096195	Soil	0.25	13.5	2.5	<0.05	<0.1	2.67	13.5	0.03	<1	0.5	12.3	<10	<2
1096196	Soil	0.26	12.0	1.4	<0.05	<0.1	3.28	13.9	0.04	2	0.6	11.0	<10	<2
1096197	Soil	0.18	9.5	4.1	<0.05	<0.1	3.95	11.7	0.04	1	0.8	24.9	<10	<2
1096198	Soil	0.43	12.4	2.8	<0.05	<0.1	2.92	11.3	0.03	<1	0.6	9.3	<10	<2
1096199	Soil	0.26	11.5	3.2	<0.05	0.2	7.75	19.6	0.04	<1	0.9	19.3	<10	<2
1096200	Soil	0.35	16.4	1.4	<0.05	1.5	11.38	25.8	0.04	<1	1.0	28.7	<10	<2
1096085	Soil	0.25	15.1	0.7	<0.05	1.1	14.20	42.5	0.03	<1	0.8	21.4	<10	<2
1096086	Soil	0.17	9.9	0.7	<0.05	1.4	12.60	41.9	0.03	<1	0.8	22.8	<10	<2
1096087	Soil	0.24	12.7	1.5	<0.05	0.5	4.59	21.2	0.03	<1	0.8	29.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1096088	Soil			0.66	26.12	17.88	80.4	174	20.6	6.8	219	2.55	13.8	3.3	2.4	1.3	99.3	0.36	0.69	0.23	22	1.29	0.148
1096089	Soil			0.82	20.90	20.33	71.8	131	25.9	11.0	538	3.42	16.6	2.9	1.7	2.2	28.6	0.13	0.66	0.25	35	0.31	0.061
1096090	Soil			0.68	34.79	26.38	74.7	131	34.3	17.6	663	3.93	18.1	1.7	2.6	5.1	30.6	0.07	0.49	0.32	22	0.21	0.034
1096091	Soil			0.59	36.81	27.59	83.7	119	29.8	18.7	652	3.72	13.5	1.3	1.6	3.9	49.6	0.11	0.38	0.34	25	0.42	0.047
1096092	Soil			0.79	30.78	22.66	83.4	137	22.6	12.4	1059	3.34	13.7	1.0	<0.2	1.1	53.2	0.10	0.52	0.35	26	0.73	0.068
1096093	Soil			0.82	23.12	25.58	62.9	58	20.1	10.4	453	4.52	13.3	0.8	<0.2	2.5	8.2	0.09	0.56	0.29	34	0.04	0.045
1096094	Soil			0.78	25.69	24.15	68.1	136	16.8	8.4	527	4.59	8.2	0.5	0.2	1.4	10.9	0.04	0.54	0.27	32	0.03	0.074
1096095	Soil			0.66	43.31	57.06	116.0	81	31.5	26.8	914	4.51	16.5	0.8	<0.2	1.8	70.0	0.09	0.62	0.39	25	0.20	0.041
1096096	Soil			0.54	26.64	21.68	70.2	219	27.9	11.3	391	3.04	11.0	1.0	1.2	3.6	67.6	0.16	0.59	0.24	20	0.94	0.062
1096097	Soil			0.68	33.30	51.70	93.0	122	35.2	21.9	910	4.50	18.7	1.4	<0.2	4.1	102.6	0.14	0.78	0.36	21	1.22	0.066
1096098	Soil			0.46	28.46	19.53	61.6	149	23.4	10.4	314	2.49	6.5	1.2	<0.2	2.0	114.9	0.10	0.30	0.22	16	1.96	0.056
1096099	Soil			0.57	26.53	20.78	65.4	106	25.5	11.5	350	2.96	8.2	0.8	0.4	3.3	66.2	0.10	0.31	0.24	20	0.75	0.047
1096100	Soil			0.81	25.79	37.11	76.1	154	20.7	11.7	556	5.44	12.6	0.6	<0.2	2.6	7.8	0.08	0.52	0.41	29	0.03	0.048
1096301	Soil			0.89	19.31	14.90	73.9	84	17.6	7.1	280	2.97	10.7	1.0	0.6	0.4	11.3	0.23	0.45	0.23	26	0.07	0.077
1096302	Soil			0.74	18.52	17.96	65.7	132	19.1	9.0	355	3.03	11.9	3.9	2.3	1.5	29.0	0.16	0.40	0.23	35	0.29	0.077
1096303	Soil			0.64	20.97	17.37	92.3	101	21.4	9.1	356	2.95	13.3	4.5	1.3	2.1	33.4	0.25	0.37	0.20	29	0.31	0.077
1096304	Soil			0.69	18.41	16.11	68.9	71	17.5	8.1	390	2.96	12.9	2.6	1.2	1.3	27.6	0.17	0.42	0.22	35	0.29	0.075
1096305	Soil			0.75	13.28	13.78	55.1	65	13.3	5.4	184	2.30	10.2	2.2	<0.2	0.8	48.1	0.10	0.28	0.23	37	0.49	0.077
1097015	Soil			0.75	18.66	17.93	66.2	181	18.5	8.9	484	2.60	13.7	4.4	2.3	1.1	74.4	0.22	0.44	0.19	25	1.07	0.091
1097016	Soil			0.94	28.19	21.21	76.1	189	22.2	11.1	538	2.99	20.5	3.4	3.6	1.4	80.1	0.35	0.53	0.26	21	1.07	0.106
1097017	Soil			0.77	31.61	20.89	74.2	175	26.2	13.4	539	3.02	17.6	2.7	2.2	1.9	78.3	0.21	0.52	0.23	20	1.04	0.061
1097018	Soil			0.62	17.27	13.35	74.1	79	16.0	7.6	354	2.45	9.5	2.0	5.6	1.6	59.4	0.31	0.38	0.24	25	1.02	0.069
1097019	Soil			0.80	17.69	15.79	62.9	118	16.2	6.9	421	2.41	8.2	2.4	2.0	0.8	42.1	0.23	0.35	0.24	26	0.68	0.116
1097020	Soil			0.76	16.91	11.64	55.8	30	14.0	5.7	209	2.74	7.4	0.6	1.3	1.4	12.8	0.09	0.30	0.26	31	0.06	0.029
1097021	Soil			0.69	15.78	16.31	60.5	60	17.7	7.8	363	3.30	9.4	2.1	1.8	2.0	30.8	0.10	0.31	0.25	34	0.42	0.058
1097022	Soil			0.69	21.67	16.04	63.8	63	20.2	8.4	398	3.33	11.3	1.6	1.4	1.8	20.8	0.12	0.35	0.26	33	0.21	0.054
1097023	Soil			0.58	29.12	20.03	89.7	104	23.2	10.2	331	3.29	11.6	1.4	1.8	2.7	40.2	0.18	0.30	0.30	22	0.39	0.075
1097024	Soil			0.59	24.79	21.10	58.3	98	18.7	8.7	491	2.65	8.4	1.8	1.5	1.2	106.7	0.13	0.33	0.26	16	1.66	0.082
1097025	Soil			0.52	22.69	17.67	78.8	51	19.8	9.2	546	2.81	9.1	1.9	0.8	1.2	85.3	0.18	0.32	0.27	21	1.34	0.068
1097026	Soil			0.84	27.04	20.07	75.8	111	19.2	12.6	683	4.21	11.9	0.4	1.1	1.8	6.7	0.09	0.47	0.29	33	0.03	0.046



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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method Analyte	1F15 La		1F15 Cr		1F15 Mg		1F15 Ba		1F15 Ti		1F15 B		1F15 Al		1F15 Na		1F15 K		1F15 W		1F15 Sc		1F15 Tl		1F15 S		1F15 Hg		1F15 Se		1F15 Te		1F15 Ga		1F15 Cs		1F15 Ge		1F15 Hf	
	Unit	ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.001	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	5	0.1	0.02	0.02	0.1	0.02	0.02	0.1	0.02	0.02	0.1	0.02	0.02	
1096088	Soil	23.5	20.0	0.34	97.4	0.006	2	1.14	0.003	0.07	<0.1	3.5	0.09	0.08	473	0.5	0.04	2.8	1.17	<0.1	0.05																			
1096089	Soil	25.1	25.9	0.42	130.8	0.010	2	1.61	0.003	0.07	0.1	4.7	0.13	0.03	488	0.3	<0.02	3.3	1.63	<0.1	0.03																			
1096090	Soil	15.6	22.3	0.48	99.9	0.002	2	1.72	0.001	0.07	<0.1	5.0	0.10	<0.02	435	0.4	0.06	3.3	2.09	<0.1	0.06																			
1096091	Soil	14.4	23.3	0.50	122.9	0.004	2	1.74	0.002	0.08	<0.1	7.2	0.10	0.02	53	0.3	0.09	4.1	2.24	<0.1	0.09																			
1096092	Soil	6.6	21.4	0.39	119.8	0.006	2	1.31	0.003	0.09	<0.1	3.0	0.10	0.05	99	0.4	0.07	4.5	2.47	<0.1	0.02																			
1096093	Soil	6.0	23.4	0.31	49.3	0.006	2	1.67	<0.001	0.07	<0.1	2.2	0.10	0.02	70	0.4	0.06	4.6	2.86	<0.1	0.03																			
1096094	Soil	4.3	21.0	0.25	36.4	0.005	2	1.40	0.001	0.07	<0.1	2.1	0.09	0.05	81	0.3	0.05	5.4	2.97	<0.1	<0.02																			
1096095	Soil	5.0	25.9	0.50	57.3	0.002	2	1.85	<0.001	0.07	<0.1	3.0	0.10	<0.02	42	0.2	0.05	5.1	4.29	<0.1	0.03																			
1096096	Soil	11.7	21.7	0.41	97.0	0.004	3	1.41	0.003	0.07	<0.1	6.1	0.08	0.03	111	0.2	<0.02	3.6	2.21	<0.1	0.06																			
1096097	Soil	11.8	25.6	0.39	157.8	0.002	3	1.82	0.002	0.07	<0.1	9.0	0.12	0.04	132	0.4	0.04	4.3	3.93	<0.1	0.06																			
1096098	Soil	7.4	20.6	0.37	117.9	0.002	4	1.26	0.002	0.09	<0.1	4.5	0.07	0.05	102	0.4	0.03	3.6	2.45	<0.1	0.08																			
1096099	Soil	8.0	22.4	0.50	78.4	0.004	3	1.38	0.002	0.09	<0.1	4.5	0.07	0.03	45	0.3	0.02	3.7	1.41	<0.1	0.07																			
1096100	Soil	4.7	24.9	0.27	38.6	0.003	1	1.69	<0.001	0.06	<0.1	2.8	0.09	0.03	62	0.4	0.06	4.9	3.49	<0.1	0.05																			
1096301	Soil	8.1	20.2	0.30	62.4	0.004	<1	1.27	0.001	0.06	<0.1	0.9	0.10	0.05	138	0.3	0.06	3.8	1.92	<0.1	<0.02																			
1096302	Soil	15.5	24.8	0.45	106.3	0.005	1	1.52	<0.001	0.06	<0.1	2.9	0.13	0.04	109	0.4	0.07	3.7	1.86	<0.1	0.04																			
1096303	Soil	18.9	25.0	0.62	102.0	0.005	<1	1.32	<0.001	0.07	<0.1	3.9	0.12	0.04	103	0.4	0.04	3.2	1.37	<0.1	0.06																			
1096304	Soil	16.5	23.1	0.40	111.7	0.006	<1	1.35	<0.001	0.06	<0.1	2.7	0.12	0.04	64	0.3	<0.02	3.4	1.15	<0.1	0.03																			
1096305	Soil	10.7	24.4	0.41	119.1	0.004	<1	1.47	<0.001	0.05	<0.1	1.8	0.15	0.05	86	0.2	<0.02	4.9	1.30	<0.1	<0.02																			
1097015	Soil	21.3	19.3	0.37	104.0	0.006	2	1.05	0.003	0.05	<0.1	3.2	0.09	0.06	231	0.4	0.02	2.6	0.84	<0.1	0.03																			
1097016	Soil	21.2	17.5	0.24	95.0	0.004	2	1.05	0.003	0.05	<0.1	3.9	0.09	0.07	474	0.4	0.03	2.4	1.13	<0.1	0.05																			
1097017	Soil	23.5	19.5	0.44	77.8	0.004	1	0.99	0.002	0.05	<0.1	4.8	0.09	0.04	306	0.4	0.04	2.5	1.07	<0.1	0.05																			
1097018	Soil	9.5	22.2	0.50	111.3	0.005	2	1.08	0.003	0.06	<0.1	2.8	0.10	0.06	163	0.5	0.02	3.2	1.23	<0.1	0.06																			
1097019	Soil	10.7	21.6	0.33	111.8	0.005	2	1.16	0.003	0.06	<0.1	1.7	0.11	0.09	135	0.5	0.04	3.4	2.59	<0.1	0.03																			
1097020	Soil	7.4	19.9	0.34	52.1	0.004	2	1.33	0.002	0.06	<0.1	1.3	0.10	<0.02	75	0.1	0.04	5.2	1.87	<0.1	<0.02																			
1097021	Soil	10.4	25.0	0.58	133.5	0.002	<1	1.81	0.001	0.06	<0.1	2.5	0.13	0.03	78	0.3	0.03	4.4	1.37	<0.1	0.04																			
1097022	Soil	13.3	25.1	0.45	108.2	0.003	1	1.93	<0.001	0.06	<0.1	2.8	0.16	0.03	208	0.2	0.05	4.6	1.70	<0.1	0.04																			
1097023	Soil	12.2	20.1	0.40	95.0	0.002	2	1.51	0.002	0.10	<0.1	4.1	0.10	0.04	82	0.1	0.06	3.6	1.25	<0.1	0.08																			
1097024	Soil	10.0	17.9	0.32	104.0	0.003	3	1.16	0.004	0.07	<0.1	4.7	0.09	0.10	82	0.2	0.05	2.9	2.22	<0.1	0.05																			
1097025	Soil	5.7	21.9	0.43	85.6	0.004	4	1.42	0.003	0.08	<0.1	2.2	0.11	0.07	96	0.3	0.07	3.8	3.47	<0.1	0.04																			
1097026	Soil	3.7	22.6	0.30	52.9	0.002	1	1.80	<0.001	0.09	<0.1	2.2	0.11	0.02	74	0.2	0.07	5.2	3.49	<0.1	0.03																			



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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 11 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1096088	Soil	0.35	9.7	3.3	<0.05	1.5	18.04	33.6	0.03	<1	1.0	17.8	<10	<2
1096089	Soil	0.42	10.2	0.9	<0.05	0.7	20.08	61.0	0.03	1	1.0	19.4	<10	<2
1096090	Soil	0.17	8.5	1.8	<0.05	2.4	12.12	48.1	0.04	<1	1.2	30.4	<10	<2
1096091	Soil	0.17	8.6	2.0	<0.05	2.8	19.84	29.1	0.03	<1	1.3	35.1	<10	<2
1096092	Soil	0.30	11.8	1.2	<0.05	0.6	6.50	14.1	0.05	<1	0.7	30.0	<10	<2
1096093	Soil	0.53	12.2	1.5	<0.05	1.3	2.71	15.4	0.03	<1	0.6	36.0	<10	<2
1096094	Soil	0.59	9.6	1.7	<0.05	1.0	2.39	8.2	<0.02	<1	0.3	21.0	<10	<2
1096095	Soil	0.17	9.2	3.7	<0.05	1.5	4.22	10.2	0.04	<1	1.1	61.2	<10	<2
1096096	Soil	0.36	8.5	1.6	<0.05	2.3	17.59	23.5	0.03	<1	1.0	38.4	<10	<2
1096097	Soil	0.28	10.4	5.3	<0.05	2.2	26.12	34.0	0.05	<1	1.5	56.1	<10	<2
1096098	Soil	0.30	7.9	2.0	<0.05	3.2	14.71	14.4	0.02	<1	1.0	35.3	<10	<2
1096099	Soil	0.28	8.2	1.5	<0.05	2.7	10.82	16.8	0.03	<1	0.8	41.5	<10	<2
1096100	Soil	0.46	9.5	1.6	<0.05	1.7	2.96	10.6	0.04	<1	0.5	38.3	<10	<2
1096301	Soil	0.24	10.1	0.7	<0.05	0.2	3.95	16.7	0.02	<1	0.6	23.4	<10	<2
1096302	Soil	0.28	10.6	0.6	<0.05	0.9	10.78	47.0	0.04	<1	1.0	23.8	<10	<2
1096303	Soil	0.20	10.4	0.6	<0.05	1.5	13.58	50.9	0.04	<1	1.0	25.0	<10	<2
1096304	Soil	0.30	9.3	0.4	<0.05	0.8	10.32	41.3	0.03	<1	0.7	18.4	<10	<2
1096305	Soil	0.38	10.2	1.0	<0.05	0.7	5.00	22.3	0.03	<1	0.6	19.6	<10	<2
1097015	Soil	0.32	7.7	0.8	<0.05	0.9	16.50	37.4	0.03	<1	0.9	13.6	<10	<2
1097016	Soil	0.26	7.9	1.1	<0.05	1.4	18.45	34.6	0.05	<1	1.1	14.4	<10	<2
1097017	Soil	0.18	5.8	1.0	<0.05	1.3	19.07	41.7	0.03	<1	1.0	21.6	<10	<2
1097018	Soil	0.39	7.4	1.5	<0.05	2.1	7.53	23.2	0.03	<1	0.6	16.5	<10	<2
1097019	Soil	0.35	10.1	1.9	<0.05	1.1	8.70	26.7	0.03	<1	0.8	14.0	<10	<2
1097020	Soil	0.37	11.8	1.4	<0.05	0.4	2.35	17.6	0.02	<1	0.4	23.8	<10	<2
1097021	Soil	0.35	10.0	0.9	<0.05	1.2	6.70	39.4	0.03	<1	0.8	28.4	<10	<2
1097022	Soil	0.27	9.6	1.0	<0.05	1.3	10.61	48.5	0.04	<1	1.1	25.2	<10	<2
1097023	Soil	0.22	7.8	0.8	<0.05	2.3	15.45	28.4	0.04	<1	1.1	25.1	<10	<2
1097024	Soil	0.29	6.6	3.3	<0.05	1.4	19.94	20.2	0.04	<1	1.0	19.7	<10	<2
1097025	Soil	0.50	12.1	1.7	<0.05	1.5	8.33	14.5	0.04	<1	0.7	36.6	<10	<2
1097026	Soil	0.34	11.4	1.4	<0.05	1.3	2.50	10.2	0.04	<1	0.7	37.1	<10	<2



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 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1097027	Soil			0.91	28.45	24.96	73.1	50	16.2	10.5	744	5.00	10.5	0.5	0.7	1.8	6.7	0.09	0.50	0.29	39	0.03	0.060
1097028	Soil			0.78	26.50	21.94	75.0	16	22.9	13.2	575	3.67	10.9	0.5	0.6	2.2	10.5	0.07	0.56	0.26	29	0.05	0.032
1097029	Soil			0.80	31.05	37.75	91.9	133	34.7	18.1	1182	5.56	17.3	1.1	1.2	3.7	32.5	0.15	0.42	0.31	29	0.30	0.074
1097030	Soil			0.52	21.01	29.43	77.4	113	20.3	11.6	531	4.04	10.1	0.9	0.5	2.0	93.6	0.13	0.31	0.29	25	1.31	0.074
1097031	Soil			0.65	25.77	30.95	80.3	261	18.3	10.6	410	4.59	7.7	0.5	0.5	1.9	7.2	0.12	0.37	0.25	28	0.07	0.068
1097032	Soil			0.47	25.59	20.48	65.4	141	23.8	11.5	454	2.75	9.5	0.9	1.2	1.8	123.2	0.10	0.55	0.23	16	2.01	0.053
1097033	Soil			0.53	36.04	24.57	78.5	180	29.1	13.8	520	3.51	7.7	0.7	1.0	3.1	78.3	0.09	0.35	0.26	18	1.22	0.037
1097034	Soil			0.68	24.98	19.98	76.2	183	27.1	11.2	400	3.22	8.6	0.8	0.7	4.2	52.1	0.20	0.41	0.25	23	0.67	0.052
1097035	Soil			0.58	24.34	19.87	64.4	137	23.1	12.0	411	3.29	5.9	0.8	0.5	3.2	29.0	0.12	0.26	0.24	21	0.30	0.061
118498	Soil			0.62	18.07	28.63	133.1	128	15.9	6.7	423	1.89	11.0	1.1	<0.2	0.3	78.8	0.31	0.68	0.25	14	4.04	0.133
118499	Soil			0.41	18.78	24.11	113.6	98	20.5	9.1	477	2.34	25.4	0.6	3.3	2.8	73.8	0.16	0.91	0.20	7	8.50	0.052
118500	Soil			0.32	12.95	21.07	135.4	77	12.5	5.9	607	1.84	24.7	0.8	6.0	1.7	104.3	0.24	1.17	0.13	5	15.32	0.066
1096227	Soil			0.69	34.95	19.61	76.2	191	27.7	13.0	448	3.43	17.5	1.7	3.1	4.1	39.0	0.12	0.49	0.26	21	0.43	0.031
1096228	Soil			0.72	43.03	27.03	100.1	126	32.2	23.0	902	3.60	14.5	1.0	2.0	3.9	44.2	0.17	0.42	0.34	21	0.49	0.080
1096229	Soil			0.61	26.95	20.49	79.5	117	22.9	10.5	448	2.97	12.1	1.5	1.8	1.9	82.6	0.22	0.40	0.27	15	1.22	0.075
1096230	Soil			0.66	35.98	29.69	80.8	109	27.5	17.7	1291	3.43	13.1	1.4	1.1	3.3	75.7	0.21	0.43	0.31	15	1.25	0.072
1096231	Soil			0.86	20.76	14.74	43.7	177	8.9	4.8	227	3.20	8.3	0.3	1.4	0.4	5.8	0.07	0.40	0.25	37	0.04	0.067
1096232	Soil			0.83	18.83	14.47	46.4	140	9.6	5.1	253	3.94	8.8	0.3	0.6	0.7	5.8	0.06	0.47	0.26	38	0.03	0.059
1096233	Soil			0.68	38.33	30.68	82.6	266	26.2	11.7	449	3.43	21.7	3.3	0.8	2.1	164.6	0.07	0.42	0.35	16	0.91	0.044
1096234	Soil			0.65	35.82	32.29	103.4	313	30.8	13.9	557	3.90	17.1	1.8	1.2	2.5	97.5	0.09	0.46	0.33	17	1.04	0.062



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1097027	Soil	4.5	24.4	0.30	37.6	0.005	1	1.78	<0.001	0.07	<0.1	2.0	0.11	0.03	41	0.3	0.04	5.9	4.35	<0.1	0.03
1097028	Soil	5.8	22.8	0.45	47.4	0.004	2	1.63	0.002	0.07	<0.1	2.1	0.08	<0.02	30	0.2	0.05	4.7	3.03	<0.1	0.03
1097029	Soil	9.5	24.9	0.30	68.7	0.002	2	2.22	0.001	0.07	<0.1	5.7	0.14	0.03	74	0.3	0.06	5.0	4.30	<0.1	0.04
1097030	Soil	6.2	20.9	0.27	98.6	0.003	2	1.70	0.004	0.07	<0.1	3.5	0.11	0.05	59	0.2	0.05	4.5	2.91	<0.1	0.03
1097031	Soil	3.3	25.8	0.25	47.1	0.002	<1	2.01	0.001	0.07	<0.1	2.1	0.15	0.06	75	0.3	0.03	5.0	3.60	<0.1	0.05
1097032	Soil	6.2	18.5	0.37	85.2	0.002	4	1.25	0.004	0.08	<0.1	3.9	0.07	0.07	144	0.3	0.04	3.4	1.80	<0.1	0.06
1097033	Soil	3.8	23.8	0.37	111.5	0.001	3	1.55	0.002	0.11	<0.1	5.4	0.11	0.04	120	0.3	0.03	4.3	3.67	<0.1	0.09
1097034	Soil	8.5	24.1	0.44	90.8	0.006	2	1.40	0.004	0.08	<0.1	4.9	0.09	0.02	68	0.3	0.04	3.9	1.91	<0.1	0.07
1097035	Soil	6.1	24.1	0.34	77.7	0.003	2	1.63	0.002	0.12	<0.1	4.7	0.11	0.06	75	0.3	0.03	4.3	2.79	<0.1	0.06
118498	Soil	7.6	10.9	0.58	64.8	0.003	7	0.65	0.006	0.08	<0.1	0.7	0.05	0.18	261	0.5	0.04	1.5	1.01	<0.1	0.03
118499	Soil	3.6	8.3	4.03	61.4	<0.001	2	0.41	0.006	0.08	<0.1	2.5	0.11	<0.02	386	0.3	0.04	1.1	1.78	<0.1	0.03
118500	Soil	3.0	6.1	6.55	45.6	0.001	3	0.32	0.007	0.07	<0.1	1.7	0.08	<0.02	391	0.4	0.02	0.9	1.46	<0.1	<0.02
1096227	Soil	17.8	20.3	0.36	77.5	0.001	1	1.41	0.002	0.08	<0.1	4.5	0.12	0.02	721	0.3	0.06	3.0	1.52	<0.1	0.07
1096228	Soil	11.7	22.8	0.55	121.1	0.002	3	1.59	0.003	0.12	<0.1	6.9	0.12	0.04	81	0.2	0.04	4.1	2.10	<0.1	0.14
1096229	Soil	15.5	16.7	0.38	78.4	0.001	2	1.15	0.003	0.07	<0.1	3.8	0.07	0.07	148	0.3	0.03	2.6	0.72	<0.1	0.08
1096230	Soil	13.5	20.8	0.44	97.0	0.003	4	1.31	0.003	0.10	<0.1	9.5	0.12	0.07	141	0.2	0.05	3.4	3.28	<0.1	0.09
1096231	Soil	3.7	17.0	0.10	37.4	0.003	<1	1.33	0.003	0.07	<0.1	1.1	0.09	0.04	64	0.2	0.06	5.8	2.30	<0.1	<0.02
1096232	Soil	3.9	17.9	0.15	28.7	0.003	<1	1.30	0.002	0.07	<0.1	1.2	0.10	0.03	42	0.3	0.07	5.8	2.72	<0.1	<0.02
1096233	Soil	6.0	18.9	0.46	57.7	0.001	2	1.27	0.005	0.09	<0.1	4.1	0.08	0.06	122	0.6	0.04	3.3	7.77	<0.1	0.07
1096234	Soil	6.9	20.4	0.33	69.6	0.002	2	1.40	0.003	0.08	<0.1	5.9	0.11	0.05	296	0.3	0.04	3.5	5.84	<0.1	0.07



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 12 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001170.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10
1097027	Soil	0.52	9.7	3.4	<0.05	0.9	2.81	11.0	0.04	<1	0.7	35.0	<10
1097028	Soil	0.27	7.8	2.0	<0.05	1.2	3.54	14.4	0.03	<1	0.7	39.8	<10
1097029	Soil	0.31	8.8	1.9	<0.05	1.8	19.51	41.5	0.05	<1	1.4	41.3	<10
1097030	Soil	0.44	10.6	2.8	<0.05	1.3	9.29	20.6	0.05	<1	0.8	40.4	<10
1097031	Soil	0.49	8.5	1.8	<0.05	2.0	3.01	10.6	0.03	<1	0.9	39.1	<10
1097032	Soil	0.26	6.2	3.7	<0.05	2.7	13.82	17.8	0.04	<1	0.9	30.5	<10
1097033	Soil	0.23	8.4	2.2	<0.05	4.5	11.51	11.6	0.03	<1	1.1	42.8	<10
1097034	Soil	0.46	7.3	2.0	<0.05	3.2	12.57	25.4	0.04	<1	1.0	36.7	<10
1097035	Soil	0.31	10.7	1.7	<0.05	2.4	12.62	19.9	0.04	<1	1.1	35.1	<10
118498	Soil	0.31	4.8	2.0	<0.05	0.8	9.42	16.1	<0.02	<1	0.6	5.1	<10
118499	Soil	0.03	4.8	2.4	<0.05	2.1	7.35	12.5	0.02	<1	0.5	8.2	<10
118500	Soil	0.04	3.8	1.5	<0.05	1.2	5.73	8.6	<0.02	<1	0.4	5.8	<10
1096227	Soil	0.16	6.6	0.9	<0.05	2.4	14.53	51.8	0.04	<1	1.1	21.1	<10
1096228	Soil	0.17	7.5	1.7	<0.05	4.8	21.26	28.2	0.04	<1	1.2	34.6	<10
1096229	Soil	0.18	4.9	0.9	<0.05	2.5	19.89	36.8	0.03	<1	1.0	23.1	<10
1096230	Soil	0.11	7.8	4.1	<0.05	2.5	25.41	42.1	0.06	<1	1.2	28.9	<10
1096231	Soil	0.44	8.1	1.3	<0.05	0.8	1.91	8.7	0.03	<1	0.4	6.4	<10
1096232	Soil	0.55	9.1	1.5	<0.05	0.7	1.71	9.3	0.02	<1	0.2	9.4	<10
1096233	Soil	0.21	8.9	1.4	<0.05	2.5	11.00	13.3	0.03	<1	1.5	40.7	<10
1096234	Soil	0.25	8.2	2.8	<0.05	2.4	17.10	20.3	0.04	<1	1.2	40.2	<10



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: September 12, 2011

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI11001170.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
120137	Soil	0.49	37.74	34.80	87.5	125	30.0	16.2	640	4.42	11.3	0.6	0.5	2.2	20.8	0.11	0.62	0.32	17	0.25	0.097
REP 120137	QC	0.43	37.25	34.79	86.1	119	29.7	16.5	655	4.43	11.5	0.5	0.5	2.2	19.9	0.12	0.64	0.32	17	0.26	0.098
118191	Soil	0.66	40.84	40.54	174.3	353	61.1	25.1	793	4.41	10.7	1.0	1.5	6.3	57.6	0.17	0.42	0.43	9	0.37	0.066
REP 118191	QC	0.64	42.40	42.84	178.0	373	65.2	27.1	827	4.61	11.0	1.1	0.4	6.9	61.7	0.24	0.45	0.44	10	0.38	0.072
1096211	Soil	1.24	24.98	24.36	70.4	63	19.8	12.6	688	3.65	13.8	0.6	0.4	0.4	10.6	0.10	0.73	0.38	37	0.06	0.103
REP 1096211	QC	1.33	27.46	24.62	78.0	70	22.7	13.8	742	3.84	14.7	0.6	1.4	0.4	12.1	0.11	0.78	0.40	38	0.06	0.109
1096221	Soil	0.85	38.66	26.31	83.8	165	25.3	14.0	623	3.47	18.1	3.3	4.0	3.1	59.1	0.34	1.05	0.43	21	0.63	0.096
REP 1096221	QC	0.88	38.45	26.38	84.1	165	25.4	13.8	618	3.47	18.1	3.3	3.6	3.2	58.8	0.35	1.02	0.41	21	0.63	0.094
119940	Soil	0.58	42.66	44.66	116.9	287	35.1	14.1	258	4.02	7.0	0.8	0.8	4.2	117.9	0.12	0.40	0.56	12	2.05	0.070
REP 119940	QC	0.61	42.21	44.61	117.4	285	34.7	14.4	258	3.96	7.1	0.8	0.3	4.3	119.9	0.12	0.41	0.56	12	2.02	0.071
1097012	Soil	0.92	34.95	29.31	88.1	153	28.3	15.1	835	3.80	21.5	3.6	2.6	1.5	94.0	0.20	0.62	0.38	25	1.27	0.119
REP 1097012	QC	0.93	33.44	26.78	80.6	156	27.2	14.1	822	3.67	20.2	3.6	0.8	1.6	89.8	0.20	0.62	0.34	24	1.24	0.120
120047	Soil	0.51	21.22	19.83	63.0	85	24.3	10.4	320	3.25	24.5	0.7	1.4	3.3	29.2	0.07	0.63	0.35	23	0.29	0.038
REP 120047	QC	0.59	22.04	20.17	68.0	84	25.0	11.2	322	3.30	23.8	0.7	2.0	3.3	29.5	0.09	0.63	0.28	24	0.30	0.040
1096167	Soil	0.62	24.95	15.93	46.3	120	17.1	5.8	177	2.09	13.5	0.9	0.9	1.5	20.4	0.19	0.28	0.26	32	0.21	0.035
REP 1096167	QC	0.62	23.82	14.63	44.8	121	16.3	5.6	166	1.99	13.2	0.8	1.3	1.3	18.9	0.20	0.26	0.25	31	0.21	0.034
118474	Soil	0.57	15.78	22.17	60.2	53	19.3	10.7	444	3.58	21.0	0.4	0.6	2.5	26.7	0.11	0.42	0.34	24	0.32	0.034
REP 118474	QC	0.62	17.04	22.97	62.5	57	19.8	11.0	468	3.62	21.4	0.5	0.3	2.4	26.4	0.09	0.45	0.33	24	0.32	0.035
118478	Soil	0.85	27.99	19.23	81.4	199	31.2	11.1	304	4.25	30.1	1.1	1.0	3.0	36.2	0.09	0.98	0.36	24	1.01	0.041
REP 118478	QC	0.84	27.53	18.40	79.7	198	29.7	10.7	298	4.13	29.6	1.0	1.7	2.9	34.0	0.11	0.94	0.36	23	0.98	0.041
1096064	Soil	0.81	21.76	24.97	73.2	161	22.5	9.1	371	2.90	9.7	1.7	0.9	1.6	81.5	0.11	0.48	0.35	27	0.68	0.079
REP 1096064	QC	0.80	22.52	24.89	74.2	155	23.6	9.3	364	3.01	10.0	1.8	1.2	1.7	83.5	0.13	0.46	0.35	29	0.73	0.078
1096084	Soil	0.80	24.60	17.40	85.2	139	19.8	8.4	474	2.75	15.4	2.7	1.5	1.6	61.9	0.40	0.58	0.29	23	0.66	0.101
REP 1096084	QC	0.75	23.60	16.82	82.0	132	19.3	8.4	497	2.76	15.1	2.6	0.9	1.6	60.7	0.41	0.58	0.28	24	0.67	0.098
1096178	Soil	0.39	29.56	34.75	113.1	260	36.8	16.9	550	4.70	8.1	0.7	<0.2	4.3	66.3	0.11	0.25	0.32	9	0.40	0.044
REP 1096178	QC	0.42	29.21	34.91	112.5	246	35.9	16.6	548	4.60	8.3	0.7	<0.2	4.2	60.0	0.11	0.26	0.32	9	0.39	0.045
1096085	Soil	0.65	20.85	16.27	214.3	104	20.4	9.6	687	2.54	12.8	5.5	1.2	1.2	54.4	0.75	0.48	0.20	24	0.75	0.122
REP 1096085	QC	0.68	20.90	16.91	219.8	113	20.9	9.9	691	2.53	12.8	5.5	1.0	1.3	56.0	0.81	0.48	0.22	23	0.76	0.120

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: September 12, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI11001170.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
120137	Soil	4.4	15.2	0.13	155.0	<0.001	2	0.96	0.002	0.12	<0.1	7.7	0.09	0.04	67	0.1	0.03	2.3	5.37	<0.1	<0.02
REP 120137	QC	4.2	15.0	0.12	152.5	0.001	2	0.95	0.002	0.11	<0.1	7.8	0.09	0.04	55	0.2	0.04	2.3	5.25	<0.1	0.02
118191	Soil	12.3	8.8	0.16	170.2	0.003	5	0.60	0.008	0.10	<0.1	4.6	0.33	0.12	108	1.1	0.02	1.4	2.68	<0.1	0.07
REP 118191	QC	13.4	9.0	0.18	182.0	0.004	5	0.62	0.009	0.10	<0.1	4.8	0.40	0.12	97	0.9	0.05	1.5	3.00	<0.1	0.11
1096211	Soil	7.6	25.3	0.38	66.3	0.010	2	1.35	0.006	0.07	0.1	1.5	0.11	0.07	71	0.7	0.05	5.6	4.58	<0.1	<0.02
REP 1096211	QC	8.3	27.4	0.43	69.8	0.011	1	1.40	0.006	0.07	0.1	1.6	0.12	0.07	73	0.7	0.03	5.8	4.82	<0.1	0.02
1096221	Soil	32.5	18.2	0.41	51.4	0.003	3	1.10	0.002	0.06	<0.1	6.4	0.09	0.05	1584	0.4	0.05	2.8	1.06	<0.1	0.05
REP 1096221	QC	32.7	17.6	0.40	51.7	0.003	2	1.09	0.002	0.06	<0.1	6.4	0.09	0.05	922	0.3	0.05	2.7	1.04	<0.1	0.06
119940	Soil	6.7	9.7	0.22	95.1	<0.001	4	0.72	0.005	0.10	<0.1	6.1	0.16	0.06	78	0.6	0.02	1.8	2.63	<0.1	0.04
REP 119940	QC	6.7	9.7	0.21	95.8	<0.001	4	0.70	0.005	0.10	<0.1	6.0	0.16	0.06	75	0.4	0.07	1.7	2.59	<0.1	0.04
1097012	Soil	15.0	20.8	0.25	172.1	0.006	3	1.05	0.005	0.06	0.1	4.4	0.16	0.11	327	0.8	0.07	2.9	6.04	<0.1	0.07
REP 1097012	QC	14.0	19.7	0.25	162.2	0.006	4	1.03	0.004	0.06	0.1	4.2	0.13	0.11	219	0.9	0.07	2.7	5.69	<0.1	0.07
120047	Soil	7.7	23.2	0.28	102.7	0.004	3	1.25	0.002	0.11	<0.1	3.6	0.06	<0.02	1693	0.6	<0.02	4.1	1.74	<0.1	0.03
REP 120047	QC	8.0	22.1	0.29	106.6	0.005	3	1.30	0.003	0.12	<0.1	3.6	0.11	<0.02	1243	0.4	<0.02	3.9	1.89	0.1	0.02
1096167	Soil	8.5	15.5	0.15	187.2	0.002	2	1.25	0.003	0.09	<0.1	1.7	0.10	<0.02	46	0.2	0.03	4.0	1.53	<0.1	<0.02
REP 1096167	QC	8.0	14.9	0.13	183.3	0.002	1	1.24	0.003	0.09	<0.1	1.6	0.09	<0.02	40	<0.1	<0.02	4.0	1.55	<0.1	<0.02
118474	Soil	5.3	18.4	0.27	104.6	0.002	<1	1.15	0.002	0.08	<0.1	1.9	0.06	<0.02	16	0.2	0.03	3.9	0.74	<0.1	<0.02
REP 118474	QC	5.2	19.1	0.27	106.0	0.002	<1	1.18	0.002	0.08	<0.1	1.9	0.06	<0.02	18	<0.1	0.04	3.9	0.74	<0.1	<0.02
118478	Soil	9.6	19.7	0.23	109.3	0.003	2	0.95	0.004	0.07	0.1	7.5	0.09	0.03	263	<0.1	0.06	1.9	0.50	<0.1	0.05
REP 118478	QC	9.7	19.2	0.22	111.0	0.003	2	0.93	0.004	0.07	<0.1	7.1	0.08	0.03	276	0.2	0.07	2.0	0.49	<0.1	0.06
1096064	Soil	7.9	20.5	0.28	159.5	0.005	2	1.19	0.004	0.07	<0.1	2.9	0.12	0.05	60	0.6	0.05	3.5	3.38	<0.1	0.03
REP 1096064	QC	8.0	20.1	0.29	166.6	0.005	2	1.26	0.004	0.08	<0.1	3.2	0.13	0.06	60	0.5	0.04	3.5	3.47	<0.1	0.04
1096084	Soil	14.7	18.5	0.37	105.1	0.003	<1	1.10	0.001	0.05	<0.1	3.4	0.08	0.06	375	0.5	0.02	3.1	0.94	<0.1	0.05
REP 1096084	QC	15.3	19.6	0.35	109.0	0.004	<1	1.11	0.001	0.05	<0.1	3.3	0.08	0.06	337	0.6	<0.02	3.1	1.04	<0.1	0.04
1096178	Soil	7.4	8.9	0.23	101.7	<0.001	4	0.76	0.013	0.11	<0.1	3.9	0.21	0.14	70	0.3	0.04	1.4	2.54	<0.1	0.05
REP 1096178	QC	7.3	9.3	0.23	99.2	<0.001	4	0.75	0.012	0.11	<0.1	3.7	0.21	0.13	67	0.3	0.04	1.4	2.49	<0.1	0.04
1096085	Soil	18.0	23.8	0.49	94.5	0.008	2	1.18	0.002	0.08	<0.1	3.0	0.09	0.07	491	0.5	0.05	2.9	1.74	<0.1	0.05
REP 1096085	QC	17.9	24.0	0.51	96.7	0.007	2	1.14	0.002	0.07	<0.1	3.2	0.09	0.07	525	0.5	<0.02	2.9	1.65	<0.1	0.04

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 1 of 2 Part 3

QUALITY CONTROL REPORT

WHI11001170.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
120137	Soil	0.10	15.3	2.2	<0.05	0.5	13.58	15.4	0.06	<1	1.2	18.5	<10	<2
REP 120137	QC	0.10	14.4	2.1	<0.05	0.4	13.17	15.2	0.05	<1	1.1	18.3	<10	<2
118191	Soil	0.07	8.5	1.1	<0.05	3.3	18.84	36.1	0.04	<1	0.8	11.9	<10	<2
REP 118191	QC	0.08	9.7	1.5	<0.05	3.2	20.00	38.5	0.04	<1	1.3	13.2	<10	<2
1096211	Soil	0.55	10.9	5.6	<0.05	<0.1	3.47	16.1	<0.02	1	0.6	28.6	<10	<2
REP 1096211	QC	0.55	12.3	4.7	<0.05	0.1	3.84	17.5	<0.02	<1	1.0	30.0	<10	<2
1096221	Soil	0.14	6.2	0.8	<0.05	1.9	29.44	48.7	0.05	<1	1.2	24.9	<10	<2
REP 1096221	QC	0.16	6.1	1.0	<0.05	1.7	29.49	49.1	0.05	<1	1.2	24.7	<10	<2
119940	Soil	0.05	7.7	2.7	<0.05	1.7	17.34	13.0	0.07	<1	1.0	21.3	<10	<2
REP 119940	QC	0.05	7.7	2.9	<0.05	1.7	17.21	12.9	0.06	1	1.0	20.6	<10	<2
1097012	Soil	0.40	11.9	1.8	<0.05	1.9	19.38	34.2	0.04	<1	1.3	15.9	<10	<2
REP 1097012	QC	0.34	10.8	1.6	<0.05	1.8	18.98	32.8	0.04	<1	1.1	15.4	<10	3
120047	Soil	0.25	17.9	3.0	<0.05	0.9	4.55	17.5	<0.02	<1	0.8	20.1	<10	<2
REP 120047	QC	0.29	19.3	2.4	<0.05	0.9	4.56	17.8	0.02	<1	0.8	20.1	<10	<2
1096167	Soil	0.39	14.1	1.1	<0.05	0.3	5.70	19.9	0.02	<1	0.8	8.5	<10	<2
REP 1096167	QC	0.37	13.7	0.9	<0.05	0.3	5.41	19.2	<0.02	<1	0.8	8.1	<10	<2
118474	Soil	0.33	9.5	0.8	<0.05	0.6	1.84	10.9	0.02	<1	0.7	21.6	<10	<2
REP 118474	QC	0.32	9.8	0.7	<0.05	0.6	1.94	10.9	0.03	<1	0.6	21.4	<10	<2
118478	Soil	0.33	6.5	1.4	<0.05	1.7	19.77	19.0	0.04	<1	1.1	11.6	<10	<2
REP 118478	QC	0.31	6.1	1.3	<0.05	1.6	18.65	19.0	0.04	<1	1.2	12.1	<10	<2
1096064	Soil	0.45	12.9	1.9	<0.05	1.1	8.23	18.0	0.03	<1	0.7	30.6	<10	<2
REP 1096064	QC	0.46	12.7	1.9	<0.05	1.2	8.72	18.1	0.03	1	0.7	31.5	<10	<2
1096084	Soil	0.22	8.0	0.8	<0.05	1.6	12.75	26.6	0.04	<1	0.8	15.9	<10	<2
REP 1096084	QC	0.23	8.1	0.8	<0.05	1.7	13.01	27.9	0.03	<1	0.7	16.2	<10	<2
1096178	Soil	0.04	6.9	1.6	<0.05	2.6	13.89	23.7	0.03	<1	0.9	13.9	<10	<2
REP 1096178	QC	0.04	6.8	1.8	<0.05	2.5	13.76	23.5	0.03	<1	0.8	13.4	<10	<2
1096085	Soil	0.25	15.1	0.7	<0.05	1.1	14.20	42.5	0.03	<1	0.8	21.4	<10	<2
REP 1096085	QC	0.26	15.4	0.6	<0.05	1.4	14.51	42.8	0.04	<1	0.9	23.1	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI11001170.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1096100	Soil	0.81	25.79	37.11	76.1	154	20.7	11.7	556	5.44	12.6	0.6	<0.2	2.6	7.8	0.08	0.52	0.41	29	0.03	0.048
REP 1096100	QC	0.88	27.31	39.22	79.9	133	22.3	12.3	577	5.65	13.1	0.6	0.2	2.7	8.5	0.07	0.58	0.40	31	0.03	0.052
1097026	Soil	0.84	27.04	20.07	75.8	111	19.2	12.6	683	4.21	11.9	0.4	1.1	1.8	6.7	0.09	0.47	0.29	33	0.03	0.046
REP 1097026	QC	0.83	27.91	20.06	73.4	118	19.6	12.5	684	4.22	11.9	0.4	0.5	1.8	6.5	0.09	0.48	0.30	32	0.03	0.045
Reference Materials																					
STD DS8	Standard	12.77	107.2	115.7	292.8	1630	34.7	7.4	579	2.47	26.5	2.9	100.8	7.1	61.7	2.22	5.40	6.59	41	0.75	0.077
STD DS8	Standard	12.56	94.52	117.9	297.9	1688	36.8	7.4	595	2.39	26.8	2.4	153.0	6.0	60.1	2.08	4.99	5.80	41	0.71	0.076
STD DS8	Standard	13.97	118.4	131.9	337.9	1888	41.5	7.7	663	2.74	28.3	2.6	122.2	6.5	76.5	2.44	6.26	7.60	45	0.75	0.092
STD DS8	Standard	12.84	109.6	119.8	293.3	1656	37.1	7.4	575	2.41	24.8	2.8	101.5	6.1	62.3	2.09	5.32	6.11	40	0.71	0.078
STD DS8	Standard	13.62	118.7	129.6	334.4	1838	41.5	8.4	653	2.66	26.3	3.0	120.4	7.6	63.9	2.32	5.76	6.36	44	0.75	0.079
STD DS8	Standard	12.80	103.6	122.5	299.3	1813	36.1	7.2	605	2.40	24.1	2.4	120.3	5.9	67.4	2.03	4.75	5.65	41	0.71	0.076
STD DS8	Standard	13.44	125.6	127.5	296.9	1556	34.5	7.0	565	2.53	21.6	3.4	103.4	8.8	74.4	2.49	6.39	7.51	43	0.74	0.085
STD DS8	Standard	12.73	110.0	118.1	298.8	1751	35.0	7.1	610	2.47	24.1	2.3	130.5	6.0	67.5	2.02	4.84	5.62	39	0.72	0.074
STD DS8	Standard	12.37	104.6	110.4	285.3	1659	35.4	7.4	569	2.28	25.3	2.5	102.1	6.4	62.8	2.46	5.30	6.62	38	0.62	0.075
STD DS8	Standard	11.39	112.9	113.9	300.2	1660	38.7	7.8	582	2.44	26.1	2.5	102.0	5.9	58.6	2.33	5.29	6.40	38	0.64	0.081
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI11001170.1

		1F15 La ppm	1F15 Cr ppm	1F15 Mg %	1F15 Ba ppm	1F15 Ti %	1F15 B ppm	1F15 Al %	1F15 Na %	1F15 K %	1F15 W ppm	1F15 Sc ppm	1F15 Ti ppm	1F15 S %	1F15 Hg ppb	1F15 Se ppm	1F15 Te ppm	1F15 Ga ppm	1F15 Cs ppm	1F15 Ge ppm	1F15 Hf ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1096100	Soil	4.7	24.9	0.27	38.6	0.003	1	1.69	<0.001	0.06	<0.1	2.8	0.09	0.03	62	0.4	0.06	4.9	3.49	<0.1	0.05
REP 1096100	QC	5.0	26.2	0.30	39.5	0.003	2	1.79	<0.001	0.06	<0.1	2.9	0.12	0.03	67	0.4	0.08	5.4	3.81	<0.1	0.04
1097026	Soil	3.7	22.6	0.30	52.9	0.002	1	1.80	<0.001	0.09	<0.1	2.2	0.11	0.02	74	0.2	0.07	5.2	3.49	<0.1	0.03
REP 1097026	QC	3.6	22.4	0.30	52.8	0.002	1	1.82	<0.001	0.09	<0.1	2.2	0.11	0.02	60	0.2	0.06	5.3	3.30	<0.1	0.05
Reference Materials																					
STD DS8	Standard	18.8	108.6	0.63	258.5	0.119	3	0.96	0.093	0.42	2.5	2.6	5.09	0.16	181	4.7	4.51	4.5	2.30	<0.1	0.08
STD DS8	Standard	13.5	110.9	0.61	290.9	0.097	2	0.92	0.087	0.41	2.9	1.8	5.30	0.16	185	5.0	4.84	4.6	2.43	<0.1	0.09
STD DS8	Standard	17.6	123.4	0.64	292.0	0.126	3	0.95	0.086	0.42	3.1	2.3	5.90	0.17	202	5.7	5.21	5.2	2.59	0.2	0.07
STD DS8	Standard	16.2	113.5	0.61	246.6	0.121	2	0.91	0.084	0.41	2.8	2.3	4.97	0.16	188	5.0	4.67	4.4	2.37	0.1	0.06
STD DS8	Standard	16.9	129.3	0.65	282.3	0.125	2	1.00	0.099	0.43	3.3	2.5	5.65	0.17	200	5.5	5.33	4.9	2.59	0.1	0.09
STD DS8	Standard	14.3	120.8	0.60	245.3	0.099	2	0.98	0.097	0.42	3.0	1.9	5.58	0.16	196	5.1	5.11	4.8	2.46	<0.1	0.09
STD DS8	Standard	19.8	108.5	0.63	248.4	0.129	3	0.96	0.091	0.42	2.9	2.8	5.00	0.17	193	4.8	4.32	4.4	2.31	0.1	0.07
STD DS8	Standard	14.3	118.9	0.61	254.4	0.101	3	0.93	0.090	0.41	3.2	2.0	5.41	0.16	208	5.2	5.11	4.9	2.51	<0.1	0.08
STD DS8	Standard	14.5	109.7	0.55	258.7	0.112	2	0.85	0.084	0.39	2.7	2.1	4.79	0.14	168	4.7	4.27	3.9	2.25	<0.1	0.07
STD DS8	Standard	11.6	113.4	0.60	244.9	0.103	2	0.86	0.086	0.40	2.6	2.0	4.94	0.16	158	4.7	4.44	3.9	2.27	<0.1	0.06
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 12, 2011

Page: 2 of 2 Part 3

QUALITY CONTROL REPORT

WHI11001170.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
1096100	Soil	0.46	9.5	1.6	<0.05	1.7	2.96	10.6	0.04	<1	0.5	38.3	<10	<2
REP 1096100	QC	0.45	10.4	1.6	<0.05	1.9	3.19	11.2	0.04	<1	0.6	40.7	<10	<2
1097026	Soil	0.34	11.4	1.4	<0.05	1.3	2.50	10.2	0.04	<1	0.7	37.1	<10	<2
REP 1097026	QC	0.36	10.9	1.3	<0.05	1.5	2.47	9.8	0.03	<1	0.7	39.3	<10	<2
Reference Materials														
STD DS8	Standard	1.27	37.4	6.5	<0.05	1.7	6.73	29.6	2.12	48	4.5	28.3	124	327
STD DS8	Standard	1.15	34.2	6.0	<0.05	1.8	5.42	27.4	1.96	46	5.1	25.4	106	329
STD DS8	Standard	1.37	40.1	7.1	<0.05	2.0	6.79	31.1	2.33	59	5.2	30.5	96	374
STD DS8	Standard	1.31	36.9	6.0	<0.05	1.1	6.42	26.7	2.05	51	4.5	27.3	108	324
STD DS8	Standard	1.39	39.3	7.0	<0.05	2.1	6.24	31.2	2.23	58	5.3	26.2	115	388
STD DS8	Standard	1.45	35.1	5.8	<0.05	1.9	6.04	30.0	1.96	55	5.2	24.9	110	349
STD DS8	Standard	1.37	36.3	7.7	<0.05	1.4	7.12	28.2	2.54	48	4.9	29.3	99	303
STD DS8	Standard	1.49	35.6	5.9	<0.05	2.0	6.17	30.8	1.91	56	5.0	25.4	112	343
STD DS8	Standard	1.14	34.6	6.9	<0.05	1.7	5.45	24.2	2.13	46	4.6	25.1	87	321
STD DS8	Standard	0.97	35.7	6.3	<0.05	1.4	4.51	19.9	2.21	57	4.7	26.4	98	305
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 06, 2011
Report Date: September 10, 2011
Page: 1 of 8

CERTIFICATE OF ANALYSIS

WHI11001171.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-18
P.O. Number: NA-10337
Number of Samples: 193

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: database backup
Simon Ridgway
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, 1F05, and RJSV.

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 10, 2011

Page: 2 of 8 Part 1

CERTIFICATE OF ANALYSIS

WHI11001171.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
1096235	Soil		0.59	36.40	36.80	114.7	75	36.9	22.0	617	4.08	14.5	1.1	<0.2	3.5	80.9	0.14	0.55	0.36	23	0.87	0.066
1096236	Soil		0.51	31.47	27.23	82.9	221	28.5	11.4	288	3.23	7.6	0.7	1.2	3.5	113.6	0.10	0.39	0.31	19	1.43	0.065
1096237	Soil		0.93	44.60	45.06	113.8	141	42.8	23.8	901	4.43	21.8	0.8	1.6	2.7	52.9	0.08	0.75	0.43	20	0.41	0.047
1096238	Soil		1.16	29.25	39.41	99.0	117	24.3	14.6	519	4.58	8.9	0.5	0.5	1.8	37.3	0.19	0.41	0.36	30	0.33	0.072
1096239	Soil		1.33	48.15	69.56	135.6	274	54.7	38.3	1272	5.15	38.3	0.8	1.9	3.1	100.4	0.15	0.82	0.44	21	1.26	0.086
1096240	Soil		1.02	21.22	26.98	79.7	50	24.5	12.0	321	4.62	10.2	0.6	1.0	3.7	9.4	0.14	0.40	0.36	39	0.05	0.037
1096241	Soil		1.39	34.02	37.03	119.6	368	22.2	23.4	2523	5.16	14.3	0.6	1.7	0.4	22.1	0.20	1.07	0.42	41	0.06	0.155
1096242	Soil		1.05	23.04	40.95	81.6	143	13.4	9.5	1771	4.34	9.6	0.4	2.3	0.2	7.9	0.20	0.83	0.42	39	0.05	0.159
1096243	Soil		0.59	42.94	47.40	97.4	70	30.7	25.6	2268	4.55	16.1	0.8	2.8	2.8	14.0	0.11	0.80	0.41	22	0.08	0.066
1096244	Soil		0.58	38.39	28.88	87.7	82	27.3	10.3	331	2.96	11.4	1.5	1.6	2.1	83.1	0.15	0.42	0.37	16	1.20	0.084
1096245	Soil		0.63	39.09	30.78	76.1	114	28.4	16.2	1105	3.07	13.6	1.5	1.2	2.0	69.1	0.17	0.44	0.37	16	1.15	0.104
1096246	Soil		0.58	35.45	27.87	85.8	103	25.5	10.0	215	3.05	13.0	1.3	1.5	2.5	78.6	0.13	0.48	0.37	17	1.11	0.086
1096247	Soil		0.66	28.00	22.87	75.7	40	29.2	13.2	525	3.56	13.5	0.9	1.1	3.2	17.8	0.10	0.37	0.32	22	0.13	0.033
1096248	Soil		0.87	14.50	15.26	62.1	29	15.1	6.0	366	2.92	10.8	1.3	0.6	0.7	16.5	0.07	0.44	0.31	43	0.15	0.103
1096249	Soil		0.86	18.31	16.23	75.5	45	16.1	7.4	463	3.01	11.8	2.5	1.3	1.5	27.6	0.16	0.57	0.25	34	0.29	0.103
1096250	Soil		1.01	17.77	14.72	79.0	97	15.0	6.2	330	2.69	12.1	1.2	<0.2	0.6	19.8	0.13	0.55	0.28	37	0.19	0.104
1096251	Soil		0.89	21.27	19.59	60.4	38	20.1	10.3	398	3.64	14.7	1.0	0.5	1.3	25.8	0.11	0.37	0.30	25	0.25	0.068
1096252	Soil		0.93	22.13	19.62	69.1	43	18.6	10.0	386	3.85	18.1	1.0	0.5	0.8	15.6	0.12	0.47	0.31	28	0.15	0.080
1096253	Soil		1.25	26.94	22.10	65.7	120	29.1	12.1	575	3.72	23.2	2.9	3.4	3.4	20.1	0.26	0.88	0.25	28	0.21	0.074
1096254	Soil		0.95	9.48	13.34	44.2	46	12.0	4.7	183	2.62	9.8	1.3	0.7	0.5	15.0	0.06	0.36	0.27	41	0.14	0.076
1096255	Soil		1.18	25.56	22.97	75.8	132	19.5	11.2	719	3.44	18.3	2.1	1.4	1.7	63.5	0.31	0.60	0.28	23	0.97	0.123
1096256	Soil		2.22	30.34	20.64	80.6	219	20.5	8.8	399	2.93	25.3	2.0	2.7	2.0	42.9	0.36	0.60	0.27	17	0.62	0.117
1096257	Soil		0.87	24.82	25.74	83.2	170	20.3	10.1	475	3.04	18.8	3.6	2.7	1.8	53.2	0.40	0.85	0.26	28	0.64	0.090
1096258	Soil		0.58	15.24	13.57	82.0	120	14.6	5.4	203	2.54	11.9	3.1	1.1	1.8	48.3	0.20	0.52	0.25	27	0.61	0.108
1096259	Soil		0.59	21.49	15.28	79.0	179	18.2	7.5	347	2.78	15.7	3.2	2.0	2.3	36.9	0.23	0.44	0.21	25	0.42	0.074
1096260	Soil		0.63	15.59	14.08	72.1	150	15.5	6.7	389	2.25	11.7	5.8	1.4	1.5	47.4	0.25	0.45	0.18	24	0.47	0.089
120526	Soil		0.50	24.17	37.54	202.3	135	30.2	12.6	440	2.55	22.5	1.1	2.9	4.9	65.5	0.25	1.30	0.33	7	4.34	0.067
120527	Soil		0.67	34.36	35.83	133.3	344	42.3	14.6	394	3.72	9.8	1.2	0.4	4.5	107.0	0.17	0.28	0.35	10	1.52	0.061
120528	Soil		0.49	24.53	26.43	79.4	172	23.6	9.7	378	3.03	5.9	0.8	0.4	1.2	112.4	0.12	0.25	0.26	10	1.52	0.073
120529	Soil		0.48	19.21	29.60	72.6	187	16.9	6.1	237	2.72	6.8	1.7	0.3	1.0	133.4	0.10	0.21	0.30	13	2.15	0.115



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 10, 2011

Page: 2 of 8 Part 2

CERTIFICATE OF ANALYSIS

WHI11001171.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15				
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf			
			ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm				
			0.5	0.5	0.01	0.5	0.001			1	0.01	0.001			0.1	0.02	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1096235	Soil		10.4	25.2	0.47	108.6	0.003	2	1.72	0.003	0.10	<0.1	7.8	0.10	0.04	134	0.5	0.03	4.5	3.59	<0.1	0.09			
1096236	Soil		6.5	23.7	0.49	103.6	0.003	3	1.38	0.004	0.09	<0.1	5.7	0.08	0.05	92	0.2	0.05	4.1	1.93	<0.1	0.14			
1096237	Soil		6.6	27.3	0.48	62.2	0.003	<1	1.44	0.002	0.09	<0.1	5.1	0.09	0.03	57	0.5	0.07	4.2	4.33	<0.1	0.06			
1096238	Soil		3.6	29.3	0.42	109.1	0.002	2	1.61	0.002	0.12	<0.1	2.6	0.11	0.03	21	0.2	0.06	5.5	2.57	<0.1	0.04			
1096239	Soil		8.0	29.2	0.46	160.2	0.005	7	1.36	0.005	0.14	<0.1	10.6	0.15	0.08	83	1.0	0.07	4.1	8.76	<0.1	0.11			
1096240	Soil		7.7	33.5	0.50	76.7	0.005	2	2.19	0.002	0.10	<0.1	2.7	0.11	<0.02	26	0.2	0.05	6.1	2.56	<0.1	0.07			
1096241	Soil		4.5	35.5	0.30	104.5	0.006	2	1.57	0.003	0.09	<0.1	1.3	0.17	0.07	73	0.8	0.04	6.4	4.36	<0.1	<0.02			
1096242	Soil		2.7	24.6	0.14	77.2	0.003	2	1.10	0.001	0.08	<0.1	0.5	0.09	0.06	70	0.3	0.09	5.8	2.81	<0.1	<0.02			
1096243	Soil		4.8	24.1	0.61	85.9	0.003	3	1.78	<0.001	0.08	<0.1	5.6	0.10	0.02	106	0.2	0.06	5.0	7.80	<0.1	0.05			
1096244	Soil		11.5	20.5	0.45	90.7	0.004	4	1.28	0.003	0.07	<0.1	6.4	0.08	0.08	86	0.2	0.04	3.5	1.84	<0.1	0.10			
1096245	Soil		11.6	24.7	0.43	126.1	0.004	5	1.35	0.003	0.09	<0.1	9.1	0.10	0.09	101	0.3	0.05	3.7	5.40	<0.1	0.09			
1096246	Soil		14.3	20.1	0.48	98.9	0.004	4	1.33	0.003	0.08	<0.1	6.5	0.07	0.06	75	0.1	0.05	3.6	1.08	<0.1	0.12			
1096247	Soil		9.7	21.1	0.46	78.8	0.002	1	1.53	<0.001	0.06	<0.1	3.4	0.06	<0.02	68	0.1	0.05	3.7	1.46	<0.1	0.05			
1096248	Soil		10.4	23.9	0.31	140.6	0.006	1	1.65	<0.001	0.05	0.1	1.6	0.16	0.04	117	0.2	0.05	5.3	1.73	<0.1	0.03			
1096249	Soil		12.5	21.6	0.31	155.6	0.006	2	1.49	<0.001	0.06	<0.1	2.7	0.12	0.04	157	0.2	0.04	3.8	1.81	<0.1	0.03			
1096250	Soil		7.7	20.4	0.26	146.4	0.004	1	1.41	<0.001	0.07	<0.1	1.1	0.15	0.06	90	0.2	0.05	4.7	2.36	<0.1	<0.02			
1096251	Soil		7.8	17.4	0.17	71.1	0.004	1	1.23	0.001	0.05	<0.1	2.3	0.11	0.03	127	0.2	0.05	3.2	1.89	<0.1	<0.02			
1096252	Soil		7.3	18.0	0.21	82.2	0.004	1	1.33	<0.001	0.05	<0.1	1.9	0.12	0.04	246	0.2	0.08	3.5	2.10	<0.1	<0.02			
1096253	Soil		20.1	24.5	0.28	85.0	0.006	2	1.90	<0.001	0.04	<0.1	5.1	0.13	0.03	1299	0.6	0.06	2.6	1.29	<0.1	0.05			
1096254	Soil		10.9	20.3	0.26	99.5	0.007	1	1.64	0.001	0.05	0.1	1.3	0.16	0.04	133	0.1	0.05	4.8	1.59	<0.1	<0.02			
1096255	Soil		22.4	16.3	0.23	111.1	0.003	1	1.22	0.001	0.05	<0.1	4.8	0.11	0.06	380	0.4	0.05	2.9	1.38	<0.1	0.05			
1096256	Soil		17.5	9.9	0.13	96.4	0.002	1	0.77	0.002	0.05	<0.1	4.5	0.12	0.05	724	0.3	0.05	1.6	0.68	<0.1	0.07			
1096257	Soil		17.8	21.8	0.41	110.0	0.004	1	1.28	0.002	0.05	<0.1	4.3	0.11	0.05	193	0.4	0.05	3.1	1.08	<0.1	0.06			
1096258	Soil		10.7	19.4	0.35	113.0	0.005	1	1.29	0.002	0.06	<0.1	3.4	0.12	0.06	639	0.2	0.04	3.7	1.24	<0.1	0.08			
1096259	Soil		23.1	21.4	0.36	86.9	0.004	1	1.09	0.001	0.06	<0.1	5.0	0.12	0.04	363	0.5	<0.02	2.9	1.05	<0.1	0.05			
1096260	Soil		21.5	21.0	0.38	92.9	0.006	1	1.03	0.003	0.05	<0.1	3.1	0.09	0.05	221	0.3	0.02	2.6	1.21	<0.1	0.05			
120526	Soil		6.9	8.6	1.90	129.3	0.003	5	0.46	0.006	0.13	<0.1	4.0	0.20	0.04	431	0.4	0.02	1.5	3.25	<0.1	0.05			
120527	Soil		11.8	9.2	0.11	151.1	0.002	5	0.69	0.008	0.12	<0.1	5.1	0.23	0.08	169	0.8	0.04	1.5	2.32	<0.1	0.07			
120528	Soil		7.4	10.5	0.16	120.1	0.003	5	0.56	0.010	0.07	<0.1	3.6	0.10	0.11	54	0.5	0.03	1.3	1.44	<0.1	0.05			
120529	Soil		5.8	9.4	0.12	141.9	0.002	8	0.58	0.010	0.08	<0.1	2.7	0.18	0.14	157	0.7	0.04	1.5	2.88	<0.1	0.06			



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 10, 2011

Page: 2 of 8 Part 3

CERTIFICATE OF ANALYSIS

WHI11001171.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1096235	Soil	0.36	8.9	1.0	<0.05	3.2	22.13	26.6	0.05	<1	1.7	49.0	<10	<2
1096236	Soil	0.27	7.0	9.0	<0.05	4.2	13.09	13.8	0.03	<1	0.8	42.8	<10	<2
1096237	Soil	0.16	7.5	2.7	<0.05	2.6	12.20	17.0	0.04	1	1.4	53.5	<10	<2
1096238	Soil	0.32	13.3	15.9	<0.05	1.4	3.65	9.5	<0.02	<1	1.2	60.9	<10	<2
1096239	Soil	0.24	10.8	3.1	<0.05	3.7	24.70	21.3	0.06	<1	2.4	46.3	<10	<2
1096240	Soil	0.61	16.0	6.3	<0.05	2.9	2.96	15.7	0.03	<1	1.1	76.1	<10	<2
1096241	Soil	0.28	17.7	2.7	<0.05	0.5	3.20	10.1	0.03	<1	0.9	27.7	<10	<2
1096242	Soil	0.18	15.1	20.0	<0.05	0.1	1.70	4.9	0.06	<1	0.4	8.0	<10	<2
1096243	Soil	0.11	8.7	1.1	<0.05	1.7	9.71	14.2	0.05	<1	1.6	55.3	<10	<2
1096244	Soil	0.24	7.0	7.3	<0.05	3.2	23.61	16.5	0.04	<1	1.1	35.4	<10	<2
1096245	Soil	0.22	7.6	2.3	<0.05	2.4	29.35	21.3	0.05	<1	1.4	35.5	<10	<2
1096246	Soil	0.26	6.1	6.5	<0.05	4.6	24.89	22.2	0.06	<1	1.2	34.5	<10	<2
1096247	Soil	0.19	7.3	0.7	<0.05	1.6	6.89	27.7	0.04	<1	0.9	39.0	<10	<2
1096248	Soil	0.40	9.5	1.1	<0.05	0.5	4.78	25.7	0.04	<1	0.6	20.5	<10	<2
1096249	Soil	0.34	14.4	0.6	<0.05	1.1	8.62	40.9	0.03	<1	0.8	18.1	<10	<2
1096250	Soil	0.35	15.7	1.2	<0.05	0.4	3.41	16.0	0.02	<1	0.5	18.0	<10	<2
1096251	Soil	0.29	10.1	0.5	<0.05	0.4	7.49	30.7	0.04	<1	0.8	16.2	<10	<2
1096252	Soil	0.27	10.8	0.7	<0.05	0.2	6.82	22.5	0.04	<1	0.9	20.5	<10	<2
1096253	Soil	0.50	8.7	0.4	<0.05	1.5	15.63	61.8	0.03	<1	1.2	15.6	<10	<2
1096254	Soil	0.45	11.0	0.8	<0.05	0.2	5.91	26.2	0.04	<1	0.6	16.4	<10	<2
1096255	Soil	0.23	9.5	0.4	<0.05	1.2	21.87	44.8	0.04	<1	1.1	16.4	<10	<2
1096256	Soil	0.15	7.5	0.5	<0.05	2.5	18.32	32.5	0.03	<1	1.0	8.2	<10	<2
1096257	Soil	0.28	10.3	0.4	<0.05	1.2	14.04	52.4	0.03	<1	1.1	19.6	<10	<2
1096258	Soil	0.32	13.8	0.7	<0.05	1.9	8.40	20.5	0.03	<1	0.7	20.0	<10	<2
1096259	Soil	0.21	9.2	0.4	<0.05	1.6	18.43	45.7	0.04	1	1.0	18.5	<10	<2
1096260	Soil	0.24	9.6	0.5	<0.05	1.3	16.78	47.7	<0.02	<1	0.8	16.3	<10	<2
120526	Soil	0.10	11.1	1.0	<0.05	2.2	9.73	19.2	0.03	<1	0.7	8.2	<10	<2
120527	Soil	0.12	11.1	1.3	<0.05	2.7	16.76	25.9	0.05	<1	0.8	10.2	<10	<2
120528	Soil	0.11	6.3	0.8	<0.05	2.2	18.40	24.6	0.04	<1	0.7	14.0	<10	<2
120529	Soil	0.19	9.2	2.2	<0.05	2.7	12.26	14.1	0.05	<1	0.9	7.0	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 10, 2011

Page: 3 of 8 Part 1

CERTIFICATE OF ANALYSIS

WHI11001171.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
120530	Soil	0.46	27.39	37.79	77.7	205	18.7	7.5	171	3.25	5.9	0.6	<0.2	2.6	46.5	0.05	0.27	0.40	9	0.18	0.036
120531	Soil	0.43	27.09	27.58	88.2	231	26.1	9.8	283	3.26	5.9	0.8	0.5	1.9	61.7	0.13	0.29	0.36	14	0.87	0.070
120532	Soil	0.47	29.38	30.56	95.9	244	28.6	11.5	364	3.53	6.4	0.5	0.3	2.8	73.1	0.15	0.28	0.39	13	0.80	0.068
120533	Soil	0.55	22.25	28.39	76.4	140	21.3	7.5	292	3.15	7.3	0.7	0.3	1.6	52.5	0.10	0.31	0.36	18	0.60	0.076
120534	Soil	0.58	22.34	23.66	86.7	145	20.0	7.3	305	2.97	6.2	0.9	0.3	1.1	75.0	0.14	0.34	0.32	19	1.07	0.096
120535	Soil	0.53	24.88	30.13	114.4	150	23.2	10.4	364	3.30	8.9	0.7	0.8	2.0	70.3	0.24	0.51	0.37	16	0.99	0.083
120536	Soil	0.70	23.18	22.18	81.3	157	26.2	10.1	369	3.26	7.6	0.6	0.6	2.5	30.7	0.13	0.53	0.26	24	0.32	0.044
120537	Soil	0.40	25.48	28.43	101.7	171	26.2	9.4	330	3.32	12.4	0.8	0.4	1.6	58.6	0.16	0.66	0.33	12	0.95	0.079
120538	Soil	0.41	21.05	26.16	106.0	154	22.4	8.4	468	3.28	11.0	1.2	0.4	1.7	546.6	0.27	0.63	0.28	9	1.28	0.074
120539	Soil	0.40	18.02	23.51	84.8	113	18.0	6.7	212	2.87	9.4	0.7	<0.2	1.4	65.2	0.10	0.55	0.31	13	0.88	0.094
120540	Soil	0.76	23.86	19.61	80.2	121	24.0	10.4	374	3.27	8.5	1.6	0.8	2.3	47.2	0.12	0.58	0.29	29	0.39	0.046
120541	Soil	0.74	24.94	25.92	99.0	35	22.3	10.9	437	3.76	11.8	0.6	0.2	1.2	30.2	0.15	0.41	0.34	21	0.23	0.080
120542	Soil	0.68	39.76	35.51	99.4	52	30.0	16.6	429	4.41	23.9	0.6	0.4	2.2	11.9	0.11	0.64	0.42	19	0.03	0.038
120543	Soil	0.98	26.52	36.46	87.3	42	20.5	12.7	592	4.07	23.9	0.9	2.6	0.6	36.6	0.15	0.68	0.57	36	0.28	0.108
120544	Soil	0.75	35.58	31.14	116.3	158	24.3	12.9	488	3.59	16.7	0.9	2.3	1.4	42.4	0.21	0.48	0.51	34	0.32	0.081
120545	Soil	0.74	44.67	31.84	118.0	25	23.5	14.1	482	5.28	21.2	0.7	1.9	2.1	14.4	0.09	0.45	0.65	33	<0.01	0.060
120546	Soil	0.69	46.68	47.92	106.3	28	29.5	23.5	634	5.67	23.9	0.5	2.2	2.3	33.8	0.12	0.43	0.67	29	0.16	0.058
120547	Soil	1.01	38.06	34.45	104.8	32	26.2	18.1	516	4.62	21.2	0.8	1.3	1.9	13.8	0.16	0.71	0.55	39	0.03	0.066
120548	Soil	1.22	34.58	45.22	74.8	82	21.4	25.8	1349	5.59	15.5	1.6	2.1	0.7	11.0	0.21	0.82	0.49	39	0.05	0.113
120549	Soil	0.74	47.78	47.76	95.8	72	38.0	26.8	963	5.14	22.4	1.6	1.9	4.0	18.6	0.18	0.59	0.52	25	0.10	0.076
120550	Soil	0.66	25.72	18.74	79.3	107	20.2	9.4	300	3.21	16.2	1.7	0.8	2.0	36.4	0.09	0.34	0.41	28	0.29	0.110
612351	Soil	1.01	25.19	24.33	55.7	72	17.4	11.8	389	3.46	19.7	1.7	1.3	2.8	36.4	0.12	0.45	0.38	29	0.34	0.102
612352	Soil	1.36	27.85	28.13	87.9	57	17.9	9.3	323	3.74	24.0	2.8	1.5	0.7	37.3	0.57	0.77	0.41	41	0.35	0.102
612353	Soil	1.19	26.56	26.43	75.0	74	24.8	13.1	543	3.79	25.4	2.4	2.7	2.3	29.4	0.28	0.86	0.32	43	0.30	0.072
612354	Soil	1.10	29.34	26.01	66.5	253	20.1	11.0	325	3.30	27.4	3.9	4.2	4.1	54.3	0.40	0.59	0.34	35	0.73	0.063
612355	Soil	0.98	29.47	26.64	84.6	200	25.0	13.6	540	3.38	24.7	5.2	3.1	3.0	47.2	0.42	0.66	0.33	32	0.70	0.087
612851	Soil	0.79	20.48	26.10	81.0	70	17.1	13.9	717	3.43	12.6	0.8	0.4	2.1	33.3	0.26	0.40	0.36	34	0.29	0.062
612852	Soil	0.65	30.94	36.55	77.5	66	28.9	19.0	608	4.13	17.3	1.4	1.0	5.3	39.4	0.19	0.45	0.41	28	0.59	0.054
612853	Soil	0.67	32.61	32.66	87.5	69	28.9	18.3	457	4.18	16.7	0.9	0.6	4.6	41.0	0.13	0.42	0.41	29	0.62	0.050
612854	Soil	0.37	79.59	170.2	142.1	288	45.0	60.0	2888	4.46	14.6	1.1	0.9	4.4	43.8	0.11	0.69	0.66	19	0.17	0.047



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 10, 2011

Page: 3 of 8 Part 2

CERTIFICATE OF ANALYSIS

WHI11001171.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
120530	Soil	2.8	7.3	0.05	82.7	<0.001	2	0.36	0.011	0.09	<0.1	4.8	0.16	0.11	105	0.2	0.03	1.2	3.45	<0.1	0.03
120531	Soil	7.8	12.0	0.21	122.8	0.002	3	0.85	0.003	0.07	<0.1	4.5	0.13	0.05	88	0.3	0.04	1.9	1.32	<0.1	0.06
120532	Soil	7.3	11.9	0.23	110.6	0.001	3	0.78	0.003	0.08	<0.1	5.3	0.12	0.04	79	0.3	0.03	1.8	1.25	<0.1	0.05
120533	Soil	5.0	13.9	0.17	116.1	0.002	2	0.98	0.003	0.06	<0.1	3.4	0.12	0.06	80	0.3	0.04	2.6	1.96	<0.1	0.05
120534	Soil	4.9	13.6	0.18	116.9	0.003	2	0.97	0.003	0.06	<0.1	2.7	0.12	0.08	47	0.4	0.04	2.5	1.64	<0.1	0.06
120535	Soil	6.1	11.7	0.18	114.7	0.003	3	0.79	0.005	0.07	<0.1	4.1	0.12	0.07	82	0.3	0.07	2.4	1.40	<0.1	0.08
120536	Soil	7.8	15.9	0.26	106.7	0.009	1	1.03	0.005	0.05	<0.1	4.0	0.09	0.03	40	0.2	0.03	2.4	1.37	<0.1	0.03
120537	Soil	9.7	10.2	0.14	404.4	0.001	2	0.80	0.003	0.06	<0.1	4.2	0.10	0.06	157	0.3	0.03	1.8	0.84	<0.1	0.05
120538	Soil	10.6	9.1	0.12	172.9	0.001	3	0.61	0.006	0.06	<0.1	4.4	0.11	0.07	142	0.3	<0.02	1.3	1.22	<0.1	0.06
120539	Soil	4.6	10.7	0.14	139.4	0.002	2	0.88	0.003	0.06	<0.1	3.2	0.11	0.07	63	0.3	0.03	2.2	1.34	<0.1	0.07
120540	Soil	10.3	20.4	0.35	112.2	0.011	1	1.22	0.004	0.06	<0.1	4.1	0.09	0.03	51	0.4	0.05	3.2	2.82	<0.1	0.06
120541	Soil	4.7	15.6	0.15	69.7	0.003	1	0.84	0.003	0.06	<0.1	2.7	0.09	0.03	43	0.1	0.07	2.4	1.96	<0.1	0.03
120542	Soil	4.8	14.8	0.14	36.6	0.002	<1	0.67	0.002	0.05	<0.1	3.6	0.11	<0.02	100	0.2	0.05	1.8	3.19	<0.1	<0.02
120543	Soil	8.3	21.7	0.13	114.6	0.007	2	0.84	0.002	0.06	<0.1	2.0	0.16	0.05	162	0.2	0.05	3.6	4.64	<0.1	<0.02
120544	Soil	14.0	30.8	0.37	138.4	0.007	3	1.58	0.005	0.10	<0.1	3.6	0.14	0.05	69	0.2	0.05	5.0	15.91	<0.1	<0.02
120545	Soil	7.2	24.0	0.14	52.1	0.005	2	0.97	<0.001	0.05	<0.1	4.0	0.09	0.02	97	0.3	0.07	3.7	5.70	<0.1	<0.02
120546	Soil	4.8	26.3	0.29	59.9	0.004	3	1.12	<0.001	0.07	<0.1	4.4	0.07	0.02	285	0.1	0.10	3.5	6.48	<0.1	<0.02
120547	Soil	9.3	35.8	0.37	74.3	0.007	3	1.75	<0.001	0.08	<0.1	2.9	0.15	0.03	106	0.3	0.05	4.8	8.84	<0.1	<0.02
120548	Soil	11.1	42.6	0.32	68.8	0.019	2	2.02	0.001	0.08	<0.1	1.9	0.11	0.12	80	0.4	0.05	4.4	9.14	<0.1	<0.02
120549	Soil	14.6	29.3	0.28	86.3	0.004	3	1.55	0.002	0.06	<0.1	6.0	0.12	0.04	150	0.3	0.07	3.0	5.98	<0.1	0.02
120550	Soil	15.5	26.5	0.27	141.7	0.003	3	1.46	0.002	0.07	<0.1	3.7	0.14	0.04	87	0.1	0.04	3.8	3.52	<0.1	0.03
612351	Soil	16.3	23.0	0.18	147.7	0.003	2	1.47	<0.001	0.07	<0.1	4.7	0.13	0.05	135	0.3	0.04	3.6	1.52	<0.1	0.06
612352	Soil	11.5	23.9	0.15	106.0	0.006	2	1.25	0.001	0.06	<0.1	1.7	0.15	0.04	359	0.3	0.04	4.4	2.01	<0.1	<0.02
612353	Soil	16.6	34.9	0.40	154.9	0.010	2	1.79	0.003	0.06	0.1	3.4	0.16	0.04	590	0.4	0.03	4.3	1.70	<0.1	0.02
612354	Soil	28.3	32.2	0.47	209.1	0.005	3	1.54	0.001	0.07	<0.1	5.7	0.15	0.03	351	0.3	0.04	4.4	1.67	<0.1	0.05
612355	Soil	36.7	34.4	0.47	158.4	0.008	3	1.62	0.002	0.06	<0.1	5.4	0.13	0.04	311	0.3	0.04	3.9	1.75	<0.1	0.03
612851	Soil	8.5	28.0	0.30	90.4	0.008	2	1.28	0.002	0.10	<0.1	2.6	0.08	0.04	27	0.2	0.04	4.7	1.92	<0.1	0.02
612852	Soil	9.8	35.3	0.45	106.8	0.003	3	1.79	0.001	0.07	<0.1	6.4	0.10	0.03	35	0.2	0.05	4.9	3.30	<0.1	0.05
612853	Soil	7.6	35.4	0.46	110.5	0.004	3	1.82	0.002	0.11	<0.1	4.8	0.11	0.02	23	0.2	0.05	5.1	3.19	<0.1	0.05
612854	Soil	11.4	37.8	0.77	152.5	0.003	3	2.06	<0.001	0.09	<0.1	6.4	0.17	<0.02	59	0.1	0.07	5.7	10.74	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 10, 2011

Page: 3 of 8 Part 3

CERTIFICATE OF ANALYSIS

WHI11001171.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
120530	Soil	0.06	7.9	0.6	<0.05	1.3	6.68	7.4	0.04	<1	0.7	7.1	<10	<2
120531	Soil	0.15	7.8	0.8	<0.05	1.9	17.25	16.8	0.04	<1	1.0	17.3	<10	<2
120532	Soil	0.09	6.5	0.8	<0.05	1.9	17.10	16.8	0.05	<1	0.9	18.2	<10	<2
120533	Soil	0.21	10.3	1.7	<0.05	1.6	8.92	13.7	0.04	<1	0.9	20.6	<10	<2
120534	Soil	0.31	9.5	0.7	<0.05	1.9	9.43	9.7	0.04	<1	0.8	17.3	<10	<2
120535	Soil	0.27	7.2	1.1	<0.05	2.4	12.74	17.7	0.03	<1	0.8	19.7	<10	<2
120536	Soil	0.26	7.0	0.6	<0.05	1.2	10.24	17.5	0.03	<1	0.7	18.1	<10	<2
120537	Soil	0.13	6.3	0.8	<0.05	1.7	19.97	18.2	0.04	<1	1.1	14.7	<10	<2
120538	Soil	0.12	7.4	0.6	<0.05	1.7	16.82	24.2	0.04	<1	0.9	12.1	<10	<2
120539	Soil	0.19	9.0	0.4	<0.05	1.8	9.51	12.3	0.04	<1	1.0	15.0	<10	<2
120540	Soil	0.42	11.4	0.8	<0.05	1.3	10.04	30.2	0.04	<1	0.7	28.2	<10	<2
120541	Soil	0.14	10.5	1.1	<0.05	0.7	5.56	15.7	0.04	<1	0.8	13.6	<10	<2
120542	Soil	0.10	6.3	1.7	<0.05	0.3	5.49	20.6	0.05	<1	1.1	12.6	<10	<2
120543	Soil	0.26	16.9	1.0	<0.05	0.3	5.60	18.0	0.05	1	0.7	8.5	<10	<2
120544	Soil	0.46	22.0	1.6	<0.05	0.5	20.15	21.0	0.04	1	0.9	37.2	<10	<2
120545	Soil	0.28	13.0	1.0	<0.05	0.5	4.30	13.8	0.05	<1	0.7	14.6	<10	<2
120546	Soil	0.23	9.7	2.1	<0.05	0.5	4.63	8.9	0.06	<1	0.8	25.1	<10	<2
120547	Soil	0.41	15.3	1.0	<0.05	0.5	4.83	18.1	0.05	<1	0.8	37.0	<10	<2
120548	Soil	0.73	13.1	1.2	<0.05	0.2	9.05	26.2	0.06	<1	0.9	18.3	<10	<2
120549	Soil	0.23	11.2	2.2	<0.05	1.0	18.49	35.6	0.06	<1	1.7	31.4	<10	<2
120550	Soil	0.22	17.1	0.9	<0.05	1.0	13.91	32.0	0.05	<1	1.0	25.9	<10	<2
612351	Soil	0.27	12.9	1.0	<0.05	1.6	14.68	35.6	0.05	<1	1.0	15.9	<10	<2
612352	Soil	0.32	14.1	0.8	<0.05	0.4	7.84	25.2	0.05	1	0.6	12.6	<10	<2
612353	Soil	0.51	12.7	0.7	<0.05	0.8	10.23	50.8	0.05	<1	0.9	18.9	<10	<2
612354	Soil	0.39	16.5	0.7	<0.05	1.5	18.37	39.7	0.05	<1	1.0	27.8	<10	<2
612355	Soil	0.41	13.3	1.0	<0.05	1.2	25.43	59.5	0.05	<1	1.1	23.3	<10	<2
612851	Soil	0.55	16.6	0.9	<0.05	1.0	3.98	18.4	0.04	<1	0.5	31.2	<10	<2
612852	Soil	0.46	12.6	1.8	<0.05	2.4	13.75	30.2	0.06	<1	1.1	54.1	<10	<2
612853	Soil	0.39	14.4	0.8	<0.05	2.1	7.68	19.1	0.06	<1	1.0	60.6	<10	<2
612854	Soil	0.09	8.1	3.4	<0.05	2.1	18.65	31.4	0.05	<1	2.4	82.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 10, 2011

Page: 4 of 8 Part 1

CERTIFICATE OF ANALYSIS

WHI11001171.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1096261	Soil			1.27	31.86	23.23	123.6	180	30.7	14.2	389	3.03	32.6	1.4	4.9	4.2	65.8	0.48	1.33	0.30	45	1.71	0.118
1096262	Soil			1.23	34.48	23.73	123.0	208	33.5	13.7	375	2.95	26.5	2.1	1.6	3.8	65.7	0.66	1.02	0.31	41	1.50	0.139
1096263	Soil			0.90	28.35	62.23	279.4	215	28.5	12.7	1075	3.27	34.5	1.7	3.6	4.5	47.6	1.01	1.58	0.30	28	3.64	0.133
1096264	Soil			1.06	33.20	40.31	96.6	150	28.7	13.9	449	2.75	43.3	1.8	3.5	1.3	46.2	0.41	2.47	0.37	31	1.61	0.099
1096265	Soil			0.48	43.13	70.48	69.3	113	32.9	21.9	552	4.35	47.5	0.6	2.5	4.4	21.5	0.05	0.79	0.56	9	0.68	0.038
1096266	Soil			0.48	33.63	44.69	172.7	161	35.3	16.2	357	3.17	34.2	1.0	5.1	4.8	58.9	0.19	1.05	0.44	11	2.24	0.070
1096267	Soil			0.42	14.46	32.41	276.8	109	12.2	5.5	803	1.75	50.5	1.4	5.9	1.2	53.7	0.82	1.89	0.17	11	10.63	0.112
1096268	Soil			0.57	17.63	35.45	250.8	131	15.7	7.2	792	2.08	33.8	1.6	6.9	1.3	34.1	0.86	1.77	0.18	18	5.57	0.125
1096269	Soil			0.62	18.81	46.59	260.2	139	20.5	8.0	686	2.24	41.1	2.0	11.4	2.3	35.9	0.65	2.86	0.20	21	0.65	0.128
1096270	Soil			0.80	23.00	47.58	235.2	161	18.7	9.3	1108	2.23	38.7	4.2	11.1	1.0	68.6	0.89	3.82	0.24	22	7.74	0.178
1096271	Soil			0.24	13.22	26.99	243.2	118	8.9	5.1	1074	1.58	102.4	1.6	34.1	0.6	39.3	0.58	4.12	0.12	7	10.47	0.117
1096272	Soil			0.26	11.99	33.07	780.4	105	5.0	3.2	887	0.96	54.8	1.7	9.4	0.3	30.1	2.66	8.78	0.07	6	8.14	0.115
1096273	Soil			0.23	7.05	20.99	267.8	65	4.2	3.0	1224	0.91	14.6	0.7	2.6	0.2	28.9	1.83	2.00	0.07	6	8.98	0.091
1096274	Soil			0.86	26.25	43.13	941.1	215	21.4	13.2	1340	2.76	56.6	1.9	6.3	0.8	43.3	2.77	5.08	0.24	27	4.61	0.256
1096275	Soil			0.50	26.74	37.31	150.7	90	21.2	14.2	759	3.15	23.5	0.8	2.1	1.7	33.7	0.40	1.36	0.42	21	2.08	0.161
1096276	Soil			0.46	24.70	48.96	110.5	67	17.1	14.5	407	3.27	19.9	0.7	0.6	2.4	11.0	0.21	0.67	0.48	13	0.26	0.065
1096277	Soil			0.75	19.89	29.63	98.0	17	14.3	9.4	166	2.62	13.5	0.6	0.9	0.6	4.5	0.16	1.06	0.42	28	0.02	0.038
1096278	Soil			0.89	20.78	22.28	61.7	26	14.6	12.4	578	2.29	18.8	0.5	0.5	0.5	3.6	0.10	0.64	0.41	27	0.01	0.044
1096279	Soil			0.78	17.45	22.14	45.9	85	13.6	9.5	301	2.38	10.2	0.6	0.7	0.4	8.1	0.11	0.46	0.39	28	0.05	0.050
1096280	Soil			0.48	21.48	28.16	36.8	26	17.4	16.6	627	2.79	7.1	0.4	3.9	2.4	6.6	0.05	0.34	0.43	23	0.03	0.034
1096281	Soil			1.00	30.34	29.77	121.8	171	34.7	13.6	313	3.07	12.9	1.1	5.8	5.8	62.1	0.27	0.58	0.31	21	0.69	0.092
1096282	Soil			0.97	25.98	24.97	129.0	150	25.6	9.9	335	2.71	61.4	1.0	4.5	2.6	43.1	0.51	1.58	0.25	33	0.80	0.115
1096283	Soil			0.69	28.94	31.15	99.9	104	30.6	12.4	338	2.81	20.6	0.8	4.2	4.4	42.7	0.23	1.13	0.32	13	0.43	0.060
1096284	Soil			0.69	19.91	20.42	96.1	52	21.0	7.6	290	2.74	78.9	0.8	3.8	1.7	29.9	0.19	1.57	0.30	26	0.30	0.084
1096285	Soil			0.53	23.95	27.92	169.9	168	21.8	8.3	241	2.24	102.2	1.3	7.1	1.1	87.9	0.45	2.54	0.31	21	2.06	0.184
1096286	Soil			0.52	25.99	36.58	166.4	126	28.8	10.1	243	2.52	147.8	1.4	9.8	2.0	56.8	0.31	4.21	0.33	16	1.22	0.135
1096287	Soil			0.27	13.42	32.94	262.6	92	12.4	5.7	1838	2.36	195.8	1.2	7.2	0.4	50.3	0.85	6.10	0.13	10	10.40	0.156
1096288	Soil			0.36	15.46	27.94	117.4	148	16.3	5.7	266	1.27	67.9	1.2	12.5	1.0	82.6	0.26	2.37	0.16	9	2.59	0.129
1096289	Soil			0.62	37.74	63.16	71.7	222	30.8	11.4	377	2.35	28.7	1.7	3.8	0.7	93.4	0.21	0.71	0.40	14	3.73	0.143
1096290	Soil			0.49	22.63	43.62	139.3	157	20.4	6.4	230	2.17	94.1	3.0	9.2	0.9	56.7	0.19	2.61	0.30	18	1.81	0.190



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 4 of 8 Part 2

CERTIFICATE OF ANALYSIS

WHI11001171.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
			ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
			0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02	
1096261	Soil		20.5	35.3	0.43	191.1	0.044	3	1.48	0.012	0.07	0.2	4.4	0.10	0.03	271	0.4	0.02	4.0	1.21	<0.1	0.04
1096262	Soil		20.8	32.4	0.37	239.2	0.039	4	1.53	0.012	0.07	0.1	4.3	0.13	0.04	215	0.5	0.03	3.8	1.54	<0.1	0.06
1096263	Soil		18.4	24.1	1.89	152.7	0.022	4	1.05	0.009	0.07	0.1	4.2	0.12	0.03	361	0.4	0.03	2.5	1.58	<0.1	0.08
1096264	Soil		19.9	23.3	0.24	112.8	0.012	3	0.99	0.008	0.06	0.1	2.6	0.11	0.09	280	0.5	0.12	2.7	0.83	<0.1	0.03
1096265	Soil		6.8	8.8	0.27	141.8	<0.001	3	0.29	0.002	0.14	<0.1	6.3	0.25	0.19	251	0.1	0.03	1.2	6.47	<0.1	0.03
1096266	Soil		10.4	10.9	0.73	175.7	0.003	6	0.67	0.005	0.13	<0.1	6.2	0.22	0.03	455	0.4	<0.02	1.6	7.85	<0.1	0.05
1096267	Soil		7.3	10.7	5.70	70.8	0.008	4	0.40	0.011	0.04	<0.1	1.7	0.04	<0.02	558	0.4	<0.02	1.1	1.28	<0.1	0.03
1096268	Soil		10.8	14.9	3.43	92.4	0.010	4	0.77	0.009	0.04	<0.1	1.8	0.08	0.04	376	0.4	0.03	1.6	0.78	<0.1	0.04
1096269	Soil		12.9	16.9	0.22	100.8	0.012	3	0.72	0.005	0.06	0.1	2.4	0.12	0.03	292	0.4	0.03	2.0	1.34	<0.1	0.04
1096270	Soil		14.8	17.1	4.45	106.7	0.012	4	0.87	0.012	0.05	0.1	1.7	0.08	0.04	409	0.4	0.08	1.8	0.68	<0.1	0.03
1096271	Soil		8.0	6.7	6.17	45.6	0.003	3	0.28	0.011	0.03	<0.1	1.0	0.07	<0.02	316	0.3	0.04	0.7	0.42	<0.1	0.03
1096272	Soil		3.4	5.9	4.94	57.2	0.005	3	0.27	0.012	0.02	<0.1	0.7	0.05	0.03	1498	0.3	<0.02	0.9	0.31	<0.1	<0.02
1096273	Soil		3.3	6.0	5.58	59.3	0.004	3	0.34	0.012	0.02	<0.1	0.5	0.03	0.02	978	0.3	0.02	0.7	0.24	<0.1	<0.02
1096274	Soil		18.6	22.6	2.21	137.4	0.014	5	1.18	0.009	0.07	0.2	1.8	0.10	0.09	1735	0.4	0.04	3.0	1.06	<0.1	0.03
1096275	Soil		27.9	17.7	0.29	133.0	0.004	6	1.15	0.003	0.14	<0.1	3.1	0.10	0.11	121	0.2	0.05	2.7	1.08	<0.1	0.04
1096276	Soil		6.8	10.0	0.08	344.7	0.003	3	0.55	0.001	0.14	<0.1	4.7	0.10	0.04	159	0.1	0.06	1.7	2.34	<0.1	0.05
1096277	Soil		8.2	15.0	0.08	65.5	0.006	1	0.77	<0.001	0.09	<0.1	1.1	0.08	0.02	76	0.2	0.03	3.3	1.95	<0.1	<0.02
1096278	Soil		7.8	13.4	0.05	74.9	0.005	2	0.49	<0.001	0.14	<0.1	1.1	0.10	0.03	31	0.1	0.04	3.2	2.88	<0.1	<0.02
1096279	Soil		9.7	16.8	0.08	132.4	0.008	3	0.73	0.002	0.14	<0.1	1.1	0.09	0.04	28	<0.1	0.04	3.5	1.89	<0.1	<0.02
1096280	Soil		7.7	19.6	0.16	105.7	0.004	3	1.13	<0.001	0.19	<0.1	2.2	0.15	0.03	25	0.2	0.04	4.4	2.27	<0.1	<0.02
1096281	Soil		13.8	17.7	0.21	141.5	0.010	3	1.03	0.005	0.09	<0.1	4.9	0.17	<0.02	137	0.4	0.02	2.5	1.52	<0.1	0.09
1096282	Soil		13.9	23.1	0.34	134.3	0.027	3	1.12	0.009	0.06	0.2	3.6	0.08	0.02	301	0.4	0.05	2.7	0.65	<0.1	0.05
1096283	Soil		9.9	11.0	0.12	72.8	0.005	3	0.58	0.004	0.08	<0.1	4.6	0.12	<0.02	226	0.4	0.03	1.5	0.87	<0.1	0.06
1096284	Soil		9.8	18.8	0.20	108.5	0.003	2	1.26	0.002	0.07	<0.1	2.7	0.17	0.03	102	0.3	<0.02	3.2	1.25	<0.1	0.04
1096285	Soil		12.3	19.6	0.18	118.7	0.004	4	1.16	0.006	0.09	<0.1	2.2	0.17	0.10	610	0.5	0.06	2.8	0.97	<0.1	0.08
1096286	Soil		11.7	16.6	0.16	93.7	0.005	6	0.79	0.005	0.15	0.1	3.5	0.25	0.04	224	0.3	0.02	2.2	2.97	<0.1	0.07
1096287	Soil		5.9	9.9	4.35	132.5	0.003	5	0.50	0.012	0.06	0.5	0.9	0.18	0.07	424	0.5	0.04	1.4	0.81	<0.1	0.03
1096288	Soil		8.0	10.0	0.02	76.9	0.002	6	0.51	0.004	0.09	0.1	1.3	0.11	0.06	370	0.5	0.03	1.2	0.82	<0.1	0.06
1096289	Soil		18.6	13.6	0.17	135.6	0.002	5	0.89	0.005	0.09	<0.1	1.5	0.14	0.11	464	0.5	0.12	1.8	0.28	<0.1	0.05
1096290	Soil		14.2	15.9	0.16	92.0	0.004	4	0.93	0.005	0.07	0.1	1.8	0.11	0.11	459	0.4	0.05	2.3	0.88	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 10, 2011

Page: 4 of 8 Part 3

CERTIFICATE OF ANALYSIS

WHI11001171.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1096261	Soil	0.70	10.1	1.2	<0.05	1.9	14.57	32.9	0.03	<1	0.7	16.1	<10	<2
1096262	Soil	0.69	10.8	1.3	<0.05	2.7	17.81	31.3	0.04	<1	0.8	15.5	<10	<2
1096263	Soil	0.47	8.3	0.8	<0.05	3.3	17.01	28.6	0.04	<1	0.7	11.2	<10	<2
1096264	Soil	0.52	7.3	0.7	<0.05	1.3	18.64	32.8	0.04	<1	0.6	11.0	<10	<2
1096265	Soil	0.06	10.3	1.1	<0.05	1.4	12.38	16.2	0.05	<1	1.0	2.0	<10	<2
1096266	Soil	0.20	13.1	1.3	<0.05	2.1	17.06	20.4	0.05	<1	0.8	6.7	<10	<2
1096267	Soil	0.17	4.1	0.6	<0.05	1.2	8.10	13.4	<0.02	<1	0.4	4.6	<10	<2
1096268	Soil	0.23	4.9	1.1	<0.05	1.4	10.61	19.3	0.02	<1	0.4	7.2	<10	<2
1096269	Soil	0.27	6.2	0.4	<0.05	1.4	12.67	24.6	<0.02	<1	0.5	7.0	<10	<2
1096270	Soil	0.26	6.2	3.7	<0.05	0.9	15.38	23.4	0.02	<1	0.5	7.3	<10	<2
1096271	Soil	0.07	2.2	0.4	<0.05	0.9	9.57	12.5	<0.02	<1	0.3	2.6	<10	<2
1096272	Soil	0.10	2.3	3.3	<0.05	0.7	4.61	6.5	<0.02	<1	0.2	2.2	<10	<2
1096273	Soil	0.06	2.1	1.3	<0.05	0.4	4.62	6.2	<0.02	<1	0.2	1.7	<10	<2
1096274	Soil	0.40	9.5	1.2	<0.05	0.9	17.44	33.1	0.03	<1	0.6	8.8	<10	<2
1096275	Soil	0.27	10.0	0.9	<0.05	1.2	22.53	31.4	0.05	<1	1.0	9.8	<10	<2
1096276	Soil	0.19	12.0	1.3	<0.05	1.1	6.61	18.0	0.04	<1	0.7	3.4	<10	<2
1096277	Soil	0.30	14.2	0.9	<0.05	0.1	2.67	17.2	0.02	<1	0.3	4.1	<10	<2
1096278	Soil	0.18	16.8	2.5	<0.05	<0.1	2.16	14.0	0.03	<1	0.2	2.1	<10	<2
1096279	Soil	0.28	19.7	1.4	<0.05	<0.1	2.65	17.9	0.03	<1	0.3	4.3	<10	<2
1096280	Soil	0.36	20.1	1.6	<0.05	0.5	2.75	18.3	0.04	1	0.8	18.0	<10	<2
1096281	Soil	0.32	8.4	2.6	<0.05	4.3	13.68	28.5	0.04	<1	0.8	13.7	<10	<2
1096282	Soil	0.50	5.5	0.7	<0.05	2.1	11.60	25.2	0.03	<1	0.6	12.2	<10	<2
1096283	Soil	0.21	6.6	1.3	<0.05	2.5	11.85	19.2	0.03	<1	0.8	6.9	<10	<2
1096284	Soil	0.26	13.9	0.7	<0.05	1.2	7.99	24.9	0.04	<1	0.7	12.8	<10	<2
1096285	Soil	0.30	8.3	2.3	<0.05	2.0	15.97	21.6	0.04	<1	0.8	11.2	<10	<2
1096286	Soil	0.29	9.3	0.8	<0.05	2.5	15.59	24.4	0.04	1	0.7	9.9	<10	<2
1096287	Soil	0.15	4.4	2.4	<0.05	1.0	8.39	12.8	<0.02	<1	0.5	5.1	<10	<2
1096288	Soil	0.13	4.2	0.4	<0.05	2.1	11.30	20.2	<0.02	<1	0.5	5.2	<10	<2
1096289	Soil	0.18	4.8	2.8	<0.05	1.0	19.06	29.9	0.03	<1	0.6	8.6	<10	<2
1096290	Soil	0.32	5.7	0.8	<0.05	1.3	18.03	19.5	0.03	<1	0.7	8.0	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 10, 2011

Page: 5 of 8 Part 1

CERTIFICATE OF ANALYSIS

WHI11001171.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1096291	Soil			0.68	21.09	41.40	108.1	123	22.6	9.7	327	2.11	236.9	1.3	5.6	0.4	71.2	0.34	2.56	0.24	17	5.07	0.204
1096292	Soil			0.67	22.14	39.03	92.0	138	19.8	10.4	496	2.47	176.3	2.1	9.7	0.7	61.2	0.31	3.22	0.28	24	2.02	0.204
1096293	Soil			0.67	21.69	20.35	81.9	87	22.4	8.2	253	2.88	9.7	0.7	1.8	2.5	39.4	0.13	0.43	0.29	28	0.32	0.070
1096294	Soil			0.44	23.66	24.05	85.9	100	25.8	12.8	297	2.76	15.6	0.8	1.7	4.2	28.9	0.12	0.50	0.33	18	0.24	0.049
1096295	Soil			0.87	20.44	20.85	94.3	138	21.3	9.6	367	2.16	26.7	1.2	4.3	1.7	184.1	0.45	1.13	0.20	28	11.41	0.145
1096296	Soil			0.91	25.55	19.03	104.9	181	27.0	9.7	309	2.73	29.0	1.8	3.6	1.9	52.4	0.30	0.96	0.26	37	1.00	0.127
1096297	Soil			0.83	22.24	37.29	133.5	152	25.8	9.8	480	2.65	56.8	2.2	4.0	1.4	45.5	0.34	1.46	0.29	30	0.95	0.139
1096298	Soil			0.74	29.97	54.09	189.2	131	25.5	11.5	412	2.70	46.4	1.8	5.0	1.1	83.5	0.44	1.45	0.34	25	4.14	0.184
1096299	Soil			0.69	27.29	28.03	121.9	140	19.6	9.9	535	2.34	89.5	1.3	5.2	0.6	89.1	0.37	2.51	0.30	19	3.05	0.197
1096300	Soil			1.05	23.07	59.95	175.3	141	43.6	20.8	1149	2.79	55.8	1.6	6.9	1.8	41.4	0.64	2.53	0.30	23	0.87	0.121
612356	Soil			0.41	19.19	30.37	221.6	100	16.8	6.7	1195	2.71	78.3	1.2	22.3	1.2	146.5	0.38	2.87	0.18	9	9.35	0.123
612357	Soil			0.69	17.64	31.55	176.7	122	22.1	8.8	440	1.86	55.1	1.6	6.4	1.7	136.0	0.46	2.11	0.20	14	10.12	0.139
612358	Soil			0.41	10.29	17.07	95.5	93	11.2	4.6	702	1.60	27.3	1.1	5.1	0.8	27.3	0.25	1.36	0.12	14	7.99	0.103
612359	Soil			0.54	20.27	67.76	217.8	260	22.1	5.2	345	1.58	62.9	3.4	8.3	1.9	54.6	0.30	2.85	0.18	12	1.68	0.278
612360	Soil			0.50	18.20	37.57	121.4	252	15.0	6.9	1157	2.16	38.0	2.1	55.2	0.6	51.0	0.34	5.51	0.20	12	10.83	0.206
612361	Soil			0.58	20.60	35.65	1508	98	17.7	10.8	668	2.44	48.5	0.9	4.3	1.2	46.0	3.00	3.78	0.32	16	1.93	0.193
612362	Soil			0.65	20.37	74.99	575.2	201	22.4	13.5	2856	5.02	91.4	1.1	47.6	1.1	25.3	0.78	6.72	0.25	16	4.10	0.198
612363	Soil			0.66	15.17	28.26	299.7	130	16.4	9.1	1212	2.61	40.1	1.0	3.3	0.6	22.4	0.65	2.21	0.22	25	1.75	0.140
612364	Soil			0.35	9.80	23.45	315.7	67	7.3	4.5	964	1.35	25.9	0.7	4.5	0.3	34.5	1.10	3.64	0.09	10	12.24	0.127
612365	Soil			0.69	12.39	28.41	62.4	43	9.6	6.5	261	2.06	15.9	0.4	1.3	0.2	4.6	0.09	1.54	0.27	30	0.06	0.042
612366	Soil			0.59	39.67	57.36	44.4	133	31.9	15.8	434	4.08	10.3	0.5	2.2	4.9	5.6	0.03	0.29	0.38	7	0.15	0.031
612367	Soil			0.69	28.52	54.51	232.0	144	25.6	8.5	292	2.36	65.5	2.1	6.3	0.9	53.7	0.48	2.32	0.34	23	3.13	0.209
612368	Soil			0.62	23.27	54.34	111.4	141	22.4	10.3	378	2.36	94.7	1.4	4.1	1.0	78.2	0.33	1.62	0.27	18	6.15	0.157
612369	Soil			0.33	10.01	22.58	97.3	69	8.4	3.8	138	0.86	23.1	2.1	3.7	0.5	262.9	0.21	0.69	0.12	8	16.05	0.176
612370	Soil			0.62	24.22	35.42	83.7	98	23.3	9.4	173	2.07	54.9	1.9	3.5	1.4	104.9	0.23	1.46	0.28	20	5.82	0.200
612371	Soil			0.56	22.95	42.87	392.8	46	20.5	9.8	972	4.07	567.3	0.9	10.0	1.4	17.8	0.32	17.25	0.25	32	0.75	0.131
612372	Soil			0.31	22.47	30.83	54.6	42	22.6	11.7	360	2.23	17.0	0.7	5.4	1.3	20.6	0.14	0.79	0.34	13	1.35	0.127
612373	Soil			0.96	32.60	66.38	122.7	232	34.0	12.5	266	3.06	26.4	1.5	10.0	1.1	59.0	0.27	1.27	0.30	21	2.90	0.132
612374	Soil			1.15	24.50	55.42	171.8	223	85.8	40.2	466	3.22	57.4	1.7	9.4	2.2	66.7	0.21	0.98	0.20	13	1.32	0.098
612375	Soil			0.43	10.72	48.41	357.0	147	11.8	4.5	755	1.88	58.7	1.2	44.3	0.4	68.8	0.86	5.00	0.09	13	13.34	0.144



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 10, 2011

Page: 5 of 8 Part 2

CERTIFICATE OF ANALYSIS

WHI11001171.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
1096291	Soil	11.5	14.8	0.73	69.2	0.003	4	0.91	0.007	0.07	0.1	1.0	0.14	0.12	1538	0.5	0.04	1.8	0.50	<0.1	<0.02
1096292	Soil	28.6	18.1	0.22	87.0	0.006	4	1.13	0.005	0.06	0.2	2.1	0.14	0.12	728	0.5	0.05	2.5	0.71	<0.1	0.04
1096293	Soil	11.0	19.5	0.23	137.5	0.003	2	1.39	0.003	0.08	<0.1	3.3	0.16	0.02	74	0.2	<0.02	3.2	1.26	<0.1	0.04
1096294	Soil	11.6	14.9	0.17	110.5	0.005	3	1.03	0.002	0.11	<0.1	4.6	0.15	<0.02	126	0.1	<0.02	2.4	1.82	<0.1	<0.02
1096295	Soil	11.1	19.2	0.30	121.2	0.022	3	1.12	0.012	0.07	0.1	2.7	0.11	0.03	179	0.4	<0.02	2.5	1.45	<0.1	0.04
1096296	Soil	15.9	25.6	0.36	153.6	0.016	3	1.36	0.009	0.07	0.2	3.4	0.14	0.04	257	0.4	0.05	3.4	1.38	<0.1	0.05
1096297	Soil	14.2	22.7	0.26	145.7	0.007	2	1.24	0.005	0.06	0.1	2.9	0.18	0.08	275	0.5	0.03	3.2	1.86	<0.1	0.07
1096298	Soil	15.8	17.6	0.48	93.7	0.006	4	1.09	0.006	0.09	0.1	2.1	0.10	0.06	309	0.5	0.11	2.5	0.69	<0.1	0.03
1096299	Soil	20.5	16.6	0.22	117.2	0.003	7	1.00	0.007	0.09	0.1	1.5	0.13	0.17	489	0.4	0.07	2.4	0.42	<0.1	0.03
1096300	Soil	12.0	19.1	0.19	153.2	0.007	2	0.97	0.004	0.09	0.1	4.0	0.26	0.08	333	0.5	0.04	2.2	6.00	<0.1	0.06
612356	Soil	7.5	9.9	3.25	101.8	0.004	5	0.44	0.008	0.08	0.1	2.0	0.16	0.04	477	0.6	0.02	1.2	1.38	<0.1	0.04
612357	Soil	8.6	14.3	2.49	95.9	0.008	5	0.72	0.010	0.09	0.1	2.7	0.17	0.03	593	0.6	0.03	1.5	5.35	<0.1	0.05
612358	Soil	7.1	11.3	4.39	62.7	0.007	3	0.70	0.010	0.05	<0.1	1.4	0.07	0.03	161	0.5	0.03	1.3	0.58	<0.1	0.04
612359	Soil	10.9	12.7	0.19	127.1	0.002	4	0.79	0.005	0.11	<0.1	1.6	0.18	0.07	257	0.9	0.03	1.9	0.58	<0.1	0.13
612360	Soil	10.3	10.4	5.54	71.8	0.003	5	0.72	0.009	0.06	0.1	1.2	0.09	0.07	232	0.5	0.11	1.3	0.45	<0.1	0.03
612361	Soil	8.7	13.0	0.35	85.4	0.003	4	0.87	0.005	0.09	<0.1	2.9	0.09	0.11	837	0.4	0.06	2.6	0.61	<0.1	0.08
612362	Soil	9.9	15.3	1.81	130.7	0.004	4	1.00	0.006	0.07	0.1	1.9	0.14	0.11	339	0.6	0.03	2.1	0.65	<0.1	0.07
612363	Soil	13.5	20.3	0.56	100.5	0.006	3	1.10	0.005	0.07	0.1	1.2	0.10	0.09	263	0.4	0.03	2.5	0.66	<0.1	0.03
612364	Soil	6.3	8.0	6.69	57.7	0.004	3	0.44	0.009	0.04	<0.1	0.8	0.04	0.06	671	0.4	<0.02	1.0	0.50	<0.1	<0.02
612365	Soil	6.8	10.5	<0.01	53.9	0.006	1	0.60	0.002	0.09	<0.1	0.8	0.08	0.03	41	0.2	0.04	3.2	1.53	<0.1	<0.02
612366	Soil	14.0	9.8	0.10	65.3	<0.001	2	0.27	0.002	0.14	<0.1	9.1	0.17	<0.02	217	0.1	0.03	0.8	4.92	<0.1	0.06
612367	Soil	18.0	18.2	0.84	78.0	0.005	6	1.12	0.008	0.11	0.1	1.9	0.13	0.10	304	0.4	0.10	2.5	0.80	<0.1	0.03
612368	Soil	13.4	14.5	1.52	68.5	0.005	5	0.89	0.006	0.12	0.1	2.2	0.11	0.06	1690	0.4	0.04	1.9	1.08	<0.1	0.03
612369	Soil	4.1	7.4	1.24	70.9	0.003	8	0.46	0.011	0.10	<0.1	0.8	0.08	0.10	75	0.4	0.03	1.2	1.62	<0.1	0.05
612370	Soil	13.1	16.2	0.57	77.5	0.008	6	1.00	0.010	0.13	0.2	2.5	0.14	0.07	264	0.4	0.04	2.4	2.10	<0.1	0.04
612371	Soil	12.4	19.6	0.24	207.7	0.004	1	1.44	0.002	0.08	2.1	3.2	0.27	0.05	727	<0.1	0.06	4.4	1.39	<0.1	0.05
612372	Soil	17.3	9.1	0.17	95.8	0.002	5	0.87	0.004	0.13	<0.1	2.8	0.19	0.08	33	0.2	0.06	2.4	0.77	<0.1	0.05
612373	Soil	10.6	13.3	0.65	66.7	0.004	3	0.88	0.004	0.08	0.1	2.0	0.16	0.08	404	0.6	0.12	2.1	0.98	<0.1	0.03
612374	Soil	25.1	12.9	0.24	281.5	0.003	3	1.56	0.006	0.14	<0.1	3.5	0.47	0.20	454	0.3	0.03	1.7	7.84	<0.1	0.06
612375	Soil	5.3	8.9	5.57	63.1	0.004	4	0.44	0.010	0.05	<0.1	0.7	0.15	0.02	761	0.6	<0.02	1.2	0.48	<0.1	0.03



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 10, 2011

Page: 5 of 8 Part 3

CERTIFICATE OF ANALYSIS

WHI11001171.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1096291	Soil	0.26	5.7	4.3	<0.05	0.7	15.50	18.3	0.03	<1	0.7	6.1	<10	<2
1096292	Soil	0.43	6.0	0.9	<0.05	1.1	23.79	39.7	0.04	<1	0.8	8.7	<10	<2
1096293	Soil	0.22	12.7	1.0	<0.05	0.9	8.45	26.9	0.03	<1	0.7	15.7	<10	<2
1096294	Soil	0.18	12.1	0.7	<0.05	0.5	12.93	30.9	0.03	<1	0.8	13.4	<10	<2
1096295	Soil	0.43	7.8	2.1	<0.05	1.3	9.51	20.9	0.02	<1	0.5	11.7	<10	<2
1096296	Soil	0.53	10.1	0.7	<0.05	1.6	13.00	27.0	0.03	<1	0.7	14.1	<10	<2
1096297	Soil	0.48	9.1	2.2	<0.05	2.3	13.77	26.1	0.03	<1	0.7	12.7	<10	<2
1096298	Soil	0.28	7.0	0.7	<0.05	1.1	15.49	25.7	0.03	<1	0.8	10.7	<10	<2
1096299	Soil	0.39	6.1	1.4	<0.05	0.9	18.11	31.3	0.03	<1	0.7	9.5	<10	<2
1096300	Soil	0.35	8.4	2.0	<0.05	2.3	15.10	39.8	0.04	<1	1.1	11.4	<10	<2
612356	Soil	0.13	5.4	2.2	<0.05	1.5	8.48	15.6	<0.02	<1	0.4	5.3	<10	<2
612357	Soil	0.25	6.4	2.4	<0.05	1.4	9.85	18.0	0.03	<1	0.5	7.4	<10	<2
612358	Soil	0.16	4.2	1.0	<0.05	1.1	7.20	13.3	<0.02	<1	0.4	6.4	<10	<2
612359	Soil	0.13	5.1	0.5	<0.05	4.5	17.28	23.2	0.02	<1	0.6	4.8	<10	<2
612360	Soil	0.10	3.7	3.0	<0.05	0.9	11.78	16.9	<0.02	<1	0.5	4.6	<10	<2
612361	Soil	0.29	6.5	0.8	<0.05	1.9	11.02	15.5	<0.02	<1	0.7	7.2	<10	<2
612362	Soil	0.15	5.2	2.6	<0.05	1.5	11.84	19.8	0.02	<1	0.5	5.9	<10	<2
612363	Soil	0.27	7.1	0.5	<0.05	0.7	10.49	26.8	0.02	<1	0.5	9.0	<10	<2
612364	Soil	0.10	4.1	2.7	<0.05	0.4	6.12	12.5	<0.02	<1	0.3	3.9	<10	<2
612365	Soil	0.29	10.9	0.7	<0.05	0.2	1.91	13.2	<0.02	<1	0.2	2.5	<10	<2
612366	Soil	0.05	9.5	7.4	<0.05	0.5	17.02	34.9	0.05	<1	0.7	3.7	<10	<2
612367	Soil	0.36	7.8	0.7	<0.05	1.1	21.29	25.0	0.03	<1	0.6	9.2	<10	<2
612368	Soil	0.25	6.3	2.9	<0.05	1.1	14.03	23.1	0.04	<1	0.6	8.2	<10	<2
612369	Soil	0.16	6.9	0.9	<0.05	1.6	6.08	7.2	<0.02	<1	0.3	4.6	<10	<2
612370	Soil	0.52	8.8	2.5	<0.05	1.3	14.55	21.4	0.02	<1	0.6	12.8	<10	<2
612371	Soil	0.31	10.3	0.8	<0.05	1.2	11.54	28.3	0.04	2	1.2	13.4	<10	<2
612372	Soil	0.19	8.8	1.2	<0.05	1.2	16.76	35.2	0.03	<1	1.0	10.8	<10	<2
612373	Soil	0.27	4.6	0.6	<0.05	0.9	15.36	24.7	0.02	<1	0.6	8.1	<10	<2
612374	Soil	0.22	6.9	5.7	<0.05	2.2	34.41	163.7	0.03	1	2.1	11.0	<10	<2
612375	Soil	0.08	2.9	0.7	<0.05	0.8	6.73	13.5	<0.02	1	0.3	4.3	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 10, 2011

Page: 6 of 8 Part 1

CERTIFICATE OF ANALYSIS

WHI11001171.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
612376	Soil	0.86	23.09	73.58	561.2	269	26.7	8.9	887	2.78	60.3	1.1	54.5	0.5	90.1	1.27	5.66	0.18	19	7.10	0.168
612377	Soil	0.52	14.23	42.50	266.6	122	16.1	6.3	1318	2.33	33.8	0.7	9.1	0.3	35.5	0.60	2.28	0.14	8	7.33	0.147
612378	Soil	0.65	16.86	47.87	359.7	144	18.9	7.7	989	2.75	42.8	0.9	15.4	0.3	81.5	0.63	2.05	0.19	14	6.89	0.144
612379	Soil	0.53	14.19	32.08	179.0	124	14.8	5.1	481	1.38	18.7	0.8	6.7	0.2	183.5	0.41	1.43	0.13	9	10.14	0.163
612380	Soil	0.58	16.69	14.74	122.5	167	14.7	4.7	275	1.27	14.7	0.9	5.3	0.3	782.9	0.26	1.56	0.11	9	20.31	0.127
612381	Soil	0.49	19.07	48.40	83.3	141	18.9	8.9	318	2.06	33.8	1.4	4.6	0.4	195.9	0.26	0.72	0.18	13	10.22	0.171
612382	Soil	0.41	13.51	20.76	62.7	95	10.3	4.5	300	0.81	27.2	1.4	3.8	0.2	59.2	0.20	0.50	0.06	6	18.40	0.171
612383	Soil	0.43	8.58	23.88	77.4	105	9.2	4.2	1287	1.63	60.5	1.0	7.6	0.2	27.8	0.32	1.61	0.07	12	11.97	0.157
612384	Soil	0.41	12.72	30.17	168.3	135	16.2	6.6	651	2.17	46.7	0.8	17.3	0.5	46.9	0.63	2.50	0.13	14	5.74	0.137
612385	Soil	0.72	19.50	25.32	77.9	248	23.8	6.8	313	2.24	20.5	1.5	3.8	0.5	139.7	0.25	0.77	0.19	16	3.84	0.176
612386	Soil	0.76	15.62	81.52	514.9	508	26.3	6.2	7805	16.80	128.8	5.1	183.1	3.0	32.4	0.75	4.93	0.16	37	1.86	0.120
612387	Soil	0.48	31.29	53.20	156.6	72	32.8	16.0	891	2.95	187.2	1.2	<0.2	3.6	46.0	0.17	3.38	0.34	19	1.39	0.181
612388	Soil	0.52	11.52	23.32	199.4	103	12.1	5.8	1468	2.36	83.1	1.7	19.5	0.9	46.8	0.54	3.18	0.08	17	13.09	0.179
612389	Soil	0.53	17.96	37.14	149.7	120	21.0	6.5	492	1.84	43.3	1.6	18.3	0.8	75.1	0.33	2.93	0.15	14	12.13	0.156
612390	Soil	0.36	7.75	21.96	622.3	101	10.1	6.0	2890	3.45	48.1	1.5	21.9	0.4	34.4	2.69	2.38	0.05	9	14.95	0.162
612391	Soil	0.43	15.13	39.25	244.7	98	16.5	7.7	786	2.47	28.3	0.8	14.7	0.7	26.5	0.63	2.30	0.15	16	7.50	0.107
612855	Soil	0.54	26.21	25.24	109.3	238	29.7	10.2	382	3.27	8.7	0.8	3.3	2.5	121.1	0.15	0.36	0.25	17	1.27	0.096
612856	Soil	0.73	24.53	21.09	89.1	186	28.4	8.5	252	3.06	10.3	1.5	3.7	3.0	46.7	0.15	0.54	0.22	33	0.57	0.078
612857	Soil	0.92	20.86	17.95	89.0	88	26.6	9.2	408	2.97	15.6	0.9	4.2	2.2	22.8	0.27	0.90	0.18	38	0.30	0.086
612858	Soil	0.69	21.37	23.39	123.8	150	23.4	8.7	489	2.71	43.4	1.6	9.3	0.7	52.4	0.44	1.44	0.19	30	1.13	0.139
612859	Soil	0.56	20.53	23.70	139.8	150	23.7	7.7	347	2.76	42.2	1.4	5.9	1.3	46.6	0.30	1.46	0.21	29	1.22	0.151
612860	Soil	0.66	24.38	26.51	121.5	127	29.5	10.1	439	3.06	26.5	0.8	4.5	2.6	40.5	0.34	0.78	0.25	27	0.84	0.089
612861	Soil	0.39	25.46	40.72	228.7	75	25.6	11.3	774	2.48	162.6	1.8	5.6	2.0	172.6	0.47	2.98	0.22	15	11.23	0.124
612862	Soil	0.77	26.05	55.12	158.8	214	21.2	8.8	530	2.34	51.5	2.1	5.7	0.4	88.5	0.43	2.02	0.20	23	6.31	0.336
612863	Soil	0.38	14.86	20.98	59.6	59	16.1	6.9	194	1.54	44.9	1.9	4.7	0.9	371.5	0.12	1.10	0.12	15	21.66	0.204
612864	Soil	0.64	11.85	33.98	337.4	116	10.5	4.9	422	1.30	153.5	2.1	3.8	0.3	176.5	0.47	1.33	0.10	17	17.60	0.239
612865	Soil	0.74	32.83	62.33	79.0	153	26.7	13.9	345	2.73	106.2	2.5	4.7	1.9	164.2	0.18	6.95	0.29	15	6.07	0.405
612866	Soil	0.37	5.61	18.78	633.6	61	5.5	2.7	1779	1.94	128.5	0.8	14.7	0.2	29.7	1.10	1.90	<0.02	8	17.40	0.073
612867	Soil	0.13	22.87	18.23	23.1	25	19.0	15.2	263	1.97	7.5	0.4	1.6	3.2	24.2	0.07	0.12	0.24	8	1.50	0.090
612868	Soil	0.38	16.71	33.17	154.7	74	17.3	9.6	313	1.74	24.6	0.8	4.3	0.8	76.3	0.24	0.52	0.19	13	8.78	0.139



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 10, 2011

Page: 6 of 8 Part 2

CERTIFICATE OF ANALYSIS

WHI11001171.1

Method	Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15			
				La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
				ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm			
				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1			
612376	Soil			9.2	14.8	2.44	103.8	0.005	3	0.88	0.007	0.06	<0.1	1.4	0.23	0.05	596	0.7	0.03	2.0	2.04	<0.1	<0.02
612377	Soil			5.4	7.1	3.19	128.2	0.002	5	0.42	0.009	0.06	<0.1	0.8	0.22	0.10	228	0.5	<0.02	1.1	1.00	<0.1	<0.02
612378	Soil			7.7	10.6	2.72	130.5	0.003	6	0.75	0.009	0.05	<0.1	1.0	0.24	0.11	450	0.6	<0.02	1.7	2.06	<0.1	<0.02
612379	Soil			4.4	8.6	2.13	126.1	0.001	7	0.61	0.007	0.06	<0.1	0.5	0.16	0.12	159	0.6	<0.02	1.3	0.52	<0.1	<0.02
612380	Soil			4.2	7.2	0.45	204.5	0.002	10	0.44	0.010	0.07	<0.1	0.6	0.15	0.06	177	0.9	<0.02	1.1	0.58	<0.1	0.03
612381	Soil			11.4	10.0	0.60	71.2	0.002	6	0.73	0.006	0.07	<0.1	1.0	0.15	0.08	502	0.5	0.04	1.7	0.97	<0.1	0.02
612382	Soil			4.2	4.6	5.16	41.3	<0.001	7	0.29	0.009	0.05	<0.1	0.3	0.10	0.05	157	0.4	0.03	0.8	0.47	<0.1	0.02
612383	Soil			4.0	10.1	5.74	76.4	0.003	6	0.71	0.010	0.05	<0.1	0.5	0.13	0.06	133	0.4	<0.02	1.4	0.45	<0.1	<0.02
612384	Soil			8.4	12.5	2.40	67.5	0.003	3	0.86	0.005	0.06	<0.1	1.2	0.14	0.05	484	0.4	<0.02	2.1	0.59	<0.1	0.03
612385	Soil			13.0	14.6	0.24	153.4	0.003	4	0.94	0.006	0.06	<0.1	1.3	0.17	0.11	331	0.7	<0.02	2.1	1.77	<0.1	0.03
612386	Soil			38.7	45.1	0.88	268.1	0.002	<1	1.78	0.002	0.03	0.1	6.8	0.28	0.06	4628	1.7	0.04	3.9	0.79	<0.1	0.12
612387	Soil			20.2	13.9	0.35	159.6	0.005	5	0.94	0.005	0.15	0.4	4.4	0.18	0.05	260	0.2	0.12	2.5	1.44	<0.1	0.07
612388	Soil			7.2	11.1	6.05	109.6	0.008	3	0.71	0.011	0.04	0.4	1.2	0.15	<0.02	624	0.3	0.04	1.6	0.56	<0.1	0.02
612389	Soil			7.2	9.8	4.65	96.7	0.004	4	0.56	0.008	0.07	0.1	1.5	0.15	<0.02	360	0.5	0.08	1.2	0.65	<0.1	0.02
612390	Soil			5.7	7.6	6.99	76.8	0.004	2	0.46	0.010	0.04	<0.1	0.9	0.15	<0.02	1550	0.5	0.04	1.3	0.79	<0.1	<0.02
612391	Soil			8.0	10.5	3.54	64.0	0.003	4	0.76	0.008	0.09	<0.1	1.7	0.14	0.05	214	0.2	0.04	1.7	1.03	<0.1	0.03
612855	Soil			13.8	11.8	0.13	185.0	0.003	4	0.90	0.005	0.11	<0.1	4.2	0.23	0.06	340	0.5	<0.02	2.2	1.52	<0.1	0.04
612856	Soil			14.3	21.2	0.36	136.6	0.009	2	1.39	0.005	0.09	<0.1	3.8	0.19	0.03	113	0.4	0.03	3.4	1.14	<0.1	0.04
612857	Soil			12.5	21.6	0.34	124.1	0.012	2	1.46	0.005	0.07	0.1	2.8	0.18	0.03	115	0.3	0.02	3.6	1.25	<0.1	0.03
612858	Soil			12.1	20.3	0.26	120.0	0.006	2	1.27	0.004	0.06	<0.1	1.9	0.18	0.09	817	0.5	0.03	3.2	1.15	<0.1	0.03
612859	Soil			12.9	20.9	0.31	135.6	0.005	4	1.37	0.005	0.09	<0.1	2.5	0.21	0.06	455	0.4	0.03	3.5	1.28	<0.1	0.05
612860	Soil			12.2	20.0	0.28	153.4	0.005	3	1.29	0.003	0.10	<0.1	3.2	0.22	0.02	290	0.4	0.03	3.3	1.39	<0.1	0.05
612861	Soil			10.0	11.7	0.70	123.2	0.005	3	0.72	0.005	0.09	0.4	2.7	0.21	<0.02	531	0.4	0.07	2.0	1.85	<0.1	0.05
612862	Soil			13.7	16.5	0.57	99.9	0.003	5	1.16	0.005	0.10	0.1	0.9	0.17	0.16	518	0.6	0.07	2.7	0.90	<0.1	0.03
612863	Soil			6.4	9.7	0.80	66.5	0.004	5	0.70	0.009	0.09	0.1	1.3	0.17	<0.02	241	0.3	0.03	1.7	1.35	<0.1	0.03
612864	Soil			5.0	13.0	1.42	69.8	0.003	6	1.02	0.008	0.06	0.1	0.6	0.17	0.09	282	0.6	0.06	2.0	0.66	<0.1	0.04
612865	Soil			11.4	13.4	0.52	84.6	0.003	13	1.09	0.007	0.23	<0.1	2.4	0.24	0.09	341	0.7	0.06	2.8	0.95	<0.1	0.10
612866	Soil			3.2	5.6	8.66	47.0	0.005	3	0.37	0.012	0.03	<0.1	0.7	0.17	<0.02	1159	0.5	<0.02	0.8	0.32	<0.1	0.02
612867	Soil			9.2	5.0	<0.01	59.4	<0.001	6	0.54	0.001	0.12	<0.1	5.2	0.16	0.05	113	<0.1	0.04	1.3	1.51	<0.1	0.06
612868	Soil			6.7	8.8	1.38	74.5	0.002	6	0.72	0.005	0.11	<0.1	1.6	0.14	0.03	128	0.3	0.03	1.6	1.03	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 10, 2011

Page: 6 of 8 Part 3

CERTIFICATE OF ANALYSIS

WHI11001171.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
612376	Soil			0.19	5.6	0.7	<0.05	0.7	10.63	23.0	0.03	1	0.6	7.5	<10	<2
612377	Soil			0.08	3.7	2.8	<0.05	0.4	8.25	15.7	<0.02	1	0.5	3.8	<10	<2
612378	Soil			0.19	5.3	0.7	<0.05	0.5	10.82	19.9	0.03	2	0.4	6.0	<10	<2
612379	Soil			0.12	4.4	2.1	<0.05	0.5	6.42	12.6	<0.02	<1	0.6	6.3	<10	<2
612380	Soil			0.15	4.7	0.7	<0.05	1.1	5.88	10.9	<0.02	1	0.2	4.8	<10	<2
612381	Soil			0.20	4.7	1.9	<0.05	0.8	12.09	22.5	0.02	<1	0.6	6.7	<10	<2
612382	Soil			0.05	2.7	0.6	<0.05	0.6	8.16	8.9	<0.02	<1	0.3	2.1	<10	<2
612383	Soil			0.10	3.8	3.7	<0.05	0.5	5.70	11.3	<0.02	1	0.3	4.8	<10	<2
612384	Soil			0.16	4.3	1.1	<0.05	0.6	9.37	18.8	<0.02	1	0.5	9.8	<10	<2
612385	Soil			0.31	6.6	3.2	<0.05	0.9	17.37	31.1	0.03	1	0.7	8.6	<10	<2
612386	Soil			0.21	3.9	0.6	<0.05	3.0	43.93	39.9	0.03	1	1.0	8.1	<10	<2
612387	Soil			0.33	7.1	1.1	<0.05	1.8	17.62	33.0	0.04	1	1.0	12.9	<10	<2
612388	Soil			0.16	3.7	0.7	<0.05	0.6	7.65	15.4	<0.02	<1	0.3	7.5	<10	<2
612389	Soil			0.13	3.6	1.4	<0.05	0.7	9.64	15.8	<0.02	<1	0.4	5.0	<10	<2
612390	Soil			0.07	3.4	1.1	<0.05	0.5	7.91	12.4	<0.02	<1	0.3	3.7	<10	<2
612391	Soil			0.14	5.0	1.4	<0.05	0.7	9.81	17.4	0.03	<1	0.7	7.0	<10	<2
612855	Soil			0.21	9.2	0.7	<0.05	1.4	15.19	27.9	0.04	2	0.8	10.4	<10	<2
612856	Soil			0.39	10.3	0.6	<0.05	1.4	11.83	30.0	0.03	2	0.8	14.2	<10	<2
612857	Soil			0.34	9.7	0.5	<0.05	1.0	8.80	34.5	0.02	<1	0.7	13.5	<10	<2
612858	Soil			0.35	9.6	1.0	<0.05	1.1	12.33	27.1	0.03	<1	0.8	10.7	<10	<2
612859	Soil			0.37	12.0	0.6	<0.05	1.6	12.47	27.8	0.03	<1	0.8	14.6	<10	<2
612860	Soil			0.25	10.7	2.2	<0.05	1.4	10.53	29.7	0.04	<1	0.8	15.0	<10	<2
612861	Soil			0.20	6.5	0.5	<0.05	1.4	12.16	23.4	0.03	1	0.8	8.5	<10	<2
612862	Soil			0.31	6.7	2.7	<0.05	0.8	15.06	27.2	0.03	<1	0.9	8.9	<10	<2
612863	Soil			0.20	5.6	0.6	<0.05	0.8	8.67	12.8	<0.02	<1	0.6	7.7	<10	<2
612864	Soil			0.27	4.5	4.1	<0.05	1.0	7.25	11.8	<0.02	<1	0.7	6.5	<10	<2
612865	Soil			0.22	9.1	1.0	<0.05	2.5	18.39	26.6	0.03	<1	0.8	8.1	<10	<2
612866	Soil			0.06	2.4	4.1	<0.05	0.6	3.67	6.7	<0.02	1	0.3	2.9	<10	<2
612867	Soil			0.09	6.7	0.9	<0.05	1.4	14.61	24.4	0.03	<1	0.9	8.4	<10	<2
612868	Soil			0.14	5.9	2.9	<0.05	1.2	7.40	14.1	<0.02	<1	0.7	6.0	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 7 of 8 Part 1

CERTIFICATE OF ANALYSIS

WHI11001171.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
612869	Soil			0.74	14.27	21.80	143.6	99	15.2	7.4	397	1.58	18.3	0.7	5.1	0.3	43.3	0.34	0.95	0.12	20	7.77	0.125
612870	Soil			0.47	26.93	32.95	127.0	71	20.8	14.1	488	2.75	38.7	0.7	5.7	1.9	24.8	0.23	1.45	0.41	8	3.82	0.066
612871	Soil			0.51	21.10	32.19	196.5	131	22.8	7.6	704	2.60	42.8	1.0	9.1	1.9	56.3	0.40	1.62	0.30	12	5.97	0.095
612872	Soil			0.44	9.73	24.56	180.2	105	11.0	4.3	947	1.49	22.4	1.2	6.0	0.9	40.8	0.57	1.38	0.16	12	11.40	0.099
612873	Soil			0.25	4.18	10.85	38.7	52	5.1	1.9	762	0.83	10.2	0.9	3.7	0.5	27.0	0.17	0.84	0.07	4	12.27	0.058
612874	Soil			0.74	20.66	31.60	152.3	140	20.1	7.5	944	2.51	25.0	1.5	5.7	1.5	32.4	0.51	2.24	0.22	21	5.03	0.122
612875	Soil			0.70	13.61	15.59	520.4	127	15.9	7.1	711	1.89	18.7	0.9	3.1	1.3	31.6	1.10	1.72	0.16	26	8.95	0.076
612876	Soil			0.64	11.52	27.55	214.2	99	11.1	4.4	495	1.20	9.6	0.8	3.0	0.8	28.5	0.81	5.40	0.09	18	11.89	0.078
612877	Soil			0.22	6.10	16.20	220.1	60	4.0	1.6	499	0.60	10.0	0.7	4.6	0.3	27.1	0.62	4.46	0.05	5	11.75	0.059
612878	Soil			0.21	6.01	24.41	597.0	59	3.3	2.4	533	0.60	10.6	0.4	3.7	0.2	23.5	1.90	3.73	0.05	5	9.71	0.054
612879	Soil			0.55	16.02	31.79	1323	211	14.8	8.3	735	2.05	19.9	1.2	8.7	0.9	34.4	1.21	2.99	0.27	15	7.12	0.195
612880	Soil			0.43	34.27	43.87	153.9	49	18.9	15.1	280	3.54	19.0	0.4	1.2	2.2	11.7	0.12	1.48	0.43	15	0.34	0.062
612881	Soil			0.51	18.67	25.06	52.4	48	16.6	12.7	759	2.43	11.7	0.4	2.0	0.2	3.7	0.11	0.56	0.36	16	0.04	0.055
612882	Soil			0.55	17.23	23.19	44.6	46	15.0	9.9	324	2.61	8.7	0.4	1.2	0.2	7.0	0.09	0.46	0.37	17	0.09	0.040
612883	Soil			0.51	17.46	20.99	41.9	32	17.3	10.9	295	2.67	6.8	0.4	0.7	1.5	4.2	0.09	0.41	0.33	15	<0.01	0.028
612884	Soil			0.79	26.32	40.03	113.3	148	25.6	11.2	395	2.68	18.7	2.1	1.7	1.1	69.0	0.35	0.79	0.30	26	3.91	0.218
612886	Soil			0.43	9.07	36.38	112.6	89	10.1	4.1	646	1.46	99.7	0.7	4.7	0.5	17.2	0.27	2.40	0.14	14	1.14	0.084
612889	Soil			0.86	21.06	24.93	121.0	252	29.1	9.2	230	2.60	20.0	1.5	3.8	0.7	113.8	0.23	1.76	0.25	13	5.18	0.124
612891	Soil			0.38	7.93	22.43	191.3	83	10.1	3.7	728	1.51	18.7	0.9	7.0	0.4	93.9	0.43	1.28	0.09	6	14.44	0.076
612895	Soil			0.62	11.95	42.96	129.5	115	14.0	5.6	652	1.89	83.0	1.1	4.1	0.6	27.2	0.31	1.49	0.18	17	1.54	0.123
612896	Soil			0.39	11.93	84.45	254.7	153	13.1	4.7	445	1.57	41.1	1.4	30.4	0.4	60.9	0.44	8.71	0.16	9	10.39	0.119
1096306	Soil			1.00	21.18	25.17	142.5	177	24.7	8.6	383	2.46	44.7	1.4	3.2	1.6	49.8	0.40	1.30	0.21	29	1.27	0.106
1096307	Soil			0.68	19.30	30.76	187.2	126	21.3	7.3	411	1.97	62.5	1.7	6.2	1.8	140.7	0.44	2.73	0.20	20	9.46	0.130
1096308	Soil			0.71	12.20	23.08	273.3	106	11.5	4.3	581	1.43	17.5	1.2	3.0	0.4	40.9	1.04	3.63	0.15	14	2.30	0.114
1096309	Soil			0.98	20.88	21.41	80.2	121	20.1	8.8	540	3.13	12.2	2.5	1.9	1.1	17.3	0.22	0.59	0.27	34	0.16	0.083
1096310	Soil			0.91	21.65	17.52	86.0	104	18.2	8.6	377	3.17	14.5	2.1	1.4	1.6	32.6	0.44	1.18	0.25	25	0.33	0.100
1096311	Soil			0.59	20.77	16.55	72.8	180	18.2	7.8	436	2.67	12.7	3.3	2.0	2.1	56.4	0.33	0.45	0.24	21	0.63	0.089
1096312	Soil			0.99	20.22	15.81	65.1	54	18.2	7.9	250	2.94	13.5	1.4	0.6	1.3	19.1	0.09	0.54	0.27	32	0.15	0.074
1096313	Soil			0.73	22.10	20.70	55.5	70	20.8	10.9	407	3.41	12.2	1.4	1.2	3.4	34.7	0.09	0.38	0.31	30	0.31	0.033
1096314	Soil			0.50	39.47	27.74	85.9	100	31.4	14.9	411	3.52	14.2	1.3	1.4	3.9	68.5	0.12	0.44	0.41	19	0.85	0.063



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 10, 2011

Page: 7 of 8 Part 2

CERTIFICATE OF ANALYSIS

WHI11001171.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
612869	Soil	7.4	13.4	0.45	92.6	0.005	5	0.95	0.006	0.06	<0.1	0.8	0.15	0.09	116	0.3	0.04	2.2	0.67	<0.1	0.02
612870	Soil	5.3	7.0	1.90	108.4	0.002	4	0.39	0.003	0.11	<0.1	5.0	0.14	0.03	206	0.3	0.05	1.0	7.58	<0.1	0.03
612871	Soil	9.5	8.4	2.87	102.1	0.003	4	0.58	0.004	0.07	<0.1	3.3	0.14	0.03	605	0.5	<0.02	1.2	2.04	<0.1	0.05
612872	Soil	6.5	7.8	5.76	55.3	0.008	2	0.39	0.008	0.03	<0.1	1.4	0.07	<0.02	424	0.5	0.03	0.9	0.61	<0.1	<0.02
612873	Soil	2.7	4.2	6.52	23.2	0.004	2	0.18	0.008	0.02	<0.1	0.6	0.04	<0.02	104	0.3	<0.02	0.4	0.30	<0.1	0.02
612874	Soil	15.7	14.2	2.73	68.8	0.008	2	0.75	0.006	0.04	0.1	2.9	0.08	0.02	248	0.5	0.03	1.6	0.67	<0.1	0.04
612875	Soil	10.4	15.0	4.61	72.8	0.018	2	0.83	0.008	0.03	0.2	1.9	0.06	<0.02	1059	0.5	0.04	1.9	0.58	<0.1	0.02
612876	Soil	5.8	10.3	6.18	48.5	0.013	2	0.59	0.009	0.03	0.1	1.0	0.05	<0.02	404	0.5	<0.02	1.3	0.36	<0.1	0.03
612877	Soil	2.1	3.4	5.91	19.3	0.006	2	0.19	0.008	0.01	<0.1	0.5	0.02	<0.02	527	0.3	<0.02	0.4	0.15	<0.1	0.02
612878	Soil	2.0	3.5	5.18	28.4	0.003	1	0.22	0.005	0.01	<0.1	0.3	0.03	<0.02	2150	0.4	<0.02	0.6	0.17	<0.1	<0.02
612879	Soil	10.1	9.8	3.62	108.6	0.004	2	0.72	0.006	0.05	0.1	2.0	0.06	0.05	1827	0.3	0.07	1.7	0.86	<0.1	0.05
612880	Soil	4.3	8.8	0.08	252.5	0.001	1	0.82	<0.001	0.10	<0.1	3.9	0.10	0.04	89	0.2	0.06	2.0	0.70	<0.1	0.06
612881	Soil	4.1	7.6	0.08	99.1	0.002	2	0.48	<0.001	0.11	<0.1	0.8	0.10	0.05	67	0.3	0.06	1.9	1.19	<0.1	<0.02
612882	Soil	4.1	8.3	0.10	263.7	0.003	2	0.49	<0.001	0.12	<0.1	1.0	0.08	0.04	41	0.2	0.03	1.9	1.49	<0.1	<0.02
612883	Soil	5.8	10.4	0.14	48.5	0.004	2	0.76	<0.001	0.11	<0.1	2.2	0.08	0.04	62	0.2	0.04	1.8	2.25	<0.1	<0.02
612884	Soil	16.3	16.9	0.93	98.5	0.005	4	1.25	0.005	0.08	0.1	1.7	0.09	0.09	336	0.6	0.07	2.6	0.53	<0.1	0.03
612886	Soil	5.6	9.8	0.45	70.5	0.004	3	0.70	0.002	0.05	<0.1	1.1	0.10	0.06	219	0.4	0.02	1.6	0.72	<0.1	0.03
612889	Soil	11.2	11.7	0.81	117.4	0.003	4	0.70	0.005	0.07	<0.1	1.6	0.14	0.10	330	0.7	0.02	1.5	3.92	<0.1	0.04
612891	Soil	3.1	6.4	6.42	54.7	0.003	4	0.33	0.008	0.03	<0.1	0.7	0.06	<0.02	231	0.5	<0.02	0.8	0.46	<0.1	<0.02
612895	Soil	7.7	12.7	0.32	89.9	0.004	3	0.86	0.003	0.05	<0.1	1.3	0.11	0.09	309	0.4	<0.02	1.9	1.07	<0.1	0.03
612896	Soil	5.3	8.8	4.56	45.4	0.002	3	0.46	0.007	0.04	<0.1	0.7	0.06	0.04	501	0.6	0.02	1.1	0.59	<0.1	0.04
1096306	Soil	13.4	17.4	0.19	101.2	0.012	2	0.98	0.007	0.05	0.1	2.5	0.11	0.06	729	0.7	0.04	2.4	0.55	<0.1	0.04
1096307	Soil	9.3	12.8	1.23	86.9	0.012	2	0.77	0.008	0.06	0.1	2.4	0.13	<0.02	658	0.6	<0.02	1.7	1.12	<0.1	0.03
1096308	Soil	7.3	11.4	0.66	78.3	0.003	2	0.53	0.004	0.03	<0.1	0.9	0.06	0.10	558	0.5	0.02	1.2	0.39	<0.1	0.03
1096309	Soil	14.7	20.4	0.28	120.2	0.004	<1	1.45	0.002	0.05	<0.1	2.4	0.12	0.06	1162	0.4	0.03	3.6	2.51	<0.1	<0.02
1096310	Soil	16.0	17.9	0.27	117.9	0.002	<1	1.32	<0.001	0.05	<0.1	2.8	0.10	0.05	361	0.3	0.05	2.8	1.03	<0.1	0.04
1096311	Soil	19.6	17.4	0.34	120.6	0.003	<1	1.16	0.002	0.05	<0.1	3.2	0.09	0.04	458	0.3	0.03	2.7	1.01	<0.1	0.05
1096312	Soil	8.9	19.1	0.29	109.2	0.003	<1	1.33	0.002	0.05	<0.1	1.9	0.13	0.04	406	0.3	0.03	3.9	1.52	<0.1	0.04
1096313	Soil	11.0	19.7	0.37	116.2	0.002	<1	1.59	0.001	0.06	<0.1	3.5	0.11	<0.02	410	0.3	0.09	4.1	1.41	<0.1	0.03
1096314	Soil	15.8	22.2	0.59	91.3	0.003	3	1.54	0.001	0.07	<0.1	9.1	0.08	0.04	443	0.3	0.06	4.3	1.72	<0.1	0.08



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Page: 7 of 8 Part 3

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Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
612869	Soil	0.37	5.3	0.9	<0.05	0.8	6.68	17.1	<0.02	<1	0.6	8.3	<10	<2
612870	Soil	0.09	7.9	3.9	<0.05	1.4	11.34	12.4	0.04	<1	1.0	3.3	<10	<2
612871	Soil	0.15	5.5	0.5	<0.05	1.3	12.75	18.1	0.03	<1	0.6	5.4	<10	<2
612872	Soil	0.10	2.6	1.6	<0.05	0.9	7.52	13.3	<0.02	<1	0.3	4.3	<10	<2
612873	Soil	0.06	1.3	1.3	<0.05	0.7	3.68	5.5	<0.02	<1	0.1	1.9	<10	<2
612874	Soil	0.18	4.0	1.7	<0.05	1.8	17.95	26.1	<0.02	<1	0.5	6.8	<10	<2
612875	Soil	0.28	4.5	0.6	<0.05	0.8	8.40	18.2	<0.02	<1	0.4	8.4	<10	<2
612876	Soil	0.23	3.2	2.6	<0.05	0.6	5.04	11.3	<0.02	<1	0.2	5.9	<10	<2
612877	Soil	0.07	1.2	0.7	<0.05	0.6	2.92	4.1	<0.02	<1	0.1	1.6	<10	<2
612878	Soil	0.04	1.4	1.6	<0.05	0.3	2.62	4.2	<0.02	<1	0.2	1.6	<10	<2
612879	Soil	0.16	4.5	0.9	<0.05	0.9	11.70	18.1	<0.02	<1	0.6	5.5	<10	<2
612880	Soil	0.15	7.2	1.1	<0.05	1.4	6.03	11.4	0.03	<1	0.8	7.6	<10	<2
612881	Soil	0.09	7.3	2.3	<0.05	0.2	2.68	11.3	0.02	<1	0.5	2.6	<10	<2
612882	Soil	0.10	7.6	0.9	<0.05	0.2	2.31	10.5	0.03	<1	0.4	4.2	<10	<2
612883	Soil	0.21	8.2	2.5	<0.05	0.4	3.03	16.9	0.03	<1	0.6	8.1	<10	<2
612884	Soil	0.34	6.1	0.8	<0.05	1.1	17.15	28.4	0.02	<1	0.7	11.9	<10	<2
612886	Soil	0.17	3.7	1.1	<0.05	0.9	6.63	12.2	<0.02	<1	0.3	4.9	<10	<2
612889	Soil	0.21	5.3	1.0	<0.05	0.7	18.32	31.3	0.03	<1	0.6	6.8	<10	<2
612891	Soil	0.08	2.5	3.9	<0.05	0.5	3.88	6.9	<0.02	<1	0.2	5.9	<10	<2
612895	Soil	0.24	4.8	0.7	<0.05	1.0	9.21	16.1	0.02	<1	0.6	6.5	<10	<2
612896	Soil	0.10	2.9	2.5	<0.05	0.7	7.09	11.0	<0.02	<1	0.4	5.8	<10	<2
1096306	Soil	0.45	5.1	0.5	<0.05	1.4	11.91	27.4	0.02	<1	0.6	10.6	<10	<2
1096307	Soil	0.34	5.2	1.3	<0.05	1.4	9.82	19.1	0.02	<1	0.5	7.4	<10	<2
1096308	Soil	0.17	2.6	0.9	<0.05	0.8	7.05	16.6	<0.02	<1	0.4	4.2	<10	<2
1096309	Soil	0.30	9.3	2.1	<0.05	0.5	12.39	37.4	0.04	<1	1.0	21.7	<10	<2
1096310	Soil	0.16	9.1	0.7	<0.05	1.5	12.62	38.6	0.02	<1	0.7	19.6	<10	<2
1096311	Soil	0.20	9.7	0.8	<0.05	1.3	13.32	56.1	0.02	<1	0.8	20.0	<10	<2
1096312	Soil	0.26	8.7	0.6	<0.05	0.7	5.38	24.2	0.04	<1	0.5	18.6	<10	<2
1096313	Soil	0.27	11.4	2.1	<0.05	1.5	8.53	31.8	0.03	<1	0.9	29.5	<10	<2
1096314	Soil	0.23	6.9	0.5	<0.05	2.8	29.09	27.1	0.05	<1	1.3	44.2	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 10, 2011

Page: 8 of 8 Part 1

CERTIFICATE OF ANALYSIS

WHI11001171.1

	Method	1F15																				
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1096315	Soil	0.62	37.94	41.44	83.6	96	30.4	18.4	835	3.54	14.1	1.8	1.1	2.5	69.2	0.11	0.49	0.41	19	1.00	0.069	
1096316	Soil	0.62	40.89	30.88	81.2	142	33.6	17.1	584	3.63	15.0	1.5	1.7	3.7	55.4	0.07	0.57	0.38	19	0.62	0.050	
1096317	Soil	0.53	31.26	26.61	69.8	75	26.8	13.5	499	3.36	10.9	1.1	0.9	3.3	26.8	0.08	0.42	0.32	20	0.24	0.052	
1096318	Soil	0.69	24.95	19.09	63.6	71	18.3	9.5	418	3.57	10.6	0.7	<0.2	1.6	18.5	0.04	0.47	0.33	26	0.16	0.053	
1096319	Soil	2.30	23.42	39.09	72.2	73	20.8	7.2	302	2.96	12.2	0.4	1.1	0.3	8.1	0.15	1.57	0.36	50	<0.01	0.054	
1096320	Soil	0.69	15.42	14.64	43.6	33	9.9	5.3	166	3.22	7.0	0.5	<0.2	1.2	5.2	0.04	0.39	0.25	35	<0.01	0.048	
1096321	Soil	0.74	26.09	43.84	92.2	148	30.6	16.3	576	3.89	15.1	0.9	0.9	2.8	115.0	0.10	0.38	0.33	17	1.72	0.052	
1097053	Soil	1.05	35.01	46.74	119.9	209	31.7	11.0	326	2.42	22.3	2.3	3.9	0.7	96.1	0.29	1.59	0.36	19	3.59	0.184	
1097054	Soil	0.53	12.60	27.76	102.5	107	13.7	5.2	501	1.31	33.1	1.8	7.6	0.7	92.6	0.33	2.20	0.14	12	12.29	0.148	
1097055	Soil	0.64	13.40	45.40	150.5	107	13.0	5.3	411	1.42	26.5	3.5	4.3	0.4	58.2	0.47	1.51	0.20	15	2.41	0.170	
1097056	Soil	0.68	24.20	52.04	208.7	156	22.9	7.2	360	2.27	36.0	2.1	7.3	0.7	61.1	0.37	1.92	0.31	18	3.15	0.183	
1097057	Soil	0.51	18.33	53.87	298.0	188	14.5	7.3	1458	2.27	59.8	2.3	34.2	0.5	48.6	0.98	4.48	0.20	14	8.96	0.212	
119650	Soil	0.62	26.68	21.59	72.3	85	20.6	11.2	286	3.65	36.7	0.3	2.0	1.5	19.4	0.09	1.47	0.36	23	0.10	0.044	



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 10, 2011

Page: 8 of 8 Part 2

CERTIFICATE OF ANALYSIS

WHI11001171.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1096315	Soil	10.1	21.1	0.55	112.6	0.003	3	1.52	0.002	0.08	<0.1	8.1	0.10	0.05	104	0.2	0.06	4.0	4.27	<0.1	0.09
1096316	Soil	11.8	21.7	0.57	83.0	0.003	3	1.47	0.002	0.08	<0.1	7.8	0.09	0.03	279	0.3	0.07	3.8	3.84	<0.1	0.06
1096317	Soil	8.5	19.7	0.47	64.2	0.002	2	1.48	0.002	0.08	<0.1	6.0	0.06	0.03	105	0.2	<0.02	3.6	2.92	<0.1	0.08
1096318	Soil	4.0	19.2	0.31	50.6	0.002	2	1.40	0.002	0.07	<0.1	2.3	0.08	0.03	67	0.3	0.04	4.5	2.59	<0.1	<0.02
1096319	Soil	5.4	25.5	0.05	37.8	0.004	2	0.75	0.003	0.06	<0.1	1.0	0.10	0.02	65	0.3	0.05	5.7	1.68	<0.1	0.05
1096320	Soil	4.4	17.2	0.17	38.8	0.003	<1	1.19	0.001	0.05	<0.1	1.4	0.07	0.03	63	0.2	0.05	4.8	1.41	<0.1	0.02
1096321	Soil	7.1	19.8	0.34	114.3	0.002	2	1.18	0.005	0.06	<0.1	5.3	0.07	0.06	110	0.4	0.06	3.2	1.29	<0.1	0.02
1097053	Soil	17.1	15.7	0.33	94.3	0.003	5	0.88	0.006	0.09	0.1	1.4	0.19	0.11	662	0.7	0.11	2.0	1.12	<0.1	<0.02
1097054	Soil	7.6	10.4	5.24	149.5	0.005	3	0.39	0.012	0.05	0.1	1.3	0.08	0.03	282	0.5	0.03	1.0	0.77	<0.1	<0.02
1097055	Soil	6.9	12.1	0.22	77.6	0.005	4	0.77	0.006	0.04	<0.1	0.9	0.10	0.15	278	0.6	0.03	2.0	0.91	<0.1	0.03
1097056	Soil	17.6	15.1	0.61	110.0	0.003	4	0.88	0.005	0.07	<0.1	1.5	0.13	0.12	354	0.5	0.08	1.8	1.14	<0.1	0.03
1097057	Soil	12.5	12.2	4.32	80.9	0.003	6	0.76	0.011	0.06	<0.1	1.1	0.10	0.11	641	0.5	0.07	1.5	0.59	<0.1	<0.02
119650	Soil	4.5	17.7	0.14	46.4	0.002	2	1.06	0.001	0.10	<0.1	2.5	0.08	0.02	74	0.2	0.05	3.0	2.09	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 8 of 8 Part 3

CERTIFICATE OF ANALYSIS

WHI11001171.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10
1096315	Soil	0.20	8.0	4.2	<0.05	2.1	22.74	18.6	0.05	<1	1.2	41.9	<10
1096316	Soil	0.20	6.9	1.3	<0.05	2.7	21.11	19.7	0.05	<1	1.1	41.0	<10
1096317	Soil	0.17	6.4	3.1	<0.05	2.4	15.62	21.5	0.04	<1	1.1	36.3	<10
1096318	Soil	0.26	10.9	1.6	<0.05	1.0	3.39	8.4	0.04	<1	0.6	26.3	<10
1096319	Soil	0.29	11.2	16.2	<0.05	0.2	1.93	9.6	<0.02	<1	0.2	3.6	<10
1096320	Soil	0.48	8.9	0.8	<0.05	0.7	1.76	8.8	0.03	<1	0.3	13.1	<10
1096321	Soil	0.25	6.7	8.4	<0.05	2.1	12.23	27.1	0.05	<1	0.8	38.2	<10
1097053	Soil	0.33	6.2	0.7	<0.05	0.7	19.54	28.9	0.02	<1	0.5	9.7	<10
1097054	Soil	0.12	3.3	1.3	<0.05	0.6	9.07	15.0	<0.02	<1	0.3	4.4	<10
1097055	Soil	0.42	5.3	3.4	<0.05	1.2	8.36	14.2	<0.02	<1	0.5	4.9	<10
1097056	Soil	0.33	6.2	0.9	<0.05	0.9	18.75	24.6	0.03	<1	0.6	7.2	<10
1097057	Soil	0.16	4.6	3.6	<0.05	0.6	14.84	19.7	0.02	<1	0.3	5.1	<10
119650	Soil	0.26	10.4	0.9	<0.05	0.2	2.19	8.3	0.04	<1	0.7	21.8	<10



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
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Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI11001171.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
1096255	Soil	1.18	25.56	22.97	75.8	132	19.5	11.2	719	3.44	18.3	2.1	1.4	1.7	63.5	0.31	0.60	0.28	23	0.97	0.123
REP 1096255	QC	1.22	25.98	22.86	78.9	131	20.0	11.4	747	3.43	18.3	2.1	1.0	1.8	60.6	0.33	0.62	0.28	22	1.00	0.120
120526	Soil	0.50	24.17	37.54	202.3	135	30.2	12.6	440	2.55	22.5	1.1	2.9	4.9	65.5	0.25	1.30	0.33	7	4.34	0.067
REP 120526	QC	0.51	25.32	38.82	209.0	144	31.8	13.1	452	2.59	23.3	1.1	2.7	5.1	67.1	0.30	1.36	0.36	8	4.49	0.068
612352	Soil	1.36	27.85	28.13	87.9	57	17.9	9.3	323	3.74	24.0	2.8	1.5	0.7	37.3	0.57	0.77	0.41	41	0.35	0.102
REP 612352	QC	1.26	26.60	26.01	80.4	52	16.4	8.7	309	3.54	21.9	2.6	1.6	0.7	33.5	0.52	0.72	0.37	37	0.32	0.098
1096278	Soil	0.89	20.78	22.28	61.7	26	14.6	12.4	578	2.29	18.8	0.5	0.5	0.5	3.6	0.10	0.64	0.41	27	0.01	0.044
REP 1096278	QC	0.94	20.35	22.99	58.1	26	14.7	12.1	574	2.25	17.9	0.5	0.7	0.5	3.7	0.10	0.61	0.41	27	0.01	0.044
1096293	Soil	0.67	21.69	20.35	81.9	87	22.4	8.2	253	2.88	9.7	0.7	1.8	2.5	39.4	0.13	0.43	0.29	28	0.32	0.070
REP 1096293	QC	0.69	23.04	20.68	85.1	83	23.5	8.7	266	2.94	11.1	0.7	3.6	2.6	42.0	0.15	0.46	0.30	29	0.33	0.074
612356	Soil	0.41	19.19	30.37	221.6	100	16.8	6.7	1195	2.71	78.3	1.2	22.3	1.2	146.5	0.38	2.87	0.18	9	9.35	0.123
REP 612356	QC	0.41	19.84	30.93	234.4	98	18.0	7.2	1230	2.78	81.2	1.1	22.6	1.2	149.6	0.43	2.89	0.20	9	9.62	0.125
612374	Soil	1.15	24.50	55.42	171.8	223	85.8	40.2	466	3.22	57.4	1.7	9.4	2.2	66.7	0.21	0.98	0.20	13	1.32	0.098
REP 612374	QC	1.17	25.38	57.69	167.2	236	86.2	41.3	510	3.23	58.5	1.7	8.6	2.0	71.0	0.22	1.05	0.20	13	1.44	0.106
612861	Soil	0.39	25.46	40.72	228.7	75	25.6	11.3	774	2.48	162.6	1.8	5.6	2.0	172.6	0.47	2.98	0.22	15	11.23	0.124
REP 612861	QC	0.37	26.54	41.89	240.2	73	26.2	11.6	783	2.57	164.2	1.9	5.4	2.1	179.1	0.43	2.90	0.23	17	11.42	0.129
612889	Soil	0.86	21.06	24.93	121.0	252	29.1	9.2	230	2.60	20.0	1.5	3.8	0.7	113.8	0.23	1.76	0.25	13	5.18	0.124
REP 612889	QC	0.85	20.54	24.85	117.3	245	29.0	8.9	237	2.58	19.8	1.5	4.5	0.9	113.4	0.23	1.70	0.25	13	5.12	0.126
612896	Soil	0.39	11.93	84.45	254.7	153	13.1	4.7	445	1.57	41.1	1.4	30.4	0.4	60.9	0.44	8.71	0.16	9	10.39	0.119
REP 612896	QC	0.39	11.49	83.82	258.7	162	13.3	4.7	451	1.56	41.1	1.4	27.9	0.4	59.8	0.41	8.60	0.17	9	9.85	0.121
1097055	Soil	0.64	13.40	45.40	150.5	107	13.0	5.3	411	1.42	26.5	3.5	4.3	0.4	58.2	0.47	1.51	0.20	15	2.41	0.170
REP 1097055	QC	0.63	12.70	45.54	152.1	105	12.5	4.9	405	1.43	26.0	3.5	3.8	0.4	57.4	0.44	1.54	0.21	15	2.40	0.162
Reference Materials																					
STD DS8	Standard	12.39	113.8	123.9	307.4	1827	35.1	7.9	572	2.37	29.7	2.8	127.0	6.9	61.6	2.37	5.88	6.92	38	0.69	0.084
STD DS8	Standard	12.77	107.2	115.7	292.8	1630	34.7	7.4	579	2.47	26.5	2.9	100.8	7.1	61.7	2.22	5.40	6.59	41	0.75	0.077
STD DS8	Standard	14.79	115.4	138.1	339.6	1674	38.6	8.3	643	2.61	28.0	2.9	128.3	7.0	76.9	2.53	6.49	7.73	43	0.75	0.087
STD DS8	Standard	12.46	103.0	119.4	295.4	1649	35.4	7.1	566	2.44	24.0	2.9	110.2	6.4	62.3	2.00	5.04	6.10	41	0.75	0.076
STD DS8	Standard	13.08	127.6	117.7	301.1	1680	36.3	9.0	563	2.57	30.4	3.4	111.2	8.8	58.6	2.58	5.89	7.81	42	0.75	0.083

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: September 10, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI11001171.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
1096255	Soil	22.4	16.3	0.23	111.1	0.003	1	1.22	0.001	0.05	<0.1	4.8	0.11	0.06	380	0.4	0.05	2.9	1.38	<0.1	0.05
REP 1096255	QC	21.9	16.1	0.23	108.2	0.002	<1	1.15	0.001	0.04	<0.1	4.7	0.11	0.06	358	0.2	0.05	2.7	1.25	<0.1	0.06
120526	Soil	6.9	8.6	1.90	129.3	0.003	5	0.46	0.006	0.13	<0.1	4.0	0.20	0.04	431	0.4	0.02	1.5	3.25	<0.1	0.05
REP 120526	QC	7.1	8.8	1.95	134.1	0.003	5	0.46	0.006	0.13	<0.1	4.1	0.21	0.04	441	0.4	0.03	1.5	3.33	<0.1	0.04
612352	Soil	11.5	23.9	0.15	106.0	0.006	2	1.25	0.001	0.06	<0.1	1.7	0.15	0.04	359	0.3	0.04	4.4	2.01	<0.1	<0.02
REP 612352	QC	10.4	22.0	0.13	97.1	0.005	1	1.20	<0.001	0.05	<0.1	1.6	0.13	0.04	210	0.3	0.05	4.0	1.66	<0.1	<0.02
1096278	Soil	7.8	13.4	0.05	74.9	0.005	2	0.49	<0.001	0.14	<0.1	1.1	0.10	0.03	31	0.1	0.04	3.2	2.88	<0.1	<0.02
REP 1096278	QC	7.9	13.4	0.05	74.6	0.006	3	0.56	<0.001	0.14	<0.1	1.2	0.10	0.03	29	0.1	0.03	3.1	3.06	<0.1	<0.02
1096293	Soil	11.0	19.5	0.23	137.5	0.003	2	1.39	0.003	0.08	<0.1	3.3	0.16	0.02	74	0.2	<0.02	3.2	1.26	<0.1	0.04
REP 1096293	QC	11.5	20.9	0.25	143.4	0.003	2	1.44	0.003	0.08	<0.1	3.4	0.16	0.02	69	0.3	0.03	3.3	1.40	<0.1	0.04
612356	Soil	7.5	9.9	3.25	101.8	0.004	5	0.44	0.008	0.08	0.1	2.0	0.16	0.04	477	0.6	0.02	1.2	1.38	<0.1	0.04
REP 612356	QC	7.7	10.0	3.35	106.1	0.004	6	0.46	0.008	0.09	0.1	2.1	0.18	0.04	514	0.5	<0.02	1.3	1.41	<0.1	0.06
612374	Soil	25.1	12.9	0.24	281.5	0.003	3	1.56	0.006	0.14	<0.1	3.5	0.47	0.20	454	0.3	0.03	1.7	7.84	<0.1	0.06
REP 612374	QC	26.1	13.3	0.24	298.4	0.003	3	1.63	0.006	0.14	<0.1	3.4	0.46	0.20	433	0.4	0.04	1.5	8.10	<0.1	0.08
612861	Soil	10.0	11.7	0.70	123.2	0.005	3	0.72	0.005	0.09	0.4	2.7	0.21	<0.02	531	0.4	0.07	2.0	1.85	<0.1	0.05
REP 612861	QC	10.3	12.6	0.73	127.9	0.006	4	0.76	0.006	0.10	0.4	2.9	0.21	<0.02	555	0.3	0.06	2.2	1.97	<0.1	0.03
612889	Soil	11.2	11.7	0.81	117.4	0.003	4	0.70	0.005	0.07	<0.1	1.6	0.14	0.10	330	0.7	0.02	1.5	3.92	<0.1	0.04
REP 612889	QC	11.1	11.3	0.81	118.4	0.003	4	0.69	0.005	0.06	<0.1	1.6	0.14	0.10	361	0.8	0.04	1.5	3.59	<0.1	0.03
612896	Soil	5.3	8.8	4.56	45.4	0.002	3	0.46	0.007	0.04	<0.1	0.7	0.06	0.04	501	0.6	0.02	1.1	0.59	<0.1	0.04
REP 612896	QC	5.3	8.6	4.48	44.7	0.002	3	0.47	0.007	0.04	<0.1	0.7	0.06	0.05	515	0.6	<0.02	1.1	0.55	<0.1	0.02
1097055	Soil	6.9	12.1	0.22	77.6	0.005	4	0.77	0.006	0.04	<0.1	0.9	0.10	0.15	278	0.6	0.03	2.0	0.91	<0.1	0.03
REP 1097055	QC	6.8	11.9	0.21	77.6	0.004	4	0.75	0.006	0.04	<0.1	0.9	0.10	0.15	293	0.5	0.03	1.9	0.83	<0.1	0.03
Reference Materials																					
STD DS8	Standard	16.1	116.4	0.59	273.7	0.114	3	0.94	0.100	0.42	3.0	2.8	5.61	0.15	190	5.1	4.87	4.5	2.45	<0.1	0.08
STD DS8	Standard	18.8	108.6	0.63	258.5	0.119	3	0.96	0.093	0.42	2.5	2.6	5.09	0.16	181	4.7	4.51	4.5	2.30	<0.1	0.08
STD DS8	Standard	18.2	122.0	0.64	297.6	0.123	2	1.01	0.112	0.45	3.3	2.1	6.03	0.16	211	5.4	5.59	4.8	2.63	<0.1	0.09
STD DS8	Standard	15.0	116.1	0.65	246.2	0.117	2	0.91	0.086	0.41	2.6	2.3	5.15	0.15	208	5.0	4.44	4.5	2.43	<0.1	0.05
STD DS8	Standard	19.9	114.9	0.64	258.9	0.112	3	0.97	0.102	0.43	2.9	2.8	5.28	0.16	203	4.9	4.68	4.5	2.93	0.1	0.08

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 10, 2011

Page: 1 of 2 Part 3

QUALITY CONTROL REPORT

WHI11001171.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
1096255	Soil	0.23	9.5	0.4	<0.05	1.2	21.87	44.8	0.04	<1	1.1	16.4	<10	<2
REP 1096255	QC	0.21	8.7	0.5	<0.05	1.4	21.19	44.1	0.04	<1	1.1	15.0	<10	<2
120526	Soil	0.10	11.1	1.0	<0.05	2.2	9.73	19.2	0.03	<1	0.7	8.2	<10	<2
REP 120526	QC	0.10	10.9	1.0	<0.05	2.4	10.26	19.7	0.04	<1	0.7	8.3	<10	<2
612352	Soil	0.32	14.1	0.8	<0.05	0.4	7.84	25.2	0.05	1	0.6	12.6	<10	<2
REP 612352	QC	0.33	11.7	0.7	<0.05	0.3	7.24	23.1	0.03	<1	0.6	10.7	<10	<2
1096278	Soil	0.18	16.8	2.5	<0.05	<0.1	2.16	14.0	0.03	<1	0.2	2.1	<10	<2
REP 1096278	QC	0.20	17.7	3.0	<0.05	0.1	2.18	14.0	0.03	<1	0.2	2.2	<10	<2
1096293	Soil	0.22	12.7	1.0	<0.05	0.9	8.45	26.9	0.03	<1	0.7	15.7	<10	<2
REP 1096293	QC	0.25	13.3	1.0	<0.05	1.1	8.86	28.2	0.03	<1	0.7	16.3	<10	<2
612356	Soil	0.13	5.4	2.2	<0.05	1.5	8.48	15.6	<0.02	<1	0.4	5.3	<10	<2
REP 612356	QC	0.14	5.6	1.6	<0.05	1.6	8.67	16.3	<0.02	<1	0.4	5.6	<10	<2
612374	Soil	0.22	6.9	5.7	<0.05	2.2	34.41	163.7	0.03	1	2.1	11.0	<10	<2
REP 612374	QC	0.23	7.4	5.6	<0.05	2.4	36.27	175.4	0.03	<1	2.3	10.5	<10	<2
612861	Soil	0.20	6.5	0.5	<0.05	1.4	12.16	23.4	0.03	1	0.8	8.5	<10	<2
REP 612861	QC	0.22	6.6	0.5	<0.05	1.2	12.17	23.9	<0.02	<1	0.8	8.6	<10	<2
612889	Soil	0.21	5.3	1.0	<0.05	0.7	18.32	31.3	0.03	<1	0.6	6.8	<10	<2
REP 612889	QC	0.20	4.9	1.2	<0.05	0.8	17.88	31.0	0.02	<1	0.5	6.8	<10	<2
612896	Soil	0.10	2.9	2.5	<0.05	0.7	7.09	11.0	<0.02	<1	0.4	5.8	<10	<2
REP 612896	QC	0.11	2.7	2.1	<0.05	0.6	7.09	11.0	<0.02	<1	0.3	5.8	<10	<2
1097055	Soil	0.42	5.3	3.4	<0.05	1.2	8.36	14.2	<0.02	<1	0.5	4.9	<10	<2
REP 1097055	QC	0.40	5.2	3.1	<0.05	1.4	8.27	13.7	0.02	<1	0.4	4.6	<10	<2
Reference Materials														
STD DS8	Standard	1.40	42.0	7.2	<0.05	1.9	6.24	26.4	2.40	56	4.7	28.0	119	351
STD DS8	Standard	1.27	37.4	6.5	<0.05	1.7	6.73	29.6	2.12	48	4.5	28.3	124	327
STD DS8	Standard	1.48	39.3	7.3	<0.05	2.0	6.92	32.4	2.44	57	6.1	28.7	105	385
STD DS8	Standard	1.17	37.3	6.1	<0.05	1.3	6.02	26.0	2.01	52	4.7	28.1	113	340
STD DS8	Standard	1.43	43.7	7.3	<0.05	1.8	7.66	31.2	2.56	50	4.4	26.5	91	321

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: September 10, 2011

Page: 2 of 2 **Part** 1

QUALITY CONTROL REPORT

WHI11001171.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
STD DS8	Standard	13.81	106.2	132.8	317.4	1912	37.9	7.4	634	2.62	26.1	2.8	124.4	6.6	71.5	2.27	5.16	6.32	45	0.76	0.085
STD DS8	Standard	11.34	105.2	114.9	297.7	1638	33.6	6.9	559	2.38	24.0	2.6	113.4	6.0	59.9	2.20	5.34	6.43	39	0.68	0.079
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	0.02	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: September 10, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI11001171.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
STD DS8	Standard	17.0	126.7	0.63	296.4	0.118	3	1.02	0.098	0.44	3.0	2.3	5.95	0.17	200	5.4	5.29	4.8	2.57	<0.1	0.08
STD DS8	Standard	14.6	107.6	0.60	250.9	0.104	2	0.91	0.086	0.41	2.9	2.5	5.15	0.15	193	5.1	5.02	4.5	2.35	<0.1	0.08
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: September 10, 2011

Page: 2 of 2 Part 3

QUALITY CONTROL REPORT

WHI11001171.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
STD DS8	Standard	1.39	39.5	6.4	<0.05	1.8	6.63	31.4	2.16	69	5.4	29.1	114	385
STD DS8	Standard	1.27	39.0	6.2	<0.05	1.4	5.96	25.1	2.12	50	4.8	27.9	126	314
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 20, 2011
Report Date: September 22, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001189.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-22
P.O. Number
Number of Samples: 323

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: David Clark
database backup
Simon Ridgway
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, 1F05, and RJSV.

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
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Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1097701	Soil			0.71	13.79	26.58	60.9	77	18.0	9.5	1032	3.64	17.1	0.6	1.1	3.7	12.0	0.18	0.82	0.31	37	0.27	0.025
1097702	Soil			0.65	12.66	18.57	66.8	34	17.6	7.1	229	3.10	13.5	0.4	2.0	2.5	8.5	0.10	0.63	0.24	28	0.09	0.023
1097703	Soil			0.53	16.29	25.10	65.4	27	19.1	10.1	789	3.81	18.5	0.8	0.5	3.8	10.5	0.09	0.74	0.31	29	0.34	0.023
1097704	Soil			0.87	14.81	36.36	69.4	62	22.1	10.0	1399	4.45	15.9	0.9	0.9	4.6	10.3	0.22	1.11	0.33	41	0.65	0.030
1097705	Soil			0.59	13.03	27.69	65.1	95	18.7	9.0	1074	3.62	12.3	0.6	<0.2	4.4	15.7	0.13	0.64	0.28	35	0.70	0.020
1097706	Soil			0.77	19.07	35.42	115.7	78	24.3	10.9	1421	5.19	18.7	1.0	1.6	5.8	11.9	0.19	1.08	0.34	33	0.24	0.021
1097707	Soil			0.80	17.41	31.20	129.2	121	23.1	9.7	2203	4.95	17.2	1.0	1.3	4.5	16.5	0.25	1.01	0.29	32	2.58	0.037
1097708	Soil			0.66	14.65	37.87	95.8	104	20.3	9.0	2814	4.37	19.9	0.6	1.7	3.7	18.7	0.35	1.25	0.27	36	2.55	0.046
1097709	Soil			0.56	16.13	31.41	96.1	152	18.2	8.5	1808	3.80	18.9	0.8	1.0	2.4	31.2	0.27	1.31	0.25	30	4.62	0.085
1097710	Soil			0.70	12.70	35.82	1399	139	19.9	9.3	3039	5.95	97.2	0.8	2.0	3.1	21.2	2.65	1.94	0.25	39	3.14	0.074
1097711	Soil			0.68	27.33	34.34	83.6	203	30.8	12.6	853	3.69	18.7	0.7	2.1	4.0	27.8	0.17	1.10	0.34	23	2.23	0.038
1097712	Soil			0.46	9.74	34.94	88.6	85	15.2	6.8	2145	3.57	19.9	0.7	1.0	2.9	24.0	0.23	1.15	0.21	25	5.31	0.044
1097713	Soil			0.76	18.90	39.76	187.6	127	25.8	12.3	893	3.76	21.5	0.8	1.7	5.8	53.3	0.27	0.86	0.37	33	2.64	0.033
1097714	Soil			0.56	13.99	31.51	117.3	108	19.4	9.8	2656	5.33	17.3	0.5	0.6	3.3	26.8	0.35	0.84	0.29	37	1.56	0.052
1097715	Soil			0.59	14.42	46.05	88.3	127	18.5	9.1	3644	6.57	26.6	0.7	0.6	2.8	16.7	0.36	1.62	0.25	37	3.15	0.090
1097716	Soil			0.80	26.80	54.96	172.9	236	27.4	9.4	2883	5.75	69.9	2.3	3.5	1.8	39.6	0.69	3.88	0.25	27	5.44	0.196
1097717	Soil			0.60	11.39	34.45	94.8	92	20.0	8.8	1162	3.49	22.9	0.7	1.3	4.2	20.3	0.22	1.25	0.27	28	2.10	0.037
1097718	Soil			0.42	22.48	56.78	91.0	343	18.5	9.2	1314	2.55	34.7	1.9	1.6	1.3	35.6	0.39	3.98	0.22	18	7.13	0.181
1097719	Soil			0.67	17.05	35.01	100.5	84	22.3	11.1	1306	4.53	21.7	0.7	0.8	4.9	55.5	0.25	0.88	0.33	35	2.79	0.026
1097720	Soil			0.53	13.08	31.07	267.6	117	10.9	5.2	3973	4.81	23.6	1.0	0.8	0.5	31.2	1.42	1.92	0.13	18	7.24	0.121
1097721	Soil			0.65	10.18	21.53	152.6	47	17.6	6.6	486	3.35	11.2	0.7	<0.2	2.8	29.9	0.36	0.81	0.24	39	1.18	0.032
1097722	Soil			0.46	24.06	22.97	86.6	171	22.4	8.5	336	3.01	10.7	1.8	1.3	1.0	67.0	0.48	0.50	0.27	24	1.97	0.070
1097723	Soil			0.70	13.80	24.37	85.9	44	21.9	10.0	546	3.36	13.5	0.7	<0.2	3.9	24.0	0.24	0.64	0.28	38	0.79	0.018
1097724	Soil			0.49	17.27	20.96	73.5	90	20.5	10.5	520	2.91	10.4	0.6	0.4	2.9	84.2	0.23	0.45	0.27	29	1.38	0.039
1097725	Soil			0.37	18.96	20.97	67.9	71	23.6	10.4	320	3.31	10.9	0.7	0.7	4.4	38.5	0.05	0.38	0.29	20	0.56	0.020
1097726	Soil			0.55	11.43	20.10	61.8	107	15.2	6.2	479	3.00	7.7	0.6	<0.2	1.8	128.9	0.38	0.35	0.28	33	2.15	0.051
1097727	Soil			0.48	19.19	22.00	69.8	37	19.4	8.3	287	2.77	9.8	0.5	0.7	4.5	63.2	0.29	0.36	0.32	18	2.19	0.025
1097728	Soil			0.41	15.80	22.69	75.2	104	22.6	9.5	396	2.84	8.1	0.6	0.6	6.4	140.5	0.20	0.27	0.32	17	1.61	0.040
1097729	Soil			0.60	15.18	23.40	83.1	73	22.9	9.0	258	3.16	10.3	0.6	<0.2	4.2	55.8	0.15	0.32	0.30	23	0.93	0.024
1097730	Soil			0.65	19.16	23.73	84.4	108	22.6	8.6	583	3.45	10.6	0.8	<0.2	4.1	59.8	0.25	0.35	0.32	21	0.90	0.033



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1097701	Soil	11.7	21.4	0.31	103.4	0.006	3	1.34	0.006	0.10	0.1	3.5	0.12	<0.02	62	<0.1	0.06	4.1	1.33	<0.1	0.02
1097702	Soil	6.8	17.6	0.27	58.1	0.006	2	1.03	0.004	0.08	<0.1	2.0	0.08	0.02	51	<0.1	0.02	3.2	1.03	<0.1	<0.02
1097703	Soil	6.9	18.5	0.31	150.8	0.002	3	1.38	0.004	0.09	<0.1	3.2	0.11	<0.02	67	0.2	0.05	3.3	0.91	<0.1	0.05
1097704	Soil	15.6	25.5	0.57	103.8	0.005	4	1.64	0.006	0.11	<0.1	5.2	0.14	<0.02	93	0.5	0.05	4.5	1.24	<0.1	0.07
1097705	Soil	12.3	22.9	0.53	141.6	0.003	3	1.64	0.005	0.10	<0.1	4.2	0.15	<0.02	68	0.3	0.03	4.5	1.23	<0.1	0.07
1097706	Soil	16.9	22.9	0.34	102.3	0.003	3	1.53	0.005	0.11	<0.1	5.8	0.14	<0.02	159	0.4	0.06	3.9	0.84	<0.1	0.06
1097707	Soil	15.9	23.4	1.71	121.4	0.004	3	1.45	0.006	0.10	<0.1	5.4	0.12	0.02	394	0.8	0.06	3.7	0.95	<0.1	0.05
1097708	Soil	13.6	23.3	1.72	163.2	0.004	6	1.67	0.007	0.08	<0.1	4.5	0.14	0.03	90	0.5	0.05	4.2	0.86	<0.1	0.08
1097709	Soil	11.2	21.5	3.00	113.2	0.003	7	1.62	0.010	0.08	<0.1	3.5	0.09	0.04	114	0.4	0.04	3.8	0.71	<0.1	0.08
1097710	Soil	13.5	25.1	2.01	177.3	0.006	8	1.98	0.008	0.11	<0.1	3.8	0.11	0.03	201	0.5	0.07	5.2	0.90	<0.1	0.09
1097711	Soil	8.6	21.7	1.22	82.6	0.003	10	1.27	0.008	0.17	<0.1	5.0	0.12	0.03	146	0.5	0.05	3.4	1.02	<0.1	0.06
1097712	Soil	9.5	18.8	3.47	128.4	0.002	6	1.54	0.007	0.12	<0.1	3.5	0.10	<0.02	90	0.4	0.05	3.7	0.75	<0.1	0.06
1097713	Soil	21.0	22.7	1.20	111.8	0.005	4	1.42	0.006	0.13	<0.1	6.0	0.13	<0.02	314	0.4	0.07	3.9	0.75	<0.1	0.05
1097714	Soil	16.4	24.2	0.74	188.8	0.004	7	1.86	0.006	0.10	<0.1	4.2	0.09	0.03	79	0.3	0.05	4.8	0.95	<0.1	0.06
1097715	Soil	16.0	23.9	1.92	164.7	0.004	6	1.90	0.007	0.11	<0.1	3.8	0.11	0.05	63	0.5	0.06	4.8	0.71	<0.1	0.11
1097716	Soil	10.9	21.2	3.08	133.0	0.005	7	1.39	0.010	0.13	<0.1	2.7	0.16	0.06	187	0.9	0.13	3.5	0.83	<0.1	0.07
1097717	Soil	12.7	21.5	1.15	113.6	0.003	6	1.38	0.006	0.15	<0.1	4.3	0.12	0.02	88	0.4	0.03	3.5	0.68	<0.1	0.04
1097718	Soil	5.8	16.0	4.28	66.7	0.002	7	0.76	0.008	0.08	<0.1	1.9	0.10	0.06	318	0.5	0.09	1.8	0.34	<0.1	0.06
1097719	Soil	16.4	25.2	0.62	137.2	0.003	5	1.69	0.005	0.12	<0.1	4.5	0.14	0.02	110	0.5	0.02	4.4	0.77	<0.1	0.05
1097720	Soil	11.4	12.5	4.43	134.6	0.004	6	0.92	0.011	0.06	<0.1	1.3	0.07	0.07	126	0.5	0.05	2.0	0.43	<0.1	<0.02
1097721	Soil	11.4	24.3	0.65	114.9	0.008	5	1.59	0.006	0.07	<0.1	2.9	0.12	0.02	58	0.3	0.03	4.7	0.96	<0.1	0.03
1097722	Soil	7.9	19.9	0.33	167.6	0.003	6	1.37	0.006	0.10	<0.1	2.9	0.08	0.06	149	0.5	0.03	3.6	0.94	<0.1	0.03
1097723	Soil	9.1	25.8	0.44	128.8	0.006	5	1.60	0.005	0.08	<0.1	3.2	0.14	<0.02	71	0.3	0.06	4.9	1.03	<0.1	0.04
1097724	Soil	7.4	21.4	0.33	180.2	0.004	2	1.37	0.006	0.10	<0.1	3.5	0.11	0.03	53	0.4	0.05	4.1	1.00	<0.1	0.04
1097725	Soil	8.9	20.0	0.35	109.0	0.002	4	1.33	0.004	0.11	<0.1	4.9	0.11	<0.02	76	0.2	0.06	3.7	1.30	<0.1	0.03
1097726	Soil	13.0	20.1	0.27	139.7	0.007	7	1.32	0.008	0.09	<0.1	2.8	0.10	0.04	59	0.4	0.07	3.4	1.05	<0.1	<0.02
1097727	Soil	11.0	14.4	0.21	256.2	0.002	9	1.17	0.006	0.15	<0.1	4.2	0.16	<0.02	59	0.4	0.02	3.1	0.58	<0.1	0.04
1097728	Soil	15.2	11.8	0.13	188.0	0.003	7	0.97	0.006	0.30	<0.1	4.9	0.12	<0.02	40	0.4	0.03	2.4	0.55	<0.1	0.04
1097729	Soil	13.6	16.5	0.14	190.9	0.002	4	1.25	0.005	0.15	<0.1	4.1	0.16	0.02	72	0.4	0.04	3.2	1.25	<0.1	0.03
1097730	Soil	15.7	16.1	0.18	140.9	0.001	3	0.99	0.003	0.13	<0.1	5.3	0.13	0.03	103	0.6	0.03	2.4	0.63	<0.1	0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 2 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1097701	Soil	0.50	13.2	2.2	<0.05	1.1	6.39	30.0	0.04	<1	1.0	14.2	<10	<2
1097702	Soil	0.43	9.6	2.8	<0.05	0.7	2.35	14.5	<0.02	<1	0.5	17.6	<10	<2
1097703	Soil	0.26	10.1	0.9	<0.05	1.7	4.49	21.9	0.04	<1	1.1	14.9	<10	<2
1097704	Soil	0.36	14.5	3.6	<0.05	2.5	12.37	30.0	0.04	<1	1.3	16.9	<10	<2
1097705	Soil	0.27	10.3	0.9	<0.05	2.6	9.66	25.9	0.02	<1	0.9	17.0	<10	<2
1097706	Soil	0.25	12.1	2.4	<0.05	3.0	18.85	29.6	0.03	<1	1.7	16.2	<10	<2
1097707	Soil	0.29	10.2	1.7	<0.05	2.3	18.75	25.9	0.04	<1	1.0	15.7	<10	<2
1097708	Soil	0.36	10.5	3.8	<0.05	2.4	13.57	28.5	0.03	<1	1.1	15.4	<10	<2
1097709	Soil	0.33	8.7	0.7	<0.05	2.3	11.75	22.6	0.03	<1	1.0	14.9	<10	<2
1097710	Soil	0.42	11.9	2.7	<0.05	2.4	14.28	28.0	0.02	<1	1.2	15.3	<10	<2
1097711	Soil	0.26	11.0	5.7	<0.05	2.7	15.40	18.7	0.03	<1	1.2	20.8	<10	<2
1097712	Soil	0.23	11.1	3.4	<0.05	1.9	10.53	19.7	<0.02	<1	1.1	14.2	<10	<2
1097713	Soil	0.36	11.5	1.5	<0.05	2.3	19.38	38.1	0.05	<1	1.0	15.1	<10	<2
1097714	Soil	0.45	10.2	1.3	<0.05	2.6	15.13	33.8	0.03	<1	1.0	17.6	<10	<2
1097715	Soil	0.28	10.2	1.1	<0.05	2.9	19.06	33.3	0.03	<1	0.9	14.1	<10	<2
1097716	Soil	0.23	8.9	2.8	<0.05	2.4	15.03	21.7	<0.02	<1	0.7	11.7	<10	<2
1097717	Soil	0.38	13.7	1.8	<0.05	2.1	13.01	31.3	0.03	<1	0.9	14.7	<10	<2
1097718	Soil	0.12	5.3	2.4	<0.05	2.1	12.42	12.1	<0.02	<1	0.3	4.1	<10	<2
1097719	Soil	0.31	10.0	1.9	<0.05	3.0	14.93	32.9	0.03	<1	1.1	19.7	<10	<2
1097720	Soil	0.14	5.6	5.1	<0.05	0.7	14.09	21.1	<0.02	<1	0.5	4.4	<10	<2
1097721	Soil	0.68	9.9	1.4	<0.05	1.3	7.33	20.9	0.02	<1	1.1	14.9	<10	<2
1097722	Soil	0.42	10.3	1.4	<0.05	1.0	8.60	15.8	0.03	<1	0.8	22.6	<10	<2
1097723	Soil	0.49	10.6	1.6	<0.05	2.2	5.91	22.7	0.03	<1	0.9	20.5	<10	<2
1097724	Soil	0.58	11.1	2.0	<0.05	1.6	5.59	24.4	0.03	<1	0.8	20.5	<10	<2
1097725	Soil	0.21	11.3	0.9	<0.05	2.1	10.94	23.2	0.04	<1	0.7	28.8	<10	<2
1097726	Soil	0.57	11.1	1.9	<0.05	0.8	8.71	33.4	0.04	<1	0.9	10.6	<10	<2
1097727	Soil	0.32	10.4	1.4	<0.05	2.4	9.72	26.9	0.03	<1	0.9	11.9	<10	<2
1097728	Soil	0.32	10.1	1.1	<0.05	3.7	10.04	41.8	0.03	<1	0.8	7.3	<10	<2
1097729	Soil	0.33	13.7	0.6	<0.05	1.6	9.48	36.6	0.03	<1	1.0	13.2	<10	<2
1097730	Soil	0.21	9.2	1.5	<0.05	2.6	12.17	40.9	0.03	<1	1.2	11.0	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
1097851	Soil		0.53	19.61	33.76	60.6	77	19.8	8.6	616	3.25	11.1	1.0	<0.2	1.9	35.7	0.18	0.60	0.27	23	0.85	0.033
1097852	Soil		0.52	23.21	29.05	83.8	71	21.3	10.4	571	3.37	12.4	0.3	0.4	1.6	21.7	0.18	0.53	0.34	13	0.37	0.042
1097601	Soil		0.31	38.49	44.96	346.6	147	30.5	13.5	446	3.36	23.7	0.7	<0.2	4.3	41.8	0.42	0.53	0.36	15	0.03	0.057
1097602	Soil		11.01	5.44	75.33	1508	85	8.8	3.1	1465	2.70	25.4	2.2	<0.2	0.8	163.2	1.55	2.48	0.07	14	9.55	0.063
1097603	Soil		1.03	27.99	67.54	417.5	105	19.7	13.0	873	0.75	16.3	1.3	1.2	0.8	403.1	2.09	0.96	0.11	12	11.00	0.064
1097604	Soil		0.33	2.22	193.2	285.7	98	2.4	1.0	1022	0.42	25.2	1.4	0.3	0.2	104.0	1.76	0.55	0.02	4	12.79	0.103
1097605	Soil		0.18	2.08	29.34	222.2	54	3.0	1.6	711	0.58	11.1	1.4	1.6	0.4	225.4	0.39	0.45	0.03	3	17.38	0.166
1097606	Soil		0.53	17.96	10.59	47.3	18	8.9	4.7	131	3.01	1.5	0.7	3.0	3.7	4.2	0.10	0.45	0.35	24	0.05	0.021
1097751	Soil		0.46	16.87	34.15	71.9	201	23.4	10.4	1472	4.29	17.3	1.3	5.5	2.5	28.1	0.14	0.90	0.28	16	3.57	0.102
1097752	Soil		0.37	11.59	18.22	42.6	126	16.8	7.3	893	2.41	10.8	1.1	2.4	1.3	40.1	0.22	0.65	0.16	14	9.87	0.100
1097753	Soil		0.30	8.03	15.44	35.0	96	11.6	5.7	820	2.09	10.3	1.0	3.2	1.5	51.2	0.15	0.53	0.12	10	12.13	0.085
1097754	Soil		0.47	13.64	20.72	70.7	152	15.3	7.1	2451	4.90	16.1	1.3	1.7	0.6	21.8	0.44	0.91	0.18	25	5.74	0.153
1097755	Soil		0.24	5.46	11.55	16.9	58	6.3	3.5	1494	2.12	10.8	1.2	1.8	0.6	42.7	0.09	0.66	0.06	8	15.50	0.083
1097756	Soil		0.69	14.62	32.71	79.3	119	23.3	10.0	1743	4.74	19.3	1.0	3.3	2.3	18.6	0.29	1.45	0.26	35	3.15	0.103
1097757	Soil		5.58	17.95	48.14	120.0	159	22.6	11.3	1821	4.78	27.3	0.8	2.5	1.9	20.7	0.49	2.43	0.28	30	2.99	0.121
1097758	Soil		0.72	13.99	52.79	61.0	194	17.4	9.6	2340	3.87	29.1	0.8	1.6	1.6	56.0	0.26	2.43	0.18	20	9.98	0.116
1097759	Soil		0.62	10.86	23.42	55.5	89	15.5	9.5	2868	4.35	12.4	0.8	0.9	1.7	21.2	0.30	0.68	0.25	33	2.52	0.085
1097760	Soil		0.87	15.05	27.67	55.2	67	18.0	15.0	1948	3.52	17.4	1.1	0.4	2.1	9.5	0.27	0.76	0.38	27	0.61	0.059
1097761	Soil		0.50	14.34	15.88	66.9	43	12.6	8.1	400	3.25	6.4	0.4	1.0	2.3	8.6	0.10	0.33	0.36	35	0.14	0.024
1097762	Soil		0.80	14.76	27.49	81.9	177	21.4	10.3	1144	4.13	12.6	1.0	1.9	3.1	24.8	0.20	0.66	0.28	28	2.15	0.060
1097763	Soil		0.29	13.77	16.02	40.5	44	12.6	7.9	802	2.10	14.5	0.8	4.0	1.1	29.6	0.11	0.85	0.17	9	9.35	0.075
1097764	Soil		0.51	27.75	26.86	100.8	82	27.9	14.7	804	3.75	9.6	0.6	2.1	4.0	23.9	0.18	0.48	0.33	23	0.83	0.045
1097765	Soil		0.69	22.96	34.11	89.8	52	29.4	16.4	585	4.05	7.2	0.6	1.4	3.6	26.7	0.06	0.28	0.38	27	0.45	0.044
1097766	Soil		0.90	41.64	28.73	70.8	146	28.6	17.0	819	3.91	6.4	8.4	1.4	2.6	84.7	0.16	0.23	0.39	27	0.74	0.074
1097767	Soil		0.61	28.83	33.26	88.9	72	31.8	19.1	795	4.34	7.3	0.6	1.6	3.4	18.1	0.09	0.26	0.44	31	0.20	0.053
1097768	Soil		0.50	32.99	25.09	89.1	83	32.1	14.9	372	4.95	9.0	0.5	1.1	4.1	7.2	0.05	0.25	0.44	36	0.03	0.032
1097769	Soil		0.49	24.54	28.29	79.1	82	29.7	13.7	423	4.70	8.7	0.4	0.8	3.7	8.1	0.06	0.41	0.39	29	0.06	0.040
1097770	Soil		0.39	23.05	28.30	90.8	133	28.7	11.7	533	3.13	10.9	0.9	1.6	3.2	54.4	0.13	0.57	0.29	11	3.00	0.057
1097771	Soil		0.36	17.99	21.99	79.6	97	18.1	8.6	532	2.57	11.6	0.8	1.4	1.4	51.9	0.20	0.58	0.21	13	3.07	0.074
1097772	Soil		0.35	17.10	21.52	77.6	109	18.4	7.6	407	2.57	10.1	0.7	1.2	1.4	53.2	0.15	0.53	0.23	12	2.96	0.069



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097851	Soil	6.7	18.9	0.30	106.2	0.002	3	1.25	0.006	0.10	<0.1	3.2	0.10	0.03	111	0.4	0.05	3.6	1.06	<0.1	<0.02
1097852	Soil	3.6	9.3	0.12	71.5	0.002	5	0.61	0.004	0.12	<0.1	2.5	0.10	0.03	361	0.3	0.04	1.9	0.74	<0.1	<0.02
1097601	Soil	4.3	9.0	0.05	63.9	<0.001	3	0.30	0.003	0.13	<0.1	3.5	0.25	<0.02	1207	0.3	0.05	1.5	3.88	<0.1	<0.02
1097602	Soil	5.9	9.7	7.10	48.1	0.004	2	0.37	0.008	0.03	<0.1	1.5	2.87	<0.02	3471	0.5	0.04	1.1	0.31	<0.1	0.03
1097603	Soil	2.9	7.8	8.33	42.9	0.001	3	0.39	0.007	0.05	<0.1	2.3	0.33	<0.02	1924	0.3	0.05	1.0	0.37	<0.1	0.03
1097604	Soil	2.1	3.4	9.46	22.0	0.003	2	0.16	0.007	0.02	<0.1	0.3	0.24	<0.02	>50000	0.4	0.03	0.4	0.17	<0.1	<0.02
1097605	Soil	4.9	3.2	9.61	33.8	0.002	4	0.15	0.007	0.03	<0.1	0.6	0.84	<0.02	917	0.3	0.03	0.3	0.34	<0.1	0.02
1097606	Soil	3.8	18.5	0.12	79.6	0.005	4	1.13	0.003	0.24	<0.1	2.0	0.18	<0.02	91	<0.1	0.03	4.8	2.88	<0.1	<0.02
1097751	Soil	9.8	15.4	1.92	120.6	0.003	4	0.96	0.005	0.10	<0.1	3.3	0.12	0.03	108	0.2	0.04	2.1	1.29	<0.1	0.05
1097752	Soil	6.7	11.7	5.81	61.1	0.005	5	0.84	0.006	0.09	<0.1	2.0	0.09	<0.02	124	0.3	<0.02	1.7	0.82	<0.1	0.04
1097753	Soil	4.8	9.7	6.94	47.3	0.005	5	0.50	0.007	0.07	<0.1	1.6	0.06	<0.02	72	0.3	0.03	1.2	0.69	<0.1	0.02
1097754	Soil	10.0	18.5	3.20	127.5	0.008	5	1.29	0.007	0.07	<0.1	1.6	0.11	0.06	135	0.5	0.03	2.6	0.92	<0.1	<0.02
1097755	Soil	2.8	7.2	8.89	56.9	0.003	3	0.41	0.009	0.06	<0.1	1.1	0.08	<0.02	42	0.3	0.03	1.0	0.52	<0.1	0.03
1097756	Soil	10.7	26.4	2.00	131.0	0.005	4	1.95	0.004	0.13	<0.1	3.2	0.15	0.04	73	0.3	0.06	4.2	1.05	<0.1	0.07
1097757	Soil	11.4	23.1	1.64	153.2	0.004	8	1.80	0.007	0.15	<0.1	3.2	0.14	0.06	130	0.3	0.04	4.1	0.99	<0.1	0.08
1097758	Soil	8.7	15.8	5.81	99.8	0.003	8	1.25	0.007	0.09	<0.1	2.4	0.18	0.03	86	0.4	0.03	2.5	0.65	<0.1	0.06
1097759	Soil	13.4	21.8	1.28	142.1	0.005	4	1.51	0.004	0.08	<0.1	3.1	0.12	0.04	76	0.3	0.04	3.6	0.93	<0.1	0.04
1097760	Soil	7.4	19.7	0.41	125.7	0.006	4	1.37	0.003	0.20	<0.1	3.1	0.14	0.04	82	0.2	0.05	4.3	1.75	<0.1	0.04
1097761	Soil	6.4	23.8	0.28	138.1	0.007	1	1.24	0.005	0.14	<0.1	2.2	0.10	<0.02	15	<0.1	<0.02	6.5	1.56	<0.1	<0.02
1097762	Soil	13.6	22.1	1.28	127.7	0.007	3	1.31	0.004	0.10	<0.1	4.0	0.11	0.03	71	0.3	0.05	3.4	1.26	<0.1	0.02
1097763	Soil	3.4	9.1	5.56	62.2	0.003	4	0.55	0.007	0.09	<0.1	1.7	0.08	<0.02	86	0.2	0.02	1.5	1.09	<0.1	0.04
1097764	Soil	8.2	27.1	0.60	104.4	0.004	3	1.57	0.006	0.12	<0.1	3.6	0.09	0.03	101	0.2	<0.02	4.7	1.79	<0.1	0.04
1097765	Soil	6.5	35.8	0.61	137.7	0.003	2	1.88	0.006	0.09	<0.1	3.3	0.09	0.02	44	<0.1	0.03	6.3	2.45	<0.1	0.03
1097766	Soil	7.4	35.2	0.46	344.3	0.003	2	2.07	0.008	0.15	<0.1	4.2	0.10	0.06	62	0.6	<0.02	6.2	2.45	<0.1	0.05
1097767	Soil	6.7	40.3	0.56	191.8	0.004	1	2.01	0.005	0.13	<0.1	3.3	0.11	0.03	42	0.1	<0.02	7.5	2.85	<0.1	<0.02
1097768	Soil	4.6	44.9	0.62	78.1	0.004	2	2.45	0.003	0.13	<0.1	3.7	0.15	<0.02	26	0.2	<0.02	8.7	2.52	<0.1	0.04
1097769	Soil	5.6	35.7	0.49	107.2	0.004	2	1.96	0.003	0.10	<0.1	3.0	0.11	0.02	51	0.2	<0.02	6.5	1.97	<0.1	0.03
1097770	Soil	6.3	12.4	1.50	101.7	0.002	5	0.74	0.005	0.11	<0.1	3.2	0.12	0.04	156	0.3	0.02	1.9	1.92	<0.1	0.03
1097771	Soil	6.0	12.4	1.36	95.1	0.003	5	0.76	0.006	0.08	<0.1	2.3	0.08	0.05	122	0.3	0.03	2.1	1.04	<0.1	0.05
1097772	Soil	5.6	12.2	1.34	92.4	0.002	4	0.73	0.004	0.08	<0.1	2.3	0.08	0.05	129	0.3	<0.02	2.0	1.04	<0.1	0.04



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 3 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1097851	Soil	0.30	10.3	1.7	<0.05	1.2	7.89	16.5	0.03	<1	0.9	21.7	<10	<2
1097852	Soil	0.14	13.9	1.3	<0.05	0.7	2.68	9.3	0.03	1	0.6	6.8	<10	<2
1097601	Soil	<0.02	8.5	0.8	<0.05	0.8	11.14	11.6	0.05	<1	0.6	1.5	<10	<2
1097602	Soil	0.10	3.0	1.1	<0.05	0.7	5.85	11.1	<0.02	<1	0.3	2.4	<10	<2
1097603	Soil	0.03	3.1	0.7	<0.05	0.7	5.56	5.3	<0.02	<1	0.4	1.0	<10	<2
1097604	Soil	0.05	2.0	2.6	<0.05	0.5	2.77	3.5	<0.02	<1	0.2	1.1	<10	<2
1097605	Soil	0.04	1.9	0.5	<0.05	0.7	4.43	7.9	<0.02	<1	0.2	1.2	<10	<2
1097606	Soil	0.32	27.0	0.9	<0.05	0.3	5.55	7.9	0.02	<1	0.7	5.1	<10	<2
1097751	Soil	0.19	8.2	1.7	<0.05	1.6	11.93	20.4	0.04	<1	0.7	16.2	<10	<2
1097752	Soil	0.16	6.7	1.8	<0.05	1.2	9.33	14.3	<0.02	<1	0.6	11.6	<10	<2
1097753	Soil	0.14	4.9	1.9	<0.05	1.1	6.65	10.9	<0.02	<1	0.4	9.0	<10	<2
1097754	Soil	0.22	8.2	2.3	<0.05	0.5	10.36	19.1	0.03	<1	0.6	8.8	<10	<2
1097755	Soil	0.08	4.7	1.4	<0.05	0.7	4.24	6.0	<0.02	<1	0.4	5.4	<10	<2
1097756	Soil	0.33	10.4	2.3	<0.05	2.1	10.74	22.1	0.03	<1	1.0	15.9	<10	<2
1097757	Soil	0.32	12.5	1.4	<0.05	2.1	10.56	23.9	0.03	1	1.3	14.5	<10	<2
1097758	Soil	0.15	7.2	2.0	<0.05	1.9	9.30	18.2	0.02	<1	0.9	9.1	<10	<2
1097759	Soil	0.40	8.8	1.1	<0.05	1.2	10.93	29.3	0.03	<1	0.8	9.7	<10	<2
1097760	Soil	0.35	21.6	2.6	<0.05	1.1	5.25	23.4	0.03	<1	1.2	13.6	<10	<2
1097761	Soil	0.43	21.0	1.8	<0.05	0.3	3.03	12.8	0.03	<1	0.5	14.8	<10	<2
1097762	Soil	0.41	13.8	3.2	<0.05	1.1	13.15	29.7	0.03	<1	0.8	17.1	<10	<2
1097763	Soil	0.10	5.7	1.3	<0.05	1.1	4.96	8.0	<0.02	<1	0.5	7.5	<10	<2
1097764	Soil	0.36	12.1	2.0	<0.05	2.0	7.82	19.5	0.03	1	1.2	28.1	<10	<2
1097765	Soil	0.34	13.9	10.5	<0.05	1.2	5.02	16.0	0.03	<1	1.0	42.0	<10	<2
1097766	Soil	0.51	19.9	2.4	<0.05	1.4	9.73	16.9	0.04	<1	1.5	40.5	<10	2
1097767	Soil	0.52	16.2	3.1	<0.05	0.8	6.60	17.2	0.04	<1	1.3	37.5	<10	<2
1097768	Soil	0.43	17.8	3.4	<0.05	1.8	3.60	11.9	0.02	<1	1.1	43.5	<10	<2
1097769	Soil	0.55	14.1	2.8	<0.05	1.6	2.99	13.9	0.03	<1	0.9	35.2	<10	<2
1097770	Soil	0.11	8.7	0.7	<0.05	1.7	8.11	17.5	0.03	<1	0.8	19.5	<10	2
1097771	Soil	0.22	6.9	2.7	<0.05	1.5	7.63	14.7	0.03	<1	0.7	15.4	<10	<2
1097772	Soil	0.19	6.8	1.5	<0.05	1.2	7.60	14.0	0.02	<1	0.7	15.5	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1097773	Soil			0.31	17.57	20.94	63.1	93	19.3	8.7	440	2.40	10.8	0.7	2.2	2.1	54.1	0.10	0.59	0.23	10	5.66	0.059
1097774	Soil			0.52	16.30	19.79	56.0	64	15.4	9.1	885	2.34	16.8	1.0	3.8	1.1	49.1	0.17	0.99	0.20	12	8.70	0.086
1097775	Soil			0.53	14.01	18.89	49.0	49	14.6	8.0	851	2.18	14.5	0.8	3.4	1.2	30.9	0.14	0.78	0.19	10	9.26	0.075
1097776	Soil			0.32	18.00	23.21	72.4	97	22.8	9.2	465	2.50	9.4	0.8	1.6	2.7	73.6	0.13	0.47	0.24	8	3.93	0.051
1097777	Soil			0.53	20.80	38.17	99.3	198	26.1	13.3	1400	4.62	17.0	1.1	3.1	2.3	24.0	0.27	0.85	0.29	17	3.68	0.098
1097778	Soil			0.49	12.44	19.25	53.9	110	16.3	8.2	1765	3.35	13.3	1.1	1.9	1.3	29.6	0.21	1.00	0.18	20	7.31	0.118
1097779	Soil			0.50	16.16	29.78	67.1	124	21.5	10.8	1447	3.97	15.1	1.1	2.2	2.3	24.3	0.33	0.89	0.24	18	3.54	0.082
1097780	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1097781	Soil			0.39	11.40	19.00	47.4	84	12.5	6.6	1639	2.78	14.7	1.5	4.1	0.8	35.7	0.18	1.20	0.16	15	8.83	0.146
1097782	Soil			0.34	15.52	23.32	68.1	139	18.5	9.8	841	2.81	11.1	0.7	1.1	1.8	43.4	0.15	0.46	0.20	12	7.39	0.067
1097783	Soil			0.57	17.15	29.36	109.0	104	19.0	9.4	1538	4.40	11.4	1.1	1.3	2.5	27.7	0.43	0.57	0.27	22	2.10	0.078
1097784	Soil			0.46	11.49	20.21	166.7	114	14.3	7.1	1670	3.05	12.9	2.1	2.1	1.2	38.9	0.47	0.88	0.16	16	8.09	0.104
1097785	Soil			0.50	13.86	23.92	62.9	96	16.7	8.3	1153	3.08	13.3	0.6	1.7	1.7	48.1	0.18	0.83	0.20	18	6.10	0.090
1097786	Soil			0.66	16.36	29.40	78.7	39	21.9	11.8	1529	3.79	12.7	1.0	1.9	2.9	17.1	0.19	0.70	0.42	25	2.79	0.043
1097787	Soil			0.52	26.70	28.92	72.6	71	26.1	15.3	610	3.48	18.6	1.1	2.6	3.5	14.1	0.12	0.59	0.43	21	0.85	0.035
1096944	Soil			0.08	1.60	5.53	3.5	31	2.3	1.6	787	0.91	5.9	0.9	<0.2	0.1	124.6	0.05	0.32	0.03	4	20.08	0.115
1096945	Soil			0.56	18.73	30.19	59.9	255	18.8	9.2	1732	3.40	27.4	1.5	39.1	0.9	34.5	0.35	3.93	0.20	23	8.64	0.176
1096946	Soil			0.42	12.60	21.14	37.9	161	13.1	5.5	2301	3.57	26.4	1.2	5.6	0.6	54.7	0.22	1.66	0.13	20	10.09	0.177
1096947	Soil			0.37	8.97	18.80	38.8	133	11.6	4.8	5022	7.08	22.1	0.9	3.4	0.9	33.7	0.21	1.16	0.13	19	8.74	0.108
1096948	Soil			0.66	21.88	48.84	108.2	156	27.9	11.8	1072	4.09	26.2	0.7	2.9	3.1	17.1	0.17	1.38	0.33	30	0.75	0.070
1096949	Soil			0.56	21.62	37.66	82.8	148	33.5	12.8	410	3.43	29.8	1.0	3.1	2.9	34.0	0.16	1.82	0.40	15	0.96	0.075
1096950	Soil			0.67	16.30	35.21	72.7	73	23.9	12.8	1312	5.21	15.3	1.1	4.3	4.3	27.1	0.22	1.44	0.37	27	0.42	0.057
1097426	Soil			0.48	21.60	27.95	55.3	233	20.0	8.4	267	2.10	6.2	1.2	2.1	0.9	94.4	0.11	0.38	0.30	8	1.31	0.098
1097428	Soil			1.30	44.25	101.9	103.7	568	34.9	56.6	3195	4.46	9.2	1.5	1.9	2.2	26.5	0.18	0.62	0.38	19	0.23	0.105
1097430	Soil			1.07	34.07	36.32	101.9	396	35.9	19.2	860	4.08	7.8	0.7	0.7	3.1	22.0	0.09	0.47	0.34	16	0.16	0.043
1097431	Soil			1.27	36.95	60.45	100.8	609	35.5	30.7	1814	4.41	7.8	1.5	1.3	3.5	28.6	0.11	0.51	0.32	19	0.18	0.055
1097432	Soil			1.19	24.91	52.97	83.3	402	31.6	20.1	934	4.79	11.8	1.4	0.8	4.7	53.3	0.16	0.53	0.33	17	0.60	0.069
1097805	Soil			0.95	11.79	28.60	67.2	46	18.3	9.2	2019	4.29	12.0	1.0	0.6	3.7	8.8	0.20	0.85	0.29	40	0.57	0.042
1097806	Soil			0.70	15.02	40.91	67.1	102	18.3	9.0	2881	4.65	15.3	0.7	<0.2	3.9	14.3	0.28	1.19	0.27	33	2.33	0.047
1097807	Soil			0.78	11.62	36.10	461.0	76	19.0	10.5	4819	8.00	19.7	0.8	0.7	2.5	13.4	3.00	1.16	0.27	41	1.92	0.091



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097773	Soil	4.5	9.8	3.10	76.0	0.002	4	0.66	0.005	0.10	<0.1	2.4	0.10	0.03	82	0.3	0.02	1.7	1.41	<0.1	0.04
1097774	Soil	3.8	12.0	5.02	103.7	0.003	5	0.67	0.007	0.09	<0.1	1.9	0.10	0.03	119	0.4	0.04	2.0	1.29	<0.1	0.03
1097775	Soil	3.7	13.0	5.48	69.9	0.003	4	0.63	0.007	0.10	<0.1	1.9	0.08	0.03	95	0.3	0.02	1.7	1.23	<0.1	0.04
1097776	Soil	4.8	9.2	1.73	70.4	0.002	4	0.60	0.004	0.10	<0.1	2.5	0.11	0.03	83	0.3	0.04	1.5	1.43	<0.1	0.03
1097777	Soil	7.9	15.9	2.06	90.3	0.003	4	1.00	0.005	0.08	<0.1	3.6	0.12	0.04	90	0.4	0.05	2.2	1.51	<0.1	0.05
1097778	Soil	8.1	16.0	4.42	75.3	0.006	3	1.14	0.007	0.06	<0.1	1.9	0.07	0.03	110	0.3	0.02	2.3	0.71	<0.1	0.03
1097779	Soil	9.3	15.8	2.10	66.7	0.002	3	1.19	0.004	0.07	<0.1	3.3	0.11	0.04	76	0.3	<0.02	2.5	0.94	<0.1	0.05
1097780	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1097781	Soil	5.4	12.1	5.00	99.4	0.005	6	0.99	0.008	0.08	<0.1	1.3	0.09	0.03	106	0.3	0.03	2.0	0.83	<0.1	0.03
1097782	Soil	5.6	11.2	4.39	65.2	0.002	4	0.87	0.006	0.08	<0.1	3.1	0.08	0.02	73	0.3	<0.02	1.8	0.79	<0.1	0.05
1097783	Soil	10.5	18.1	0.98	134.8	0.002	2	1.29	0.004	0.07	<0.1	3.5	0.11	0.04	66	0.3	0.04	3.0	0.82	<0.1	0.06
1097784	Soil	6.3	12.9	4.71	86.9	0.004	4	1.00	0.007	0.06	<0.1	1.8	0.17	0.02	86	0.3	<0.02	2.1	0.75	<0.1	0.04
1097785	Soil	6.6	15.1	3.73	101.3	0.004	7	1.16	0.005	0.11	<0.1	2.5	0.15	0.03	46	0.2	0.02	2.5	0.78	<0.1	0.07
1097786	Soil	9.2	19.0	1.68	107.2	0.003	5	1.38	0.004	0.08	<0.1	4.2	0.16	<0.02	48	0.2	0.05	3.4	1.03	<0.1	0.07
1097787	Soil	7.6	22.9	0.61	114.1	0.003	3	1.29	0.003	0.09	<0.1	4.5	0.11	0.03	186	0.3	0.04	3.8	1.51	<0.1	0.04
1096944	Soil	2.4	3.5	10.14	31.8	0.002	2	0.13	0.009	<0.01	<0.1	0.5	<0.02	<0.02	30	0.3	<0.02	0.3	0.07	<0.1	<0.02
1096945	Soil	7.6	15.7	4.53	70.0	0.006	4	0.88	0.008	0.05	<0.1	1.8	0.14	0.05	395	0.4	0.06	1.8	0.45	<0.1	0.04
1096946	Soil	7.5	12.7	5.04	81.5	0.005	5	0.79	0.008	0.05	<0.1	1.5	0.12	0.04	147	0.4	<0.02	1.6	0.41	<0.1	0.03
1096947	Soil	11.6	12.7	4.43	113.3	0.003	5	0.90	0.007	0.05	<0.1	1.8	0.11	0.05	115	0.4	0.02	2.0	0.44	<0.1	0.04
1096948	Soil	11.6	22.4	0.36	123.6	0.004	5	1.43	0.004	0.14	0.1	4.4	0.15	0.03	125	0.4	0.08	3.8	0.92	<0.1	0.12
1096949	Soil	10.0	13.0	0.18	125.7	0.002	5	0.79	0.003	0.17	<0.1	4.6	0.18	0.07	183	0.4	0.05	2.0	1.07	<0.1	0.15
1096950	Soil	8.6	18.9	0.23	123.7	0.003	3	1.37	0.002	0.14	<0.1	4.4	0.14	<0.02	39	0.3	0.04	3.5	1.13	<0.1	0.05
1097426	Soil	3.4	8.4	0.12	105.9	0.001	6	0.50	0.007	0.08	<0.1	1.9	0.10	0.13	145	0.3	0.03	1.1	2.70	<0.1	0.04
1097428	Soil	5.7	23.0	0.37	97.7	0.004	3	1.40	0.005	0.08	<0.1	5.2	0.21	0.06	105	0.5	0.05	3.4	8.46	<0.1	0.03
1097430	Soil	3.1	16.5	0.26	53.2	0.001	3	0.79	0.003	0.08	<0.1	4.3	0.09	0.03	50	0.2	0.03	2.0	2.93	<0.1	0.04
1097431	Soil	4.8	23.7	0.39	80.0	0.002	3	1.38	0.004	0.08	<0.1	5.3	0.13	0.04	58	0.2	0.04	3.7	6.56	<0.1	0.07
1097432	Soil	12.8	20.7	0.24	185.8	0.002	2	1.31	0.003	0.06	<0.1	8.1	0.12	0.04	70	0.3	0.03	2.7	2.55	<0.1	0.09
1097805	Soil	12.9	26.4	0.46	125.9	0.008	3	1.68	0.002	0.08	0.1	3.7	0.16	0.03	50	0.3	0.05	4.7	0.81	<0.1	0.04
1097806	Soil	13.3	22.6	1.37	163.4	0.006	4	1.60	0.005	0.07	<0.1	4.2	0.05	0.03	54	0.3	0.05	4.2	0.77	<0.1	0.08
1097807	Soil	17.9	25.4	1.22	164.4	0.007	5	2.11	0.004	0.05	<0.1	3.9	0.16	0.05	244	0.4	0.05	5.2	0.89	<0.1	0.08



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 4 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1097773	Soil	0.13	6.8	0.6	<0.05	1.3	6.37	12.6	0.02	<1	0.5	14.7	<10	<2
1097774	Soil	0.16	8.0	2.2	<0.05	1.1	6.21	9.6	0.02	<1	0.6	9.7	<10	<2
1097775	Soil	0.15	6.8	3.9	<0.05	1.0	5.53	8.8	<0.02	<1	0.6	8.6	<10	<2
1097776	Soil	0.10	6.8	0.8	<0.05	1.5	6.54	13.3	0.03	<1	0.6	14.3	<10	<2
1097777	Soil	0.16	8.2	2.3	<0.05	1.6	12.45	20.1	0.04	<1	0.9	22.1	<10	<2
1097778	Soil	0.23	6.3	1.8	<0.05	0.9	8.46	17.5	0.02	<1	0.6	14.0	<10	<2
1097779	Soil	0.16	6.8	1.6	<0.05	1.6	13.23	22.6	0.03	<1	0.8	21.1	<10	<2
1097780	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1097781	Soil	0.20	8.4	1.4	<0.05	1.2	6.42	12.4	<0.02	<1	0.7	11.1	<10	<2
1097782	Soil	0.11	6.0	2.0	<0.05	1.6	9.69	14.4	<0.02	<1	0.7	16.8	<10	<2
1097783	Soil	0.30	8.4	2.7	<0.05	1.6	11.84	24.4	0.04	<1	1.0	18.1	<10	<2
1097784	Soil	0.18	6.7	1.0	<0.05	1.0	7.09	15.0	<0.02	<1	0.7	11.5	<10	<2
1097785	Soil	0.16	9.3	1.4	<0.05	2.0	7.75	15.3	0.02	<1	0.7	16.9	<10	<2
1097786	Soil	0.28	9.0	1.5	<0.05	2.1	12.10	22.9	0.04	<1	1.2	17.6	<10	<2
1097787	Soil	0.27	10.4	4.5	<0.05	1.4	9.46	19.4	0.04	<1	1.2	22.8	<10	<2
1096944	Soil	<0.02	0.6	1.5	<0.05	0.3	5.06	4.4	<0.02	<1	0.3	1.8	<10	<2
1096945	Soil	0.19	4.0	1.9	<0.05	1.2	11.90	16.8	<0.02	<1	0.4	5.7	<10	<2
1096946	Soil	0.13	4.3	2.1	<0.05	0.9	11.84	15.9	<0.02	<1	0.5	4.8	<10	<2
1096947	Soil	0.12	4.6	2.3	<0.05	1.3	16.38	24.3	<0.02	<1	0.7	4.7	<10	<2
1096948	Soil	0.36	10.1	1.0	<0.05	3.1	13.09	29.6	0.03	<1	1.1	14.6	<10	<2
1096949	Soil	0.19	7.3	1.2	<0.05	3.8	16.22	24.0	0.04	<1	1.3	5.2	<10	<2
1096950	Soil	0.37	13.3	0.6	<0.05	1.7	6.15	35.5	0.05	<1	1.6	16.3	<10	<2
1097426	Soil	0.12	5.8	1.4	<0.05	1.6	9.25	9.2	0.04	1	0.8	8.3	<10	<2
1097428	Soil	0.12	11.1	1.4	<0.05	1.2	21.22	20.1	0.04	<1	1.5	38.8	<10	<2
1097430	Soil	0.06	6.0	1.8	<0.05	1.6	12.51	9.8	0.03	<1	0.9	23.8	<10	<2
1097431	Soil	0.08	8.9	1.3	<0.05	2.4	20.94	14.5	0.04	<1	1.3	57.9	<10	<2
1097432	Soil	0.16	7.7	3.8	<0.05	2.3	36.50	39.0	0.04	<1	1.5	32.4	<10	<2
1097805	Soil	0.66	9.6	0.8	<0.05	1.6	8.72	27.6	0.03	<1	1.1	14.4	<10	<2
1097806	Soil	0.56	9.2	1.5	<0.05	2.7	12.18	29.1	0.03	<1	1.2	13.8	<10	<2
1097807	Soil	0.51	7.3	0.7	<0.05	2.5	16.33	37.4	0.04	1	1.3	15.7	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1097808	Soil	0.70	8.99	32.65	60.6	59	8.4	5.1	4169	3.85	11.0	1.0	0.4	0.4	33.6	0.35	1.22	0.11	14	10.12	0.133
1097809	Soil	0.54	19.16	57.63	185.9	364	16.5	7.0	2231	5.08	38.5	2.0	4.7	1.1	34.0	0.67	3.74	0.15	12	10.29	0.216
1097810	Soil	0.69	16.04	42.94	184.8	76	23.1	11.6	6364	12.20	36.2	0.8	0.2	4.5	19.3	0.96	1.28	0.28	40	2.42	0.086
1097811	Soil	0.72	14.30	35.14	126.7	120	21.0	9.5	5726	9.14	21.5	1.3	0.5	3.4	15.1	0.55	1.35	0.24	38	4.04	0.085
1097812	Soil	0.76	14.69	34.87	105.2	89	19.9	10.0	4093	6.33	19.7	1.1	0.6	3.5	15.2	0.45	1.26	0.26	31	3.00	0.075
1097813	Soil	1.26	19.89	44.91	249.7	176	26.2	9.0	1606	4.41	54.0	2.0	7.0	2.8	26.3	0.41	4.97	0.29	24	6.16	0.088
1097814	Soil	0.64	22.20	34.04	99.8	120	27.8	13.1	610	3.86	15.3	1.0	0.5	5.3	27.2	0.08	0.79	0.33	25	0.45	0.021
1097815	Soil	0.69	19.66	29.57	109.7	136	23.6	12.8	1359	4.14	10.9	0.8	0.7	3.9	19.3	0.29	0.60	0.30	28	0.60	0.036
1097816	Soil	0.59	11.40	30.55	94.1	51	18.0	9.1	928	3.77	13.5	1.0	0.2	3.1	27.8	0.24	0.74	0.28	34	0.68	0.029
1097817	Soil	0.58	17.00	41.97	119.2	86	21.2	11.1	4440	7.94	34.1	0.8	1.9	3.2	27.0	0.38	1.62	0.29	30	1.88	0.072
1097818	Soil	0.77	25.02	27.80	70.7	89	24.6	12.6	1441	3.63	9.3	0.7	<0.2	3.4	45.3	0.35	0.53	0.29	32	0.66	0.030
1097819	Soil	0.49	27.49	30.69	76.1	50	27.4	14.4	1345	4.61	13.7	0.8	0.6	4.4	8.4	0.09	0.60	0.32	22	0.21	0.021
1097820	Soil	0.55	19.33	40.43	89.3	52	24.3	10.9	1044	4.07	19.8	0.8	1.0	3.9	22.2	0.14	1.04	0.32	21	0.63	0.025
1097821	Soil	0.47	33.03	28.95	79.1	110	30.9	14.6	736	3.80	11.9	0.6	1.4	4.1	28.6	0.06	0.43	0.33	19	1.07	0.026
1097822	Soil	0.47	30.80	25.95	74.9	30	28.6	15.7	584	3.80	10.6	0.6	0.6	4.3	12.2	0.06	0.33	0.33	22	0.17	0.017
1097823	Soil	0.39	29.20	38.32	78.4	100	29.4	14.4	731	3.51	14.3	0.5	4.6	3.6	32.0	0.11	1.04	0.32	16	1.36	0.032
1096783	Soil	0.56	10.54	25.03	35.6	226	11.4	7.0	1546	2.66	12.1	0.6	5.3	1.0	45.5	0.16	1.12	0.13	20	11.31	0.075
1096784	Soil	0.17	1.57	5.53	3.9	41	1.2	1.4	892	0.85	8.0	0.8	0.3	0.1	77.9	0.09	0.44	<0.02	<2	18.63	0.076
1096785	Soil	0.65	16.18	26.26	50.2	244	17.6	9.0	1943	3.57	22.7	1.4	6.2	1.1	34.3	0.25	2.15	0.17	18	10.43	0.171
1096786	Soil	0.82	15.67	28.19	68.7	197	19.8	8.7	3252	5.68	25.9	1.4	7.1	1.4	24.8	0.29	2.09	0.20	32	7.26	0.127
1096787	Soil	0.72	16.31	31.10	90.8	158	21.5	8.4	3650	7.03	39.8	1.5	5.1	1.9	10.8	0.24	1.92	0.22	22	1.37	0.117
1096788	Soil	0.54	13.52	43.85	212.7	128	20.0	7.5	2206	5.07	34.6	0.9	2.5	1.8	23.3	0.37	1.87	0.23	24	4.43	0.120
1096789	Soil	0.51	16.16	23.84	63.7	117	20.9	9.9	645	3.65	6.4	1.5	0.3	2.2	56.6	0.14	0.27	0.29	21	1.02	0.064
1096790	Soil	0.63	23.82	32.93	85.2	73	27.7	11.5	415	3.64	8.4	1.0	<0.2	4.3	43.1	0.07	0.35	0.37	18	0.70	0.042
1096791	Soil	0.62	17.21	32.83	74.0	134	25.9	11.4	621	3.65	11.4	0.8	0.8	3.9	48.4	0.17	0.55	0.32	25	1.35	0.034
1096792	Soil	0.58	20.84	23.66	63.1	55	24.6	11.4	423	3.13	8.0	0.8	1.1	3.0	45.4	0.19	0.39	0.28	20	0.63	0.049
1096793	Soil	0.64	22.53	27.03	69.6	49	23.3	12.0	352	3.67	8.6	0.4	<0.2	2.7	20.9	0.10	0.36	0.30	20	0.21	0.028
1096794	Soil	0.52	28.84	45.15	61.4	176	23.6	10.2	350	3.17	10.1	2.6	2.2	1.9	78.4	0.08	0.38	0.37	15	0.89	0.060
1096795	Soil	0.52	21.14	19.54	49.0	170	19.8	10.3	461	2.56	7.2	1.2	1.9	1.1	149.8	0.13	0.31	0.23	13	2.61	0.060
1097501	Soil	0.71	11.83	23.74	59.1	45	19.1	9.9	1111	3.51	10.7	0.9	1.0	4.1	8.8	0.14	0.71	0.28	37	0.32	0.024



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 22, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097808	Soil	7.5	11.8	4.59	162.1	0.005	7	0.95	0.010	0.05	<0.1	1.0	0.11	0.03	44	0.4	<0.02	2.1	0.47	<0.1	0.03
1097809	Soil	6.9	12.0	4.55	71.4	0.004	8	0.71	0.008	0.07	<0.1	1.7	0.20	0.02	687	0.5	0.08	1.7	0.41	<0.1	0.03
1097810	Soil	23.6	27.6	1.16	239.6	0.007	9	2.19	0.005	0.13	<0.1	4.9	0.16	0.03	56	0.3	0.09	5.6	0.74	<0.1	0.11
1097811	Soil	22.8	26.6	2.24	202.1	0.005	7	2.13	0.005	0.07	<0.1	4.0	0.14	0.04	75	0.6	0.04	5.3	0.81	<0.1	0.08
1097812	Soil	17.8	22.2	1.73	170.1	0.004	6	1.66	0.004	0.08	<0.1	4.4	0.13	0.03	58	0.3	0.05	4.0	0.75	<0.1	0.10
1097813	Soil	10.3	26.4	2.88	121.2	0.003	6	1.07	0.006	0.08	<0.1	3.4	0.20	<0.02	293	0.6	0.09	2.7	0.58	<0.1	0.06
1097814	Soil	15.3	21.4	0.35	89.9	0.003	4	1.38	0.002	0.10	<0.1	5.7	0.14	<0.02	135	0.3	0.03	3.6	1.07	<0.1	0.05
1097815	Soil	9.2	22.5	0.39	123.8	0.003	4	1.45	0.003	0.10	<0.1	4.0	0.13	<0.02	176	0.3	0.03	4.0	0.92	<0.1	0.07
1097816	Soil	9.6	21.8	0.29	220.1	0.004	3	1.57	0.002	0.07	<0.1	3.5	0.13	<0.02	37	0.2	0.03	4.4	0.92	<0.1	0.04
1097817	Soil	15.4	22.6	0.99	221.1	0.004	6	1.83	0.004	0.12	<0.1	3.9	0.19	0.03	90	0.3	0.04	4.7	0.71	<0.1	0.08
1097818	Soil	8.7	22.4	0.27	265.0	0.007	4	1.48	0.004	0.10	<0.1	3.0	0.13	<0.02	42	0.2	0.05	4.6	1.35	<0.1	0.03
1097819	Soil	10.0	21.9	0.36	69.4	0.001	3	1.64	0.001	0.15	<0.1	5.4	0.12	<0.02	113	0.2	0.05	4.0	0.80	<0.1	0.06
1097820	Soil	9.4	16.1	0.33	180.8	0.001	4	1.29	0.002	0.10	<0.1	4.2	0.13	<0.02	208	0.3	0.02	3.3	0.82	<0.1	0.06
1097821	Soil	6.7	21.2	0.80	106.5	0.001	5	1.45	0.003	0.14	<0.1	4.9	0.10	<0.02	89	0.3	0.04	3.9	1.07	<0.1	0.06
1097822	Soil	6.4	22.5	0.52	65.7	0.001	3	1.70	<0.001	0.11	<0.1	5.4	0.10	<0.02	58	0.2	0.05	4.6	1.15	<0.1	0.05
1097823	Soil	7.6	17.4	0.74	95.1	0.001	4	1.22	0.003	0.14	<0.1	4.9	0.11	0.03	156	0.2	0.03	3.2	0.74	<0.1	0.07
1096783	Soil	9.0	14.0	5.63	62.5	0.004	3	0.92	0.010	0.03	<0.1	2.3	0.07	<0.02	242	0.4	<0.02	2.1	0.38	<0.1	0.04
1096784	Soil	1.6	2.2	9.16	35.3	0.001	3	0.09	0.009	0.01	<0.1	0.3	0.03	<0.02	25	0.5	<0.02	0.3	0.07	<0.1	<0.02
1096785	Soil	10.0	13.7	4.75	79.1	0.005	4	0.87	0.008	0.06	<0.1	2.0	0.12	0.02	231	0.4	0.03	2.0	0.39	<0.1	0.03
1096786	Soil	14.9	22.1	3.61	132.1	0.011	4	1.40	0.007	0.06	0.1	2.5	0.14	0.03	185	0.6	0.05	3.3	0.59	<0.1	0.04
1096787	Soil	12.0	19.2	0.66	108.3	0.004	4	1.15	0.003	0.07	<0.1	2.6	0.13	0.07	194	0.6	0.03	2.8	0.45	<0.1	0.08
1096788	Soil	10.9	19.6	2.12	100.4	0.003	5	1.23	0.003	0.08	<0.1	2.8	0.12	0.06	135	0.5	0.06	2.9	0.58	<0.1	0.07
1096789	Soil	13.2	16.0	0.16	186.0	0.003	4	1.20	0.003	0.13	<0.1	3.6	0.10	0.05	44	0.3	0.03	3.0	1.11	<0.1	0.03
1096790	Soil	15.6	15.8	0.22	96.9	0.001	3	1.07	0.003	0.09	<0.1	5.5	0.13	0.03	47	0.3	0.03	2.5	0.81	<0.1	0.04
1096791	Soil	16.0	16.9	0.44	131.2	0.003	3	1.03	0.003	0.11	<0.1	4.8	0.11	0.02	174	0.3	<0.02	3.0	0.76	<0.1	0.04
1096792	Soil	5.9	18.8	0.31	107.7	0.003	4	1.14	0.003	0.09	<0.1	3.7	0.10	0.03	68	0.3	0.04	3.4	1.28	<0.1	0.04
1096793	Soil	4.3	14.8	0.19	77.6	0.002	2	1.01	0.002	0.10	<0.1	2.5	0.10	<0.02	26	0.2	0.03	3.0	0.87	<0.1	0.03
1096794	Soil	5.9	18.1	0.22	201.3	<0.001	2	1.15	0.005	0.08	<0.1	3.2	0.11	0.05	128	0.2	0.03	2.7	1.40	<0.1	0.06
1096795	Soil	5.2	14.2	0.24	94.6	0.001	4	0.79	0.004	0.05	<0.1	2.3	0.06	0.10	90	0.4	0.05	2.0	0.81	<0.1	0.03
1097501	Soil	11.1	22.9	0.38	104.0	0.004	2	1.43	0.003	0.06	0.1	3.6	0.11	<0.02	51	0.1	0.05	3.9	0.67	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 5 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1097808	Soil			0.18	5.2	3.6	<0.05	0.7	8.09	15.4	<0.02	<1	1.0	5.2	<10	<2
1097809	Soil			0.13	5.2	1.0	<0.05	1.0	12.11	15.3	<0.02	<1	0.4	5.0	<10	<2
1097810	Soil			0.54	11.5	2.3	<0.05	3.5	19.35	44.8	0.05	<1	1.0	17.8	<10	<2
1097811	Soil			0.39	9.3	0.9	<0.05	2.3	18.59	44.0	0.04	<1	1.0	15.8	<10	<2
1097812	Soil			0.38	10.2	1.7	<0.05	2.7	18.83	35.9	0.03	<1	0.9	16.0	<10	<2
1097813	Soil			0.27	10.3	3.0	<0.05	1.9	13.59	23.7	0.03	<1	0.6	9.3	<10	<2
1097814	Soil			0.25	9.2	1.2	<0.05	1.8	16.80	29.9	0.03	<1	1.1	22.7	<10	<2
1097815	Soil			0.33	10.3	1.2	<0.05	1.8	8.01	26.2	0.04	<1	1.1	22.0	<10	<2
1097816	Soil			0.43	8.9	0.9	<0.05	1.3	5.74	24.5	0.03	<1	1.1	16.4	<10	<2
1097817	Soil			0.38	9.2	2.7	<0.05	2.3	12.17	30.0	0.03	<1	0.9	17.0	<10	<2
1097818	Soil			0.65	12.4	1.4	<0.05	2.0	4.69	25.5	0.04	<1	1.0	21.3	<10	<2
1097819	Soil			0.12	11.7	1.7	<0.05	2.2	14.36	26.4	0.04	<1	1.4	30.1	<10	<2
1097820	Soil			0.15	7.5	0.6	<0.05	2.0	10.23	24.3	0.04	<1	1.4	12.4	<10	<2
1097821	Soil			0.12	8.4	1.0	<0.05	2.5	11.29	16.1	0.04	<1	1.1	36.3	<10	<2
1097822	Soil			0.13	9.2	0.7	<0.05	2.0	9.00	18.2	0.04	<1	1.2	41.5	<10	<2
1097823	Soil			0.13	7.8	0.7	<0.05	2.6	10.77	18.6	0.04	<1	1.0	24.0	<10	<2
1096783	Soil			0.16	3.9	1.5	<0.05	1.1	8.46	17.1	0.02	<1	0.6	7.0	<10	<2
1096784	Soil			0.02	0.7	2.2	<0.05	0.8	4.40	3.5	<0.02	<1	0.3	1.2	<10	<2
1096785	Soil			0.19	4.2	0.9	<0.05	1.0	10.81	18.6	<0.02	<1	0.5	7.3	<10	<2
1096786	Soil			0.30	6.1	2.4	<0.05	1.0	15.12	27.1	<0.02	<1	0.6	9.2	<10	<2
1096787	Soil			0.20	5.1	0.5	<0.05	2.1	16.45	23.9	0.03	<1	0.8	9.0	<10	<2
1096788	Soil			0.22	6.4	1.2	<0.05	2.2	12.17	22.4	0.03	<1	0.9	8.6	<10	<2
1096789	Soil			0.33	11.5	0.6	<0.05	1.1	11.74	37.3	0.03	<1	1.0	11.3	<10	<2
1096790	Soil			0.21	7.0	1.3	<0.05	1.5	16.59	41.1	0.04	<1	1.2	16.6	<10	<2
1096791	Soil			0.31	7.6	0.6	<0.05	1.4	12.36	32.6	0.03	<1	1.0	10.8	<10	<2
1096792	Soil			0.35	8.8	1.6	<0.05	1.5	6.53	17.9	0.03	<1	0.9	22.9	<10	<2
1096793	Soil			0.16	12.9	0.6	<0.05	1.0	2.94	10.6	0.04	<1	0.7	22.9	<10	<2
1096794	Soil			0.20	6.5	3.0	<0.05	2.0	11.17	14.8	0.05	<1	1.1	29.7	<10	<2
1096795	Soil			0.19	4.3	0.5	<0.05	1.2	10.72	16.3	0.03	<1	0.7	20.1	<10	<2
1097501	Soil			0.39	6.5	0.8	<0.05	1.9	8.22	25.9	0.03	<1	0.8	14.0	<10	<2



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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1097502	Soil	0.68	12.59	19.75	53.7	120	17.4	8.6	2007	4.11	9.6	0.7	0.7	1.7	22.1	0.22	0.50	0.21	24	3.47	0.073
1097503	Soil	0.47	20.03	24.31	73.2	42	20.2	10.5	454	3.33	10.3	0.4	0.4	2.4	15.2	0.12	0.44	0.29	20	0.23	0.026
1097504	Soil	0.40	25.69	27.30	76.0	113	26.3	12.2	398	3.61	8.3	0.9	0.8	4.4	25.1	0.05	0.31	0.31	17	0.34	0.023
1097505	Soil	0.56	18.98	39.45	58.4	186	22.6	9.3	1394	4.30	17.2	0.9	2.4	2.9	48.0	0.07	1.11	0.25	15	5.76	0.086
1097506	Soil	0.54	20.69	24.90	69.7	50	20.5	10.7	517	3.35	8.9	0.4	<0.2	2.1	13.8	0.06	0.36	0.30	18	0.17	0.033
1097507	Soil	0.41	24.30	16.93	54.5	138	25.8	8.6	284	2.05	6.5	1.4	0.9	0.6	175.3	0.09	0.34	0.20	8	2.71	0.056
1097508	Soil	0.43	20.17	14.91	36.6	37	17.5	13.5	279	2.89	15.0	0.3	<0.2	1.3	3.4	0.04	0.49	0.41	15	0.12	0.018
1097509	Soil	0.49	17.80	32.65	50.5	122	19.1	11.7	1616	4.55	19.6	0.9	1.4	3.5	6.0	0.06	1.18	0.28	22	0.18	0.051
1097510	Soil	0.68	13.13	21.73	43.8	121	17.5	8.0	957	2.92	12.1	0.6	1.7	1.9	27.4	0.11	0.60	0.22	18	5.07	0.071
1097511	Soil	0.63	12.19	22.14	73.1	35	18.3	9.1	654	4.07	13.3	0.7	0.3	3.9	6.0	0.08	0.61	0.29	33	0.11	0.030
1097512	Soil	0.59	16.75	33.25	76.3	94	20.6	9.1	1318	4.48	16.7	1.2	0.8	3.1	10.2	0.22	0.90	0.33	29	0.80	0.047
1097513	Soil	0.40	16.15	26.31	60.5	153	18.7	9.6	987	2.98	13.6	0.9	2.0	2.0	38.3	0.18	0.55	0.22	12	5.28	0.074
1097514	Soil	0.52	19.29	36.85	86.6	86	23.9	10.3	724	3.79	12.3	1.0	1.0	3.2	40.2	0.23	0.55	0.33	17	0.84	0.049
1097515	Soil	0.43	20.12	24.38	80.2	119	20.9	8.0	447	2.87	11.0	0.8	1.3	1.8	47.5	0.19	0.55	0.25	15	2.25	0.059
1097516	Soil	0.58	14.42	53.35	338.7	244	16.4	9.9	4615	5.50	28.8	0.6	1.2	1.5	19.5	1.54	3.69	0.18	17	7.08	0.123
1097517	Soil	0.67	13.31	28.18	66.4	122	16.0	8.6	3520	4.14	12.2	0.8	0.6	1.6	13.3	0.29	0.84	0.21	23	3.53	0.085
1097518	Soil	0.75	15.42	31.81	60.9	81	19.7	14.0	3054	5.31	17.7	0.7	1.2	2.6	14.0	0.22	1.17	0.30	29	2.05	0.087
1097519	Soil	0.71	11.76	28.51	94.1	87	16.7	9.8	3003	4.42	14.5	0.8	0.6	1.5	20.4	0.45	0.95	0.22	31	3.67	0.107
1097520	Soil	0.60	18.18	13.12	35.2	33	15.8	11.6	285	2.93	15.8	0.2	0.3	1.0	3.8	0.06	0.47	0.38	20	0.05	0.021
1097521	Soil	0.72	12.57	16.43	48.1	15	14.7	6.8	168	2.68	12.2	0.4	<0.2	2.4	4.7	0.07	0.67	0.25	27	0.05	0.016
1097522	Soil	0.57	14.83	18.01	47.0	36	16.2	9.2	514	2.97	13.0	0.5	0.8	2.6	7.8	0.06	0.68	0.29	25	0.18	0.024
1097523	Soil	0.58	15.64	21.68	55.7	94	20.2	8.7	529	3.75	16.1	0.7	1.1	3.3	9.2	0.05	0.68	0.29	24	0.41	0.039
1097524	Soil	0.66	17.27	29.09	70.7	108	22.0	10.0	1320	4.07	22.3	0.9	2.7	3.3	14.9	0.10	0.99	0.29	23	1.28	0.044
1097525	Soil	0.67	19.04	30.76	66.7	85	24.0	11.7	963	3.79	25.1	0.7	2.5	3.7	12.1	0.12	0.95	0.34	25	0.80	0.038
1097526	Soil	0.76	16.22	21.98	76.7	76	19.8	9.9	1752	4.32	19.0	0.7	1.5	2.7	16.9	0.22	0.66	0.28	28	0.75	0.045
1097527	Soil	0.58	16.88	21.43	64.0	30	18.1	10.1	510	3.63	15.6	0.5	0.2	2.5	11.6	0.16	0.49	0.30	25	0.26	0.028
1097528	Soil	0.53	15.33	25.75	73.2	82	18.9	9.1	1224	3.84	13.7	0.7	0.5	3.1	23.5	0.20	0.56	0.27	27	1.06	0.035
1097529	Soil	0.42	18.04	24.74	66.1	108	17.8	8.6	706	2.80	14.0	0.8	1.6	1.8	57.6	0.14	0.56	0.22	11	6.63	0.081
1097530	Soil	0.42	16.47	25.81	79.3	69	17.9	7.3	556	3.13	9.5	0.8	0.5	2.1	48.5	0.29	0.44	0.25	17	1.96	0.056
1097531	Soil	0.47	15.48	26.66	70.4	97	18.9	8.9	883	3.65	12.9	0.9	1.0	3.0	23.0	0.19	0.62	0.26	19	2.11	0.053



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Report Date: September 22, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097502	Soil	11.0	17.5	1.82	89.8	0.003	2	1.15	0.004	0.05	<0.1	2.5	0.08	0.04	57	0.3	0.02	2.4	0.52	<0.1	0.06
1097503	Soil	3.3	17.1	0.25	73.6	<0.001	1	1.20	0.001	0.08	<0.1	2.1	0.10	<0.02	64	0.1	0.04	3.0	0.51	<0.1	0.03
1097504	Soil	6.8	19.2	0.27	85.5	<0.001	1	1.31	0.001	0.08	<0.1	4.3	0.08	<0.02	74	0.1	0.04	3.1	0.58	<0.1	0.08
1097505	Soil	11.4	14.4	2.57	60.9	0.001	3	0.84	0.004	0.07	<0.1	4.2	0.09	0.02	209	0.3	0.03	1.7	0.64	<0.1	0.08
1097506	Soil	2.5	16.4	0.28	62.2	0.002	2	1.04	0.002	0.09	<0.1	2.0	0.06	<0.02	33	0.1	0.05	2.8	0.68	<0.1	0.02
1097507	Soil	2.9	10.1	0.18	174.3	0.001	4	0.64	0.006	0.05	<0.1	1.4	0.09	0.10	117	0.4	0.02	1.5	1.17	<0.1	0.04
1097508	Soil	2.9	6.3	0.09	33.3	0.001	<1	0.39	0.001	0.09	<0.1	2.2	0.04	<0.02	22	<0.1	0.08	1.5	0.51	<0.1	<0.02
1097509	Soil	11.0	16.5	0.18	96.6	0.001	1	1.20	<0.001	0.07	<0.1	4.5	0.10	0.02	149	0.1	0.06	2.2	0.83	<0.1	0.07
1097510	Soil	6.2	16.1	2.64	83.1	0.003	1	0.87	0.005	0.05	<0.1	2.5	0.07	<0.02	71	0.2	0.02	2.1	0.69	<0.1	0.04
1097511	Soil	7.5	22.9	0.25	89.8	0.002	1	1.79	<0.001	0.06	<0.1	2.8	0.11	<0.02	36	<0.1	0.03	3.8	0.97	<0.1	0.05
1097512	Soil	10.2	21.0	0.47	131.2	0.002	1	1.46	0.001	0.06	<0.1	3.6	0.12	0.02	107	0.3	0.06	3.6	0.60	<0.1	0.09
1097513	Soil	8.0	12.2	2.48	63.6	0.002	3	0.74	0.005	0.05	<0.1	2.7	0.08	0.02	126	0.2	0.02	1.5	0.48	<0.1	0.06
1097514	Soil	11.0	15.1	0.23	95.0	0.001	2	0.96	0.002	0.08	<0.1	3.7	0.10	0.04	94	0.2	0.06	2.1	0.46	<0.1	0.08
1097515	Soil	6.7	13.5	0.88	69.2	0.002	2	0.80	0.005	0.06	<0.1	2.7	0.07	0.05	172	0.2	0.03	2.1	0.49	<0.1	0.07
1097516	Soil	11.0	12.8	3.22	138.4	0.002	3	0.79	0.006	0.04	<0.1	2.0	0.13	0.05	710	0.4	0.03	1.8	0.25	<0.1	0.07
1097517	Soil	8.7	18.1	1.96	103.1	0.003	2	1.34	0.004	0.04	<0.1	2.4	0.12	0.05	102	0.3	0.04	3.1	0.60	<0.1	0.08
1097518	Soil	18.3	20.3	1.16	202.6	0.003	2	1.29	0.003	0.08	0.2	4.6	0.13	0.05	123	0.3	0.05	3.2	0.54	<0.1	0.08
1097519	Soil	13.4	21.0	1.80	157.7	0.005	3	1.40	0.005	0.06	<0.1	2.4	0.11	0.06	109	0.3	0.04	3.4	0.63	<0.1	0.07
1097520	Soil	3.7	8.0	0.05	55.8	0.002	<1	0.35	0.001	0.09	<0.1	1.8	0.04	<0.02	25	0.1	0.06	1.9	0.53	<0.1	<0.02
1097521	Soil	6.7	14.9	0.20	32.3	0.003	<1	0.92	0.001	0.06	<0.1	1.5	0.06	<0.02	20	0.2	0.04	3.1	0.63	<0.1	<0.02
1097522	Soil	6.1	16.8	0.21	67.4	0.004	<1	0.87	0.002	0.10	<0.1	2.1	0.06	<0.02	33	0.1	0.05	2.9	0.90	<0.1	<0.02
1097523	Soil	7.5	19.1	0.35	89.1	0.002	1	1.20	0.002	0.06	<0.1	3.9	0.10	<0.02	71	0.1	0.05	2.6	1.17	<0.1	0.05
1097524	Soil	10.1	18.5	0.69	104.5	0.002	1	1.13	0.002	0.07	<0.1	3.3	0.10	0.02	98	0.2	0.04	2.6	0.93	<0.1	0.07
1097525	Soil	7.0	19.8	0.55	84.8	0.004	1	1.13	0.003	0.09	<0.1	3.5	0.11	<0.02	110	0.2	0.05	2.9	1.09	<0.1	0.05
1097526	Soil	7.5	21.4	0.39	225.0	0.005	2	1.17	0.003	0.08	<0.1	3.0	0.10	0.03	47	0.2	0.04	3.4	1.17	<0.1	0.04
1097527	Soil	5.7	16.6	0.22	68.9	0.002	<1	1.17	0.002	0.09	<0.1	2.5	0.08	<0.02	28	0.1	0.03	3.4	0.58	<0.1	0.03
1097528	Soil	9.7	19.6	0.57	92.1	0.002	1	1.36	0.003	0.06	<0.1	3.5	0.10	0.02	76	0.2	0.05	3.5	0.47	<0.1	0.07
1097529	Soil	6.7	10.2	2.89	48.8	0.002	3	0.54	0.007	0.06	<0.1	2.7	0.08	0.02	127	0.3	0.04	1.3	0.72	<0.1	0.06
1097530	Soil	11.0	13.2	0.64	80.9	0.001	2	0.95	0.006	0.05	<0.1	3.0	0.09	0.05	93	0.3	<0.02	2.3	0.42	<0.1	0.06
1097531	Soil	9.7	15.0	1.08	90.7	0.002	1	0.97	0.003	0.06	<0.1	3.2	0.08	0.03	106	0.1	0.05	2.3	0.54	<0.1	0.05



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 6 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1097502	Soil	0.27	5.7	0.4	<0.05	1.4	9.65	22.3	0.03	<1	0.8	10.0	<10	<2
1097503	Soil	0.13	6.5	0.4	<0.05	1.5	2.79	11.2	0.02	<1	0.7	21.1	<10	<2
1097504	Soil	0.11	4.9	1.0	<0.05	2.6	10.34	20.9	0.03	<1	1.3	26.6	<10	<2
1097505	Soil	0.13	4.8	0.5	<0.05	3.2	16.57	22.9	0.03	<1	0.9	12.1	<10	<2
1097506	Soil	0.16	8.5	0.5	<0.05	1.1	2.07	8.6	0.03	<1	0.9	24.0	<10	<2
1097507	Soil	0.15	5.0	0.7	<0.05	1.3	6.59	8.5	<0.02	<1	0.7	14.3	<10	<2
1097508	Soil	0.12	5.5	0.4	<0.05	0.5	1.78	6.4	<0.02	<1	0.4	1.2	<10	<2
1097509	Soil	0.18	5.4	0.5	<0.05	1.9	13.62	24.5	0.02	<1	1.3	5.4	<10	<2
1097510	Soil	0.24	5.7	1.7	<0.05	1.6	7.17	13.4	0.03	<1	0.7	10.3	<10	<2
1097511	Soil	0.46	8.6	0.7	<0.05	1.7	4.59	20.5	0.03	<1	1.0	19.1	<10	<2
1097512	Soil	0.30	6.6	0.7	<0.05	2.8	9.33	18.8	0.03	<1	1.0	14.7	<10	<2
1097513	Soil	0.13	4.5	0.8	<0.05	1.5	10.45	19.6	<0.02	<1	0.7	11.5	<10	<2
1097514	Soil	0.24	5.3	0.5	<0.05	2.1	11.38	25.0	0.03	<1	0.9	11.8	<10	<2
1097515	Soil	0.23	4.2	0.6	<0.05	2.1	9.55	13.8	0.02	<1	0.7	13.6	<10	<2
1097516	Soil	0.13	4.2	0.6	<0.05	2.4	12.27	24.8	0.02	<1	0.4	4.4	<10	<2
1097517	Soil	0.28	5.7	1.3	<0.05	2.4	9.00	20.2	0.02	<1	1.1	11.0	<10	<2
1097518	Soil	0.29	6.0	0.7	<0.05	2.4	17.95	35.6	0.04	<1	1.2	9.6	<10	<2
1097519	Soil	0.43	7.0	0.8	<0.05	2.0	10.76	29.7	0.03	<1	0.9	9.8	<10	<2
1097520	Soil	0.17	5.2	0.8	<0.05	<0.1	1.32	7.8	0.03	<1	0.5	1.0	<10	<2
1097521	Soil	0.31	7.2	0.8	<0.05	0.6	1.80	14.5	0.02	<1	0.6	15.2	<10	<2
1097522	Soil	0.38	7.3	0.6	<0.05	0.7	2.63	13.4	0.02	<1	0.5	10.1	<10	<2
1097523	Soil	0.33	7.0	0.6	<0.05	1.4	6.96	16.3	0.03	<1	1.0	14.4	<10	<2
1097524	Soil	0.32	6.4	0.6	<0.05	2.3	9.56	21.4	0.04	<1	1.1	13.7	<10	<2
1097525	Soil	0.36	7.7	0.9	<0.05	1.8	5.88	20.4	0.03	<1	0.9	15.0	<10	<2
1097526	Soil	0.55	7.9	0.6	<0.05	1.6	5.14	25.2	0.03	<1	0.9	16.8	<10	<2
1097527	Soil	0.25	7.9	0.7	<0.05	1.1	3.69	14.1	0.02	<1	0.8	14.8	<10	<2
1097528	Soil	0.30	6.0	0.6	<0.05	2.4	9.70	23.0	0.03	<1	1.0	12.3	<10	<2
1097529	Soil	0.13	3.8	1.3	<0.05	1.6	9.23	16.7	0.02	<1	0.7	12.0	<10	<2
1097530	Soil	0.31	4.4	0.5	<0.05	1.9	11.57	24.5	0.03	<1	0.7	11.5	<10	<2
1097531	Soil	0.26	6.2	0.6	<0.05	1.6	10.22	22.6	0.02	<1	0.8	13.0	<10	<2



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 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1097532	Soil			0.55	18.90	43.00	80.0	211	26.6	9.5	428	3.31	23.1	0.9	5.6	3.8	53.1	0.12	1.59	0.31	17	1.29	0.049
1097533	Soil			0.45	16.79	26.85	109.2	68	18.6	7.6	797	3.63	12.4	0.8	0.7	2.3	31.7	0.18	0.51	0.27	18	1.27	0.042
1097534	Soil			0.39	7.24	35.88	89.8	156	8.6	4.1	1939	2.36	10.7	0.8	0.6	0.4	27.1	0.30	1.11	0.07	8	10.02	0.095
1097535	Soil			1.00	14.61	35.97	95.0	83	19.5	9.5	1533	4.20	16.0	1.0	3.5	3.9	17.0	0.29	1.23	0.32	36	2.34	0.059
1097536	Soil			0.64	15.02	36.62	153.5	148	20.9	10.7	5881	8.87	35.7	1.2	3.3	2.1	23.7	0.77	2.44	0.26	32	4.73	0.141
1097537	Soil			0.72	13.29	40.64	278.3	120	19.4	10.0	5780	10.88	23.8	1.0	1.6	2.9	15.2	1.63	1.90	0.27	39	2.53	0.091
1097538	Soil			0.57	15.63	65.91	9790	398	13.9	6.1	1913	3.96	18.0	1.5	14.7	1.3	30.1	13.41	3.85	0.15	16	7.03	0.105
1097539	Soil			0.46	11.56	38.76	105.1	210	12.2	4.9	4997	8.79	34.1	1.7	24.4	1.2	23.9	0.32	2.70	0.13	16	6.89	0.083
1097540	Soil			0.68	15.46	22.47	91.8	75	22.5	10.3	688	3.63	10.5	1.0	0.8	3.6	9.0	0.13	0.73	0.28	27	0.25	0.023
1097541	Soil			0.70	17.44	31.57	319.3	208	19.5	8.0	1928	4.15	32.2	1.4	9.0	1.5	38.8	0.48	2.28	0.19	21	6.13	0.129
1097542	Soil			0.63	24.53	33.53	87.6	138	27.5	12.5	1654	5.88	24.3	1.2	2.5	6.9	17.6	0.11	0.91	0.40	26	1.00	0.033
1097543	Soil			0.68	13.21	31.42	91.0	51	19.9	9.3	700	3.50	14.4	0.6	0.9	3.3	10.5	0.12	0.86	0.25	26	0.13	0.023
1097544	Soil			0.56	14.12	30.31	67.9	91	20.1	9.1	3263	6.90	39.3	1.0	3.2	3.1	17.0	0.26	0.96	0.25	29	2.59	0.065
1097545	Soil			0.68	13.17	27.07	65.2	73	20.5	10.5	1229	3.91	12.8	0.6	0.8	3.7	23.2	0.12	0.64	0.27	28	1.00	0.032
1097546	Soil			0.23	10.45	20.93	19.1	132	9.5	4.7	2203	3.12	18.1	1.2	9.0	0.6	66.3	0.15	1.38	0.09	11	14.69	0.103
1097547	Soil			0.47	20.42	34.18	74.4	144	26.4	12.6	3931	7.49	25.6	0.9	5.1	4.3	22.9	0.23	1.33	0.31	36	1.41	0.060
1097548	Soil			0.56	28.02	35.05	83.2	95	28.8	13.5	913	4.07	14.5	1.0	1.2	4.5	42.9	0.17	0.58	0.33	23	1.76	0.036
1097549	Soil			0.68	20.37	25.54	77.0	82	24.8	11.8	1426	4.27	14.7	1.1	0.4	4.6	16.5	0.13	0.73	0.28	32	0.74	0.030
1097550	Soil			0.38	21.67	38.80	52.9	40	24.2	11.8	488	3.35	19.1	0.6	1.0	3.7	15.5	0.07	1.12	0.30	17	0.23	0.018
1096796	Soil			0.37	10.41	33.01	29.5	192	11.2	5.7	2528	2.28	31.2	1.2	2.6	0.7	68.2	0.10	3.03	0.09	14	14.40	0.111
1096797	Soil			0.56	11.63	93.95	2610	240	10.9	5.1	1780	2.75	25.4	1.0	14.0	1.0	80.1	6.46	2.95	0.10	14	13.52	0.097
1096798	Soil			0.60	15.58	46.08	43.4	227	20.4	9.7	2790	4.72	34.7	1.7	7.2	1.8	41.6	0.17	3.40	0.19	29	8.88	0.152
1096799	Soil			0.46	13.73	25.48	80.0	208	15.9	7.8	1242	2.98	11.7	0.7	1.4	2.0	45.7	0.26	0.81	0.17	19	6.88	0.061
1096800	Soil			0.29	6.70	11.68	16.7	145	7.9	3.2	943	1.76	6.2	0.6	0.2	1.2	56.7	0.06	0.31	0.08	10	14.93	0.046
1097801	Soil			0.57	13.82	27.78	67.8	47	17.5	8.7	1288	3.59	10.3	0.6	<0.2	3.5	20.6	0.29	0.63	0.24	31	0.89	0.027
1097802	Soil			0.78	17.98	27.28	82.7	40	25.0	12.3	774	4.14	17.7	1.0	0.9	4.3	26.0	0.20	0.75	0.31	36	0.44	0.035
1097803	Soil			0.42	18.71	32.18	86.0	87	22.1	9.5	700	3.52	10.8	1.0	1.8	2.9	44.0	0.22	0.50	0.28	19	1.62	0.045
1097804	Soil			0.36	14.49	27.64	85.2	64	17.4	8.6	522	3.26	11.0	0.8	0.4	2.8	31.0	0.15	0.48	0.26	22	1.21	0.032
1098508	Soil			0.27	10.11	41.84	61.9	111	10.2	5.8	1625	2.27	20.3	0.7	26.9	0.4	68.7	0.17	2.81	0.08	10	15.28	0.073
1098509	Soil			0.28	8.20	14.96	57.3	93	9.6	4.4	2848	2.83	15.3	0.6	0.9	0.2	37.5	0.74	0.74	0.08	18	10.92	0.129



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097532	Soil	16.1	14.0	0.22	95.4	0.001	1	0.78	0.003	0.07	<0.1	4.5	0.08	0.04	160	0.3	0.04	1.8	0.41	<0.1	0.08
1097533	Soil	7.3	14.4	0.47	115.6	0.001	1	0.95	0.003	0.06	<0.1	3.1	0.08	0.03	73	0.2	0.05	2.3	0.35	<0.1	0.05
1097534	Soil	3.3	7.7	4.81	60.0	0.003	2	0.44	0.005	0.02	<0.1	0.6	0.70	<0.02	119	0.3	<0.02	0.9	0.22	<0.1	0.03
1097535	Soil	13.0	24.2	1.50	118.0	0.005	2	1.59	0.007	0.07	<0.1	4.6	0.15	0.02	69	0.3	0.05	4.0	0.87	<0.1	0.09
1097536	Soil	17.8	20.4	2.97	175.3	0.004	4	1.65	0.009	0.04	<0.1	3.4	0.15	0.07	149	0.7	0.06	3.5	0.50	<0.1	0.10
1097537	Soil	19.4	23.9	1.46	187.0	0.004	3	1.84	0.007	0.04	<0.1	3.8	0.13	0.06	137	0.4	0.02	4.3	0.53	<0.1	0.10
1097538	Soil	7.0	11.4	4.59	56.6	0.004	3	0.80	0.008	0.05	0.1	2.1	0.19	0.05	12708	0.8	<0.02	2.8	0.48	<0.1	0.04
1097539	Soil	13.8	11.3	4.43	111.7	0.002	3	0.86	0.009	0.05	<0.1	1.9	0.14	0.04	417	0.6	0.02	1.8	0.48	<0.1	0.05
1097540	Soil	9.9	20.3	0.35	94.0	0.005	2	1.28	0.005	0.10	<0.1	3.7	0.11	<0.02	114	0.2	<0.02	3.4	0.97	<0.1	0.04
1097541	Soil	8.3	15.5	3.93	83.7	0.005	3	1.04	0.009	0.06	<0.1	2.3	0.10	0.04	421	0.4	0.04	2.1	0.55	<0.1	0.05
1097542	Soil	17.6	21.9	0.69	85.7	0.002	3	1.36	0.005	0.09	<0.1	7.6	0.15	<0.02	205	0.3	0.02	3.5	0.99	<0.1	0.09
1097543	Soil	6.5	20.4	0.24	94.7	0.002	2	1.26	0.002	0.10	<0.1	2.8	0.12	<0.02	131	0.2	0.04	3.5	0.93	<0.1	0.04
1097544	Soil	13.1	21.1	1.49	116.2	0.002	3	1.40	0.004	0.10	<0.1	4.3	0.18	0.05	194	0.2	0.03	3.7	0.94	<0.1	0.07
1097545	Soil	9.7	22.0	0.63	103.7	0.005	4	1.35	0.003	0.15	<0.1	3.5	0.13	<0.02	71	0.1	<0.02	3.7	1.10	<0.1	0.03
1097546	Soil	5.2	8.2	7.29	62.2	0.002	5	0.45	0.010	0.07	<0.1	1.5	0.12	<0.02	236	0.3	<0.02	1.2	0.61	<0.1	0.03
1097547	Soil	18.2	26.1	0.90	163.6	0.003	4	1.82	0.003	0.13	<0.1	5.7	0.16	0.03	110	0.3	0.04	4.7	0.94	<0.1	0.11
1097548	Soil	11.6	24.1	0.88	107.1	0.003	6	1.46	0.004	0.16	<0.1	6.0	0.16	0.03	153	0.1	0.04	3.9	1.59	<0.1	0.09
1097549	Soil	14.2	26.3	0.58	111.5	0.005	4	1.63	0.004	0.13	<0.1	5.4	0.14	<0.02	101	0.2	0.05	4.4	1.22	<0.1	0.06
1097550	Soil	5.3	18.3	0.30	79.2	0.002	4	1.21	0.002	0.14	<0.1	4.3	0.10	<0.02	57	0.1	0.03	3.3	1.90	<0.1	0.03
1096796	Soil	4.9	10.4	7.31	60.1	0.002	3	0.39	0.008	0.03	<0.1	1.7	0.09	<0.02	361	0.2	0.03	1.1	0.29	<0.1	0.02
1096797	Soil	4.7	11.7	7.17	54.4	0.005	4	0.57	0.009	0.04	<0.1	1.8	0.23	<0.02	12773	0.4	0.02	1.6	0.55	<0.1	0.03
1096798	Soil	9.2	20.1	4.58	95.7	0.003	4	1.06	0.006	0.08	<0.1	3.7	0.17	0.03	244	0.3	0.05	2.7	0.72	<0.1	0.08
1096799	Soil	8.1	15.0	3.74	72.0	0.003	4	0.98	0.007	0.09	<0.1	3.6	0.12	0.03	356	0.2	<0.02	2.3	0.78	<0.1	0.06
1096800	Soil	6.3	8.7	8.03	47.3	0.002	3	0.56	0.012	0.06	<0.1	2.3	0.06	<0.02	94	0.1	<0.02	1.2	0.64	<0.1	0.02
1097801	Soil	10.8	19.5	0.50	131.2	0.008	3	1.33	0.004	0.10	<0.1	3.2	0.16	<0.02	102	<0.1	0.03	3.9	1.34	<0.1	0.03
1097802	Soil	9.9	28.6	0.37	99.8	0.005	2	1.70	0.003	0.08	0.1	3.7	0.15	<0.02	71	0.1	0.06	4.7	1.62	<0.1	0.03
1097803	Soil	11.5	16.7	0.57	106.1	0.002	4	1.19	0.003	0.08	<0.1	4.2	0.13	0.04	163	0.1	0.03	3.0	0.85	<0.1	0.05
1097804	Soil	8.1	17.1	0.43	100.1	0.002	3	1.23	0.003	0.08	<0.1	3.3	0.12	0.02	74	0.1	0.03	3.3	0.97	<0.1	0.04
1098508	Soil	3.8	7.3	7.85	48.1	0.003	4	0.29	0.012	0.04	<0.1	1.2	0.28	<0.02	232	0.2	<0.02	0.7	0.34	<0.1	<0.02
1098509	Soil	7.5	10.9	5.75	97.7	0.005	3	0.72	0.010	0.03	<0.1	0.9	0.07	0.05	129	0.5	0.03	1.5	0.36	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 7 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1097532	Soil	0.27	3.6	0.5	<0.05	2.5	15.22	38.1	0.03	<1	0.9	7.3	<10	<2
1097533	Soil	0.22	5.7	0.6	<0.05	1.5	7.44	17.1	0.03	<1	0.9	12.9	<10	<2
1097534	Soil	0.07	2.5	0.4	<0.05	0.6	4.71	7.5	<0.02	<1	0.5	3.6	<10	<2
1097535	Soil	0.54	9.3	0.9	<0.05	2.7	13.47	25.9	0.07	<1	1.1	13.9	<10	<2
1097536	Soil	0.27	5.1	0.8	<0.05	2.9	17.91	32.6	0.03	<1	0.8	8.0	<10	<2
1097537	Soil	0.42	5.2	1.1	<0.05	2.8	18.99	38.1	0.04	<1	0.9	10.0	<10	<2
1097538	Soil	0.15	4.2	0.8	<0.05	1.2	8.70	14.2	0.02	<1	0.3	6.2	<10	<2
1097539	Soil	0.12	5.4	2.5	<0.05	1.4	16.99	27.2	<0.02	<1	0.4	5.7	<10	<2
1097540	Soil	0.31	11.7	0.7	<0.05	1.8	7.94	22.8	0.03	<1	0.9	17.9	<10	<2
1097541	Soil	0.19	4.9	1.1	<0.05	1.5	10.97	16.9	<0.02	1	0.5	9.0	<10	<2
1097542	Soil	0.14	7.7	0.6	<0.05	3.1	28.06	28.0	0.04	<1	1.2	19.0	<10	<2
1097543	Soil	0.26	13.4	1.2	<0.05	1.6	4.60	19.9	0.04	<1	0.9	17.6	<10	<2
1097544	Soil	0.26	12.2	1.4	<0.05	1.9	14.64	28.5	0.04	<1	0.9	14.6	<10	<2
1097545	Soil	0.41	15.9	1.0	<0.05	1.2	6.80	30.9	0.04	<1	1.1	19.5	<10	<2
1097546	Soil	0.07	5.5	3.5	<0.05	0.8	8.11	10.8	0.02	<1	0.4	5.4	<10	<2
1097547	Soil	0.26	11.2	0.7	<0.05	3.2	19.90	39.6	0.04	<1	1.1	20.8	<10	<2
1097548	Soil	0.24	15.1	3.8	<0.05	2.2	15.99	28.1	0.04	<1	1.2	26.5	<10	<2
1097549	Soil	0.36	11.4	0.9	<0.05	1.8	13.82	30.8	0.03	<1	1.1	23.3	<10	<2
1097550	Soil	0.14	12.0	1.7	<0.05	2.2	5.80	18.7	0.04	<1	1.1	20.9	<10	<2
1096796	Soil	0.04	3.7	0.5	<0.05	0.7	8.19	10.9	<0.02	<1	0.8	2.9	<10	<2
1096797	Soil	0.13	4.2	2.6	<0.05	0.8	6.80	10.7	0.02	<1	0.7	6.1	<10	<2
1096798	Soil	0.19	7.2	0.9	<0.05	2.2	13.71	19.6	0.03	<1	0.8	7.8	<10	<2
1096799	Soil	0.18	8.1	2.3	<0.05	1.7	13.41	17.0	0.02	<1	0.8	11.8	<10	<2
1096800	Soil	0.08	4.8	1.3	<0.05	0.7	12.03	8.5	<0.02	<1	0.5	5.8	<10	<2
1097801	Soil	0.44	18.2	1.4	<0.05	1.1	6.32	26.2	0.03	<1	0.8	12.9	<10	<2
1097802	Soil	0.59	14.3	1.1	<0.05	1.2	6.20	29.9	0.04	<1	1.2	24.3	<10	<2
1097803	Soil	0.22	8.3	1.6	<0.05	1.4	12.89	28.4	0.04	<1	1.1	15.5	<10	<2
1097804	Soil	0.30	10.2	0.7	<0.05	1.3	7.78	21.2	0.04	<1	0.8	14.9	<10	<2
1098508	Soil	0.03	2.5	2.4	<0.05	0.7	5.21	8.3	<0.02	<1	0.4	2.2	<10	<2
1098509	Soil	0.07	3.6	1.0	<0.05	0.4	8.40	15.1	<0.02	<1	0.6	3.3	<10	<2



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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1098510	Soil	0.28	5.08	14.80	29.5	48	4.9	2.2	1446	1.84	17.1	1.1	1.2	0.2	90.4	0.11	0.75	0.05	7	16.71	0.111
1098511	Soil	0.43	13.50	24.75	84.7	98	14.8	8.2	6913	8.81	15.3	1.1	0.7	1.1	17.1	0.75	1.22	0.17	32	5.09	0.151
1098512	Soil	0.50	18.81	30.73	60.7	101	24.3	11.4	654	2.84	8.8	0.6	<0.2	2.4	30.2	0.15	0.45	0.31	15	0.63	0.038
1098513	Soil	0.60	19.44	24.70	40.3	127	21.8	9.3	456	2.51	6.7	0.3	<0.2	1.2	14.3	0.23	0.24	0.30	12	0.20	0.050
1098514	Soil	0.50	23.12	25.51	97.8	63	24.3	10.1	232	4.00	5.6	0.2	<0.2	1.6	10.2	0.11	0.25	0.36	16	0.10	0.042
1098515	Soil	0.73	14.52	20.54	54.7	117	18.3	7.9	236	3.35	8.2	0.4	<0.2	2.2	13.0	0.04	0.29	0.27	30	0.17	0.028
1098516	Soil	0.63	24.64	32.86	76.5	248	29.3	11.7	258	3.74	12.1	0.6	<0.2	2.7	85.1	0.09	0.35	0.39	11	0.94	0.040
1098517	Soil	0.62	19.67	25.67	69.0	48	21.2	9.1	226	3.51	7.4	0.3	1.0	2.8	12.7	0.09	0.31	0.31	20	0.10	0.025
1098518	Soil	0.54	21.28	23.27	98.1	178	18.7	5.7	118	2.33	6.3	1.5	0.6	1.2	90.8	0.24	0.33	0.29	14	1.69	0.117
1098519	Soil	1.06	24.25	28.04	57.2	160	20.8	16.6	1529	3.08	7.0	0.4	1.6	2.5	81.1	0.24	0.38	0.33	23	0.78	0.051
1098520	Soil	0.51	23.97	21.18	63.1	102	23.4	10.8	374	2.91	9.0	0.8	1.5	2.8	60.3	0.12	0.45	0.29	18	0.89	0.044
1098521	Soil	0.35	10.20	21.83	37.6	125	8.2	5.0	2387	2.80	15.4	1.4	1.1	0.5	33.5	0.34	1.49	0.09	13	12.47	0.221
1098522	Soil	0.90	22.58	42.66	63.0	261	25.8	9.3	4966	7.08	60.8	2.9	13.0	1.6	40.2	0.39	4.78	0.23	23	7.20	0.247
1098523	Soil	0.87	18.92	47.93	100.9	120	27.6	13.4	4706	7.39	37.1	1.7	2.6	2.3	11.2	0.38	3.83	0.30	37	0.97	0.097
1098524	Soil	0.55	13.84	30.53	70.1	190	24.8	7.8	1533	3.26	43.1	1.8	11.0	1.8	47.6	0.14	3.22	0.22	18	5.94	0.168
1098525	Soil	0.46	18.24	30.61	83.9	320	22.0	5.8	284	2.16	11.8	0.9	0.6	2.5	27.0	0.10	0.36	0.26	11	1.15	0.054
1098526	Soil	0.70	15.93	20.25	62.5	34	21.3	10.0	284	3.20	9.5	0.4	<0.2	2.6	11.3	0.07	0.48	0.26	24	0.24	0.026
1098527	Soil	0.71	17.57	28.20	65.3	88	23.7	10.4	440	3.74	13.4	0.8	0.3	4.7	16.2	0.09	0.93	0.28	22	0.26	0.031
1098528	Soil	0.52	25.89	35.62	91.0	219	32.4	11.8	365	3.73	10.0	0.9	0.9	4.3	53.8	0.06	0.28	0.37	12	0.65	0.042
1098529	Soil	0.48	23.34	29.90	74.0	172	28.0	10.9	335	3.16	8.6	0.6	0.6	2.8	72.8	0.15	0.36	0.33	17	1.18	0.044
1098530	Soil	0.64	19.32	26.07	70.2	59	27.4	11.7	277	3.37	9.7	0.7	<0.2	3.5	21.5	0.05	0.36	0.28	20	0.19	0.031
1098531	Soil	0.66	17.47	46.91	56.7	190	15.8	9.8	2961	3.45	25.4	0.7	0.9	0.9	33.2	0.46	3.13	0.22	27	7.38	0.169
1098532	Soil	0.51	9.29	21.59	24.3	121	10.0	6.2	1919	2.13	19.0	0.9	3.3	0.5	66.5	0.23	2.22	0.10	14	12.81	0.122
1098533	Soil	0.74	10.93	16.90	56.2	113	12.9	7.4	1980	2.77	13.1	0.8	1.0	0.7	41.7	0.46	0.97	0.15	23	9.41	0.113
1098534	Soil	0.71	14.40	26.88	67.9	156	19.5	10.3	1472	3.55	15.7	0.8	1.6	1.5	19.2	0.41	1.07	0.26	33	1.72	0.082
1098535	Soil	0.51	18.00	28.61	71.0	173	19.1	8.6	795	3.30	11.7	0.7	0.7	1.9	12.4	0.19	0.76	0.28	22	0.99	0.083
1098536	Soil	0.47	17.83	29.04	65.9	61	19.9	11.1	1038	3.55	30.9	0.7	1.2	2.7	12.1	0.11	0.86	0.38	17	0.56	0.049
1098537	Soil	0.55	17.15	27.78	69.5	206	19.0	8.7	1648	3.55	13.4	1.1	1.3	1.3	18.4	0.23	0.86	0.27	25	1.12	0.127
1098538	Soil	0.41	18.34	23.61	73.2	154	15.4	6.7	647	2.43	9.1	1.2	<0.2	0.9	73.0	0.49	0.47	0.22	14	3.16	0.077
1098539	Soil	0.73	18.12	55.29	71.6	218	19.7	11.4	3641	4.60	24.9	0.7	0.8	2.3	31.3	0.28	2.61	0.26	30	5.84	0.128



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1098510	Soil	2.3	4.7	8.62	59.1	0.003	4	0.25	0.010	0.03	<0.1	0.5	0.05	<0.02	57	0.3	<0.02	0.6	0.20	<0.1	0.03
1098511	Soil	15.7	19.4	2.51	178.4	0.006	4	1.40	0.009	0.05	<0.1	2.4	0.12	0.11	129	0.5	0.07	3.4	0.65	<0.1	0.05
1098512	Soil	8.9	11.8	0.23	120.9	0.003	3	0.74	0.003	0.15	<0.1	3.1	0.10	0.03	64	0.1	<0.02	2.4	2.03	<0.1	0.03
1098513	Soil	5.7	8.3	0.10	92.8	0.003	3	0.55	0.003	0.14	<0.1	2.2	0.09	0.03	26	0.2	0.02	1.8	1.26	<0.1	<0.02
1098514	Soil	3.1	13.8	0.20	92.5	0.002	2	0.84	0.003	0.12	<0.1	3.3	0.11	<0.02	22	0.1	0.04	3.5	2.61	<0.1	<0.02
1098515	Soil	5.5	22.6	0.32	76.8	0.003	2	1.41	0.003	0.08	<0.1	2.1	0.11	<0.02	21	<0.1	<0.02	4.6	1.60	<0.1	0.03
1098516	Soil	9.7	10.0	0.14	110.2	<0.001	3	0.77	0.004	0.06	<0.1	4.4	0.13	0.03	70	0.2	0.06	1.7	0.97	<0.1	0.03
1098517	Soil	4.0	17.0	0.21	66.4	0.002	2	1.01	0.003	0.08	<0.1	2.3	0.09	<0.02	64	0.1	0.02	3.5	1.84	<0.1	<0.02
1098518	Soil	5.2	13.8	0.25	87.5	0.003	5	0.92	0.009	0.08	<0.1	2.9	0.12	0.14	96	0.3	0.04	2.4	2.18	<0.1	0.04
1098519	Soil	6.8	19.8	0.24	204.2	0.003	3	1.34	0.005	0.13	<0.1	3.2	0.12	0.02	50	0.3	0.04	4.6	1.56	<0.1	0.03
1098520	Soil	5.3	18.4	0.30	91.8	0.003	3	1.09	0.003	0.09	<0.1	3.7	0.08	0.04	103	0.2	0.04	3.5	1.12	<0.1	0.05
1098521	Soil	6.8	11.1	6.00	87.9	0.004	5	0.59	0.010	0.04	<0.1	1.0	0.07	0.06	100	0.4	0.04	1.4	0.32	<0.1	0.03
1098522	Soil	15.3	20.7	3.30	169.5	0.006	4	1.29	0.006	0.06	<0.1	2.2	0.21	0.09	154	0.7	0.11	2.9	0.44	<0.1	0.10
1098523	Soil	17.5	25.3	0.50	159.8	0.006	2	1.54	0.003	0.06	0.1	4.4	0.17	0.06	194	0.4	0.06	3.9	0.62	<0.1	0.07
1098524	Soil	10.4	16.1	2.69	79.3	0.002	4	0.72	0.003	0.06	<0.1	3.7	0.23	0.03	753	0.4	0.04	1.8	0.53	<0.1	0.07
1098525	Soil	14.3	11.3	0.13	68.5	0.001	4	0.54	0.003	0.07	<0.1	3.7	0.11	0.05	1730	0.5	0.04	1.4	0.33	<0.1	0.05
1098526	Soil	5.7	19.6	0.28	65.8	0.003	2	1.18	0.002	0.09	<0.1	2.0	0.09	<0.02	43	0.2	0.02	3.4	1.21	<0.1	<0.02
1098527	Soil	8.1	17.8	0.22	79.7	0.002	3	1.22	0.002	0.11	<0.1	3.4	0.11	0.02	98	0.2	0.03	2.8	0.97	<0.1	0.02
1098528	Soil	15.6	11.6	0.16	118.1	<0.001	4	0.92	0.004	0.09	<0.1	6.0	0.17	0.04	220	0.4	<0.02	2.0	1.22	<0.1	0.06
1098529	Soil	5.1	18.5	0.29	126.2	0.002	3	1.16	0.006	0.10	<0.1	4.2	0.11	0.05	92	0.3	0.04	3.3	1.96	<0.1	0.05
1098530	Soil	5.8	19.9	0.27	115.0	0.002	1	1.34	0.002	0.09	<0.1	3.2	0.10	<0.02	40	0.2	0.04	3.3	2.00	<0.1	0.03
1098531	Soil	11.8	18.0	3.56	150.9	0.005	6	1.29	0.006	0.06	<0.1	2.0	0.11	0.10	151	0.5	0.06	2.9	0.46	<0.1	0.06
1098532	Soil	5.4	12.2	6.25	80.2	0.003	4	0.56	0.007	0.04	<0.1	1.2	0.11	0.03	99	0.3	<0.02	1.2	0.33	<0.1	0.03
1098533	Soil	8.8	16.8	4.68	121.2	0.010	3	1.00	0.008	0.04	<0.1	1.6	0.08	0.03	92	0.5	<0.02	2.1	0.58	<0.1	<0.02
1098534	Soil	13.0	23.2	0.99	113.7	0.009	1	1.28	0.004	0.06	0.1	2.7	0.11	0.05	159	0.3	0.04	3.3	0.80	0.1	0.03
1098535	Soil	9.2	17.4	0.49	152.0	0.002	3	1.26	0.003	0.07	<0.1	2.8	0.12	0.05	110	0.2	0.03	2.9	0.87	<0.1	0.05
1098536	Soil	5.9	13.8	0.26	69.6	0.003	3	0.75	0.003	0.13	<0.1	2.9	0.09	0.03	67	0.2	0.05	2.1	0.56	<0.1	0.03
1098537	Soil	11.8	19.1	0.41	112.7	0.006	3	1.27	0.003	0.09	<0.1	2.5	0.12	0.09	194	0.4	0.05	3.1	0.99	<0.1	0.04
1098538	Soil	6.4	12.3	0.66	150.4	0.004	4	0.72	0.007	0.06	<0.1	2.0	0.07	0.07	92	0.4	0.04	1.9	0.89	<0.1	0.03
1098539	Soil	12.0	22.8	2.91	178.2	0.004	7	1.65	0.005	0.11	<0.1	3.4	0.22	0.06	151	0.3	0.06	3.9	0.88	<0.1	0.11



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1098510	Soil	0.06	3.2	3.2	<0.05	0.5	5.37	5.6	<0.02	<1	0.3	1.8	<10	<2
1098511	Soil	0.20	6.6	1.1	<0.05	1.3	21.31	34.5	0.02	<1	0.8	6.4	<10	<2
1098512	Soil	0.29	13.0	3.1	<0.05	0.7	6.90	26.4	0.05	<1	0.9	6.3	<10	<2
1098513	Soil	0.19	11.4	0.6	<0.05	0.3	2.68	14.1	0.02	<1	0.5	3.2	<10	<2
1098514	Soil	0.15	13.1	2.2	<0.05	0.1	2.52	6.8	0.03	<1	0.6	18.7	<10	<2
1098515	Soil	0.42	12.6	1.5	<0.05	0.9	2.64	12.2	0.02	<1	0.6	27.1	<10	<2
1098516	Soil	0.10	6.6	0.4	<0.05	1.7	16.69	30.9	0.04	<1	1.0	9.9	<10	<2
1098517	Soil	0.18	11.8	2.4	<0.05	1.0	2.81	9.9	0.04	<1	0.7	22.3	<10	<2
1098518	Soil	0.29	11.5	0.5	<0.05	1.6	9.69	13.8	0.03	<1	0.8	17.4	<10	<2
1098519	Soil	0.35	13.8	2.8	<0.05	1.1	4.94	17.1	0.05	<1	1.0	30.5	<10	<2
1098520	Soil	0.32	8.8	0.6	<0.05	1.8	7.51	13.9	0.04	<1	0.9	28.9	<10	<2
1098521	Soil	0.10	4.0	2.3	<0.05	0.9	9.67	13.6	<0.02	<1	0.3	3.5	<10	<2
1098522	Soil	0.21	4.9	0.5	<0.05	2.7	19.84	28.2	<0.02	<1	0.8	6.7	<10	<2
1098523	Soil	0.31	6.6	1.0	<0.05	1.6	19.71	33.8	0.04	<1	0.8	9.6	<10	<2
1098524	Soil	0.12	4.6	0.6	<0.05	1.7	16.80	19.4	0.03	<1	0.7	5.7	<10	<2
1098525	Soil	0.14	4.5	1.2	<0.05	1.4	15.54	34.0	0.03	<1	0.7	4.9	<10	<2
1098526	Soil	0.27	11.0	1.1	<0.05	0.8	2.30	12.4	0.03	<1	0.6	25.9	<10	<2
1098527	Soil	0.24	9.5	2.9	<0.05	1.1	6.65	31.6	0.03	<1	1.1	19.8	<10	<2
1098528	Soil	0.08	8.2	0.7	<0.05	2.4	20.43	38.9	0.04	<1	1.2	10.6	<10	<2
1098529	Soil	0.28	9.0	2.5	<0.05	2.0	7.75	14.1	0.03	<1	0.9	31.9	<10	<2
1098530	Soil	0.22	9.4	0.8	<0.05	1.4	5.08	16.6	0.04	<1	0.9	37.8	<10	<2
1098531	Soil	0.22	6.2	1.0	<0.05	1.5	11.73	26.4	0.03	<1	0.8	7.7	<10	<2
1098532	Soil	0.08	4.0	2.4	<0.05	0.9	6.82	11.8	<0.02	<1	0.6	3.9	<10	<2
1098533	Soil	0.31	5.7	1.4	<0.05	0.5	7.14	18.5	<0.02	<1	0.5	7.4	<10	<2
1098534	Soil	0.35	7.5	1.3	<0.05	0.8	10.15	25.1	0.02	<1	0.8	12.0	<10	<2
1098535	Soil	0.20	8.6	0.6	<0.05	1.5	9.39	18.5	0.02	<1	1.2	14.9	<10	<2
1098536	Soil	0.21	8.2	1.0	<0.05	1.0	4.58	17.5	0.03	<1	0.6	10.3	<10	<2
1098537	Soil	0.32	10.0	0.5	<0.05	1.2	11.21	23.4	0.03	<1	1.0	11.1	<10	<2
1098538	Soil	0.31	7.9	1.9	<0.05	1.0	6.27	14.6	<0.02	<1	0.6	9.3	<10	<2
1098539	Soil	0.28	11.3	0.9	<0.05	2.6	11.04	25.0	0.03	<1	1.3	13.7	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1098540	Soil	0.79	10.71	33.12	67.5	63	17.7	9.2	3336	5.15	13.5	0.9	<0.2	4.2	18.5	0.23	0.83	0.25	35	2.54	0.049
1098541	Soil	0.77	15.68	43.22	56.1	127	20.9	11.4	2891	4.21	18.9	0.9	0.3	3.6	29.0	0.25	1.55	0.29	31	4.84	0.072
1098542	Soil	0.62	15.83	29.64	81.0	184	17.5	9.7	1221	2.88	15.3	0.8	0.6	1.3	30.6	0.20	1.10	0.21	20	6.30	0.096
1098543	Soil	0.66	17.87	23.58	36.2	145	20.3	13.5	1496	2.95	72.3	0.5	<0.2	1.3	10.1	0.17	0.72	0.32	17	0.35	0.055
1098544	Soil	0.73	11.69	18.81	34.8	98	11.9	5.8	190	2.23	9.1	0.3	<0.2	1.4	6.5	0.09	0.39	0.25	25	0.08	0.029
1098545	Soil	0.63	13.40	25.42	58.8	22	17.0	9.0	501	3.80	15.6	0.6	<0.2	3.6	5.6	0.10	0.83	0.28	32	0.08	0.024
1098546	Soil	0.75	21.17	23.66	44.4	111	18.3	11.7	2436	3.10	9.1	0.5	0.4	2.4	10.4	0.20	0.45	0.30	32	0.36	0.039
1098547	Soil	0.45	27.27	17.97	45.5	180	22.3	8.5	426	2.61	16.9	1.8	1.0	0.8	70.1	0.15	0.61	0.25	18	2.21	0.083
1098548	Soil	0.53	24.44	28.35	56.2	216	23.5	12.6	952	3.33	18.5	0.7	2.1	2.5	45.1	0.09	0.70	0.27	15	2.81	0.068
1098549	Soil	0.68	19.05	28.61	74.3	30	24.5	12.3	907	3.80	16.5	0.9	<0.2	5.6	17.8	0.10	0.59	0.31	29	0.49	0.020
1098550	Soil	0.45	19.42	27.36	63.8	123	20.2	9.1	493	3.32	16.1	0.8	1.0	2.7	35.3	0.08	0.62	0.26	15	2.60	0.066
1098551	Soil	0.55	19.23	25.05	58.1	115	25.4	10.2	587	4.12	9.7	0.8	<0.2	2.8	32.2	0.09	0.33	0.30	22	0.80	0.052
1098552	Soil	0.54	15.77	31.56	74.5	79	23.2	10.4	1108	3.83	15.9	0.7	0.2	3.3	29.0	0.15	0.97	0.27	25	2.25	0.060
1098553	Soil	0.54	24.95	30.62	73.8	34	28.2	12.7	385	3.81	9.2	0.6	<0.2	4.8	33.5	0.06	0.29	0.30	18	0.35	0.025
1098554	Soil	0.68	31.48	40.08	101.2	184	33.6	17.0	527	3.97	9.9	0.7	0.7	3.6	113.4	0.20	0.38	0.38	14	2.71	0.063
1098555	Soil	0.52	23.80	23.67	61.4	60	24.2	11.2	495	3.13	9.9	1.3	4.0	2.0	56.7	0.13	0.40	0.35	19	0.88	0.047
1098556	Soil	0.54	11.51	38.58	69.9	132	12.2	6.8	4190	3.72	20.0	0.9	2.5	1.0	32.4	0.52	2.76	0.21	18	9.55	0.100
1098557	Soil	0.51	17.24	25.35	68.9	161	17.6	7.7	934	2.95	18.5	1.0	8.9	1.5	39.4	0.17	1.94	0.26	18	7.31	0.107
1098558	Soil	0.60	14.72	35.28	102.8	149	15.5	7.6	2633	3.91	16.6	1.1	0.8	1.2	20.7	0.39	1.35	0.22	23	6.30	0.144
1098559	Soil	0.63	19.88	30.36	70.1	123	22.7	10.7	1129	3.51	14.9	0.5	4.0	3.4	23.4	0.20	1.35	0.31	21	2.95	0.037
1098560	Soil	0.60	18.39	50.27	43.8	222	16.2	9.5	2929	5.34	24.7	0.8	6.1	2.3	27.3	0.21	2.66	0.29	24	4.22	0.107
1098561	Soil	0.70	19.10	33.39	73.2	94	23.7	11.2	2228	7.13	17.9	1.2	4.4	6.0	12.4	0.12	1.03	0.36	32	0.35	0.039
1098562	Soil	0.64	12.54	41.71	88.3	57	18.2	9.6	1798	5.02	15.7	0.6	<0.2	4.3	15.4	0.38	1.07	0.33	31	2.17	0.040
1098563	Soil	0.58	26.44	29.86	74.3	172	24.1	11.5	559	3.07	13.4	0.8	2.6	3.6	88.8	0.17	0.96	0.30	16	3.96	0.067
1098564	Soil	0.58	10.56	27.22	56.2	55	15.9	7.8	863	3.37	9.7	0.5	<0.2	2.8	14.1	0.13	0.55	0.27	25	0.24	0.024
1098565	Soil	0.50	22.42	30.49	81.3	150	25.3	12.1	622	3.60	12.6	0.9	1.2	4.9	42.0	0.12	0.52	0.36	18	0.79	0.047
1098566	Soil	0.63	28.00	32.29	90.2	203	30.1	11.8	225	3.68	12.7	0.7	0.8	3.4	48.1	0.08	0.38	0.38	12	0.60	0.041
1098567	Soil	0.76	11.86	9.43	22.7	29	13.3	7.0	138	2.96	38.7	0.4	0.4	1.3	4.1	0.09	0.73	0.35	15	0.06	0.034
1098568	Soil	0.70	19.32	28.16	50.5	64	20.3	13.5	1616	4.03	40.9	0.7	0.8	3.6	9.7	0.05	1.29	0.39	22	0.31	0.040
1098569	Soil	0.37	18.09	12.46	34.1	7	12.4	10.3	182	2.78	13.0	0.3	<0.2	1.8	4.4	0.03	0.43	0.36	15	0.12	0.015



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 22, 2011

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1098540	Soil	20.1	23.0	1.48	184.8	0.005	3	1.62	0.004	0.08	<0.1	5.2	0.16	0.03	3547	0.2	0.05	4.2	0.84	<0.1	0.06
1098541	Soil	14.5	22.4	2.59	125.7	0.003	4	1.55	0.005	0.08	<0.1	4.5	0.16	0.03	184	0.3	0.04	3.8	0.84	<0.1	0.07
1098542	Soil	9.4	16.2	3.14	71.3	0.006	3	0.99	0.006	0.08	<0.1	2.5	0.11	0.04	191	0.3	0.02	2.2	0.90	<0.1	0.03
1098543	Soil	5.7	12.9	0.12	81.7	0.003	1	0.83	0.003	0.11	<0.1	3.2	0.13	0.03	121	0.2	0.04	2.3	1.53	<0.1	0.03
1098544	Soil	6.0	12.5	0.09	54.5	0.003	<1	0.71	0.002	0.10	<0.1	1.2	0.07	<0.02	31	0.2	0.03	3.2	0.66	<0.1	<0.02
1098545	Soil	7.3	18.7	0.22	61.4	0.003	<1	1.35	0.001	0.07	<0.1	2.4	0.13	<0.02	52	0.2	0.05	3.7	1.43	<0.1	0.02
1098546	Soil	8.7	18.1	0.20	158.7	0.005	1	1.34	0.004	0.11	<0.1	2.5	0.11	0.02	41	0.2	0.05	4.3	1.74	<0.1	<0.02
1098547	Soil	6.4	15.2	0.30	135.6	0.003	4	0.96	0.004	0.10	<0.1	2.2	0.10	0.08	176	0.6	0.03	2.6	1.51	<0.1	0.03
1098548	Soil	9.1	14.5	1.36	58.7	0.002	3	0.83	0.004	0.09	<0.1	4.2	0.11	0.04	204	0.2	0.03	2.2	1.13	<0.1	0.05
1098549	Soil	12.2	23.5	0.35	110.9	0.003	3	1.50	0.001	0.17	<0.1	4.6	0.14	<0.02	58	0.2	0.04	3.7	0.68	<0.1	0.05
1098550	Soil	8.7	14.2	1.03	77.4	0.001	2	0.82	0.003	0.07	<0.1	4.0	0.09	0.04	115	0.2	0.04	2.1	0.74	<0.1	0.06
1098551	Soil	13.8	17.2	0.18	180.9	0.002	3	1.16	0.002	0.12	<0.1	4.3	0.10	0.02	159	0.2	0.02	2.8	0.91	<0.1	0.04
1098552	Soil	7.7	19.5	1.18	114.4	0.002	3	1.18	0.004	0.11	<0.1	3.5	0.11	0.04	83	0.3	0.05	3.2	0.76	<0.1	0.05
1098553	Soil	8.6	18.2	0.22	71.7	<0.001	3	1.44	0.001	0.09	<0.1	4.2	0.13	<0.02	76	0.2	0.04	3.0	1.48	<0.1	0.04
1098554	Soil	5.9	15.6	0.63	95.6	0.001	4	0.85	0.005	0.10	<0.1	5.4	0.15	0.06	130	0.2	0.07	2.2	1.47	<0.1	0.06
1098555	Soil	9.2	17.9	0.27	110.2	0.002	3	1.21	0.003	0.06	<0.1	4.0	0.12	0.03	65	0.3	0.04	2.9	1.03	<0.1	0.04
1098556	Soil	8.8	14.9	5.01	111.8	0.004	5	1.04	0.006	0.04	<0.1	1.9	0.15	0.03	89	0.5	0.04	2.3	0.46	<0.1	0.05
1098557	Soil	6.1	16.1	4.03	62.1	0.005	4	0.87	0.006	0.06	<0.1	2.5	0.12	0.02	135	0.4	0.06	2.0	0.60	<0.1	0.06
1098558	Soil	9.8	18.4	3.51	107.9	0.004	5	1.36	0.005	0.05	<0.1	2.1	0.11	0.05	80	0.4	0.08	2.9	0.59	<0.1	0.05
1098559	Soil	8.0	18.8	1.77	92.8	0.002	5	1.12	0.004	0.11	<0.1	4.3	0.12	0.02	111	0.3	0.03	2.8	0.64	<0.1	0.09
1098560	Soil	12.2	19.3	1.97	124.4	0.003	7	1.39	0.006	0.11	<0.1	3.6	0.14	0.05	161	0.3	0.04	3.2	0.50	<0.1	0.09
1098561	Soil	19.7	24.8	0.41	111.3	0.004	2	1.66	0.003	0.12	<0.1	6.3	0.14	<0.02	90	0.3	0.04	3.9	0.63	<0.1	0.08
1098562	Soil	13.4	22.0	1.17	153.4	0.003	7	1.62	0.006	0.12	<0.1	3.9	0.14	<0.02	36	0.2	0.06	4.2	0.50	<0.1	0.05
1098563	Soil	8.3	15.4	1.54	66.9	0.002	5	1.01	0.005	0.10	<0.1	4.3	0.17	0.03	157	0.4	0.03	2.3	0.72	<0.1	0.07
1098564	Soil	7.7	19.1	0.31	113.9	0.002	2	1.39	0.002	0.10	<0.1	2.3	0.11	<0.02	33	0.2	0.04	3.9	0.77	<0.1	0.04
1098565	Soil	8.9	19.6	0.41	91.8	0.002	5	1.31	0.003	0.13	<0.1	5.4	0.10	<0.02	98	0.2	0.03	3.3	1.05	<0.1	0.03
1098566	Soil	6.5	13.9	0.22	146.5	<0.001	3	1.02	0.004	0.08	<0.1	5.0	0.16	0.03	119	0.3	0.05	2.0	0.82	<0.1	0.08
1098567	Soil	3.6	12.3	0.07	57.2	0.003	3	0.47	0.001	0.17	<0.1	3.1	0.08	<0.02	25	<0.1	0.04	2.1	2.29	<0.1	<0.02
1098568	Soil	9.7	17.9	0.24	79.3	0.002	2	1.08	0.002	0.11	<0.1	5.6	0.13	0.02	64	0.2	0.02	2.5	0.55	<0.1	0.04
1098569	Soil	4.1	7.4	0.09	32.7	0.002	1	0.43	0.001	0.08	<0.1	2.1	0.05	<0.02	10	0.1	0.07	1.9	0.56	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 9 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1098540	Soil			0.41	11.0	1.8	<0.05	1.9	17.67	39.8	0.03	<1	1.3	13.5	<10	<2
1098541	Soil			0.26	9.1	1.2	<0.05	2.2	13.43	27.5	0.04	<1	1.4	14.9	<10	<2
1098542	Soil			0.19	7.2	2.6	<0.05	0.9	9.18	19.7	0.02	<1	0.7	11.2	<10	<2
1098543	Soil			0.18	10.1	1.4	<0.05	0.6	7.21	12.5	0.03	<1	0.8	6.0	<10	<2
1098544	Soil			0.33	9.7	4.1	<0.05	0.2	1.54	12.2	<0.02	<1	0.2	6.6	<10	<2
1098545	Soil			0.39	9.3	0.7	<0.05	1.1	2.65	18.7	0.03	<1	0.8	16.3	<10	<2
1098546	Soil			0.59	12.1	2.8	<0.05	0.9	3.65	21.1	0.02	<1	0.6	11.1	<10	<2
1098547	Soil			0.35	8.6	0.6	<0.05	1.1	7.87	13.1	0.03	<1	0.9	12.9	<10	<2
1098548	Soil			0.13	6.6	1.2	<0.05	1.6	13.25	20.2	0.03	<1	0.9	13.0	<10	<2
1098549	Soil			0.40	9.2	0.6	<0.05	2.6	9.75	35.4	0.03	<1	1.2	17.6	<10	<2
1098550	Soil			0.15	6.4	1.5	<0.05	1.6	11.60	16.6	0.03	<1	1.0	14.4	<10	<2
1098551	Soil			0.18	8.9	0.6	<0.05	1.2	12.45	32.8	0.04	<1	1.4	14.8	<10	<2
1098552	Soil			0.26	8.0	1.0	<0.05	2.7	7.24	20.1	0.03	<1	0.9	17.5	<10	<2
1098553	Soil			0.12	9.6	0.6	<0.05	1.5	9.07	32.8	0.04	<1	1.3	25.2	<10	<2
1098554	Soil			0.15	6.3	4.9	<0.05	2.1	12.46	16.2	0.04	<1	0.8	20.7	<10	<2
1098555	Soil			0.30	8.0	0.7	<0.05	1.1	13.59	24.9	0.05	<1	1.1	23.3	<10	<2
1098556	Soil			0.18	6.1	2.8	<0.05	1.5	8.87	17.6	0.03	<1	1.3	6.8	<10	<2
1098557	Soil			0.20	4.2	0.6	<0.05	1.4	8.44	12.2	0.03	<1	0.7	11.3	<10	<2
1098558	Soil			0.24	5.7	2.1	<0.05	1.6	10.78	19.3	0.02	<1	0.8	11.0	<10	<2
1098559	Soil			0.24	6.9	0.8	<0.05	2.4	10.24	18.7	0.02	<1	1.2	17.6	<10	<2
1098560	Soil			0.30	7.4	2.9	<0.05	2.5	11.64	26.4	0.03	<1	1.1	11.7	<10	<2
1098561	Soil			0.30	9.4	0.7	<0.05	2.7	21.28	31.8	0.04	<1	1.2	17.8	<10	<2
1098562	Soil			0.41	9.1	2.3	<0.05	2.4	9.82	30.0	0.04	<1	1.0	17.6	<10	<2
1098563	Soil			0.23	5.7	1.0	<0.05	2.3	12.55	17.7	0.03	<1	0.9	18.9	<10	<2
1098564	Soil			0.26	13.6	3.1	<0.05	1.4	4.17	15.7	0.03	<1	0.7	19.8	<10	<2
1098565	Soil			0.19	8.6	0.7	<0.05	1.8	10.87	28.8	0.04	<1	1.0	29.2	<10	<2
1098566	Soil			0.13	6.5	4.4	<0.05	2.6	12.34	19.5	0.04	<1	1.1	20.9	<10	<2
1098567	Soil			0.15	11.5	1.7	<0.05	<0.1	1.57	7.9	<0.02	<1	0.7	2.9	<10	<2
1098568	Soil			0.22	6.5	3.1	<0.05	1.3	13.49	20.8	0.04	<1	1.4	8.6	<10	<2
1098569	Soil			0.16	7.8	0.4	<0.05	0.4	1.76	8.3	0.03	<1	0.3	2.4	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1098570	Soil			0.72	14.52	22.81	50.6	85	17.3	10.1	773	3.85	20.2	0.7	0.5	3.0	10.6	0.10	0.91	0.35	34	0.26	0.044
1098571	Soil			0.72	19.21	28.58	68.3	37	24.0	12.3	695	3.83	20.7	0.6	2.0	3.8	9.0	0.08	0.96	0.34	24	0.14	0.021
1098572	Soil			0.58	31.68	33.07	70.7	122	28.5	16.0	872	3.44	19.2	1.3	2.8	3.4	14.5	0.10	0.61	0.40	18	0.73	0.049
1098573	Soil			0.44	24.57	29.58	88.8	110	25.9	10.9	533	3.21	12.8	0.8	2.0	3.2	44.8	0.14	0.64	0.29	15	1.65	0.053
1098574	Soil			0.32	19.04	26.01	115.2	87	19.6	8.9	485	2.46	10.3	0.7	2.3	2.7	60.6	0.28	0.60	0.23	11	4.67	0.063
1098575	Soil			0.39	19.83	40.50	36.5	217	21.4	8.7	2493	5.11	47.5	1.9	44.7	1.6	40.8	0.14	4.44	0.17	11	9.85	0.160
1098576	Soil			0.32	14.24	30.04	20.0	169	13.0	6.3	2857	4.68	20.1	1.2	38.4	1.2	29.8	0.10	2.62	0.12	10	8.94	0.137
1098577	Soil			0.28	3.96	10.84	13.0	50	3.8	1.8	460	0.68	3.8	0.3	1.2	0.2	35.5	0.09	0.58	0.04	6	7.98	0.044
1098578	Soil			0.38	5.52	12.19	19.6	49	5.2	2.5	779	1.11	6.5	0.5	2.0	0.2	40.0	0.12	0.72	0.05	8	10.16	0.069
1098579	Soil			0.61	10.78	20.24	67.8	92	12.3	6.6	1616	2.58	11.4	0.6	1.3	0.6	25.0	0.36	1.10	0.15	17	7.41	0.140
1098580	Soil			0.61	19.53	23.42	29.1	38	18.2	15.4	837	2.32	17.1	0.4	<0.2	2.0	7.0	0.08	0.72	0.40	17	0.20	0.029
1098581	Soil			1.81	14.38	29.93	37.9	69	28.4	17.8	3760	3.99	34.9	0.8	1.7	3.5	9.7	0.13	1.26	0.27	19	0.64	0.083
1098582	Soil			0.66	56.97	51.44	77.7	289	51.4	43.8	3199	6.31	4.9	0.8	1.2	4.2	14.3	0.04	0.29	0.47	23	0.12	0.045
1098583	Soil			0.76	49.43	65.55	67.2	99	40.7	47.1	2335	5.34	5.6	1.0	2.1	4.0	8.1	0.03	0.28	0.60	27	0.16	0.094
1098584	Soil			0.48	15.14	21.40	46.7	66	12.5	8.3	979	2.30	15.9	1.0	4.4	0.9	28.3	0.14	1.33	0.17	11	7.80	0.095
1098585	Soil			0.71	30.52	22.64	54.8	67	19.6	9.3	268	4.15	3.9	0.9	0.4	3.9	9.3	0.08	0.33	0.38	43	0.19	0.050
1098586	Soil			1.02	28.90	43.42	84.9	104	24.2	22.4	1262	5.68	5.9	0.6	0.7	3.8	6.4	0.16	0.36	0.37	40	0.02	0.054
1098587	Soil			0.71	41.98	69.99	88.9	269	29.3	43.5	2532	5.30	5.2	0.8	0.2	4.8	8.1	0.13	0.25	0.46	39	0.06	0.067
1098588	Soil			0.81	88.68	73.59	106.7	204	37.2	51.7	2393	6.16	4.6	1.0	1.9	4.7	7.2	0.10	0.36	0.54	34	0.01	0.081
1098589	Soil			0.62	28.60	35.10	76.0	112	31.8	22.1	1165	4.85	3.1	0.7	0.3	5.4	4.4	0.09	0.37	0.42	41	0.01	0.051
1098590	Soil			1.13	22.86	20.47	84.8	81	30.5	15.2	464	4.20	5.7	0.7	1.5	5.0	6.4	0.07	0.51	0.35	49	0.02	0.032
1098591	Soil			0.59	13.76	28.99	70.4	30	30.3	16.6	309	4.54	2.3	1.0	2.3	6.3	4.6	0.06	0.35	0.37	42	<0.01	0.026
1098592	Soil			0.94	37.33	26.42	68.0	54	21.4	16.2	1193	5.68	5.0	0.7	<0.2	4.1	4.8	0.09	0.35	0.48	40	0.02	0.058
1098593	Soil			0.62	41.85	31.86	95.3	64	35.5	16.9	520	5.58	6.0	0.5	0.3	4.3	5.0	0.03	0.14	0.50	33	<0.01	0.036
1098594	Soil			0.50	38.53	43.88	88.6	82	36.2	26.2	860	4.71	6.5	0.5	1.1	5.0	7.3	0.04	0.20	0.50	31	<0.01	0.024
1098595	Soil			1.26	32.43	27.71	83.9	82	24.7	18.6	868	5.32	3.8	0.9	0.2	4.5	14.1	0.05	0.19	0.46	38	0.04	0.056
1098596	Soil			0.99	35.17	43.51	82.0	77	35.1	30.9	1203	3.87	3.9	0.8	0.6	4.8	7.5	0.11	0.53	0.44	32	0.02	0.048
1098597	Soil			0.55	35.20	25.88	68.0	178	28.0	13.8	386	5.60	1.8	0.5	<0.2	3.4	4.3	0.03	0.17	0.41	32	0.01	0.049
1098598	Soil			0.69	39.75	39.21	97.6	66	31.7	20.5	737	5.92	5.3	0.5	<0.2	4.2	4.5	0.05	0.20	0.50	35	<0.01	0.052
1098599	Soil			1.25	25.26	43.82	738.8	240	35.9	14.1	6630	11.59	13.5	3.7	5.1	6.2	20.8	0.48	0.84	0.34	35	0.33	0.110



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1098570	Soil	7.9	21.6	0.28	94.1	0.005	2	1.50	0.002	0.10	0.1	3.0	0.13	<0.02	23	0.1	0.07	3.8	1.84	<0.1	<0.02
1098571	Soil	6.5	19.9	0.31	85.7	0.004	2	1.11	0.005	0.09	<0.1	2.8	0.13	<0.02	46	0.1	0.03	3.2	1.14	<0.1	0.03
1098572	Soil	8.5	21.1	0.49	149.9	0.003	4	1.28	0.006	0.14	<0.1	4.9	0.13	0.03	99	<0.1	<0.02	4.0	3.15	<0.1	0.06
1098573	Soil	8.7	14.2	0.65	58.1	0.002	3	0.92	0.006	0.08	<0.1	4.0	0.12	0.03	127	0.2	<0.02	2.3	1.04	<0.1	0.05
1098574	Soil	5.4	8.7	2.35	56.8	0.003	5	0.58	0.007	0.09	<0.1	2.9	0.10	0.03	132	0.3	<0.02	1.4	1.11	<0.1	0.04
1098575	Soil	6.2	8.0	6.73	48.1	0.002	2	0.36	0.010	0.06	<0.1	1.9	0.18	0.02	673	0.6	0.06	1.0	0.45	<0.1	0.05
1098576	Soil	7.0	6.6	6.02	53.2	0.002	1	0.34	0.009	0.04	<0.1	1.9	0.08	0.03	445	0.4	0.03	0.8	0.23	<0.1	0.05
1098577	Soil	2.1	4.2	5.17	27.0	0.003	2	0.21	0.007	0.02	<0.1	0.4	0.04	<0.02	50	0.2	<0.02	0.5	0.18	<0.1	<0.02
1098578	Soil	2.6	5.7	7.61	36.8	0.003	3	0.28	0.011	0.03	<0.1	0.4	0.04	0.03	54	0.3	<0.02	0.6	0.24	<0.1	<0.02
1098579	Soil	6.3	12.6	4.80	71.0	0.003	5	0.89	0.010	0.05	<0.1	1.2	0.08	0.06	103	0.4	<0.02	1.4	0.46	<0.1	0.04
1098580	Soil	5.8	11.3	0.17	74.1	0.003	3	0.72	0.003	0.17	<0.1	2.3	0.09	<0.02	30	<0.1	0.04	2.3	1.04	<0.1	<0.02
1098581	Soil	4.7	19.6	0.19	179.8	0.002	2	0.92	0.007	0.12	<0.1	2.7	0.16	0.05	97	0.3	0.04	3.2	1.13	<0.1	0.10
1098582	Soil	7.9	25.8	0.58	308.8	0.006	3	1.81	0.005	0.20	<0.1	7.4	0.23	<0.02	58	<0.1	<0.02	5.8	9.20	<0.1	0.03
1098583	Soil	7.2	39.2	0.51	179.7	0.011	4	1.82	0.005	0.30	<0.1	6.9	0.22	0.04	37	<0.1	<0.02	6.8	6.34	<0.1	0.03
1098584	Soil	3.7	7.7	5.16	58.3	0.002	3	0.41	0.009	0.07	<0.1	1.4	0.10	0.04	133	0.3	<0.02	1.2	1.07	<0.1	0.04
1098585	Soil	4.8	31.9	0.31	167.1	0.004	1	1.78	0.007	0.13	0.1	2.9	0.15	0.02	25	0.1	0.02	7.4	2.71	<0.1	0.04
1098586	Soil	6.6	36.9	0.36	91.2	0.004	1	2.06	0.007	0.09	<0.1	3.1	0.11	0.02	27	0.2	0.02	7.0	3.18	<0.1	0.04
1098587	Soil	8.9	42.1	0.40	106.0	0.003	1	2.25	0.011	0.12	<0.1	5.1	0.17	0.03	44	0.2	<0.02	8.4	4.86	<0.1	0.08
1098588	Soil	4.7	41.0	0.61	738.7	0.007	1	2.54	0.010	0.16	<0.1	5.7	0.15	0.04	42	<0.1	<0.02	9.2	8.62	<0.1	0.08
1098589	Soil	4.1	38.4	0.42	202.1	0.006	1	1.94	0.007	0.16	0.2	3.0	0.13	0.02	23	<0.1	<0.02	7.0	2.15	<0.1	0.05
1098590	Soil	7.4	38.6	0.62	159.2	0.011	1	2.13	0.006	0.16	0.1	3.3	0.15	<0.02	27	0.2	<0.02	7.4	2.44	<0.1	0.03
1098591	Soil	3.5	39.6	0.46	119.5	0.008	2	1.89	0.008	0.20	0.1	3.2	0.19	<0.02	16	<0.1	<0.02	6.3	4.18	<0.1	0.03
1098592	Soil	6.3	30.7	0.29	147.7	0.003	<1	2.34	0.007	0.11	<0.1	3.9	0.14	0.03	39	<0.1	0.02	7.7	3.53	<0.1	0.07
1098593	Soil	4.5	48.5	0.66	69.3	0.002	<1	2.47	0.007	0.08	<0.1	3.7	0.13	<0.02	19	0.2	<0.02	8.7	3.15	<0.1	0.06
1098594	Soil	6.4	40.9	0.67	162.6	0.004	<1	2.18	0.008	0.10	<0.1	3.7	0.10	<0.02	23	<0.1	<0.02	7.4	1.97	<0.1	0.04
1098595	Soil	4.1	39.8	0.43	95.7	0.004	1	2.28	0.009	0.13	<0.1	3.1	0.12	0.05	34	0.2	<0.02	8.0	2.58	<0.1	0.06
1098596	Soil	9.1	34.9	0.64	140.5	0.014	<1	1.89	0.008	0.13	0.1	3.3	0.12	<0.02	6	0.2	<0.02	6.1	3.59	<0.1	0.04
1098597	Soil	2.4	35.3	0.49	191.6	0.002	<1	2.28	0.006	0.11	<0.1	3.1	0.10	0.02	19	<0.1	<0.02	8.5	2.11	<0.1	0.04
1098598	Soil	4.7	44.2	0.45	52.7	0.001	<1	2.32	0.006	0.09	<0.1	4.1	0.11	<0.02	30	0.2	<0.02	8.7	2.78	<0.1	0.07
1098599	Soil	22.9	32.8	0.40	312.5	0.003	3	1.99	0.003	0.07	0.1	5.5	0.20	<0.02	359	0.5	<0.02	4.0	2.02	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 22, 2011

Page: 10 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1098570	Soil	0.53	14.3	1.1	<0.05	0.6	4.41	22.1	0.03	<1	0.9	14.1	<10	<2
1098571	Soil	0.31	9.2	3.0	<0.05	1.5	3.65	16.5	0.04	<1	0.6	16.5	<10	<2
1098572	Soil	0.29	13.1	6.0	<0.05	1.9	12.87	18.9	0.04	<1	1.2	22.4	<10	<2
1098573	Soil	0.16	6.7	1.2	<0.05	2.0	11.89	20.7	<0.02	<1	0.8	17.1	<10	<2
1098574	Soil	0.16	6.9	0.8	<0.05	1.4	6.19	14.7	<0.02	<1	0.5	11.3	<10	<2
1098575	Soil	0.07	3.3	2.0	<0.05	1.4	9.95	13.0	<0.02	<1	0.4	3.0	<10	<2
1098576	Soil	0.05	2.2	2.2	<0.05	1.2	9.00	13.5	<0.02	<1	0.3	2.4	<10	<2
1098577	Soil	0.05	1.7	3.0	<0.05	0.4	2.48	4.7	<0.02	<1	0.3	1.8	<10	<2
1098578	Soil	0.05	2.2	3.0	<0.05	0.3	3.19	5.7	<0.02	<1	0.3	2.2	<10	<2
1098579	Soil	0.11	5.0	4.0	<0.05	1.1	8.16	13.7	0.02	<1	0.6	4.7	<10	<2
1098580	Soil	0.14	10.8	3.0	<0.05	0.8	3.15	14.8	0.02	<1	0.6	5.7	<10	<2
1098581	Soil	0.18	8.8	6.2	<0.05	2.8	8.27	15.4	0.06	<1	0.6	4.4	<10	<2
1098582	Soil	0.07	23.3	5.8	<0.05	1.8	22.10	29.3	0.06	<1	1.6	38.3	<10	<2
1098583	Soil	0.31	28.1	7.6	<0.05	0.7	9.76	25.2	0.07	<1	2.1	29.7	<10	<2
1098584	Soil	0.08	4.6	1.2	<0.05	1.0	6.47	8.9	<0.02	<1	0.6	4.8	<10	<2
1098585	Soil	0.80	22.2	2.4	<0.05	1.2	5.05	11.5	0.05	<1	1.1	16.6	<10	<2
1098586	Soil	0.64	14.9	5.3	<0.05	1.7	3.32	16.2	0.04	<1	1.4	39.7	<10	<2
1098587	Soil	0.37	19.6	3.8	<0.05	2.4	7.84	27.4	0.05	<1	2.1	39.8	<10	<2
1098588	Soil	0.51	23.5	4.9	<0.05	1.8	6.45	15.7	0.05	<1	3.0	41.6	<10	2
1098589	Soil	0.85	20.8	3.6	<0.05	1.7	2.93	9.6	0.03	<1	1.4	26.7	<10	<2
1098590	Soil	0.57	20.5	1.8	<0.05	1.9	3.56	16.3	0.04	<1	1.2	38.1	<10	<2
1098591	Soil	0.66	26.7	3.2	<0.05	1.6	2.96	8.1	0.03	<1	1.1	27.9	<10	<2
1098592	Soil	0.69	18.8	5.7	<0.05	2.1	4.84	14.9	0.04	<1	1.7	46.0	<10	<2
1098593	Soil	0.30	11.8	3.1	<0.05	1.6	3.05	10.6	0.05	<1	1.6	51.5	<10	<2
1098594	Soil	0.21	10.8	3.2	<0.05	1.3	4.59	18.1	0.04	<1	2.0	38.4	<10	<2
1098595	Soil	0.68	19.7	4.3	<0.05	1.9	2.83	9.9	0.04	<1	0.9	34.5	<10	<2
1098596	Soil	0.45	16.7	6.1	<0.05	0.9	4.85	25.3	0.04	<1	1.4	31.3	<10	<2
1098597	Soil	0.44	15.8	3.1	<0.05	1.7	3.12	6.0	0.02	<1	1.3	34.4	<10	<2
1098598	Soil	0.30	14.5	1.9	<0.05	2.3	3.95	13.4	0.04	<1	1.1	49.2	<10	<2
1098599	Soil	0.29	10.0	2.3	<0.05	2.0	21.70	70.3	0.06	<1	2.0	21.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1098600	Soil	0.46	18.61	23.19	61.4	76	15.4	9.1	884	2.56	18.5	1.0	5.6	1.1	25.4	0.15	1.31	0.25	13	7.98	0.104
1097196	Soil	0.53	9.62	32.39	59.4	105	12.5	5.8	2318	2.92	12.3	0.9	1.1	0.8	20.5	0.34	1.83	0.17	27	5.26	0.136
1097197	Soil	0.61	11.70	25.92	74.4	107	16.5	7.9	2478	3.56	17.1	1.1	4.0	1.1	24.8	0.36	1.32	0.23	35	5.65	0.119
1097198	Soil	0.37	21.92	54.20	32.5	222	19.7	9.2	1807	3.67	30.5	1.3	7.6	1.7	26.7	0.16	2.93	0.28	10	9.77	0.110
1097199	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1097200	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1098701	Soil	0.55	13.44	26.69	65.6	67	23.3	10.8	358	3.77	8.8	0.9	0.2	7.1	34.7	0.09	0.32	0.32	22	0.34	0.016
1098702	Soil	0.54	19.66	26.48	78.2	235	26.1	9.8	474	3.00	7.9	1.0	1.2	2.9	30.9	0.08	0.27	0.33	13	0.78	0.056
1098703	Soil	0.46	21.49	24.07	70.7	100	24.4	9.5	267	3.11	8.6	0.5	0.7	3.4	72.0	0.10	0.29	0.30	17	1.06	0.037
1098704	Soil	0.45	21.32	24.31	71.5	116	24.1	9.9	261	3.17	8.8	0.8	0.9	3.5	34.2	0.05	0.32	0.30	16	0.62	0.037
1098705	Soil	0.37	25.40	27.26	66.2	208	27.5	10.4	233	3.21	9.9	0.9	1.3	3.0	69.5	0.06	0.36	0.34	16	1.32	0.047
1098706	Soil	0.40	22.57	24.40	44.5	151	24.2	9.0	434	3.32	7.4	0.8	1.1	1.8	93.9	0.18	0.28	0.31	22	1.68	0.060
1098707	Soil	0.62	24.38	27.10	72.2	160	24.6	13.4	372	3.30	8.1	0.9	0.9	5.7	116.4	0.12	0.33	0.35	17	1.80	0.047
1098708	Soil	0.42	21.49	18.99	60.3	51	22.3	10.2	340	3.00	8.4	0.7	2.7	2.9	49.8	0.06	0.31	0.28	22	0.60	0.025
1098709	Soil	0.82	17.74	71.90	89.1	147	28.3	8.9	1488	4.95	35.5	1.3	2.2	2.9	7.6	0.12	2.76	0.35	25	0.21	0.066
1098710	Soil	0.43	11.87	21.78	20.2	42	17.2	8.8	139	2.40	479.5	0.4	59.1	2.9	8.8	0.04	2.16	0.45	11	0.03	0.020
1098711	Soil	0.92	16.49	29.25	70.6	37	25.8	11.0	644	3.93	78.0	0.8	1.9	3.7	10.7	0.11	0.91	0.36	34	0.10	0.026
1098712	Soil	0.67	16.12	29.35	86.0	162	19.5	9.6	1326	3.52	16.5	0.8	2.6	2.3	36.2	0.25	0.93	0.25	24	5.58	0.077
1098713	Soil	0.65	19.00	33.64	87.6	61	22.8	12.2	725	3.85	13.3	0.7	0.6	3.0	21.7	0.20	0.81	0.34	27	0.40	0.043
1098714	Soil	0.53	20.17	39.77	75.7	165	24.9	11.7	903	3.66	14.9	0.8	1.4	5.0	42.1	0.14	0.96	0.34	20	2.69	0.038
1098715	Soil	0.56	20.77	25.30	69.7	42	26.3	11.3	354	3.30	8.8	0.6	0.4	4.3	21.0	0.05	0.42	0.28	22	0.17	0.018
1098716	Soil	0.55	18.63	26.15	154.7	41	22.4	11.1	446	3.21	9.1	0.5	0.6	3.7	24.9	0.13	0.37	0.30	21	0.26	0.020
1098717	Soil	0.46	23.86	30.47	98.5	288	29.3	11.0	218	4.38	5.9	0.3	<0.2	2.6	9.6	0.10	0.26	0.40	17	0.04	0.035
1098718	Soil	0.58	28.17	42.80	99.2	117	37.7	14.4	337	4.31	9.7	1.3	0.5	4.3	51.2	0.11	0.31	0.42	19	0.64	0.039
1098719	Soil	0.60	25.05	41.35	98.4	91	38.3	23.9	408	4.10	13.4	0.7	0.5	4.0	25.7	0.08	0.43	0.37	20	0.23	0.021
1098720	Soil	0.66	33.52	42.38	99.8	152	38.6	13.9	232	4.02	14.2	0.5	1.2	3.6	61.9	0.09	0.48	0.40	13	0.82	0.027
1098721	Soil	0.48	17.51	29.32	26.7	40	23.5	8.3	111	2.31	24.7	0.5	<0.2	1.9	3.6	0.04	1.04	0.40	9	0.04	0.013
1098722	Soil	0.43	9.10	45.06	48.2	138	5.6	3.1	1883	2.61	30.5	1.1	1.6	0.4	80.7	0.15	2.61	0.05	4	17.69	0.107
1098723	Soil	0.44	23.76	24.06	50.4	122	22.3	12.6	1380	3.17	63.0	0.7	6.5	1.3	66.3	0.20	1.96	0.30	20	8.31	0.096
1098724	Soil	0.45	17.56	28.56	37.3	187	21.0	11.0	1824	3.49	46.3	0.8	8.8	1.5	36.1	0.16	1.90	0.26	18	6.11	0.095



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1098600	Soil	4.7	11.3	4.09	71.7	0.003	4	0.69	0.007	0.10	<0.1	1.8	0.10	0.04	117	0.3	0.05	1.9	1.42	<0.1	0.06
1097196	Soil	12.5	18.1	2.87	81.8	0.006	3	1.24	0.005	0.04	<0.1	1.6	0.08	0.06	84	0.4	0.03	2.6	0.49	<0.1	0.04
1097197	Soil	11.7	20.5	3.08	120.8	0.010	3	1.48	0.006	0.05	0.1	2.0	0.12	0.05	77	0.5	0.04	3.5	0.72	<0.1	0.04
1097198	Soil	7.9	9.5	4.57	35.7	0.002	4	0.40	0.008	0.06	<0.1	2.5	0.16	0.02	395	0.5	0.13	1.2	0.36	<0.1	0.06
1097199	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1097200	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1098701	Soil	15.5	16.8	0.19	128.1	0.004	4	1.30	0.003	0.13	<0.1	4.9	0.16	<0.02	26	0.2	0.03	3.3	2.28	<0.1	0.05
1098702	Soil	9.8	13.4	0.26	133.3	0.002	4	0.86	0.004	0.10	<0.1	3.6	0.16	0.04	82	0.3	<0.02	2.4	1.96	<0.1	0.03
1098703	Soil	7.3	17.5	0.29	98.3	0.002	5	1.08	0.003	0.10	<0.1	4.5	0.10	0.03	61	0.2	0.03	3.2	0.95	<0.1	0.06
1098704	Soil	6.3	16.6	0.23	98.6	0.002	4	0.98	0.003	0.09	<0.1	4.1	0.09	0.03	68	0.3	0.03	2.8	1.22	<0.1	0.06
1098705	Soil	8.2	15.6	0.27	104.2	0.002	4	1.01	0.003	0.11	<0.1	4.4	0.08	0.04	104	0.4	0.02	2.8	1.24	<0.1	0.05
1098706	Soil	9.5	16.1	0.17	185.8	0.002	3	1.22	0.004	0.09	<0.1	3.1	0.12	0.05	43	0.3	0.04	3.2	0.78	<0.1	0.05
1098707	Soil	8.5	16.4	0.26	99.3	<0.001	4	1.01	0.004	0.07	<0.1	6.6	0.09	0.05	67	0.4	0.04	2.8	1.14	<0.1	0.08
1098708	Soil	4.8	21.7	0.36	101.3	0.002	3	1.50	0.003	0.09	<0.1	3.1	0.10	0.02	81	0.2	0.04	4.4	1.57	<0.1	0.04
1098709	Soil	10.5	19.2	0.13	113.2	<0.001	1	1.33	<0.001	0.07	<0.1	5.0	0.12	0.02	444	0.4	0.04	2.5	0.44	<0.1	0.06
1098710	Soil	8.0	8.1	0.05	44.2	<0.001	1	0.67	0.001	0.10	<0.1	1.9	0.11	<0.02	130	0.2	0.04	1.7	0.54	<0.1	<0.02
1098711	Soil	8.9	21.9	0.27	82.8	0.009	2	1.49	0.002	0.10	0.1	2.5	0.12	<0.02	56	0.3	0.05	3.7	1.34	<0.1	<0.02
1098712	Soil	11.8	18.4	3.00	84.4	0.006	3	1.09	0.006	0.08	0.1	3.6	0.14	0.02	149	0.4	0.03	2.5	1.07	<0.1	0.05
1098713	Soil	6.3	19.3	0.29	73.0	0.004	4	1.30	0.004	0.13	<0.1	2.7	0.21	<0.02	35	0.2	0.05	3.5	1.93	<0.1	0.04
1098714	Soil	17.2	16.7	1.25	83.7	0.002	4	1.01	0.004	0.13	<0.1	6.6	0.29	0.02	217	0.4	0.06	2.6	1.38	<0.1	0.07
1098715	Soil	6.1	18.5	0.26	65.0	0.003	2	1.18	0.002	0.09	<0.1	3.1	0.09	<0.02	37	0.2	0.04	3.0	1.13	<0.1	0.04
1098716	Soil	6.0	18.4	0.24	91.5	0.003	3	1.17	0.002	0.12	<0.1	2.9	0.09	<0.02	133	0.1	0.04	3.2	1.02	<0.1	0.02
1098717	Soil	2.7	17.1	0.23	75.5	<0.001	2	1.36	0.002	0.11	<0.1	3.5	0.12	<0.02	16	0.2	0.04	3.7	3.62	<0.1	<0.02
1098718	Soil	6.6	20.0	0.28	161.5	0.001	4	1.55	0.004	0.12	<0.1	5.9	0.20	0.03	61	0.3	0.04	3.7	3.30	<0.1	0.05
1098719	Soil	4.4	19.5	0.28	104.7	0.001	3	1.40	0.003	0.09	<0.1	4.5	0.17	0.02	47	0.4	0.07	3.3	4.53	<0.1	0.07
1098720	Soil	6.2	14.4	0.23	106.8	0.001	3	0.87	0.004	0.08	<0.1	5.1	0.15	0.03	125	0.3	0.07	2.2	1.59	<0.1	0.05
1098721	Soil	2.5	6.8	0.04	17.8	<0.001	<1	0.36	0.001	0.05	<0.1	2.4	0.07	<0.02	440	0.1	0.02	1.3	0.55	<0.1	<0.02
1098722	Soil	3.2	5.7	8.02	49.6	0.001	4	0.18	0.009	0.03	<0.1	0.8	0.13	<0.02	174	0.4	<0.02	0.5	0.17	<0.1	0.02
1098723	Soil	8.0	13.5	4.12	74.5	0.003	3	0.75	0.007	0.08	<0.1	3.3	0.11	0.02	162	0.4	0.02	1.9	0.88	<0.1	0.04
1098724	Soil	8.1	13.6	3.17	93.5	0.002	3	0.83	0.005	0.07	<0.1	3.2	0.11	0.03	136	0.4	0.03	2.0	0.82	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 11 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1098600	Soil	0.16	6.8	2.2	<0.05	1.5	8.00	10.6	<0.02	<1	0.8	6.7	<10	<2
1097196	Soil	0.21	4.8	1.9	<0.05	1.0	12.41	24.8	0.02	<1	0.8	6.5	<10	<2
1097197	Soil	0.36	6.8	0.9	<0.05	1.0	11.34	23.3	0.02	<1	0.7	8.4	<10	<2
1097198	Soil	0.07	3.3	2.3	<0.05	1.9	9.46	14.9	<0.02	<1	0.3	2.7	<10	<2
1097199	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1097200	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1098701	Soil	0.27	14.4	1.9	<0.05	2.1	11.09	59.0	0.04	<1	1.1	13.2	<10	<2
1098702	Soil	0.22	9.7	1.4	<0.05	1.6	9.76	37.9	0.04	<1	0.9	11.9	<10	<2
1098703	Soil	0.24	8.3	1.3	<0.05	1.9	11.22	19.3	0.04	<1	1.0	25.7	<10	<2
1098704	Soil	0.19	8.4	1.7	<0.05	1.9	8.89	19.4	0.04	<1	0.8	18.6	<10	<2
1098705	Soil	0.20	7.6	2.4	<0.05	1.9	13.51	19.4	0.04	<1	0.9	20.9	<10	<2
1098706	Soil	0.35	8.0	1.3	<0.05	1.7	10.73	27.7	0.04	<1	1.0	13.8	<10	<2
1098707	Soil	0.20	6.6	2.9	<0.05	3.1	18.89	26.4	0.05	<1	1.1	24.7	<10	<2
1098708	Soil	0.32	12.4	2.1	<0.05	2.0	5.22	12.3	0.03	<1	0.8	35.3	<10	<2
1098709	Soil	0.12	7.4	1.8	<0.05	1.6	13.24	19.7	0.04	<1	0.9	4.5	<10	<2
1098710	Soil	0.13	8.7	1.5	<0.05	0.7	2.38	17.6	0.02	<1	0.3	2.8	<10	<2
1098711	Soil	0.51	10.0	1.2	<0.05	0.8	3.66	27.1	0.04	<1	0.8	20.1	<10	<2
1098712	Soil	0.23	7.0	1.8	<0.05	1.3	12.50	25.4	0.03	<1	0.9	13.8	<10	<2
1098713	Soil	0.32	14.0	1.2	<0.05	1.1	3.84	19.4	0.03	<1	0.9	20.1	<10	<2
1098714	Soil	0.21	10.8	2.5	<0.05	2.0	22.47	34.0	0.04	<1	1.1	11.9	<10	<2
1098715	Soil	0.18	8.8	1.2	<0.05	1.7	4.25	20.5	0.04	<1	1.0	22.0	<10	<2
1098716	Soil	0.22	10.7	1.4	<0.05	1.4	3.87	17.7	0.03	<1	0.8	21.2	<10	<2
1098717	Soil	0.11	13.2	1.5	<0.05	0.8	2.67	6.6	0.04	<1	1.0	41.9	<10	<2
1098718	Soil	0.19	11.6	2.7	<0.05	2.3	13.15	20.4	0.05	<1	1.3	43.4	<10	<2
1098719	Soil	0.22	12.2	2.4	<0.05	2.5	6.07	13.0	0.05	<1	1.0	37.9	<10	<2
1098720	Soil	0.13	7.0	2.3	<0.05	2.1	12.75	20.0	0.04	<1	0.8	25.6	<10	<2
1098721	Soil	0.04	5.4	1.3	<0.05	0.4	1.95	5.7	0.02	<1	0.1	0.9	<10	<2
1098722	Soil	0.02	2.0	3.8	<0.05	0.9	4.73	6.2	<0.02	<1	0.4	1.3	<10	<2
1098723	Soil	0.12	6.0	1.5	<0.05	1.2	10.81	16.5	0.03	<1	0.8	5.8	<10	<2
1098724	Soil	0.15	6.4	1.3	<0.05	2.1	11.58	15.0	0.03	<1	1.0	6.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15		
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1098725	Soil	0.61	27.06	30.70	67.7	37	25.0	16.4	486	3.79	33.5	0.5	1.3	2.9	8.7	0.12	1.19	0.38	21	0.16	0.027	
1098726	Soil	0.60	21.61	34.00	85.0	126	27.4	12.5	1188	4.27	18.9	0.9	2.9	4.8	12.9	0.18	0.86	0.36	30	0.62	0.039	
1098727	Soil	0.49	16.78	30.71	62.2	159	20.3	9.6	1734	4.01	14.1	1.0	0.9	3.3	28.0	0.21	0.66	0.26	19	4.25	0.065	
1098728	Soil	0.44	18.97	28.70	111.7	140	20.8	8.4	916	3.40	10.5	0.9	1.3	2.0	55.0	0.32	0.58	0.30	23	1.76	0.065	
1098729	Soil	0.47	23.71	33.56	98.4	130	23.7	11.9	859	3.35	14.2	1.4	0.9	2.5	48.6	0.25	0.64	0.33	17	1.11	0.056	
1096576	Soil	0.67	12.55	29.28	77.0	140	18.4	8.0	2803	4.82	16.6	0.9	3.2	0.9	22.3	0.27	1.06	0.24	41	3.59	0.115	
1096577	Soil	0.78	15.65	35.10	102.6	102	21.4	10.8	3951	5.29	23.5	1.0	2.1	1.5	18.7	0.51	1.53	0.28	42	2.59	0.197	
1096578	Soil	0.74	16.36	39.47	139.0	120	20.2	9.2	4054	7.67	30.5	1.3	2.1	2.1	16.7	0.55	2.59	0.33	41	1.59	0.178	
1096579	Soil	0.54	11.38	22.43	54.4	138	13.8	5.0	1957	3.35	23.7	2.2	4.0	0.8	46.2	0.28	1.62	0.14	17	7.73	0.125	
1096580	Soil	0.80	16.01	56.56	85.3	139	23.4	10.6	3263	5.84	30.6	1.5	0.5	3.1	23.0	0.26	1.29	0.29	21	1.00	0.088	
1096581	Soil	0.65	21.33	31.16	74.4	147	27.0	11.0	560	3.63	11.1	1.4	0.6	3.8	66.4	0.15	0.43	0.41	19	1.11	0.067	
1096582	Soil	0.70	17.45	33.43	72.1	181	24.0	11.1	893	3.96	9.6	0.6	0.9	2.6	22.0	0.21	0.45	0.34	26	0.16	0.047	
1096583	Soil	0.85	23.28	32.44	80.3	126	26.5	13.1	461	3.86	9.3	0.5	0.6	1.9	22.3	0.14	0.48	0.39	24	0.23	0.068	
1096584	Soil	0.63	18.58	24.88	66.2	110	21.8	8.5	174	3.37	9.3	0.3	0.7	2.1	19.1	0.05	0.37	0.28	23	0.13	0.030	
1096585	Soil	0.47	20.80	31.57	67.0	80	24.7	10.5	330	3.69	11.4	0.8	0.6	2.4	51.0	0.14	0.31	0.33	19	1.19	0.044	
1096586	Soil	0.77	19.93	33.36	68.1	111	27.8	11.2	345	3.46	10.4	1.2	0.9	2.6	40.7	0.08	0.37	0.29	19	0.50	0.057	
1096587	Soil	0.58	25.61	29.84	75.2	184	27.5	13.1	418	3.67	11.6	0.8	0.9	3.1	79.7	0.10	0.39	0.32	20	1.12	0.049	
1096588	Soil	0.45	21.73	23.13	59.4	143	22.2	11.2	334	2.91	8.3	1.1	0.6	3.0	60.9	0.12	0.29	0.28	19	0.87	0.048	
1096589	Soil	0.94	33.52	30.04	66.2	292	22.9	14.3	421	3.13	10.5	1.6	0.4	3.4	124.1	0.21	0.44	0.30	21	1.61	0.088	
1096590	Soil	0.83	17.92	37.09	135.1	136	22.9	10.4	4083	6.50	28.5	1.3	1.2	2.0	25.8	0.48	1.72	0.31	54	2.86	0.176	
1096591	Soil	0.59	13.19	16.37	84.5	146	14.2	5.3	4033	4.94	30.5	1.2	1.9	0.6	37.0	0.77	1.59	0.12	26	7.05	0.179	
1096592	Soil	0.67	15.29	27.71	71.0	80	20.1	8.8	1315	3.70	17.9	0.7	0.6	2.8	9.2	0.18	1.07	0.26	32	0.26	0.046	
1096593	Soil	0.47	22.46	31.36	79.1	51	22.7	11.6	540	3.41	13.1	0.7	<0.2	4.3	13.9	0.08	0.62	0.34	17	0.14	0.024	



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1098725	Soil	5.3	16.2	0.21	77.7	0.002	1	0.96	0.002	0.11	<0.1	3.0	0.11	<0.02	33	0.1	0.04	3.4	2.09	<0.1	<0.02
1098726	Soil	14.8	26.1	0.56	136.9	0.003	3	1.66	0.004	0.10	<0.1	5.8	0.13	0.02	133	0.3	0.05	4.2	1.19	<0.1	0.09
1098727	Soil	15.9	15.4	2.32	107.1	0.003	3	1.01	0.006	0.07	<0.1	4.6	0.10	0.03	95	0.3	0.03	2.2	0.97	<0.1	0.06
1098728	Soil	10.5	17.9	0.57	121.8	0.003	3	1.20	0.004	0.09	<0.1	3.4	0.11	0.04	86	0.4	0.05	3.3	0.91	<0.1	0.04
1098729	Soil	9.0	16.2	0.31	81.0	0.002	4	0.97	0.004	0.10	<0.1	4.2	0.12	0.05	472	0.3	0.05	2.7	1.35	<0.1	0.04
1096576	Soil	13.5	25.5	2.04	154.6	0.011	2	1.78	0.004	0.04	<0.1	2.6	0.16	0.07	111	0.6	0.05	4.3	1.12	<0.1	0.05
1096577	Soil	15.5	26.4	1.52	185.5	0.007	4	1.96	0.003	0.06	0.1	2.9	0.14	0.10	115	0.5	0.06	4.4	0.80	<0.1	0.06
1096578	Soil	21.8	24.4	0.71	178.1	0.006	2	1.73	0.007	0.06	<0.1	3.3	0.12	0.10	139	0.7	0.08	4.1	0.44	0.1	0.12
1096579	Soil	7.1	12.6	4.82	68.5	0.006	3	0.67	0.010	0.04	0.1	1.4	0.07	0.05	116	0.6	0.03	1.5	0.32	<0.1	0.04
1096580	Soil	23.2	14.9	0.29	156.2	0.002	2	0.98	0.006	0.06	<0.1	4.7	0.09	0.06	151	0.7	0.05	2.3	0.61	<0.1	0.10
1096581	Soil	16.5	15.0	0.17	195.5	0.002	3	1.06	0.005	0.13	<0.1	4.3	0.13	0.06	59	0.5	<0.02	2.5	1.11	<0.1	0.07
1096582	Soil	7.0	17.1	0.19	224.4	0.005	2	1.09	0.004	0.11	<0.1	2.6	0.11	0.03	34	0.4	<0.02	2.8	0.94	<0.1	0.04
1096583	Soil	5.5	20.8	0.29	106.6	0.006	1	1.15	0.004	0.12	<0.1	2.6	0.10	0.03	15	0.2	<0.02	3.6	2.68	<0.1	0.02
1096584	Soil	4.3	17.2	0.23	85.7	0.003	2	0.99	0.004	0.08	<0.1	1.9	0.07	<0.02	14	0.2	<0.02	3.5	1.08	<0.1	<0.02
1096585	Soil	13.6	11.8	0.13	195.4	0.002	1	0.82	0.006	0.08	<0.1	3.9	0.09	0.03	18	0.4	0.04	1.8	0.42	<0.1	0.07
1096586	Soil	9.4	19.6	0.27	255.4	0.003	2	1.13	0.005	0.07	<0.1	4.6	0.07	0.03	39	0.4	0.04	2.6	1.47	<0.1	0.04
1096587	Soil	8.5	17.3	0.24	148.4	0.002	4	1.07	0.005	0.07	<0.1	4.3	0.10	0.04	62	0.3	0.03	2.8	1.17	<0.1	0.06
1096588	Soil	7.6	18.7	0.27	134.2	0.002	2	1.23	0.006	0.08	<0.1	4.5	0.07	0.05	92	0.2	0.02	3.2	0.89	<0.1	0.04
1096589	Soil	4.7	23.3	0.29	181.2	0.001	3	1.52	0.006	0.09	<0.1	4.9	0.14	0.09	72	0.6	0.03	3.8	3.92	<0.1	0.07
1096590	Soil	20.6	30.2	1.87	211.1	0.007	3	2.30	0.007	0.05	<0.1	4.4	0.12	0.08	121	0.7	0.06	5.4	0.89	<0.1	0.10
1096591	Soil	10.5	15.0	4.52	121.3	0.006	4	1.07	0.008	0.04	<0.1	1.6	0.08	0.08	95	0.7	<0.02	2.0	0.35	<0.1	0.05
1096592	Soil	7.6	20.7	0.28	115.6	0.002	<1	1.41	0.004	0.08	<0.1	2.8	0.12	0.02	41	0.2	0.02	3.8	0.90	<0.1	0.05
1096593	Soil	8.0	14.6	0.21	61.0	0.002	2	0.95	0.003	0.10	<0.1	4.0	0.10	<0.02	77	0.1	0.02	2.5	0.79	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 12 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001189.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1098725	Soil	0.26	10.5	1.7	<0.05	1.0	3.95	13.3	0.03	<1	0.9	15.4	<10	<2
1098726	Soil	0.30	9.9	2.0	<0.05	2.9	16.43	23.6	0.03	<1	1.1	21.1	<10	<2
1098727	Soil	0.19	6.5	1.5	<0.05	1.8	16.20	27.3	0.03	<1	0.8	12.8	<10	<2
1098728	Soil	0.32	8.8	1.1	<0.05	1.3	9.87	19.6	0.03	<1	0.9	15.4	<10	<2
1098729	Soil	0.22	9.6	1.4	<0.05	1.4	11.09	26.9	0.03	<1	1.0	16.7	<10	<2
1096576	Soil	0.36	7.3	1.3	<0.05	1.2	12.30	23.2	0.03	<1	1.1	12.1	<10	<2
1096577	Soil	0.29	7.3	0.8	<0.05	1.6	18.85	34.9	0.03	<1	1.0	11.9	<10	<2
1096578	Soil	0.42	6.4	1.6	<0.05	3.2	22.56	39.3	0.05	<1	0.7	8.0	<10	<2
1096579	Soil	0.16	3.2	3.0	<0.05	1.2	9.22	14.3	<0.02	<1	0.5	5.1	<10	<2
1096580	Soil	0.19	4.4	2.7	<0.05	2.3	27.17	47.8	0.03	<1	1.5	5.4	<10	<2
1096581	Soil	0.32	10.5	1.5	<0.05	2.0	12.65	53.5	0.04	<1	1.3	8.2	<10	<2
1096582	Soil	0.38	12.8	3.4	<0.05	1.1	5.20	22.9	0.03	<1	0.8	12.3	<10	<2
1096583	Soil	0.28	15.7	2.9	<0.05	0.8	3.81	12.0	0.03	<1	0.8	28.4	<10	<2
1096584	Soil	0.26	9.0	2.4	<0.05	0.7	2.13	8.7	0.03	<1	0.6	29.9	<10	<2
1096585	Soil	0.17	6.1	1.3	<0.05	2.1	17.18	36.2	0.05	<1	1.0	7.7	<10	<2
1096586	Soil	0.25	8.1	5.7	<0.05	1.7	15.95	26.2	0.04	<1	1.2	24.2	<10	<2
1096587	Soil	0.26	7.0	1.4	<0.05	2.5	13.43	22.0	0.04	<1	1.0	21.6	<10	<2
1096588	Soil	0.26	6.7	1.7	<0.05	1.6	11.01	19.0	0.04	1	1.3	27.3	<10	<2
1096589	Soil	0.29	12.5	1.9	<0.05	1.9	11.98	15.0	0.04	<1	1.3	41.9	<10	<2
1096590	Soil	0.40	7.6	1.4	<0.05	2.8	21.96	34.6	0.04	<1	1.0	13.1	<10	<2
1096591	Soil	0.15	3.9	1.0	<0.05	1.3	14.53	17.9	<0.02	<1	0.7	4.7	<10	<2
1096592	Soil	0.30	10.8	2.2	<0.05	1.9	4.99	18.9	0.02	<1	1.0	13.4	<10	<2
1096593	Soil	0.14	8.7	1.0	<0.05	1.7	7.49	24.8	<0.02	<1	0.9	14.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: September 22, 2011

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001189.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
1097702	Soil	0.65	12.66	18.57	66.8	34	17.6	7.1	229	3.10	13.5	0.4	2.0	2.5	8.5	0.10	0.63	0.24	28	0.09	0.023
REP 1097702	QC	0.69	14.21	19.35	70.6	35	18.8	7.8	248	3.37	14.2	0.4	2.5	2.8	9.0	0.12	0.66	0.26	30	0.09	0.023
1097722	Soil	0.46	24.06	22.97	86.6	171	22.4	8.5	336	3.01	10.7	1.8	1.3	1.0	67.0	0.48	0.50	0.27	24	1.97	0.070
REP 1097722	QC	0.42	23.92	21.41	84.9	152	21.7	8.2	315	2.91	10.3	1.7	1.1	1.0	64.2	0.44	0.45	0.26	23	1.95	0.068
1097759	Soil	0.62	10.86	23.42	55.5	89	15.5	9.5	2868	4.35	12.4	0.8	0.9	1.7	21.2	0.30	0.68	0.25	33	2.52	0.085
REP 1097759	QC	0.61	10.98	23.31	55.8	86	15.9	9.2	2892	4.40	12.6	0.8	0.9	1.6	20.9	0.30	0.69	0.25	35	2.57	0.083
1097783	Soil	0.57	17.15	29.36	109.0	104	19.0	9.4	1538	4.40	11.4	1.1	1.3	2.5	27.7	0.43	0.57	0.27	22	2.10	0.078
REP 1097783	QC	0.55	16.18	27.40	102.2	100	18.1	9.4	1485	4.30	11.8	1.1	1.5	2.2	26.3	0.42	0.55	0.26	23	1.97	0.074
1097787	Soil	0.52	26.70	28.92	72.6	71	26.1	15.3	610	3.48	18.6	1.1	2.6	3.5	14.1	0.12	0.59	0.43	21	0.85	0.035
REP 1097787	QC	0.47	26.79	27.42	70.6	70	25.2	15.0	592	3.43	19.0	1.1	2.6	3.4	13.7	0.09	0.58	0.40	20	0.82	0.034
1097813	Soil	1.26	19.89	44.91	249.7	176	26.2	9.0	1606	4.41	54.0	2.0	7.0	2.8	26.3	0.41	4.97	0.29	24	6.16	0.088
REP 1097813	QC	1.26	20.88	45.25	246.6	184	27.2	9.4	1665	4.44	53.6	2.0	7.0	2.8	26.2	0.41	4.94	0.30	25	6.02	0.088
1096788	Soil	0.54	13.52	43.85	212.7	128	20.0	7.5	2206	5.07	34.6	0.9	2.5	1.8	23.3	0.37	1.87	0.23	24	4.43	0.120
REP 1096788	QC	0.54	14.26	46.17	213.0	133	20.9	8.1	2313	5.36	37.1	0.9	2.7	1.9	24.0	0.40	1.98	0.23	25	4.69	0.122
1097507	Soil	0.41	24.30	16.93	54.5	138	25.8	8.6	284	2.05	6.5	1.4	0.9	0.6	175.3	0.09	0.34	0.20	8	2.71	0.056
REP 1097507	QC	0.44	24.64	17.87	53.5	133	26.1	8.7	298	2.15	6.7	1.4	0.7	0.7	170.9	0.08	0.33	0.19	9	2.61	0.053
1097520	Soil	0.60	18.18	13.12	35.2	33	15.8	11.6	285	2.93	15.8	0.2	0.3	1.0	3.8	0.06	0.47	0.38	20	0.05	0.021
REP 1097520	QC	0.65	19.63	13.14	38.4	29	16.8	11.7	284	2.96	16.3	0.3	<0.2	1.1	4.1	0.06	0.48	0.40	20	0.05	0.023
1097538	Soil	0.57	15.63	65.91	9790	398	13.9	6.1	1913	3.96	18.0	1.5	14.7	1.3	30.1	13.41	3.85	0.15	16	7.03	0.105
REP 1097538	QC	0.59	16.32	67.14	>10000	434	15.0	6.8	2091	4.21	19.6	1.6	17.3	1.3	31.3	14.00	4.09	0.16	17	7.54	0.111
1098510	Soil	0.28	5.08	14.80	29.5	48	4.9	2.2	1446	1.84	17.1	1.1	1.2	0.2	90.4	0.11	0.75	0.05	7	16.71	0.111
REP 1098510	QC	0.28	5.21	15.47	30.5	53	5.9	2.4	1472	1.87	18.0	1.0	1.0	0.2	92.6	0.12	0.72	0.05	7	16.87	0.112
1098530	Soil	0.64	19.32	26.07	70.2	59	27.4	11.7	277	3.37	9.7	0.7	<0.2	3.5	21.5	0.05	0.36	0.28	20	0.19	0.031
REP 1098530	QC	0.63	19.42	26.41	69.8	55	28.0	11.6	274	3.32	9.5	0.7	<0.2	3.4	21.3	0.05	0.35	0.30	20	0.18	0.031
1098554	Soil	0.68	31.48	40.08	101.2	184	33.6	17.0	527	3.97	9.9	0.7	0.7	3.6	113.4	0.20	0.38	0.38	14	2.71	0.063
REP 1098554	QC	0.81	35.51	48.10	115.0	218	37.6	18.7	592	4.48	11.0	0.8	0.8	4.2	130.5	0.20	0.43	0.43	16	2.91	0.068
1098557	Soil	0.51	17.24	25.35	68.9	161	17.6	7.7	934	2.95	18.5	1.0	8.9	1.5	39.4	0.17	1.94	0.26	18	7.31	0.107
REP 1098557	QC	0.54	17.64	25.26	69.1	164	17.1	7.5	894	2.88	18.8	1.0	6.7	1.5	40.3	0.18	2.00	0.25	17	7.27	0.109

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001189.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15		
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
1097702	Soil	6.8	17.6	0.27	58.1	0.006	2	1.03	0.004	0.08	<0.1	2.0	0.08	0.02	51	<0.1	0.02	3.2	1.03	<0.1	<0.02
REP 1097702	QC	7.1	19.0	0.28	59.1	0.004	2	1.07	0.004	0.08	<0.1	2.1	0.08	<0.02	54	0.1	0.05	3.4	1.03	<0.1	<0.02
1097722	Soil	7.9	19.9	0.33	167.6	0.003	6	1.37	0.006	0.10	<0.1	2.9	0.08	0.06	149	0.5	0.03	3.6	0.94	<0.1	0.03
REP 1097722	QC	7.4	20.0	0.31	153.9	0.003	5	1.38	0.006	0.11	<0.1	2.9	0.08	0.06	126	0.5	0.04	3.6	0.92	<0.1	0.02
1097759	Soil	13.4	21.8	1.28	142.1	0.005	4	1.51	0.004	0.08	<0.1	3.1	0.12	0.04	76	0.3	0.04	3.6	0.93	<0.1	0.04
REP 1097759	QC	13.6	21.6	1.33	142.2	0.006	5	1.59	0.005	0.09	<0.1	3.1	0.13	0.04	89	0.3	0.04	3.7	1.04	<0.1	0.04
1097783	Soil	10.5	18.1	0.98	134.8	0.002	2	1.29	0.004	0.07	<0.1	3.5	0.11	0.04	66	0.3	0.04	3.0	0.82	<0.1	0.06
REP 1097783	QC	10.6	18.4	0.91	131.7	0.003	3	1.33	0.004	0.08	<0.1	3.6	0.11	0.04	71	0.3	0.05	2.9	0.96	<0.1	0.04
1097787	Soil	7.6	22.9	0.61	114.1	0.003	3	1.29	0.003	0.09	<0.1	4.5	0.11	0.03	186	0.3	0.04	3.8	1.51	<0.1	0.04
REP 1097787	QC	7.4	22.1	0.60	113.5	0.003	3	1.26	0.003	0.09	<0.1	4.4	0.10	0.03	172	0.3	0.03	3.8	1.52	<0.1	0.06
1097813	Soil	10.3	26.4	2.88	121.2	0.003	6	1.07	0.006	0.08	<0.1	3.4	0.20	<0.02	293	0.6	0.09	2.7	0.58	<0.1	0.06
REP 1097813	QC	10.1	26.5	2.93	124.1	0.004	7	1.11	0.006	0.09	<0.1	3.4	0.21	<0.02	300	0.5	0.13	2.7	0.61	<0.1	0.05
1096788	Soil	10.9	19.6	2.12	100.4	0.003	5	1.23	0.003	0.08	<0.1	2.8	0.12	0.06	135	0.5	0.06	2.9	0.58	<0.1	0.07
REP 1096788	QC	11.5	20.6	2.24	105.8	0.004	5	1.32	0.003	0.08	<0.1	2.9	0.12	0.06	121	0.6	0.05	3.0	0.61	<0.1	0.09
1097507	Soil	2.9	10.1	0.18	174.3	0.001	4	0.64	0.006	0.05	<0.1	1.4	0.09	0.10	117	0.4	0.02	1.5	1.17	<0.1	0.04
REP 1097507	QC	2.9	10.3	0.18	181.0	0.001	4	0.59	0.005	0.05	<0.1	1.5	0.08	0.10	104	0.5	0.03	1.4	1.21	<0.1	0.03
1097520	Soil	3.7	8.0	0.05	55.8	0.002	<1	0.35	0.001	0.09	<0.1	1.8	0.04	<0.02	25	0.1	0.06	1.9	0.53	<0.1	<0.02
REP 1097520	QC	4.2	8.1	0.05	57.4	0.003	<1	0.39	0.001	0.09	<0.1	1.8	0.05	<0.02	30	<0.1	0.08	2.1	0.67	<0.1	<0.02
1097538	Soil	7.0	11.4	4.59	56.6	0.004	3	0.80	0.008	0.05	0.1	2.1	0.19	0.05	12708	0.8	<0.02	2.8	0.48	<0.1	0.04
REP 1097538	QC	7.5	11.9	4.92	61.7	0.004	4	0.85	0.008	0.05	<0.1	2.2	0.19	0.05	13711	1.0	<0.02	3.1	0.53	<0.1	0.06
1098510	Soil	2.3	4.7	8.62	59.1	0.003	4	0.25	0.010	0.03	<0.1	0.5	0.05	<0.02	57	0.3	<0.02	0.6	0.20	<0.1	0.03
REP 1098510	QC	2.4	5.0	8.70	61.2	0.003	4	0.25	0.010	0.03	<0.1	0.5	0.05	<0.02	61	0.4	<0.02	0.7	0.21	<0.1	<0.02
1098530	Soil	5.8	19.9	0.27	115.0	0.002	1	1.34	0.002	0.09	<0.1	3.2	0.10	<0.02	40	0.2	0.04	3.3	2.00	<0.1	0.03
REP 1098530	QC	5.6	19.1	0.27	116.5	0.002	2	1.31	0.002	0.08	<0.1	3.1	0.10	<0.02	41	0.2	0.03	3.2	1.87	<0.1	0.03
1098554	Soil	5.9	15.6	0.63	95.6	0.001	4	0.85	0.005	0.10	<0.1	5.4	0.15	0.06	130	0.2	0.07	2.2	1.47	<0.1	0.06
REP 1098554	QC	6.7	17.6	0.73	107.6	0.002	4	1.09	0.005	0.12	<0.1	6.2	0.18	0.07	142	0.3	0.03	2.6	1.77	<0.1	0.07
1098557	Soil	6.1	16.1	4.03	62.1	0.005	4	0.87	0.006	0.06	<0.1	2.5	0.12	0.02	135	0.4	0.06	2.0	0.60	<0.1	0.06
REP 1098557	QC	6.2	15.5	3.95	63.4	0.005	3	0.85	0.006	0.06	<0.1	2.4	0.11	0.02	124	0.4	0.06	1.9	0.61	<0.1	0.04

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 1 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001189.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
1097702	Soil	0.43	9.6	2.8	<0.05	0.7	2.35	14.5	<0.02	<1	0.5	17.6	<10	<2
REP 1097702	QC	0.47	9.8	2.9	<0.05	0.8	2.56	15.4	0.03	<1	0.6	17.7	<10	<2
1097722	Soil	0.42	10.3	1.4	<0.05	1.0	8.60	15.8	0.03	<1	0.8	22.6	<10	<2
REP 1097722	QC	0.46	10.3	1.4	<0.05	0.8	8.33	14.5	0.03	<1	0.6	21.8	<10	<2
1097759	Soil	0.40	8.8	1.1	<0.05	1.2	10.93	29.3	0.03	<1	0.8	9.7	<10	<2
REP 1097759	QC	0.40	9.1	1.1	<0.05	1.0	10.87	29.2	0.03	<1	0.9	10.9	<10	<2
1097783	Soil	0.30	8.4	2.7	<0.05	1.6	11.84	24.4	0.04	<1	1.0	18.1	<10	<2
REP 1097783	QC	0.29	8.9	2.3	<0.05	1.3	11.41	24.3	0.04	<1	0.8	19.6	<10	<2
1097787	Soil	0.27	10.4	4.5	<0.05	1.4	9.46	19.4	0.04	<1	1.2	22.8	<10	<2
REP 1097787	QC	0.27	10.1	3.1	<0.05	1.4	9.38	19.1	0.03	<1	1.2	22.6	<10	<2
1097813	Soil	0.27	10.3	3.0	<0.05	1.9	13.59	23.7	0.03	<1	0.6	9.3	<10	<2
REP 1097813	QC	0.26	10.7	3.2	<0.05	1.9	13.64	23.1	0.03	<1	0.6	9.6	<10	<2
1096788	Soil	0.22	6.4	1.2	<0.05	2.2	12.17	22.4	0.03	<1	0.9	8.6	<10	<2
REP 1096788	QC	0.25	6.9	1.1	<0.05	2.2	12.67	23.6	0.03	<1	0.9	8.6	<10	<2
1097507	Soil	0.15	5.0	0.7	<0.05	1.3	6.59	8.5	<0.02	<1	0.7	14.3	<10	<2
REP 1097507	QC	0.14	5.3	0.7	<0.05	1.4	6.51	8.8	0.02	<1	0.5	15.3	<10	<2
1097520	Soil	0.17	5.2	0.8	<0.05	<0.1	1.32	7.8	0.03	<1	0.5	1.0	<10	<2
REP 1097520	QC	0.18	6.3	0.9	<0.05	0.1	1.43	8.9	0.02	<1	0.4	1.3	<10	<2
1097538	Soil	0.15	4.2	0.8	<0.05	1.2	8.70	14.2	0.02	<1	0.3	6.2	<10	<2
REP 1097538	QC	0.18	4.2	0.9	<0.05	1.2	9.18	15.2	0.04	<1	0.4	6.3	<10	<2
1098510	Soil	0.06	3.2	3.2	<0.05	0.5	5.37	5.6	<0.02	<1	0.3	1.8	<10	<2
REP 1098510	QC	0.04	3.2	3.6	<0.05	0.5	5.57	5.9	<0.02	<1	0.2	1.8	<10	<2
1098530	Soil	0.22	9.4	0.8	<0.05	1.4	5.08	16.6	0.04	<1	0.9	37.8	<10	<2
REP 1098530	QC	0.21	8.9	0.8	<0.05	1.5	5.12	16.2	0.03	<1	0.9	35.7	<10	<2
1098554	Soil	0.15	6.3	4.9	<0.05	2.1	12.46	16.2	0.04	<1	0.8	20.7	<10	<2
REP 1098554	QC	0.17	7.7	6.8	<0.05	2.5	14.11	18.1	0.06	<1	1.0	22.5	11	<2
1098557	Soil	0.20	4.2	0.6	<0.05	1.4	8.44	12.2	0.03	<1	0.7	11.3	<10	<2
REP 1098557	QC	0.18	4.3	0.6	<0.05	1.4	8.58	12.5	<0.02	<1	0.6	11.6	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001189.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1098593	Soil	0.62	41.85	31.86	95.3	64	35.5	16.9	520	5.58	6.0	0.5	0.3	4.3	5.0	0.03	0.14	0.50	33	<0.01	0.036
REP 1098593	QC	0.62	43.19	31.96	92.7	64	37.2	16.7	537	5.65	6.0	0.5	0.4	4.3	5.0	0.03	0.14	0.51	34	<0.01	0.037
1098709	Soil	0.82	17.74	71.90	89.1	147	28.3	8.9	1488	4.95	35.5	1.3	2.2	2.9	7.6	0.12	2.76	0.35	25	0.21	0.066
REP 1098709	QC	0.81	18.01	72.69	93.0	145	28.8	9.2	1528	5.02	35.8	1.3	3.7	2.9	7.7	0.15	2.75	0.36	25	0.21	0.069
1098728	Soil	0.44	18.97	28.70	111.7	140	20.8	8.4	916	3.40	10.5	0.9	1.3	2.0	55.0	0.32	0.58	0.30	23	1.76	0.065
REP 1098728	QC	0.46	17.77	29.05	108.1	131	20.5	8.5	889	3.43	10.8	0.9	1.1	1.9	52.8	0.30	0.57	0.30	23	1.76	0.064
1096583	Soil	0.85	23.28	32.44	80.3	126	26.5	13.1	461	3.86	9.3	0.5	0.6	1.9	22.3	0.14	0.48	0.39	24	0.23	0.068
REP 1096583	QC	0.74	21.84	30.91	76.1	117	25.5	12.4	442	3.76	8.7	0.5	0.9	1.8	21.5	0.14	0.44	0.37	23	0.22	0.061
Reference Materials																					
STD DS8	Standard	12.04	105.3	123.1	297.0	1764	34.3	6.9	569	2.34	28.0	2.7	120.6	6.6	62.5	2.21	5.29	6.61	38	0.67	0.079
STD DS8	Standard	13.50	103.4	133.6	317.4	1894	38.6	7.2	613	2.43	26.8	2.9	124.1	6.8	65.9	2.40	5.47	6.62	41	0.69	0.084
STD DS8	Standard	11.56	100.6	111.2	279.8	1646	33.8	7.1	546	2.19	23.6	2.5	108.4	6.1	56.9	2.00	4.75	5.94	37	0.61	0.073
STD DS8	Standard	13.16	104.2	122.9	302.6	1688	36.0	7.5	601	2.27	25.9	2.8	106.8	6.8	59.0	2.15	5.21	6.54	39	0.73	0.078
STD DS8	Standard	13.72	122.1	108.2	275.3	1616	33.4	6.5	521	2.12	23.5	2.2	98.1	5.4	74.1	1.97	4.49	5.74	35	0.59	0.071
STD DS8	Standard	14.89	119.6	136.6	345.1	1967	42.2	8.4	654	2.66	29.3	3.1	123.5	7.1	70.5	2.57	6.15	7.31	44	0.81	0.087
STD DS8	Standard	12.88	97.69	116.4	285.9	1689	35.8	7.0	591	2.39	26.2	2.7	107.2	6.4	64.9	2.03	5.33	6.33	39	0.70	0.079
STD DS8	Standard	11.64	102.5	114.0	287.9	1641	34.9	7.2	587	2.30	26.4	2.6	102.5	6.3	63.8	2.25	4.88	6.25	42	0.67	0.081
STD DS8	Standard	13.43	109.8	125.6	318.8	1891	39.2	7.8	614	2.48	28.3	3.0	121.5	7.1	62.1	2.21	5.33	6.08	42	0.76	0.077
STD DS8	Standard	12.00	102.3	109.6	309.1	1698	36.0	6.9	600	2.31	27.9	2.5	99.5	6.2	67.4	2.32	5.61	6.21	43	0.71	0.081
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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www.acmelab.com

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001189.1

		1F15 La ppm	1F15 Cr ppm	1F15 Mg %	1F15 Ba ppm	1F15 Ti %	1F15 B ppm	1F15 Al %	1F15 Na %	1F15 K %	1F15 W ppm	1F15 Sc ppm	1F15 Ti ppm	1F15 S %	1F15 Hg ppb	1F15 Se ppm	1F15 Te ppm	1F15 Ga ppm	1F15 Cs ppm	1F15 Ge ppm	1F15 Hf ppm
1098593	Soil	4.5	48.5	0.66	69.3	0.002	<1	2.47	0.007	0.08	<0.1	3.7	0.13	<0.02	19	0.2	<0.02	8.7	3.15	<0.1	0.06
REP 1098593	QC	4.5	46.9	0.66	72.2	0.002	<1	2.49	0.007	0.08	<0.1	3.7	0.12	<0.02	22	0.1	<0.02	8.5	3.27	<0.1	0.04
1098709	Soil	10.5	19.2	0.13	113.2	<0.001	1	1.33	<0.001	0.07	<0.1	5.0	0.12	0.02	444	0.4	0.04	2.5	0.44	<0.1	0.06
REP 1098709	QC	11.2	20.1	0.12	121.2	<0.001	1	1.33	<0.001	0.06	<0.1	5.2	0.12	0.02	502	0.4	0.04	2.6	0.42	<0.1	0.05
1098728	Soil	10.5	17.9	0.57	121.8	0.003	3	1.20	0.004	0.09	<0.1	3.4	0.11	0.04	86	0.4	0.05	3.3	0.91	<0.1	0.04
REP 1098728	QC	9.9	17.9	0.56	117.5	0.003	3	1.18	0.004	0.09	<0.1	3.5	0.11	0.05	75	0.3	0.05	3.2	0.94	<0.1	0.05
1096583	Soil	5.5	20.8	0.29	106.6	0.006	1	1.15	0.004	0.12	<0.1	2.6	0.10	0.03	15	0.2	<0.02	3.6	2.68	<0.1	0.02
REP 1096583	QC	4.9	20.4	0.29	96.5	0.006	3	1.06	0.004	0.11	<0.1	2.7	0.09	0.03	8	0.4	0.02	3.5	2.49	<0.1	0.02
Reference Materials																					
STD DS8	Standard	14.1	115.0	0.60	257.9	0.102	3	0.92	0.101	0.42	2.7	2.1	5.34	0.15	186	4.8	4.51	4.3	2.33	<0.1	0.06
STD DS8	Standard	16.2	124.7	0.62	289.8	0.112	2	1.00	0.108	0.45	3.3	2.3	5.95	0.16	171	5.3	5.30	4.8	2.69	<0.1	0.08
STD DS8	Standard	13.2	107.4	0.54	235.1	0.096	3	0.83	0.088	0.38	2.6	2.0	4.80	0.14	171	4.7	4.34	4.0	2.11	<0.1	0.08
STD DS8	Standard	15.2	116.5	0.59	278.2	0.111	2	0.89	0.091	0.40	3.0	2.2	5.27	0.16	195	4.8	4.75	4.7	2.32	0.2	0.07
STD DS8	Standard	10.6	106.6	0.54	257.1	0.124	2	0.79	0.076	0.36	2.2	1.8	4.77	0.14	180	4.2	4.11	3.7	2.38	<0.1	0.05
STD DS8	Standard	16.9	128.5	0.68	307.3	0.118	3	1.07	0.083	0.48	3.2	2.3	6.08	0.18	230	5.6	5.58	5.0	2.81	0.1	0.07
STD DS8	Standard	15.6	120.5	0.58	273.3	0.117	3	1.00	0.102	0.44	2.9	2.3	5.17	0.15	206	4.5	4.25	4.3	2.23	<0.1	0.07
STD DS8	Standard	14.6	111.0	0.57	252.2	0.113	2	0.86	0.085	0.39	2.6	2.0	4.84	0.15	165	5.1	4.26	4.1	2.26	<0.1	0.06
STD DS8	Standard	16.0	127.3	0.63	271.4	0.120	3	1.03	0.099	0.45	3.1	2.7	5.67	0.16	202	5.4	5.27	5.1	2.61	0.1	0.07
STD DS8	Standard	14.8	113.9	0.58	261.3	0.114	3	0.93	0.095	0.41	2.8	2.1	4.74	0.16	191	4.4	4.37	4.4	2.25	0.1	0.07
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

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www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 22, 2011

Page: 2 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001189.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
1098593	Soil	0.30	11.8	3.1	<0.05	1.6	3.05	10.6	0.05	<1	1.6	51.5	<10	<2
REP 1098593	QC	0.31	11.9	3.2	<0.05	1.8	3.12	11.1	0.04	<1	1.5	51.8	<10	<2
1098709	Soil	0.12	7.4	1.8	<0.05	1.6	13.24	19.7	0.04	<1	0.9	4.5	<10	<2
REP 1098709	QC	0.11	7.1	1.6	<0.05	1.6	13.65	21.0	0.05	<1	0.8	4.7	<10	<2
1098728	Soil	0.32	8.8	1.1	<0.05	1.3	9.87	19.6	0.03	<1	0.9	15.4	<10	<2
REP 1098728	QC	0.32	8.4	1.2	<0.05	1.3	9.59	18.7	0.04	<1	0.9	16.1	<10	<2
1096583	Soil	0.28	15.7	2.9	<0.05	0.8	3.81	12.0	0.03	<1	0.8	28.4	<10	<2
REP 1096583	QC	0.29	15.3	2.4	<0.05	0.8	3.59	11.1	0.04	<1	0.9	26.3	<10	<2
Reference Materials														
STD DS8	Standard	1.06	36.2	6.6	<0.05	1.5	5.54	25.3	2.19	59	5.1	26.8	111	327
STD DS8	Standard	1.24	39.7	6.9	<0.05	1.8	6.61	29.6	2.30	60	4.8	27.3	119	369
STD DS8	Standard	1.21	34.5	5.8	<0.05	1.6	5.15	23.8	1.89	47	4.1	25.4	112	320
STD DS8	Standard	1.35	34.0	6.3	<0.05	1.8	5.66	26.9	1.89	55	4.8	27.9	132	328
STD DS8	Standard	1.05	36.5	5.4	<0.05	1.3	5.28	22.8	1.71	41	4.6	25.0	115	323
STD DS8	Standard	1.51	42.1	7.1	<0.05	1.6	6.53	30.4	2.34	66	5.5	30.7	116	392
STD DS8	Standard	1.63	34.7	6.0	<0.05	1.8	6.11	29.2	1.88	53	4.9	27.6	128	346
STD DS8	Standard	1.26	35.5	6.4	<0.05	1.7	5.31	24.2	2.04	51	4.6	26.5	79	316
STD DS8	Standard	1.51	40.3	6.2	<0.05	1.8	6.73	31.4	2.24	61	5.2	26.7	114	352
STD DS8	Standard	1.34	37.6	6.8	<0.05	2.1	6.11	26.8	2.13	54	5.0	27.6	80	309
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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www.acmelab.com

Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: September 22, 2011

Page: 3 of 3 **Part** 1

QUALITY CONTROL REPORT

WHI11001189.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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QUALITY CONTROL REPORT

WHI11001189.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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Page: 3 of 3 **Part** 3

QUALITY CONTROL REPORT

WHI11001189.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 20, 2011
Report Date: September 24, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001190.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-22
P.O. Number
Number of Samples: 321

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			WHI
1F05	319	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
RJSV	320	Saving all or part of Soil Reject			WHI

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: David Clark
database backup
Simon Ridgway
Scott Turton



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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1096594	Soil	0.76	16.30	23.87	79.0	39	22.4	9.5	374	3.40	13.6	0.6	0.2	4.7	11.9	0.09	0.63	0.30	29	0.18	0.018
1096595	Soil	0.71	20.07	45.58	120.7	231	24.6	10.4	720	3.46	25.1	0.7	2.2	2.0	53.7	0.25	1.78	0.33	22	2.75	0.076
1096596	Soil	0.55	24.99	77.62	209.4	256	29.0	11.5	505	3.19	24.4	0.9	2.3	3.0	58.5	0.27	1.42	0.38	11	2.67	0.048
1096597	Soil	0.54	26.23	37.51	88.2	140	31.4	13.5	491	4.23	10.8	1.0	0.5	5.6	40.1	0.06	0.33	0.35	13	0.27	0.025
1096598	Soil	0.54	14.22	21.02	58.9	112	18.3	8.5	223	2.96	7.6	0.4	0.6	2.8	16.4	0.04	0.29	0.26	17	0.15	0.019
1096599	Soil	0.46	24.76	29.34	87.3	169	30.0	12.5	295	3.75	10.9	0.7	1.4	5.2	41.5	0.06	0.39	0.34	17	0.44	0.032
1096600	Soil	0.45	26.89	28.00	78.0	160	27.2	11.1	313	3.47	10.0	0.7	0.5	3.4	69.8	0.08	0.32	0.37	14	1.16	0.046
1098601	Soil	0.46	18.26	18.83	55.0	121	19.9	8.6	274	2.48	7.6	1.4	1.2	2.0	92.6	0.09	0.36	0.26	18	1.86	0.048
1098602	Soil	0.53	32.58	31.09	75.9	108	29.1	14.5	502	3.83	13.2	0.9	0.9	4.8	39.1	0.07	0.39	0.37	21	0.44	0.021
1098603	Soil	0.39	7.55	14.54	36.1	89	7.9	3.9	1666	1.99	9.3	0.5	<0.2	0.3	50.4	0.31	0.69	0.16	13	10.52	0.135
1098604	Soil	0.75	13.62	29.94	85.5	182	16.8	7.3	1765	2.64	13.2	0.7	2.8	1.0	37.8	0.37	1.21	0.19	23	7.32	0.111
1098605	Soil	0.62	17.97	32.30	69.8	165	20.5	9.4	1545	3.63	16.2	0.8	2.0	1.7	23.0	0.29	1.34	0.26	24	3.39	0.105
1098606	Soil	0.60	16.26	29.34	67.3	161	18.6	9.5	2063	3.66	16.2	0.7	3.1	1.2	25.5	0.38	1.23	0.25	25	4.92	0.113
1098607	Soil	0.72	16.34	31.50	88.3	120	21.2	9.0	1173	4.34	17.7	1.0	2.5	4.1	11.3	0.22	1.15	0.32	34	0.35	0.046
1098608	Soil	0.43	14.14	28.04	75.4	172	16.6	7.5	1710	3.39	19.9	1.1	2.9	1.8	28.1	0.21	1.09	0.20	16	7.81	0.099
1098609	Soil	0.45	19.00	30.29	80.1	124	19.6	8.7	958	3.24	13.5	0.8	1.9	2.2	39.9	0.25	0.74	0.27	14	3.64	0.068
1098610	Soil	0.72	16.81	27.62	99.8	113	20.8	9.3	923	3.26	14.1	1.1	1.5	3.0	23.1	0.23	0.69	0.29	30	0.83	0.050
1098611	Soil	0.52	13.99	35.56	85.2	114	16.0	8.2	1343	4.15	17.0	1.6	0.3	2.5	19.7	0.30	0.71	0.30	21	0.96	0.079
1097901	Soil	0.46	11.84	17.73	54.3	106	13.7	5.4	593	1.83	8.5	1.2	1.7	1.4	45.2	0.23	0.54	0.14	13	7.70	0.086
1097902	Soil	0.24	7.63	12.49	30.3	73	9.1	3.6	640	1.52	7.5	0.9	2.2	0.7	37.5	0.12	0.60	0.07	7	8.31	0.068
1097903	Soil	0.45	14.53	23.55	67.5	114	18.5	8.1	914	2.71	11.0	1.1	8.2	2.1	44.3	0.24	0.83	0.22	15	8.96	0.098
1097904	Soil	0.53	10.94	19.75	74.5	115	12.2	6.0	1237	2.24	10.4	1.0	3.6	0.5	33.8	0.62	0.98	0.17	16	9.57	0.143
1097905	Soil	0.47	11.90	30.64	93.1	163	11.1	6.5	1673	2.68	16.5	0.6	3.0	0.7	30.7	0.74	2.00	0.17	19	7.84	0.143
1097906	Soil	0.67	16.55	35.53	222.6	112	22.6	9.5	1421	4.73	15.8	0.9	2.3	4.4	7.8	0.29	1.00	0.30	27	0.19	0.041
1097907	Soil	0.83	25.47	40.72	32.5	64	22.6	21.4	490	3.00	35.6	0.7	1.7	3.0	6.4	0.03	0.81	0.49	13	0.18	0.031
1097908	Soil	0.88	22.72	30.95	48.3	68	20.1	14.2	838	4.24	17.2	0.5	1.5	2.1	5.1	0.06	0.57	0.45	19	0.10	0.049
1097909	Soil	0.68	17.98	23.62	49.5	30	16.1	9.0	447	2.57	10.4	0.4	0.6	2.4	5.3	0.09	0.38	0.35	20	0.06	0.029
1097910	Soil	0.59	30.88	28.87	65.7	61	23.4	14.2	662	4.09	8.7	0.5	0.8	2.5	6.2	0.06	0.36	0.40	22	0.05	0.043
1097911	Soil	0.72	24.35	31.48	71.7	61	24.1	16.2	700	5.03	8.1	0.7	0.9	3.1	9.5	0.13	0.39	0.41	27	0.19	0.056
1098730	Soil	0.49	34.47	35.65	134.3	116	31.1	15.2	428	3.27	13.7	0.8	2.2	3.8	59.6	0.15	0.42	0.36	12	0.99	0.066



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1096594	Soil	8.7	22.0	0.37	81.3	0.004	2	1.53	0.002	0.09	<0.1	2.8	0.14	<0.02	25	0.3	0.05	4.0	1.35	<0.1	0.03
1096595	Soil	12.0	21.6	0.93	91.3	0.003	5	1.10	0.005	0.09	<0.1	3.8	0.15	0.05	240	0.4	0.05	2.8	1.16	<0.1	0.06
1096596	Soil	8.8	11.1	0.66	71.3	0.001	4	0.50	0.004	0.10	<0.1	5.3	0.18	0.04	834	0.5	0.04	1.4	0.93	<0.1	0.05
1096597	Soil	14.7	14.2	0.22	110.6	<0.001	3	1.21	0.004	0.10	<0.1	6.5	0.21	0.03	92	0.2	<0.02	2.2	1.42	<0.1	0.03
1096598	Soil	5.6	15.2	0.23	127.2	0.002	2	1.04	0.001	0.09	<0.1	2.0	0.09	<0.02	20	0.1	0.04	2.8	0.70	<0.1	<0.02
1096599	Soil	6.6	19.3	0.34	107.8	0.002	3	1.25	0.002	0.09	<0.1	4.9	0.11	<0.02	85	0.2	0.04	3.0	1.77	<0.1	0.04
1096600	Soil	6.8	16.0	0.35	130.6	0.001	3	0.97	0.002	0.09	<0.1	5.4	0.10	0.04	75	0.3	0.03	2.5	0.83	<0.1	0.06
1098601	Soil	6.6	17.0	0.25	93.4	0.003	3	0.96	0.004	0.07	<0.1	2.9	0.08	0.06	80	0.3	<0.02	2.6	0.67	<0.1	0.03
1098602	Soil	7.5	24.8	0.37	100.9	<0.001	2	1.65	0.002	0.09	<0.1	5.8	0.11	<0.02	88	0.2	<0.02	4.1	1.03	<0.1	0.07
1098603	Soil	5.0	11.7	5.26	81.8	0.004	4	0.68	0.007	0.03	<0.1	0.8	0.04	0.04	38	0.5	<0.02	1.3	0.32	<0.1	<0.02
1098604	Soil	7.7	19.0	3.99	88.9	0.006	3	1.15	0.006	0.05	<0.1	1.8	0.11	0.04	169	0.5	0.02	2.2	0.49	<0.1	0.03
1098605	Soil	10.8	19.6	1.87	84.6	0.003	3	1.25	0.004	0.05	<0.1	2.9	0.12	0.06	106	0.3	0.03	2.8	0.69	<0.1	0.07
1098606	Soil	10.9	19.9	2.46	109.2	0.004	4	1.25	0.004	0.06	<0.1	2.5	0.11	0.05	151	0.5	<0.02	2.8	0.70	<0.1	0.05
1098607	Soil	15.0	26.4	0.36	99.5	0.006	2	1.51	0.003	0.09	<0.1	4.8	0.13	0.03	112	0.5	0.06	3.7	0.82	<0.1	0.05
1098608	Soil	9.7	15.2	4.00	68.5	0.004	3	0.88	0.006	0.06	<0.1	2.8	0.10	<0.02	202	0.5	0.04	1.9	0.59	<0.1	0.05
1098609	Soil	9.1	13.3	1.81	86.3	0.002	3	0.87	0.004	0.07	<0.1	3.1	0.10	0.03	138	0.3	0.02	2.0	0.68	<0.1	0.05
1098610	Soil	12.6	22.0	0.46	146.1	0.007	2	1.29	0.004	0.06	0.2	3.6	0.10	0.02	84	0.3	0.04	3.3	0.89	<0.1	0.04
1098611	Soil	13.4	18.3	0.37	131.0	0.002	2	1.21	0.002	0.07	<0.1	3.9	0.11	0.04	87	0.3	0.03	2.7	0.56	<0.1	0.04
1097901	Soil	6.2	11.3	4.28	48.3	0.005	3	0.67	0.007	0.04	<0.1	1.7	0.06	<0.02	46	0.4	<0.02	1.5	0.59	<0.1	0.03
1097902	Soil	3.6	7.2	4.62	35.5	0.003	3	0.37	0.006	0.04	<0.1	1.1	0.06	<0.02	65	0.4	0.04	0.9	0.42	<0.1	0.02
1097903	Soil	6.3	13.0	4.80	66.3	0.004	5	0.85	0.008	0.09	<0.1	2.6	0.09	<0.02	114	0.3	0.02	2.0	0.92	<0.1	0.05
1097904	Soil	6.2	13.1	4.97	85.0	0.005	6	0.89	0.009	0.07	<0.1	1.2	0.08	0.04	106	0.4	0.04	1.9	0.82	<0.1	0.02
1097905	Soil	8.6	14.3	4.26	116.9	0.003	6	1.06	0.013	0.08	<0.1	1.6	0.10	0.06	168	0.4	0.04	2.4	0.77	<0.1	0.04
1097906	Soil	10.6	20.8	0.28	97.5	0.003	3	1.51	0.003	0.10	<0.1	4.2	0.14	<0.02	101	0.3	0.05	3.4	1.10	<0.1	0.05
1097907	Soil	4.7	16.3	0.14	54.1	0.001	3	0.84	0.002	0.16	<0.1	4.8	0.13	<0.02	54	0.1	0.07	2.3	1.90	<0.1	0.06
1097908	Soil	5.8	16.8	0.14	54.3	0.002	2	0.88	0.002	0.16	<0.1	3.0	0.10	<0.02	31	0.1	0.06	2.8	2.05	<0.1	<0.02
1097909	Soil	6.7	13.7	0.08	78.7	0.002	2	0.79	0.002	0.14	<0.1	1.8	0.09	<0.02	16	<0.1	0.04	3.5	1.21	<0.1	<0.02
1097910	Soil	5.2	19.4	0.19	94.8	0.001	1	1.28	0.002	0.16	<0.1	3.0	0.12	<0.02	24	0.2	0.05	4.4	2.20	<0.1	<0.02
1097911	Soil	5.8	29.7	0.31	95.8	0.002	3	1.91	0.001	0.20	<0.1	3.5	0.14	<0.02	27	0.1	0.03	5.6	2.53	<0.1	0.02
1098730	Soil	5.2	15.2	0.32	82.1	0.001	5	0.79	0.005	0.13	<0.1	4.7	0.16	0.08	202	0.6	0.05	2.6	2.37	<0.1	0.07



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 2 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1096594	Soil	0.31	11.6	1.6	<0.05	1.6	3.80	27.8	0.04	<1	1.0	19.5	<10	<2
1096595	Soil	0.21	8.9	3.4	<0.05	1.5	14.28	26.9	0.03	<1	1.0	13.2	<10	<2
1096596	Soil	0.14	4.7	1.2	<0.05	2.5	14.37	20.5	0.03	<1	1.0	6.3	<10	<2
1096597	Soil	0.10	8.3	1.5	<0.05	1.6	18.15	41.6	0.05	<1	1.3	17.2	<10	<2
1096598	Soil	0.16	7.3	1.5	<0.05	0.9	2.56	13.0	0.03	<1	0.5	22.0	<10	<2
1096599	Soil	0.18	7.2	1.6	<0.05	1.9	10.89	21.9	0.03	<1	0.9	39.2	<10	<2
1096600	Soil	0.19	6.3	1.0	<0.05	1.9	12.44	19.5	0.05	<1	0.8	26.6	<10	<2
1098601	Soil	0.41	8.5	1.6	<0.05	1.6	8.09	17.0	0.03	<1	0.7	23.5	<10	<2
1098602	Soil	0.16	7.8	4.8	<0.05	2.6	12.72	19.0	0.04	<1	1.2	35.6	<10	<2
1098603	Soil	0.11	3.8	3.6	<0.05	0.5	7.38	11.0	0.02	<1	0.5	4.3	<10	<2
1098604	Soil	0.22	5.1	5.8	<0.05	1.0	8.83	16.4	0.03	<1	0.6	9.3	<10	<2
1098605	Soil	0.23	6.5	3.5	<0.05	1.9	12.52	21.6	0.03	<1	0.9	11.2	<10	<2
1098606	Soil	0.25	7.1	2.6	<0.05	1.3	11.38	22.2	0.03	<1	0.8	10.2	<10	<2
1098607	Soil	0.40	9.2	2.5	<0.05	2.1	13.34	24.1	0.03	<1	0.9	13.1	<10	<2
1098608	Soil	0.16	5.8	2.6	<0.05	1.7	11.76	18.4	<0.02	<1	0.7	8.7	<10	<2
1098609	Soil	0.16	6.2	1.5	<0.05	1.7	11.03	21.4	0.03	<1	0.7	12.4	<10	<2
1098610	Soil	0.55	8.8	1.3	<0.05	1.3	9.88	30.0	0.03	2	1.1	12.8	<10	<2
1098611	Soil	0.21	7.7	1.7	<0.05	1.0	12.98	29.1	0.04	<1	1.1	12.3	<10	<2
1097901	Soil	0.17	4.3	2.9	<0.05	1.2	8.26	14.7	<0.02	<1	0.5	7.6	<10	<2
1097902	Soil	0.08	3.4	1.4	<0.05	0.8	5.59	8.3	<0.02	<1	0.4	5.0	<10	<2
1097903	Soil	0.17	6.4	2.7	<0.05	1.5	9.00	15.4	0.03	<1	0.7	13.8	<10	<2
1097904	Soil	0.17	7.5	2.5	<0.05	0.7	7.04	15.7	0.03	<1	0.5	9.8	<10	<2
1097905	Soil	0.20	10.4	5.5	<0.05	1.2	7.98	18.2	0.03	<1	0.6	8.2	<10	<2
1097906	Soil	0.26	12.6	1.7	<0.05	1.7	9.87	37.9	0.04	<1	1.1	15.7	<10	<2
1097907	Soil	0.08	9.5	14.3	<0.05	2.2	7.86	21.7	0.04	<1	1.1	8.5	<10	<2
1097908	Soil	0.19	13.3	7.4	<0.05	0.2	3.20	15.8	0.05	<1	1.0	6.3	<10	<2
1097909	Soil	0.16	13.5	4.4	<0.05	0.3	2.31	15.2	0.03	<1	0.4	8.3	<10	<2
1097910	Soil	0.19	14.1	3.2	<0.05	0.7	3.45	12.6	0.04	<1	1.1	22.0	<10	<2
1097911	Soil	0.28	16.8	3.6	<0.05	1.0	5.23	15.5	0.05	<1	1.5	39.0	<10	<2
1098730	Soil	0.11	10.0	1.3	<0.05	2.5	9.39	14.3	0.04	<1	1.0	20.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 24, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1098731	Soil	0.51	39.24	32.61	123.3	99	35.4	16.7	431	3.54	12.4	0.8	2.4	4.3	35.2	0.35	0.41	0.35	12	0.36	0.051
1098732	Soil	0.55	31.45	36.24	105.8	107	29.8	11.6	235	2.91	10.0	1.2	2.9	4.0	73.0	0.13	0.39	0.32	13	1.28	0.062
1098733	Soil	0.52	31.80	27.45	97.6	94	27.9	11.9	274	2.96	10.3	0.8	2.2	3.2	71.1	0.12	0.39	0.31	11	1.37	0.063
1098734	Soil	0.50	31.22	29.24	125.3	104	30.4	13.1	329	3.00	9.3	1.3	3.3	4.5	62.7	0.16	0.39	0.33	14	0.87	0.047
1098735	Soil	0.61	28.93	28.32	120.2	92	26.5	12.8	661	2.81	10.3	1.5	2.4	2.4	73.4	0.18	0.36	0.31	13	1.26	0.055
1098736	Soil	0.42	28.74	21.13	83.4	114	27.5	12.5	553	3.04	8.7	1.0	2.4	3.5	52.6	0.09	0.34	0.30	16	0.65	0.053
1098737	Soil	0.41	28.85	19.27	88.1	98	31.7	11.4	318	2.80	5.8	0.9	2.3	3.6	58.4	0.10	0.38	0.30	20	0.87	0.059
1098738	Soil	0.47	26.25	15.35	89.5	105	26.8	10.0	259	2.58	5.3	5.1	3.3	3.1	227.1	0.14	0.36	0.26	22	1.21	0.062
1098739	Soil	0.40	21.89	15.37	92.1	84	24.9	9.8	249	2.58	4.0	2.4	2.2	3.7	416.5	0.12	0.28	0.23	19	2.04	0.055
1098740	Soil	0.59	24.74	16.91	77.9	184	18.0	8.0	482	2.31	8.5	3.8	2.3	0.8	217.4	0.36	0.39	0.20	19	3.06	0.094
1098741	Soil	0.53	24.64	22.62	99.5	170	19.6	9.5	508	2.68	9.1	2.3	<0.2	1.5	183.0	0.22	0.45	0.33	21	1.64	0.081
1098742	Soil	0.50	22.84	31.32	153.4	172	22.5	9.3	445	3.05	10.2	1.7	0.9	2.3	156.8	0.17	0.50	0.36	18	1.51	0.085
1098743	Soil	0.64	16.26	16.74	53.7	28	15.1	7.5	241	3.07	7.9	0.7	1.1	2.9	20.0	0.10	0.33	0.27	33	0.36	0.021
1098744	Soil	0.61	25.98	23.48	73.5	132	22.0	10.5	484	2.80	9.2	2.8	2.0	1.3	101.5	0.20	0.47	0.25	22	2.01	0.061
1098745	Soil	0.53	26.08	16.68	66.7	137	20.9	10.6	636	2.53	8.2	3.6	2.3	1.1	108.8	0.19	0.45	0.23	20	2.13	0.057
1098746	Soil	0.54	27.86	18.05	60.1	158	20.5	8.5	392	2.67	8.2	8.5	1.7	1.0	91.4	0.20	0.45	0.24	24	1.86	0.069
1098747	Soil	0.68	35.81	19.26	82.6	135	26.0	12.2	387	2.93	11.0	1.9	4.1	2.1	74.4	0.21	0.61	0.27	26	1.62	0.052
1098748	Soil	0.57	21.16	17.59	65.1	119	21.1	10.9	413	2.94	11.1	1.4	1.6	2.7	36.8	0.11	0.45	0.28	32	1.09	0.044
1098749	Soil	0.67	19.02	19.74	75.7	18	17.4	10.0	352	3.51	12.4	0.4	4.0	2.6	15.1	0.09	0.40	0.27	30	0.17	0.022
1098750	Soil	0.58	25.66	17.90	72.9	119	24.3	11.7	464	3.00	13.2	1.0	2.6	2.6	43.0	0.25	0.47	0.26	26	1.05	0.046
1098651	Soil	0.58	27.37	19.49	74.3	105	22.6	10.6	519	3.04	13.4	0.8	1.6	1.5	77.2	0.20	0.55	0.23	21	1.84	0.056
1098652	Soil	0.58	22.28	19.51	62.8	10	22.2	14.2	310	3.91	12.8	0.5	0.6	3.1	12.4	0.03	0.45	0.26	28	0.09	0.019
1098653	Soil	0.44	26.85	18.84	82.5	127	21.7	9.5	388	2.87	8.1	4.7	1.2	2.0	44.4	0.14	0.38	0.27	24	1.37	0.058
1098654	Soil	0.42	43.55	16.64	72.4	287	24.1	8.2	472	2.40	5.3	1.9	1.6	2.1	126.4	0.54	0.24	0.29	21	2.04	0.078
1098655	Soil	0.92	25.82	35.19	85.4	56	22.6	14.8	638	5.16	8.3	0.5	1.1	3.9	19.4	0.06	0.33	0.43	42	0.20	0.035
1098656	Soil	0.68	41.42	23.73	81.5	208	23.6	11.6	550	3.20	9.7	1.3	1.9	3.2	76.2	0.14	0.33	0.40	27	1.06	0.060
1098657	Soil	0.57	20.52	15.18	58.3	22	20.1	10.5	249	3.31	7.2	0.3	3.2	3.1	28.8	0.08	0.32	0.36	30	0.20	0.019
1098801	Soil	0.79	27.33	18.59	63.4	85	21.3	11.5	489	3.58	11.1	1.2	2.1	1.6	32.1	0.15	0.48	0.28	26	1.06	0.054
1098802	Soil	0.72	35.14	23.90	75.5	78	31.1	15.2	473	3.90	14.9	0.6	2.8	4.1	29.7	0.09	0.65	0.31	22	0.54	0.022
1098803	Soil	0.62	26.29	22.25	58.8	61	21.5	11.3	718	3.81	17.3	0.7	0.8	2.4	39.9	0.17	0.80	0.27	21	2.19	0.048



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1098731	Soil	4.8	16.1	0.31	81.1	<0.001	5	0.87	0.004	0.14	<0.1	4.5	0.17	0.10	206	0.8	0.06	2.6	1.88	<0.1	0.05
1098732	Soil	6.9	19.2	0.43	103.8	0.001	6	0.84	0.004	0.13	<0.1	4.7	0.14	0.06	254	0.7	0.05	2.7	1.88	<0.1	0.07
1098733	Soil	5.1	14.7	0.38	81.9	0.001	4	0.76	0.004	0.11	<0.1	4.3	0.12	0.08	173	0.7	0.04	2.4	1.95	<0.1	0.06
1098734	Soil	7.8	21.7	0.42	111.2	0.001	5	0.97	0.004	0.14	<0.1	4.7	0.14	0.06	254	0.6	0.04	3.1	1.48	<0.1	0.08
1098735	Soil	4.4	18.2	0.31	103.4	<0.001	5	0.80	0.004	0.12	<0.1	3.6	0.14	0.07	197	0.9	0.03	2.7	1.40	<0.1	0.06
1098736	Soil	6.0	21.3	0.42	102.7	0.002	6	1.26	0.002	0.15	<0.1	4.3	0.12	0.04	166	0.5	0.04	3.8	1.76	<0.1	0.06
1098737	Soil	8.6	32.1	0.71	131.0	0.003	6	1.34	0.003	0.16	<0.1	5.2	0.15	0.05	171	0.5	0.02	4.3	2.44	<0.1	0.06
1098738	Soil	10.2	32.3	0.64	177.4	0.003	7	1.25	0.004	0.14	<0.1	5.4	0.15	0.07	269	1.7	<0.02	4.3	1.76	<0.1	0.06
1098739	Soil	9.3	29.4	0.74	118.4	0.002	10	1.06	0.006	0.13	<0.1	4.1	0.14	0.08	156	3.6	<0.02	3.5	3.12	<0.1	0.05
1098740	Soil	7.7	18.1	0.31	200.1	0.004	7	0.93	0.007	0.08	<0.1	2.5	0.11	0.12	253	1.3	0.03	2.7	1.27	<0.1	0.04
1098741	Soil	8.2	20.3	0.40	167.5	0.003	8	1.14	0.007	0.11	<0.1	3.6	0.08	0.09	232	1.0	<0.02	3.5	1.52	<0.1	0.04
1098742	Soil	6.6	20.0	0.39	120.3	0.002	9	1.17	0.007	0.12	<0.1	3.9	0.13	0.09	161	0.6	0.04	3.5	1.63	<0.1	0.06
1098743	Soil	7.4	20.2	0.24	78.4	0.001	1	1.74	0.001	0.08	<0.1	2.5	0.14	<0.02	43	0.1	0.03	5.1	1.02	<0.1	0.03
1098744	Soil	7.4	22.2	0.36	161.4	0.003	6	1.13	0.005	0.09	<0.1	3.3	0.11	0.07	197	0.6	0.04	3.3	1.27	<0.1	0.02
1098745	Soil	8.1	18.5	0.33	157.7	0.003	7	1.08	0.005	0.09	<0.1	3.4	0.11	0.07	187	0.6	0.03	3.2	1.38	<0.1	0.03
1098746	Soil	8.6	21.0	0.34	170.4	0.003	5	1.23	0.005	0.09	<0.1	3.4	0.12	0.08	223	0.9	0.04	3.5	1.42	<0.1	0.02
1098747	Soil	7.4	23.4	0.43	166.7	0.004	7	1.24	0.007	0.13	<0.1	4.2	0.12	0.05	252	0.5	0.05	3.8	1.68	<0.1	0.04
1098748	Soil	8.7	25.7	0.47	202.6	0.005	4	1.52	0.005	0.10	<0.1	4.2	0.13	0.03	141	0.4	0.04	4.6	1.51	<0.1	0.04
1098749	Soil	5.3	21.4	0.29	69.2	0.002	3	1.29	0.002	0.11	<0.1	2.6	0.12	<0.02	63	0.1	0.04	4.5	1.39	<0.1	0.02
1098750	Soil	8.1	24.3	0.47	142.7	0.003	5	1.44	0.004	0.11	<0.1	5.4	0.13	0.03	236	0.4	0.04	4.3	1.44	<0.1	0.03
1098651	Soil	7.0	18.4	0.45	144.8	0.004	6	0.99	0.006	0.09	<0.1	3.6	0.10	0.05	180	0.4	0.03	2.8	1.06	<0.1	0.03
1098652	Soil	6.0	22.8	0.35	90.9	0.002	2	1.62	<0.001	0.10	<0.1	3.3	0.11	<0.02	105	0.1	0.05	4.2	1.11	<0.1	0.03
1098653	Soil	8.2	24.0	0.47	151.4	0.004	6	1.35	0.004	0.14	<0.1	3.7	0.14	0.07	140	0.6	<0.02	4.3	1.61	<0.1	0.04
1098654	Soil	8.4	21.9	0.38	271.5	0.002	7	1.40	0.006	0.16	<0.1	3.7	0.14	0.09	121	0.3	0.02	4.4	2.09	<0.1	0.05
1098655	Soil	7.4	40.5	0.40	114.4	0.003	2	2.15	0.005	0.13	<0.1	3.4	0.14	<0.02	21	0.1	0.04	8.1	3.68	<0.1	0.03
1098656	Soil	7.5	28.7	0.42	183.6	0.003	4	1.58	0.005	0.16	<0.1	5.0	0.14	0.05	83	0.4	0.03	5.5	2.95	<0.1	0.04
1098657	Soil	6.3	23.7	0.42	118.5	0.006	2	1.34	0.002	0.11	<0.1	2.4	0.10	<0.02	23	0.2	0.04	6.2	1.27	<0.1	0.02
1098801	Soil	7.3	21.3	0.35	137.4	0.002	3	1.34	0.003	0.07	<0.1	4.2	0.08	0.04	292	0.4	0.04	3.6	0.72	<0.1	0.04
1098802	Soil	7.2	22.0	0.38	98.0	0.003	4	1.10	0.003	0.09	<0.1	6.0	0.09	<0.02	197	0.3	0.04	3.1	0.86	<0.1	0.05
1098803	Soil	4.6	17.6	0.86	92.7	0.002	4	1.02	0.003	0.08	<0.1	4.0	0.10	0.04	161	0.3	0.04	2.8	0.68	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 24, 2011

Page: 3 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1098731	Soil	0.09	9.7	5.7	<0.05	2.3	9.21	14.0	0.04	<1	1.0	22.4	<10	<2
1098732	Soil	0.18	10.2	12.0	<0.05	2.8	10.63	18.1	0.04	<1	0.9	21.8	<10	<2
1098733	Soil	0.13	8.5	3.1	<0.05	2.2	10.09	13.5	0.04	<1	0.9	21.4	<10	<2
1098734	Soil	0.20	10.1	3.6	<0.05	3.0	9.84	21.4	0.04	<1	1.1	24.2	<10	<2
1098735	Soil	0.19	9.4	3.0	<0.05	2.0	5.98	11.9	0.04	<1	0.8	19.3	<10	<2
1098736	Soil	0.23	12.4	2.6	<0.05	2.0	8.93	16.3	0.04	<1	1.1	35.1	<10	<2
1098737	Soil	0.43	15.8	2.5	<0.05	2.4	9.89	23.3	0.04	<1	1.1	32.8	<10	<2
1098738	Soil	0.43	17.1	1.8	<0.05	2.3	10.71	25.9	0.04	<1	1.0	28.4	<10	<2
1098739	Soil	0.33	24.1	1.6	<0.05	2.3	7.73	23.0	0.04	2	0.8	27.7	<10	<2
1098740	Soil	0.42	12.5	2.7	<0.05	1.3	9.48	17.4	0.03	<1	0.7	16.3	<10	<2
1098741	Soil	0.39	13.6	2.6	<0.05	1.2	9.95	19.7	0.03	<1	0.8	22.2	<10	<2
1098742	Soil	0.37	12.8	1.4	<0.05	1.9	9.74	18.2	0.04	<1	1.0	28.7	<10	<2
1098743	Soil	0.23	11.2	2.2	<0.05	1.5	3.81	18.7	0.03	<1	0.5	30.7	<10	<2
1098744	Soil	0.35	9.1	8.9	<0.05	0.9	8.72	18.7	0.04	<1	0.8	21.7	<10	<2
1098745	Soil	0.34	9.2	1.0	<0.05	0.9	10.83	20.4	0.03	<1	0.8	21.2	<10	<2
1098746	Soil	0.45	10.3	1.1	<0.05	0.7	11.02	19.4	0.04	<1	0.9	23.5	<10	<2
1098747	Soil	0.48	10.4	1.6	<0.05	1.9	8.55	17.1	0.04	<1	0.9	22.8	<10	<2
1098748	Soil	0.63	11.9	0.9	<0.05	1.4	7.08	21.1	0.03	<1	0.9	26.5	<10	<2
1098749	Soil	0.25	15.0	2.5	<0.05	1.5	2.58	13.1	0.03	<1	0.5	26.6	<10	<2
1098750	Soil	0.43	11.3	1.9	<0.05	1.1	9.16	20.6	0.04	<1	0.9	28.2	<10	<2
1098651	Soil	0.38	8.0	1.7	<0.05	0.9	8.05	16.3	0.03	<1	0.7	18.1	<10	<2
1098652	Soil	0.19	10.3	1.5	<0.05	1.9	3.41	14.9	0.03	<1	0.7	33.5	<10	<2
1098653	Soil	0.56	19.4	1.8	<0.05	1.0	8.91	18.6	0.04	<1	0.9	26.3	<10	<2
1098654	Soil	0.55	18.6	1.7	<0.05	1.9	15.29	16.8	0.03	<1	1.1	25.9	<10	<2
1098655	Soil	0.33	19.9	4.1	<0.05	1.1	5.62	18.0	0.05	<1	1.2	45.4	<10	<2
1098656	Soil	0.52	22.6	2.7	<0.05	1.3	12.15	18.0	0.04	<1	1.3	33.6	<10	<2
1098657	Soil	0.38	12.4	1.5	<0.05	0.8	2.79	14.5	0.04	<1	0.6	23.7	<10	<2
1098801	Soil	0.30	6.7	2.0	<0.05	1.1	9.95	17.5	0.04	<1	1.0	18.5	<10	<2
1098802	Soil	0.23	6.7	2.5	<0.05	2.8	9.58	17.6	0.04	<1	1.0	20.6	<10	<2
1098803	Soil	0.27	8.7	1.7	<0.05	1.9	5.13	13.0	0.04	<1	0.8	15.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	0.02	2	0.01	0.001
1098804	Soil	0.55	19.49	20.04	49.4	83	19.3	11.2	952	3.13	12.7	2.3	1.3	2.0	44.6	0.11	0.64	0.24	22	1.79	0.036
1098805	Soil	0.57	18.25	23.17	50.8	70	16.6	9.8	401	2.56	10.3	4.2	1.8	1.6	21.9	0.11	0.50	0.25	27	0.90	0.036
1098806	Soil	0.47	24.44	17.05	53.8	96	17.7	8.7	405	2.60	8.8	5.0	1.1	1.3	33.2	0.16	0.46	0.23	22	1.63	0.051
1098807	Soil	0.44	26.42	17.77	68.6	95	21.5	10.6	569	2.68	5.6	1.3	2.1	2.2	65.4	0.14	0.38	0.27	21	1.32	0.053
1098808	Soil	0.55	17.18	12.02	36.4	46	12.1	5.7	151	2.55	5.3	0.4	0.7	3.2	14.7	0.04	0.26	0.28	31	0.21	0.015
1098809	Soil	0.56	33.46	22.54	71.2	158	24.3	11.9	559	3.08	7.0	1.1	2.5	2.9	48.2	0.13	0.22	0.40	27	0.88	0.051
1098810	Soil	0.58	22.81	15.03	25.4	120	13.7	4.2	105	1.61	3.6	0.6	0.5	1.6	118.2	0.20	0.22	0.28	26	1.76	0.036
1097743	Soil	0.78	23.76	17.16	76.5	80	21.0	9.4	326	2.23	5.9	3.0	4.2	2.2	119.9	0.22	0.36	0.21	19	1.99	0.042
1097744	Soil	0.56	25.65	20.37	66.9	71	23.2	11.6	496	2.95	7.5	4.1	2.2	4.0	69.5	0.17	0.35	0.25	25	1.20	0.023
1097745	Soil	0.55	22.43	18.28	85.2	94	21.0	8.0	214	2.35	5.9	1.2	1.4	1.9	164.0	0.18	0.35	0.24	15	1.59	0.058
1097746	Soil	0.38	18.78	23.62	111.5	89	22.7	9.1	346	2.78	7.4	0.9	1.1	2.4	83.3	0.16	0.38	0.26	14	1.03	0.057
1097747	Soil	0.49	22.58	17.02	90.0	129	18.4	8.8	366	2.57	7.3	4.4	1.6	0.9	50.7	0.18	0.43	0.21	20	1.94	0.063
1097748	Soil	0.69	27.35	18.36	78.1	154	21.6	9.1	430	2.63	7.8	5.5	2.6	1.3	70.4	0.22	0.49	0.22	20	1.92	0.070
1097749	Soil	0.64	18.29	18.10	47.9	125	17.7	8.2	821	2.42	6.8	10.3	1.0	0.9	68.1	0.20	0.38	0.21	20	1.78	0.071
1097750	Soil	0.58	24.71	19.37	63.4	107	22.0	11.2	682	3.14	12.0	1.3	1.4	1.8	48.7	0.19	0.67	0.25	21	2.07	0.047
1096802	Soil	0.53	22.44	22.05	67.3	59	24.7	10.3	272	3.13	8.8	0.4	0.6	2.2	69.1	0.06	0.22	0.29	13	1.24	0.042
1096803	Soil	0.67	24.06	33.31	179.7	150	25.0	10.7	321	2.77	13.1	0.8	1.2	2.0	77.0	0.24	0.36	0.28	12	1.91	0.072
1096804	Soil	0.84	17.53	112.6	594.0	118	21.1	7.9	210	2.31	16.1	0.5	0.9	2.0	54.9	1.47	0.32	0.27	6	1.50	0.063
1096805	Soil	0.75	30.97	30.57	93.8	63	29.7	13.7	348	3.52	15.0	0.4	0.9	3.8	31.4	0.10	0.48	0.34	15	0.66	0.029
1096806	Soil	0.46	31.69	16.31	71.2	117	23.3	9.5	246	2.35	5.8	1.1	2.2	1.9	54.2	0.10	0.28	0.26	12	1.05	0.060
1096807	Soil	0.44	26.37	17.78	77.7	30	13.8	8.7	208	2.36	5.8	0.2	0.3	1.5	19.1	0.11	0.23	0.30	20	0.23	0.029
1096808	Soil	0.37	26.05	18.36	58.1	121	22.0	10.6	396	2.32	4.6	1.3	2.2	2.4	63.8	0.12	0.29	0.29	15	1.32	0.049
1096809	Soil	0.32	22.32	14.84	69.4	62	22.1	8.2	341	1.90	1.9	1.7	2.3	1.6	78.8	0.19	0.28	0.20	19	1.91	0.064
1096810	Soil	0.59	23.83	18.15	88.7	70	27.8	10.8	247	2.62	5.1	1.0	1.6	3.3	36.6	0.21	0.40	0.26	22	0.89	0.050
1096811	Soil	0.61	31.88	15.11	93.0	104	27.3	10.2	253	2.50	5.2	2.8	4.6	2.9	86.7	0.22	0.48	0.21	29	1.67	0.043
1096812	Soil	0.71	19.45	18.97	79.6	19	22.6	10.1	435	3.10	8.6	3.1	0.7	5.4	68.5	0.27	0.28	0.24	47	0.61	0.023
1096813	Soil	0.69	16.29	12.57	49.8	42	17.4	7.4	166	2.49	6.4	1.9	0.5	3.9	39.7	0.16	0.32	0.20	38	0.46	0.014
1096814	Soil	1.44	18.27	20.85	57.3	175	16.6	8.7	262	2.40	10.2	2.5	1.9	3.8	72.9	0.29	0.48	0.22	26	0.97	0.021
1096815	Soil	0.72	28.46	17.53	76.5	215	21.9	9.2	365	2.56	8.4	3.5	2.9	1.2	109.3	0.27	0.48	0.22	19	1.71	0.058
1096816	Soil	0.40	26.03	18.19	92.0	135	25.0	10.1	408	2.69	6.2	0.8	1.2	2.4	70.1	0.16	0.33	0.27	16	1.39	0.050



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15				
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf			
			ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm				
			0.5	0.5	0.01	0.5	0.001			1	0.01	0.001	0.01		0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1098804	Soil		6.5	16.8	0.79	137.1	0.003	3	0.96	0.004	0.06	<0.1	3.3	0.08	0.03	136	0.3	0.04	2.8	0.54	<0.1	0.03			
1098805	Soil		5.8	19.5	0.42	140.3	0.008	3	1.07	0.004	0.08	0.1	2.4	0.09	0.04	67	0.4	0.03	3.6	1.07	<0.1	0.03			
1098806	Soil		5.8	18.4	0.39	159.7	0.003	4	1.14	0.004	0.09	<0.1	3.2	0.12	0.07	119	0.6	0.03	3.3	1.21	<0.1	0.04			
1098807	Soil		6.7	20.6	0.39	157.0	0.003	7	1.27	0.005	0.12	<0.1	3.7	0.12	0.07	103	0.4	0.03	4.2	1.27	<0.1	0.06			
1098808	Soil		8.2	16.7	0.22	242.3	0.006	2	0.91	0.002	0.10	<0.1	2.0	0.09	<0.02	13	0.1	0.03	5.4	1.00	<0.1	<0.02			
1098809	Soil		7.7	28.8	0.40	179.6	0.002	2	1.59	0.005	0.12	<0.1	4.8	0.10	0.04	73	0.3	<0.02	5.3	2.10	<0.1	0.05			
1098810	Soil		4.7	20.9	0.27	157.4	0.003	3	0.87	0.006	0.09	<0.1	1.8	0.09	0.05	29	0.2	<0.02	4.7	0.94	<0.1	0.02			
1097743	Soil		11.8	21.4	0.27	231.2	0.002	5	0.63	0.005	0.08	<0.1	3.6	0.10	0.07	221	1.0	0.02	2.1	0.43	<0.1	0.04			
1097744	Soil		12.5	24.0	0.28	290.8	0.002	5	1.12	0.004	0.09	<0.1	4.6	0.11	0.03	125	0.7	0.03	3.2	0.64	<0.1	0.06			
1097745	Soil		5.2	19.1	0.42	156.3	0.002	11	0.86	0.005	0.09	<0.1	3.4	0.08	0.13	162	1.2	0.02	2.7	0.82	<0.1	0.06			
1097746	Soil		5.4	14.8	0.45	71.1	0.002	6	0.95	0.005	0.09	<0.1	3.3	0.08	0.08	138	0.8	<0.02	2.7	1.09	<0.1	0.05			
1097747	Soil		6.2	17.7	0.39	133.6	0.004	6	1.00	0.007	0.07	<0.1	3.2	0.10	0.09	206	0.8	0.02	3.0	1.09	<0.1	0.03			
1097748	Soil		7.2	21.3	0.39	129.7	0.003	6	1.01	0.005	0.07	<0.1	3.9	0.10	0.11	257	0.8	0.03	2.9	1.11	<0.1	0.04			
1097749	Soil		5.9	22.0	0.29	176.9	0.003	3	1.03	0.005	0.05	<0.1	2.5	0.09	0.12	168	0.9	0.04	3.0	0.80	<0.1	0.03			
1097750	Soil		6.7	17.9	0.79	116.8	0.003	4	1.04	0.003	0.07	<0.1	3.6	0.09	0.04	140	0.4	0.05	2.9	0.86	<0.1	0.03			
1096802	Soil		2.8	17.2	0.27	77.0	<0.001	4	1.01	0.006	0.06	<0.1	4.7	0.07	0.05	145	0.3	0.03	3.0	1.18	<0.1	0.05			
1096803	Soil		4.9	13.2	0.22	71.0	<0.001	6	0.77	0.005	0.08	<0.1	4.4	0.14	0.06	123	0.7	0.05	2.2	1.13	<0.1	0.05			
1096804	Soil		2.8	6.5	0.06	53.4	<0.001	6	0.37	0.005	0.08	<0.1	3.1	0.14	0.05	86	0.6	0.04	1.1	0.69	<0.1	0.03			
1096805	Soil		4.6	15.2	0.19	102.5	<0.001	3	0.94	0.003	0.08	<0.1	5.3	0.14	0.02	134	0.5	0.06	2.6	0.74	<0.1	0.06			
1096806	Soil		5.1	15.3	0.33	120.0	0.002	6	0.87	0.005	0.11	<0.1	3.6	0.12	0.08	163	0.7	0.04	2.6	1.72	<0.1	0.06			
1096807	Soil		2.4	11.3	0.16	55.3	0.001	4	0.69	0.005	0.15	<0.1	2.1	0.09	<0.02	28	0.2	0.06	3.1	2.30	<0.1	<0.02			
1096808	Soil		4.8	17.4	0.40	141.8	0.002	6	0.88	0.005	0.12	<0.1	4.3	0.14	0.06	175	0.6	0.03	2.8	2.11	<0.1	0.07			
1096809	Soil		7.8	28.5	0.71	153.7	0.005	6	1.13	0.005	0.09	<0.1	3.2	0.11	0.08	167	0.8	<0.02	3.9	1.56	<0.1	0.05			
1096810	Soil		11.2	29.4	0.27	130.7	0.002	3	0.59	0.006	0.10	<0.1	4.9	0.10	0.04	300	0.6	0.04	2.2	0.36	<0.1	0.06			
1096811	Soil		14.8	31.5	0.31	264.0	0.002	5	0.74	0.005	0.08	<0.1	5.0	0.12	0.05	228	1.0	<0.02	2.6	0.42	<0.1	0.08			
1096812	Soil		20.3	40.7	0.46	310.9	0.003	4	1.69	0.002	0.11	<0.1	5.0	0.14	<0.02	58	0.5	0.03	5.3	0.41	<0.1	0.07			
1096813	Soil		12.1	26.8	0.43	142.3	0.005	2	1.40	0.003	0.09	<0.1	2.9	0.13	<0.02	49	0.3	<0.02	4.7	0.62	<0.1	0.05			
1096814	Soil		12.4	16.7	0.21	195.4	0.002	4	0.94	0.003	0.09	<0.1	3.8	0.12	0.02	194	0.4	0.02	2.7	0.40	<0.1	0.06			
1096815	Soil		8.6	16.6	0.34	234.2	0.002	4	0.91	0.004	0.07	<0.1	3.2	0.10	0.07	286	0.7	0.03	2.6	0.61	<0.1	0.05			
1096816	Soil		7.1	16.7	0.32	132.3	0.002	6	0.98	0.004	0.11	<0.1	4.1	0.10	0.05	208	0.4	0.03	2.9	1.07	<0.1	0.05			



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: September 24, 2011

Page: 4 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1098804	Soil	0.34	5.8	1.2	<0.05	1.2	5.97	19.0	0.04	<1	0.8	15.2	<10	<2
1098805	Soil	0.62	9.4	3.4	<0.05	0.8	3.26	14.2	0.03	<1	0.6	20.2	<10	<2
1098806	Soil	0.52	9.8	1.8	<0.05	1.2	7.65	13.4	0.03	<1	0.9	16.0	<10	<2
1098807	Soil	0.45	16.6	1.8	<0.05	1.6	9.41	16.8	0.03	<1	1.0	24.9	<10	<2
1098808	Soil	0.33	13.2	1.6	<0.05	0.6	4.98	19.0	0.02	<1	0.5	9.6	<10	<2
1098809	Soil	0.44	17.5	3.7	<0.05	1.4	14.45	19.2	0.03	<1	1.3	30.5	<10	<2
1098810	Soil	0.55	11.9	3.1	<0.05	0.9	4.29	10.9	<0.02	<1	0.6	7.3	<10	<2
1097743	Soil	0.28	6.8	2.6	<0.05	1.8	9.63	31.6	0.03	<1	0.9	11.5	<10	<2
1097744	Soil	0.31	9.2	2.6	<0.05	2.2	9.66	37.6	0.04	<1	1.1	17.2	<10	<2
1097745	Soil	0.31	7.3	3.4	<0.05	2.0	6.86	12.6	0.03	<1	0.8	20.5	<10	<2
1097746	Soil	0.21	9.6	2.3	<0.05	1.6	7.64	14.7	0.03	<1	0.7	24.5	<10	<2
1097747	Soil	0.42	8.5	2.4	<0.05	1.1	7.89	14.2	0.03	<1	0.7	19.0	<10	<2
1097748	Soil	0.37	7.6	2.5	<0.05	1.3	10.49	15.9	0.03	<1	0.9	18.5	<10	<2
1097749	Soil	0.42	7.1	2.1	<0.05	1.1	6.71	14.0	0.03	<1	0.6	14.8	<10	<2
1097750	Soil	0.38	7.1	1.3	<0.05	1.2	8.01	16.7	0.04	<1	0.9	17.4	<10	<2
1096802	Soil	0.18	6.6	8.0	<0.05	1.5	6.54	8.1	0.05	<1	0.7	28.4	<10	<2
1096803	Soil	0.19	5.7	1.3	<0.05	1.8	9.95	12.9	0.04	<1	1.0	14.6	<10	<2
1096804	Soil	0.08	4.4	1.5	<0.05	1.2	6.92	8.6	0.03	<1	0.8	3.4	<10	<2
1096805	Soil	0.15	6.1	3.2	<0.05	2.6	9.31	12.6	0.04	<1	0.9	15.5	<10	<2
1096806	Soil	0.25	10.5	1.4	<0.05	1.7	10.08	12.4	0.03	<1	0.8	18.8	<10	<2
1096807	Soil	0.12	10.9	2.2	<0.05	1.0	2.90	6.0	0.03	<1	0.4	12.6	<10	<2
1096808	Soil	0.28	12.8	0.7	<0.05	2.0	10.60	13.2	0.03	<1	1.0	16.9	<10	<2
1096809	Soil	0.53	12.1	2.2	<0.05	2.0	8.21	19.7	0.03	<1	0.7	29.8	<10	<2
1096810	Soil	0.20	7.4	0.7	<0.05	2.1	11.29	29.3	0.04	<1	0.7	7.2	<10	<2
1096811	Soil	0.26	7.9	0.9	<0.05	2.8	11.11	31.9	0.04	<1	1.1	10.8	<10	<2
1096812	Soil	0.29	9.9	1.0	<0.05	3.1	9.70	48.0	0.04	<1	1.2	28.9	<10	<2
1096813	Soil	0.41	12.7	0.7	<0.05	2.5	4.31	30.3	0.03	<1	0.8	25.9	<10	<2
1096814	Soil	0.30	9.8	1.5	<0.05	2.4	8.07	30.3	0.03	<1	0.9	12.4	<10	<2
1096815	Soil	0.32	6.1	0.5	<0.05	1.6	9.97	19.2	0.03	<1	0.9	15.4	<10	<2
1096816	Soil	0.31	8.4	1.5	<0.05	1.8	9.31	17.6	0.03	<1	0.8	21.3	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1096817	Soil			0.32	22.42	19.20	82.2	119	22.7	8.6	231	2.13	4.6	1.1	1.4	3.0	41.5	0.16	0.24	0.28	11	1.29	0.041
1096818	Soil			0.35	15.95	68.11	209.6	134	20.2	8.0	576	3.01	5.9	1.6	0.8	3.1	24.7	0.48	0.27	0.22	9	1.96	0.058
1096819	Soil			0.67	21.53	93.50	153.5	161	17.2	7.0	1575	6.79	101.1	2.9	5.3	1.1	36.2	0.41	3.32	0.16	15	8.83	0.069
1096820	Soil			0.96	23.10	22.95	84.0	105	24.7	11.5	834	3.50	14.1	1.5	2.7	5.2	16.1	0.25	0.77	0.27	40	0.80	0.027
1096821	Soil			0.81	18.97	24.81	387.4	82	20.3	9.3	1456	3.71	18.7	2.6	3.1	1.5	14.9	0.69	1.02	0.25	40	2.36	0.070
1096822	Soil			0.77	14.49	49.12	794.6	129	16.2	8.5	3720	5.46	22.0	1.8	1.7	1.4	17.3	1.04	1.18	0.23	41	5.18	0.105
1096823	Soil			0.79	13.04	23.32	56.4	100	14.3	5.8	800	2.23	32.1	3.2	1.3	0.5	39.9	0.18	1.45	0.13	11	10.15	0.087
1096824	Soil			0.60	35.88	28.97	83.4	79	28.5	14.9	899	3.72	17.0	0.9	0.8	3.8	44.1	0.14	0.75	0.26	20	2.79	0.043
1096825	Soil			0.55	31.90	23.76	78.6	100	24.6	12.3	925	3.39	15.3	1.1	1.4	3.4	37.1	0.17	0.75	0.25	20	5.29	0.058
1096826	Soil			0.60	31.33	24.66	72.8	99	30.2	14.8	857	3.87	11.4	1.2	3.5	5.1	22.7	0.14	0.52	0.34	33	0.50	0.035
1096827	Soil			0.71	24.15	20.39	50.3	104	16.9	7.9	208	3.05	7.3	0.5	<0.2	3.1	8.8	0.10	0.29	0.30	35	0.11	0.042
1096828	Soil			0.58	24.66	21.49	77.6	123	29.2	14.3	426	3.95	7.3	0.5	0.3	4.7	7.7	0.07	0.24	0.33	36	0.09	0.025
1096829	Soil			0.78	30.41	32.42	59.3	71	26.0	19.1	2943	4.43	8.3	0.6	0.9	3.9	11.2	0.11	0.29	0.37	35	0.28	0.038
1097788	Soil			0.79	40.29	25.13	117.3	92	35.6	13.7	286	2.99	8.5	1.2	4.2	5.3	70.7	0.13	0.41	0.28	18	1.73	0.062
1097789	Soil			0.68	29.09	44.61	194.3	120	30.6	14.7	613	3.31	15.9	0.7	1.3	2.6	58.3	0.40	0.38	0.28	14	2.24	0.093
1097790	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097791	Soil			0.72	30.01	24.55	76.1	101	29.0	12.7	302	2.87	14.5	0.5	0.8	3.8	49.2	0.11	0.29	0.29	11	1.73	0.071
1097792	Soil			0.74	25.52	43.09	144.0	80	27.4	12.2	326	2.99	13.9	0.6	1.5	4.0	44.2	0.13	0.36	0.28	11	1.50	0.074
1097793	Soil			0.61	23.42	19.96	64.2	99	23.7	10.2	264	2.74	11.2	0.6	0.9	2.7	41.0	0.09	0.22	0.23	8	1.70	0.062
1097794	Soil			0.46	44.57	16.80	95.8	86	35.8	16.8	492	3.65	10.4	0.6	0.8	3.7	33.1	0.05	0.37	0.35	19	0.44	0.038
1097795	Soil			0.43	74.51	22.73	104.1	134	43.6	19.4	552	3.63	9.1	0.8	2.3	3.3	46.5	0.10	0.33	0.27	12	1.25	0.072
1097796	Soil			0.47	33.15	16.44	88.5	97	35.6	11.7	254	2.49	3.1	1.6	2.3	4.7	69.8	0.14	0.26	0.25	24	1.28	0.051
1097797	Soil			0.46	43.23	23.96	90.4	50	38.0	12.5	418	2.91	3.1	1.1	1.9	5.4	59.5	0.16	0.22	0.33	20	1.20	0.041
1097798	Soil			0.42	21.08	14.12	62.6	97	21.7	10.4	274	2.10	4.1	1.8	2.2	2.2	86.4	0.16	0.34	0.18	25	2.02	0.058
1097799	Soil			0.81	24.28	23.49	72.4	45	28.8	14.2	431	3.32	9.7	2.3	2.1	5.4	55.2	0.14	0.39	0.25	39	0.96	0.024
1097800	Soil			0.84	32.61	16.49	61.1	58	23.2	11.4	198	3.38	10.0	1.0	1.0	4.0	26.3	0.09	0.44	0.27	36	0.32	0.018
1098001	Soil			0.72	32.33	16.83	68.8	171	25.9	10.5	351	2.50	9.1	1.3	3.9	2.2	80.0	0.20	0.49	0.20	30	1.55	0.050
1098002	Soil			0.70	37.53	23.57	91.7	112	28.9	14.1	475	3.39	12.8	1.6	2.2	2.3	101.9	0.21	0.54	0.29	20	1.45	0.046
1098003	Soil			0.80	40.40	25.08	92.1	103	34.3	17.5	654	3.81	11.6	3.0	1.6	3.1	62.1	0.40	0.48	0.28	33	1.12	0.056
1098004	Soil			0.48	28.89	22.88	117.3	105	27.1	12.6	298	3.08	9.6	5.1	2.8	2.7	40.3	0.37	0.33	0.25	26	1.24	0.054



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1096817	Soil	7.1	10.3	0.27	145.5	0.001	5	0.63	0.003	0.12	<0.1	3.7	0.12	0.04	274	0.4	<0.02	1.8	0.98	<0.1	0.05
1096818	Soil	8.6	10.3	0.66	70.0	<0.001	3	0.44	0.004	0.09	<0.1	3.7	0.15	0.04	1082	0.4	<0.02	1.3	1.24	<0.1	0.02
1096819	Soil	8.3	13.4	4.61	83.8	0.004	3	0.77	0.009	0.06	<0.1	2.3	1.46	0.03	973	1.0	0.11	1.8	0.66	<0.1	0.03
1096820	Soil	15.3	27.4	0.68	202.3	0.007	1	1.30	0.004	0.08	0.1	3.8	0.14	<0.02	190	0.9	0.04	4.2	0.93	<0.1	0.03
1096821	Soil	10.2	26.5	1.31	129.1	0.006	2	1.85	0.005	0.07	<0.1	3.3	0.27	0.05	194	0.6	0.05	5.2	1.08	<0.1	0.04
1096822	Soil	16.0	25.5	2.70	166.1	0.009	4	1.75	0.006	0.05	0.1	2.6	0.14	0.04	275	0.9	0.05	4.7	0.94	<0.1	0.03
1096823	Soil	4.0	14.2	4.92	67.8	0.003	6	0.75	0.012	0.06	<0.1	1.1	0.62	0.05	284	0.7	0.03	1.8	1.65	<0.1	0.03
1096824	Soil	6.9	20.3	1.45	74.7	0.001	4	1.16	0.005	0.12	<0.1	5.6	0.13	0.03	302	0.8	0.07	3.2	0.98	<0.1	0.09
1096825	Soil	7.0	20.0	2.84	85.8	0.002	3	1.16	0.005	0.12	<0.1	5.0	0.13	0.02	289	0.7	0.03	3.5	1.38	<0.1	0.06
1096826	Soil	10.4	31.7	0.44	201.9	0.004	4	1.71	0.003	0.14	<0.1	5.1	0.13	<0.02	116	0.7	0.06	5.7	1.81	<0.1	0.06
1096827	Soil	5.6	25.2	0.20	109.2	0.002	2	1.27	0.004	0.11	<0.1	2.4	0.11	0.04	37	0.4	0.06	5.7	1.80	<0.1	0.02
1096828	Soil	7.7	38.0	0.53	119.8	0.003	2	1.92	0.003	0.12	<0.1	3.9	0.10	<0.02	42	0.5	0.05	6.9	2.22	<0.1	0.03
1096829	Soil	6.8	34.9	0.35	157.6	0.002	1	2.13	0.004	0.12	<0.1	3.7	0.12	<0.02	35	0.6	0.06	7.3	2.55	<0.1	0.03
1097788	Soil	9.3	27.9	0.99	83.3	0.002	5	0.93	0.004	0.17	<0.1	5.3	0.13	0.05	263	1.1	0.04	3.5	1.98	<0.1	0.08
1097789	Soil	7.4	13.2	0.18	87.4	0.001	5	0.82	0.004	0.12	<0.1	5.3	0.16	0.05	136	1.1	0.06	2.4	1.29	<0.1	0.03
1097790	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097791	Soil	4.8	9.8	0.14	78.9	<0.001	5	0.64	0.003	0.12	<0.1	4.7	0.17	0.03	102	0.9	0.07	1.8	1.37	<0.1	0.04
1097792	Soil	4.4	9.6	0.13	58.9	0.001	4	0.54	0.003	0.10	<0.1	4.4	0.14	0.03	113	0.9	0.08	1.7	1.18	<0.1	0.04
1097793	Soil	4.9	7.8	0.08	89.5	<0.001	4	0.48	0.003	0.09	<0.1	4.4	0.18	0.04	95	1.3	0.04	1.2	0.84	<0.1	0.03
1097794	Soil	4.4	20.4	0.47	76.9	0.002	5	1.32	0.003	0.15	<0.1	4.9	0.09	0.04	86	0.6	0.04	3.9	2.55	<0.1	0.09
1097795	Soil	7.6	13.1	0.23	133.2	0.001	6	0.98	0.003	0.13	<0.1	6.8	0.09	0.06	159	1.1	0.06	2.0	1.96	<0.1	0.04
1097796	Soil	11.5	40.5	0.84	180.7	0.005	6	1.43	0.003	0.18	<0.1	6.2	0.16	0.05	163	1.0	0.05	4.8	2.57	<0.1	0.10
1097797	Soil	11.6	30.4	0.66	267.4	0.003	7	1.20	0.002	0.19	<0.1	8.6	0.15	0.04	72	0.8	0.05	4.0	3.14	<0.1	0.06
1097798	Soil	10.8	34.8	0.35	413.3	0.002	5	0.86	0.004	0.09	<0.1	4.7	0.10	0.07	301	1.4	<0.02	2.9	0.74	<0.1	0.04
1097799	Soil	14.2	32.1	0.47	243.9	0.004	4	1.84	0.003	0.10	<0.1	5.5	0.14	<0.02	86	0.8	0.08	5.0	1.72	<0.1	0.05
1097800	Soil	8.8	23.2	0.28	115.5	0.003	3	1.39	0.002	0.13	<0.1	4.2	0.10	<0.02	85	0.7	0.07	4.3	0.82	<0.1	0.03
1098001	Soil	11.8	23.7	0.42	207.3	0.008	5	1.14	0.007	0.12	0.1	5.0	0.11	0.04	283	0.9	0.05	3.4	1.52	<0.1	0.02
1098002	Soil	7.5	20.2	0.33	157.1	0.002	5	1.05	0.004	0.12	<0.1	5.3	0.12	0.06	220	1.0	0.03	2.9	1.18	<0.1	0.05
1098003	Soil	7.8	28.7	0.55	155.5	0.005	6	1.61	0.006	0.13	<0.1	6.0	0.11	0.04	145	0.9	0.07	4.6	1.91	<0.1	0.05
1098004	Soil	7.5	24.0	0.56	119.3	0.003	8	1.31	0.003	0.13	<0.1	4.7	0.09	0.06	211	1.0	0.09	3.9	1.20	<0.1	0.04



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 5 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1096817	Soil	0.20	7.9	0.5	<0.05	1.7	9.38	19.0	0.03	<1	0.9	10.0	<10	<2
1096818	Soil	0.10	5.1	1.0	<0.05	0.8	10.67	27.0	0.04	<1	0.8	4.1	<10	<2
1096819	Soil	0.20	5.7	0.6	<0.05	1.1	10.61	16.8	0.05	<1	1.0	6.1	<10	<2
1096820	Soil	0.54	10.6	1.7	<0.05	1.4	8.66	36.4	0.04	<1	0.9	15.5	<10	<2
1096821	Soil	0.64	8.9	0.7	<0.05	1.4	11.71	20.7	0.04	<1	1.2	14.0	<10	<2
1096822	Soil	0.48	7.0	1.1	<0.05	1.2	14.44	32.3	0.03	<1	0.4	9.8	<10	<2
1096823	Soil	0.23	7.4	2.9	<0.05	0.9	5.36	8.6	<0.02	<1	0.8	6.9	<10	<2
1096824	Soil	0.16	9.2	2.9	<0.05	3.0	11.01	17.8	0.02	<1	0.7	16.5	<10	<2
1096825	Soil	0.17	9.5	1.3	<0.05	2.0	10.84	16.6	0.03	<1	1.1	18.6	<10	<2
1096826	Soil	0.49	14.8	2.5	<0.05	1.8	9.48	26.5	0.02	<1	1.2	28.0	<10	<2
1096827	Soil	0.50	13.8	1.1	<0.05	1.1	2.23	13.2	0.03	<1	0.7	10.9	<10	<2
1096828	Soil	0.38	15.5	2.6	<0.05	1.7	4.43	19.2	0.03	<1	1.0	36.4	<10	<2
1096829	Soil	0.34	16.4	1.2	<0.05	1.4	7.75	21.8	0.06	2	1.5	32.0	<10	<2
1097788	Soil	0.18	11.9	3.0	<0.05	3.0	9.13	23.5	0.03	<1	1.3	23.8	<10	<2
1097789	Soil	0.17	7.4	0.7	<0.05	1.4	11.89	20.7	0.04	2	1.3	12.6	<10	<2
1097790	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097791	Soil	0.12	6.7	1.4	<0.05	2.1	9.84	13.7	0.04	<1	1.1	8.9	<10	<2
1097792	Soil	0.11	6.4	0.6	<0.05	2.3	8.63	12.7	0.03	3	0.4	7.3	<10	<2
1097793	Soil	0.07	5.1	1.5	<0.05	1.3	9.48	14.5	0.03	<1	1.1	5.2	<10	<2
1097794	Soil	0.20	11.3	1.1	<0.05	1.9	7.92	11.6	0.04	<1	1.2	39.9	<10	<2
1097795	Soil	0.12	10.1	1.2	<0.05	1.1	16.94	17.5	0.04	<1	1.2	17.9	<10	<2
1097796	Soil	0.55	17.5	1.0	<0.05	3.6	10.79	27.5	0.04	2	1.2	31.9	<10	<2
1097797	Soil	0.33	18.7	4.0	<0.05	2.5	16.04	28.6	0.04	<1	1.4	19.8	<10	<2
1097798	Soil	0.35	9.4	0.6	<0.05	2.3	10.43	27.5	0.03	<1	0.5	12.0	<10	<2
1097799	Soil	0.51	12.0	2.8	<0.05	2.1	9.47	39.3	0.04	<1	0.9	25.0	<10	<2
1097800	Soil	0.30	12.7	0.8	<0.05	2.3	5.50	21.3	0.05	<1	0.7	20.0	<10	<2
1098001	Soil	0.57	10.1	2.7	<0.05	1.2	11.42	24.7	0.02	<1	1.0	18.9	<10	<2
1098002	Soil	0.23	9.5	0.6	<0.05	1.3	9.82	18.3	0.05	2	1.1	18.5	<10	<2
1098003	Soil	0.49	11.5	1.9	<0.05	1.7	8.73	23.6	0.04	<1	1.3	37.3	<10	<2
1098004	Soil	0.37	9.8	0.8	<0.05	1.5	8.75	19.6	0.03	<1	0.9	28.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1098005	Soil	0.79	33.78	22.45	87.0	161	27.8	12.0	618	3.21	13.5	2.5	3.0	2.3	36.9	0.27	0.63	0.25	28	1.29	0.052
1098006	Soil	0.77	32.18	25.21	70.9	162	25.8	12.0	683	3.44	24.6	2.5	2.8	2.6	54.1	0.20	1.45	0.23	23	2.52	0.075
1098007	Soil	0.63	24.31	25.25	84.3	131	21.4	10.2	790	3.41	17.8	1.6	2.4	1.8	21.4	0.22	1.05	0.23	25	2.56	0.090
1098008	Soil	0.89	19.33	19.70	76.9	31	24.9	11.5	448	3.87	14.0	0.7	1.9	3.9	11.4	0.14	0.68	0.23	42	0.21	0.022
1098009	Soil	0.71	17.16	20.08	51.2	101	17.2	8.9	1040	2.77	17.6	3.3	0.6	1.9	31.9	0.22	1.07	0.20	29	5.75	0.062
1098010	Soil	0.70	29.87	24.59	92.5	126	22.1	12.7	1474	3.56	18.3	2.9	1.2	2.9	18.6	0.41	0.79	0.24	35	3.19	0.056
1098011	Soil	0.60	15.30	14.72	58.3	68	17.3	11.3	268	2.84	7.3	1.9	1.6	4.0	15.4	0.07	0.33	0.24	36	0.26	0.015
1098012	Soil	0.55	31.69	23.53	68.8	102	26.7	13.2	930	3.55	12.9	2.1	1.4	3.3	26.5	0.16	0.57	0.29	25	1.99	0.048
1098013	Soil	0.60	27.49	19.44	59.3	64	25.5	14.2	432	3.43	6.1	0.9	1.6	5.1	10.0	0.13	0.29	0.31	36	0.08	0.032
1098014	Soil	0.62	29.20	21.43	73.3	54	29.2	13.7	447	3.73	6.8	0.8	3.1	5.1	20.9	0.11	0.30	0.44	35	0.41	0.035
1098015	Soil	0.50	25.06	23.34	73.4	55	31.8	14.7	384	3.71	5.4	0.5	2.0	6.0	12.4	0.06	0.15	0.39	31	0.29	0.019
1098016	Soil	0.62	41.13	23.51	78.4	148	27.5	13.8	411	3.23	7.3	1.0	2.8	3.4	71.8	0.13	0.34	0.42	29	1.20	0.049
1097731	Soil	0.49	44.24	28.13	86.4	98	40.9	21.5	534	3.51	10.3	0.8	2.6	3.9	46.3	0.04	0.44	0.37	14	0.79	0.039
1097732	Soil	0.62	34.37	27.97	102.1	94	31.0	14.4	318	3.12	8.6	1.1	2.0	4.2	57.4	0.17	0.33	0.33	13	1.22	0.051
1097733	Soil	0.94	25.74	20.90	86.4	79	30.7	13.0	277	3.00	13.6	0.7	1.3	3.9	94.6	0.10	0.31	0.28	11	3.33	0.083
1097734	Soil	0.45	26.07	25.03	138.7	108	24.2	9.8	314	2.43	9.1	0.9	1.3	1.0	81.7	0.93	0.29	0.27	13	2.90	0.059
1097735	Soil	0.49	24.36	34.80	160.6	83	22.1	10.6	366	2.52	10.1	1.0	1.6	1.1	89.0	0.40	0.27	0.24	12	3.14	0.061
1097736	Soil	0.34	20.85	8.97	53.0	79	12.5	4.0	347	0.91	2.1	0.7	0.7	0.2	119.4	0.13	0.21	0.17	7	4.13	0.060
1097737	Soil	0.63	41.13	23.06	88.3	122	29.5	12.4	375	3.00	9.0	0.7	2.7	2.9	56.2	0.09	0.34	0.33	14	1.05	0.051
1097738	Soil	0.44	35.52	17.82	80.7	83	34.5	14.5	319	2.82	5.3	0.8	2.4	4.5	45.0	0.12	0.36	0.30	19	0.53	0.039
1097739	Soil	0.49	45.90	11.22	74.2	79	27.6	7.8	195	1.94	2.7	2.0	3.0	1.3	98.5	0.14	0.31	0.24	17	2.45	0.069
1097740	Soil	0.51	24.46	14.54	83.3	90	26.0	11.4	201	2.58	3.1	2.4	3.8	4.3	83.2	0.24	0.50	0.24	27	1.63	0.052
1097741	Soil	0.46	27.85	16.53	73.4	101	27.4	11.4	290	2.74	4.6	1.5	2.9	3.7	88.9	0.16	0.36	0.25	26	1.72	0.044
1097742	Soil	0.53	32.64	19.65	91.3	80	30.6	13.8	320	3.09	6.6	0.9	2.7	5.5	53.0	0.13	0.38	0.27	22	1.04	0.043
1097853	Soil	0.65	51.82	28.99	123.2	78	56.8	19.0	860	3.78	3.3	1.1	2.5	5.7	54.4	0.27	0.30	0.34	25	0.58	0.056
1097854	Soil	0.83	31.78	24.14	75.4	40	29.5	12.0	456	4.00	4.2	0.6	1.5	4.9	10.4	0.12	0.48	0.37	37	0.08	0.042
1097855	Soil	0.65	29.06	19.46	106.5	46	27.5	11.3	246	3.00	3.8	1.4	1.4	5.3	25.4	0.13	0.35	0.28	28	0.62	0.059
1097856	Soil	0.55	68.01	55.26	157.4	53	58.6	24.8	992	4.25	3.3	1.0	1.5	6.8	21.2	0.19	0.44	0.40	22	0.21	0.047
1097857	Soil	0.66	58.00	60.28	122.8	92	53.5	26.3	1334	3.90	3.6	1.1	4.3	7.7	38.7	0.25	0.31	0.37	24	0.44	0.056
1097858	Soil	0.61	29.69	19.87	92.8	87	32.2	13.2	256	1.98	3.5	1.8	4.4	8.5	123.7	0.14	0.39	0.19	22	6.10	0.081



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method Analyte	1F15 La		1F15 Cr		1F15 Mg		1F15 Ba		1F15 Ti		1F15 B		1F15 Al		1F15 Na		1F15 K		1F15 W		1F15 Sc		1F15 Tl		1F15 S		1F15 Hg		1F15 Se		1F15 Te		1F15 Ga		1F15 Cs		1F15 Ge		1F15 Hf		
	Unit	ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1098005	Soil	10.6	23.0	0.59	120.0	0.006	4	1.19	0.005	0.11	<0.1	5.3	0.26	0.04	239	1.1	0.03	3.3	1.53	<0.1	0.03																				
1098006	Soil	9.5	20.0	1.13	95.0	0.003	3	0.97	0.005	0.11	<0.1	4.8	0.35	0.04	320	1.2	0.04	2.9	1.26	<0.1	0.05																				
1098007	Soil	8.9	20.7	1.37	97.8	0.005	5	1.15	0.004	0.09	<0.1	3.6	0.12	0.04	148	0.8	0.08	3.1	1.03	<0.1	0.03																				
1098008	Soil	9.3	27.7	0.40	127.1	0.006	4	1.93	0.003	0.10	<0.1	3.2	0.12	<0.02	96	0.6	0.07	4.8	1.52	<0.1	0.02																				
1098009	Soil	8.0	21.5	3.13	125.4	0.007	3	1.25	0.006	0.08	0.1	2.7	0.15	0.03	190	0.8	0.06	3.2	1.16	<0.1	0.04																				
1098010	Soil	14.2	25.3	1.84	143.5	0.005	5	1.64	0.005	0.11	<0.1	4.2	0.21	0.04	110	0.8	0.06	4.4	1.11	<0.1	0.06																				
1098011	Soil	10.6	24.9	0.36	121.0	0.009	2	1.41	0.002	0.15	<0.1	2.5	0.10	<0.02	34	0.3	0.08	5.1	1.17	<0.1	0.02																				
1098012	Soil	9.6	27.2	1.01	161.5	0.003	5	1.37	0.004	0.14	<0.1	4.8	0.14	0.04	160	0.9	0.06	4.5	1.32	<0.1	0.05																				
1098013	Soil	9.9	33.5	0.38	172.1	0.004	2	1.78	0.002	0.18	<0.1	4.1	0.13	<0.02	43	0.5	0.03	6.1	1.87	<0.1	0.05																				
1098014	Soil	10.7	33.4	0.48	249.0	0.004	3	1.85	0.003	0.15	<0.1	4.0	0.14	<0.02	49	0.2	<0.02	6.5	1.87	<0.1	0.03																				
1098015	Soil	8.6	38.4	0.57	130.1	0.003	3	1.78	0.005	0.12	<0.1	3.7	0.08	<0.02	28	0.1	<0.02	6.7	1.75	<0.1	0.05																				
1098016	Soil	10.4	29.1	0.47	170.9	0.005	6	1.58	0.005	0.14	<0.1	4.7	0.13	0.06	84	0.6	0.03	5.4	2.89	<0.1	0.05																				
1097731	Soil	4.3	15.3	0.31	99.8	<0.001	5	0.85	0.003	0.11	<0.1	4.3	0.14	0.06	253	0.7	0.05	2.7	1.31	<0.1	0.05																				
1097732	Soil	5.8	16.1	0.29	98.6	<0.001	6	0.94	0.005	0.10	<0.1	5.0	0.10	0.09	210	0.8	0.04	2.6	0.58	<0.1	0.07																				
1097733	Soil	4.7	12.6	0.28	41.7	0.001	6	0.86	0.006	0.08	<0.1	4.5	0.12	0.05	71	0.6	0.05	2.2	1.43	<0.1	0.05																				
1097734	Soil	4.3	12.1	0.24	93.8	0.001	6	0.96	0.005	0.08	<0.1	2.7	0.12	0.07	87	0.7	0.03	2.5	0.80	<0.1	0.04																				
1097735	Soil	5.4	10.2	0.18	95.6	0.001	6	0.80	0.004	0.08	<0.1	2.6	0.11	0.08	75	0.7	0.04	2.0	0.77	<0.1	0.02																				
1097736	Soil	2.2	6.8	0.12	78.1	0.002	12	0.40	0.007	0.05	<0.1	0.7	0.05	0.14	99	0.6	<0.02	1.0	0.49	<0.1	0.02																				
1097737	Soil	4.7	15.9	0.30	95.8	0.001	6	1.06	0.004	0.13	<0.1	4.3	0.13	0.05	174	0.8	0.10	3.3	1.40	<0.1	0.04																				
1097738	Soil	7.3	25.5	0.48	107.4	0.002	4	1.22	0.002	0.16	<0.1	5.1	0.12	0.02	140	0.5	0.04	4.0	1.19	<0.1	0.04																				
1097739	Soil	7.4	23.6	0.68	215.3	0.003	9	1.28	0.006	0.13	<0.1	3.6	0.14	0.11	120	0.7	0.04	3.6	1.98	<0.1	0.07																				
1097740	Soil	13.2	37.2	0.53	246.4	0.002	6	1.11	0.003	0.12	<0.1	5.6	0.14	0.06	323	1.0	<0.02	3.7	0.92	<0.1	0.10																				
1097741	Soil	12.2	34.2	0.47	231.0	0.002	6	1.10	0.004	0.12	<0.1	5.4	0.10	0.05	179	0.8	0.04	3.5	0.75	<0.1	0.09																				
1097742	Soil	13.5	27.1	0.41	124.6	0.002	5	0.88	0.003	0.12	<0.1	5.7	0.11	0.04	153	0.8	0.02	3.0	1.20	<0.1	0.07																				
1097853	Soil	12.2	43.8	0.93	184.5	0.006	7	1.49	0.003	0.22	<0.1	7.8	0.18	0.04	68	0.4	<0.02	4.8	2.96	<0.1	0.10																				
1097854	Soil	9.4	35.3	0.66	157.5	0.005	4	2.07	<0.001	0.17	<0.1	3.0	0.17	<0.02	51	0.3	0.04	8.0	3.32	<0.1	0.03																				
1097855	Soil	22.7	37.6	0.34	89.2	0.002	3	0.93	0.003	0.14	<0.1	5.1	0.10	0.04	71	0.7	0.04	3.6	0.31	<0.1	0.09																				
1097856	Soil	9.0	46.3	1.42	117.5	0.005	5	2.23	0.001	0.20	<0.1	6.9	0.17	<0.02	42	0.2	0.02	6.8	3.54	<0.1	0.06																				
1097857	Soil	10.1	52.2	1.70	207.6	0.005	7	2.59	0.002	0.23	<0.1	8.2	0.25	0.03	36	0.3	<0.02	7.3	4.56	<0.1	0.16																				
1097858	Soil	12.3	35.9	1.66	99.5	<0.001	3	0.71	0.007	0.14	<0.1	4.3	0.14	<0.02	422	0.7	<0.02	2.7	2.66	<0.1	0.10																				



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 6 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1098005	Soil	0.35	10.6	2.0	<0.05	0.9	11.75	24.2	0.03	<1	1.0	20.9	<10	<2
1098006	Soil	0.23	8.8	0.9	<0.05	1.7	10.80	21.2	0.03	3	1.2	15.3	<10	<2
1098007	Soil	0.28	9.7	1.1	<0.05	1.2	8.88	18.9	0.03	<1	1.0	16.0	<10	<2
1098008	Soil	0.50	14.8	0.7	<0.05	1.9	3.86	22.8	0.03	<1	0.7	28.3	<10	<2
1098009	Soil	0.56	11.3	2.6	<0.05	0.8	5.85	18.7	0.02	2	0.7	15.8	<10	<2
1098010	Soil	0.62	10.9	0.8	<0.05	1.6	10.73	27.5	0.05	<1	1.2	15.0	<10	<2
1098011	Soil	0.67	15.6	1.5	<0.05	1.4	3.47	22.8	0.03	<1	0.8	30.4	<10	<2
1098012	Soil	0.46	13.8	0.8	<0.05	1.4	10.50	23.5	0.04	<1	1.2	23.7	<10	<2
1098013	Soil	0.67	19.8	3.9	<0.05	1.5	7.29	24.4	0.03	<1	0.8	35.8	<10	<2
1098014	Soil	0.59	18.6	1.2	<0.05	1.3	8.55	23.5	0.05	<1	1.1	37.1	<10	<2
1098015	Soil	0.40	13.4	3.3	<0.05	1.7	5.59	21.7	0.02	<1	1.3	38.0	<10	<2
1098016	Soil	0.60	20.9	1.2	<0.05	1.7	17.97	22.0	0.03	<1	1.5	42.3	<10	<2
1097731	Soil	0.13	9.4	1.1	<0.05	2.2	8.60	11.1	0.04	<1	1.1	18.3	<10	<2
1097732	Soil	0.18	6.3	0.8	<0.05	2.9	12.01	15.1	<0.02	<1	1.2	18.7	<10	<2
1097733	Soil	0.13	5.8	2.7	<0.05	2.9	10.25	13.7	0.02	1	1.0	21.4	<10	<2
1097734	Soil	0.17	5.7	0.6	<0.05	1.1	7.98	10.2	0.04	<1	0.9	17.9	<10	<2
1097735	Soil	0.22	5.8	1.6	<0.05	0.9	8.53	16.4	0.03	<1	0.9	12.2	<10	<2
1097736	Soil	0.14	3.3	0.4	<0.05	0.9	3.70	4.9	<0.02	<1	0.4	5.9	<10	<2
1097737	Soil	0.21	10.2	1.5	<0.05	1.5	9.21	10.8	0.05	<1	1.0	23.6	<10	<2
1097738	Soil	0.27	11.1	0.7	<0.05	1.8	8.96	17.9	0.04	1	1.2	28.8	<10	<2
1097739	Soil	0.47	13.3	1.0	<0.05	2.3	13.39	13.1	0.03	<1	1.1	25.9	<10	<2
1097740	Soil	0.41	11.4	0.7	<0.05	4.3	10.13	29.6	0.03	<1	0.9	21.1	<10	<2
1097741	Soil	0.39	8.7	0.9	<0.05	3.2	10.72	27.5	0.03	<1	1.0	19.5	<10	<2
1097742	Soil	0.24	10.5	0.6	<0.05	2.7	9.25	33.3	0.04	<1	1.0	17.9	<10	<2
1097853	Soil	0.27	16.9	4.2	<0.05	2.5	18.47	29.6	0.04	<1	1.8	37.0	<10	<2
1097854	Soil	0.47	22.4	1.3	<0.05	1.3	4.66	22.3	0.04	<1	1.1	49.5	<10	<2
1097855	Soil	0.24	10.3	1.7	<0.05	2.6	11.43	51.3	0.02	<1	0.8	13.1	<10	<2
1097856	Soil	0.16	15.8	2.1	<0.05	2.1	11.32	26.6	0.04	<1	1.6	58.1	<10	<2
1097857	Soil	0.23	19.4	6.6	<0.05	5.7	20.21	28.7	0.04	2	1.7	70.6	<10	<2
1097858	Soil	<0.02	10.1	1.1	<0.05	6.7	8.91	32.2	0.03	<1	0.8	6.3	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1097859	Soil	2.31	48.54	25.85	96.9	513	29.6	14.6	356	2.43	14.6	6.2	20.7	7.5	235.3	0.51	0.84	0.26	25	4.88	0.159
1097860	Soil	1.02	32.97	23.76	83.0	79	25.0	11.9	579	3.23	8.9	2.2	0.9	2.1	89.2	0.20	0.45	0.37	20	1.37	0.090
1097861	Soil	0.38	28.88	25.87	80.4	67	26.5	12.4	617	3.74	9.3	2.7	1.1	4.3	49.7	0.17	0.24	0.31	26	0.80	0.097
1097862	Soil	0.65	30.54	36.44	158.4	75	18.9	30.3	3358	4.83	7.5	0.6	0.7	1.9	9.5	0.32	0.40	0.36	39	0.06	0.111
1097863	Soil	0.51	27.80	27.84	92.4	75	21.4	15.0	1093	4.38	7.3	0.5	0.4	2.4	14.3	0.15	0.29	0.41	35	0.09	0.058
1097864	Soil	0.81	45.74	52.41	117.3	216	41.4	25.1	959	4.08	25.4	0.7	1.0	3.5	44.9	0.07	0.59	0.42	23	0.66	0.044
1097865	Soil	0.72	50.41	58.99	119.6	257	42.9	23.0	933	4.08	18.9	0.6	1.4	3.8	43.1	0.08	0.46	0.46	24	0.61	0.037
1097866	Soil	0.69	30.62	34.47	94.5	108	25.4	13.3	424	4.06	10.0	0.7	<0.2	1.7	69.9	0.15	0.36	0.41	32	1.12	0.066
1097867	Soil	0.50	35.17	26.94	97.8	148	27.4	7.7	142	2.75	8.4	1.1	0.8	2.4	54.4	0.18	0.38	0.31	20	1.17	0.079
1097868	Soil	1.18	22.23	34.42	59.3	506	10.6	4.0	80	4.71	7.9	0.4	0.5	2.9	9.7	0.04	0.42	0.60	27	0.02	0.043
1097869	Soil	0.54	22.44	47.66	67.0	217	34.7	13.2	615	2.96	32.7	1.1	1.4	4.0	39.2	0.12	1.87	0.37	10	1.06	0.065
1097870	Soil	0.25	19.68	32.65	14.3	193	14.4	5.7	417	1.40	32.9	3.8	1.5	2.9	53.5	0.02	2.56	0.12	9	11.73	0.215
1097871	Soil	0.56	7.10	17.14	63.7	68	8.4	3.3	1334	1.52	7.9	1.2	0.7	0.4	27.7	0.23	0.46	0.10	12	10.75	0.108
1097872	Soil	0.75	10.37	26.81	90.4	49	16.9	9.0	1798	4.15	14.4	1.0	1.8	4.6	7.2	0.21	0.92	0.20	39	0.22	0.034
1097873	Soil	0.46	9.28	27.70	46.2	95	7.8	4.5	1735	2.00	24.1	0.7	1.5	0.3	40.0	0.26	1.88	0.07	9	9.36	0.083
1097874	Soil	0.54	10.47	14.12	84.9	62	17.4	11.0	5162	7.52	20.7	0.6	0.9	2.5	7.1	0.29	0.42	0.21	26	0.73	0.085
1097875	Soil	0.51	9.98	14.60	33.1	18	14.1	10.2	169	3.17	6.1	0.4	4.7	1.8	3.4	0.07	0.34	0.39	17	0.10	0.025
1097876	Soil	0.78	19.74	27.08	31.8	29	15.6	11.0	276	3.29	2.2	0.4	0.5	1.8	3.0	0.03	0.39	0.43	17	0.03	0.027
1097877	Soil	0.54	17.70	14.70	64.2	83	16.2	8.6	486	3.03	2.7	0.4	<0.2	4.5	8.2	0.09	0.25	0.34	30	0.15	0.021
1097878	Soil	0.79	16.13	16.85	69.1	232	19.7	11.3	933	3.63	5.5	0.4	<0.2	3.5	5.4	0.12	0.34	0.30	41	0.07	0.025
1097879	Soil	0.47	26.28	23.19	72.6	68	35.4	15.0	589	4.10	6.6	0.5	1.4	4.9	7.8	0.05	0.34	0.34	28	0.12	0.020
1097880	Soil	0.47	25.33	27.74	111.6	136	28.8	13.5	696	3.95	7.9	0.6	<0.2	4.6	8.1	0.09	0.22	0.40	15	0.18	0.048
1097881	Soil	0.92	20.03	43.73	132.1	85	33.1	15.2	675	3.94	7.0	0.8	0.9	1.3	8.4	0.13	0.33	0.36	17	0.09	0.087
1097882	Soil	0.55	15.49	24.99	84.0	88	18.9	5.6	172	2.44	5.9	0.5	0.7	0.9	10.8	0.07	0.27	0.29	11	0.18	0.059
1097883	Soil	0.92	16.27	52.68	85.6	110	23.4	9.3	382	2.47	8.8	1.0	0.8	2.1	19.2	0.10	0.58	0.23	15	0.55	0.085
1097884	Soil	0.62	22.63	77.24	279.4	136	25.1	7.2	638	1.93	11.0	1.5	1.5	2.5	90.6	0.51	0.62	0.24	14	5.78	0.115
1097885	Soil	0.59	20.26	44.68	147.1	102	25.4	9.6	1060	3.57	16.9	1.2	<0.2	3.6	8.2	0.30	1.06	0.29	24	0.27	0.056
1097886	Soil	0.66	19.87	43.26	123.7	183	27.1	9.7	1943	4.64	24.2	1.0	0.8	2.8	18.7	0.28	1.40	0.26	26	2.27	0.115
1097887	Soil	0.49	5.45	15.84	52.0	43	6.7	3.2	2777	2.89	12.3	0.5	<0.2	0.3	21.4	0.27	0.41	0.05	7	10.17	0.106
1097888	Soil	0.45	40.13	13.03	44.7	20	32.6	14.6	914	3.91	2.5	1.2	1.2	5.6	5.9	0.13	0.40	0.37	20	0.36	0.032



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097859	Soil	14.2	16.4	2.22	137.5	0.003	11	0.88	0.008	0.27	<0.1	5.4	0.31	<0.02	334	1.0	0.03	2.3	0.89	<0.1	0.06
1097860	Soil	13.8	17.6	0.30	197.2	0.002	3	1.41	0.003	0.09	<0.1	3.4	0.11	0.06	202	0.3	0.03	3.4	0.49	<0.1	0.05
1097861	Soil	29.7	24.6	0.55	205.3	0.002	3	2.32	0.002	0.11	<0.1	7.7	0.09	0.05	45	0.1	0.09	5.8	1.15	<0.1	0.06
1097862	Soil	4.2	27.9	0.29	155.7	0.003	4	1.81	0.002	0.18	<0.1	2.4	0.13	0.04	60	0.3	0.06	6.9	2.86	<0.1	0.04
1097863	Soil	5.1	27.8	0.37	123.1	0.002	4	1.97	0.004	0.18	<0.1	2.9	0.12	0.02	24	0.1	0.08	7.6	3.58	<0.1	0.03
1097864	Soil	7.0	30.1	0.58	122.8	0.002	4	1.85	0.005	0.16	<0.1	6.8	0.12	0.03	20	0.2	0.07	5.3	2.71	<0.1	0.10
1097865	Soil	7.3	32.1	0.62	116.5	0.001	4	1.97	0.007	0.16	<0.1	7.2	0.12	0.02	16	0.2	0.07	5.6	3.26	<0.1	0.10
1097866	Soil	5.3	26.6	0.31	121.2	0.003	3	1.65	0.007	0.13	<0.1	3.0	0.14	0.05	37	0.3	0.17	6.5	2.93	<0.1	0.03
1097867	Soil	7.4	21.6	0.45	108.2	0.002	4	1.39	0.006	0.11	<0.1	4.2	0.11	0.07	78	0.4	0.02	4.0	1.52	<0.1	0.07
1097868	Soil	4.3	20.4	0.11	40.3	0.002	2	1.13	0.004	0.09	<0.1	1.9	0.18	0.03	40	0.5	0.05	5.0	3.55	<0.1	0.03
1097869	Soil	9.0	8.6	0.26	70.8	<0.001	4	0.64	0.004	0.11	<0.1	4.3	0.15	0.06	408	0.5	<0.02	1.4	0.56	<0.1	0.05
1097870	Soil	8.3	7.7	7.10	15.9	0.002	2	0.48	0.005	0.03	<0.1	2.0	0.11	<0.02	571	0.1	<0.02	0.9	0.12	<0.1	0.08
1097871	Soil	6.5	10.8	5.93	80.9	0.005	5	0.60	0.009	0.02	<0.1	0.4	0.06	0.04	89	<0.1	<0.02	1.2	0.30	<0.1	0.03
1097872	Soil	11.8	22.9	0.30	155.6	0.004	2	1.64	0.002	0.03	0.2	3.4	0.12	<0.02	258	<0.1	0.03	3.7	0.89	<0.1	0.04
1097873	Soil	4.0	7.2	4.92	69.5	0.002	3	0.32	0.007	0.02	<0.1	0.6	0.32	0.02	273	<0.1	0.03	0.7	0.19	<0.1	0.02
1097874	Soil	16.4	16.5	0.34	222.5	0.003	3	1.20	0.003	0.07	<0.1	3.4	0.14	0.05	136	0.3	0.06	3.1	0.58	<0.1	0.09
1097875	Soil	3.2	12.6	0.12	146.5	0.005	3	0.63	0.001	0.16	<0.1	2.7	0.09	<0.02	24	<0.1	0.05	2.4	1.01	<0.1	<0.02
1097876	Soil	2.7	25.1	0.12	87.5	0.010	4	0.74	0.002	0.21	0.2	1.4	0.12	<0.02	15	<0.1	0.08	2.5	2.23	<0.1	<0.02
1097877	Soil	8.9	24.7	0.27	179.5	0.004	2	1.50	<0.001	0.24	<0.1	2.0	0.12	<0.02	11	<0.1	0.03	6.1	1.00	<0.1	<0.02
1097878	Soil	8.4	27.8	0.24	167.6	0.004	1	1.80	<0.001	0.14	<0.1	2.2	0.12	<0.02	16	0.4	0.07	6.5	1.02	<0.1	0.03
1097879	Soil	8.3	32.5	0.49	89.1	0.005	2	1.93	0.002	0.12	<0.1	3.2	0.10	<0.02	24	<0.1	0.06	6.2	1.48	<0.1	0.03
1097880	Soil	9.3	17.2	0.29	120.3	0.002	3	1.16	0.002	0.08	<0.1	4.6	0.13	0.02	31	0.4	0.03	3.3	1.98	<0.1	0.07
1097881	Soil	6.5	23.4	0.19	112.1	0.005	2	1.05	0.002	0.12	<0.1	1.9	0.17	0.04	34	0.6	0.04	3.1	2.00	<0.1	0.03
1097882	Soil	4.5	8.6	0.05	57.5	0.003	3	0.47	0.001	0.09	<0.1	1.2	0.09	0.02	18	0.3	<0.02	1.7	0.67	<0.1	<0.02
1097883	Soil	8.9	16.0	0.14	60.1	0.004	3	0.69	0.003	0.08	<0.1	3.1	0.12	0.04	128	0.4	0.03	1.7	1.08	<0.1	0.05
1097884	Soil	17.8	18.6	0.13	63.0	0.002	5	0.68	0.004	0.10	<0.1	2.8	0.08	0.05	126	0.4	0.08	1.9	0.30	<0.1	0.14
1097885	Soil	15.6	18.5	0.19	91.5	0.003	2	0.98	0.002	0.10	0.1	3.6	0.09	0.02	44	0.2	0.05	2.6	0.24	<0.1	0.07
1097886	Soil	22.4	21.2	1.14	106.0	0.004	4	1.15	0.002	0.06	<0.1	3.6	0.11	0.06	313	0.7	0.09	2.7	0.38	<0.1	0.16
1097887	Soil	5.2	8.3	5.03	57.0	0.002	4	0.19	0.007	0.03	<0.1	0.5	0.07	0.04	58	0.2	0.04	0.5	0.16	<0.1	0.03
1097888	Soil	11.3	16.0	0.15	105.9	0.004	3	1.05	<0.001	0.25	<0.1	8.1	0.12	<0.02	20	0.1	0.08	3.1	1.07	<0.1	0.06



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 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: September 24, 2011

Page: 7 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1097859	Soil	0.07	12.2	1.8	<0.05	3.2	14.97	37.0	0.03	1	1.4	9.1	<10	<2
1097860	Soil	0.23	9.2	0.6	<0.05	1.6	17.97	34.8	0.06	<1	1.2	18.0	<10	<2
1097861	Soil	0.22	12.2	1.5	<0.05	1.8	32.94	69.3	0.05	<1	1.6	40.9	<10	<2
1097862	Soil	0.24	23.9	1.0	<0.05	1.2	4.09	10.9	0.04	2	1.1	24.9	<10	<2
1097863	Soil	0.29	23.0	2.5	<0.05	1.3	3.03	11.3	0.04	<1	0.9	45.0	<10	<2
1097864	Soil	0.15	10.6	2.3	<0.05	3.3	13.84	18.2	0.04	<1	1.4	53.0	<10	<2
1097865	Soil	0.15	11.3	4.8	<0.05	3.4	15.72	17.1	0.07	1	1.5	60.4	<10	<2
1097866	Soil	0.49	16.2	1.0	<0.05	1.1	5.18	12.2	0.03	<1	1.0	42.0	<10	<2
1097867	Soil	0.36	11.3	3.2	<0.05	2.4	12.31	15.6	0.04	<1	1.1	33.3	<10	<2
1097868	Soil	0.27	13.5	1.1	<0.05	1.3	2.04	9.0	0.03	<1	0.4	11.2	<10	<2
1097869	Soil	0.11	5.8	1.5	<0.05	2.1	15.70	27.5	0.04	<1	1.0	4.8	<10	<2
1097870	Soil	0.03	1.2	1.1	<0.05	2.3	12.10	21.4	<0.02	<1	0.1	0.8	<10	<2
1097871	Soil	0.15	3.1	6.7	<0.05	0.8	8.45	13.2	<0.02	2	0.2	3.3	<10	<2
1097872	Soil	0.35	6.7	1.2	<0.05	1.6	9.46	31.4	0.03	<1	0.7	11.6	<10	<2
1097873	Soil	0.03	2.2	3.9	<0.05	0.7	5.75	8.9	<0.02	<1	0.5	1.3	<10	<2
1097874	Soil	0.22	7.4	1.9	<0.05	2.0	18.37	29.1	0.02	3	1.0	5.9	<10	<2
1097875	Soil	0.16	12.3	4.9	<0.05	0.1	1.90	7.7	0.03	<1	1.0	4.4	<10	<2
1097876	Soil	0.34	18.8	13.1	<0.05	0.2	1.66	6.6	<0.02	<1	0.4	3.4	<10	<2
1097877	Soil	0.28	21.7	2.0	<0.05	0.7	2.76	19.8	0.02	<1	0.6	20.3	<10	<2
1097878	Soil	0.47	17.5	4.0	<0.05	1.4	2.18	18.5	<0.02	<1	0.7	21.1	<10	<2
1097879	Soil	0.37	12.4	2.0	<0.05	1.4	3.94	31.8	0.05	<1	1.2	35.2	<10	<2
1097880	Soil	0.18	11.0	2.2	<0.05	1.9	14.63	30.7	0.07	<1	1.2	21.2	<10	<2
1097881	Soil	0.18	13.9	8.9	<0.05	0.6	6.58	40.6	0.04	2	1.0	12.3	<10	<2
1097882	Soil	0.14	9.6	1.9	<0.05	0.6	3.34	17.3	0.02	<1	0.6	2.7	<10	<2
1097883	Soil	0.20	6.9	3.6	<0.05	1.5	13.33	44.8	<0.02	<1	0.8	4.5	<10	<2
1097884	Soil	0.15	4.5	10.8	<0.05	4.3	22.95	34.5	0.02	<1	0.7	2.4	<10	<2
1097885	Soil	0.22	6.2	2.0	<0.05	2.5	17.45	38.2	0.02	<1	1.1	4.8	<10	<2
1097886	Soil	0.20	5.4	3.6	<0.05	3.6	31.68	43.9	0.03	<1	1.1	5.2	<10	<2
1097887	Soil	0.04	1.7	7.5	<0.05	0.9	5.58	10.7	<0.02	<1	0.1	0.7	<10	<2
1097888	Soil	0.17	14.0	2.8	<0.05	1.6	15.83	30.8	0.04	<1	1.6	3.7	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: September 24, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1097889	Soil			0.57	20.63	15.98	49.0	118	16.3	10.3	433	3.71	4.5	0.4	<0.2	3.6	3.5	0.05	0.28	0.34	38	0.03	0.031
1097890	Soil			0.82	29.28	48.70	79.2	139	38.2	27.7	1642	3.58	4.3	0.8	1.6	2.9	10.2	0.07	0.22	0.37	29	0.20	0.058
1097891	Soil			0.94	15.84	34.65	45.5	69	21.0	11.2	1256	3.11	8.1	0.5	0.3	3.7	7.4	0.10	0.35	0.23	22	0.40	0.067
1097892	Soil			0.65	21.85	26.87	102.3	95	23.2	11.2	506	3.79	6.0	0.4	0.7	4.1	4.0	0.12	0.19	0.42	31	0.03	0.044
1097893	Soil			0.82	25.37	18.07	83.8	435	26.3	11.1	311	4.00	7.6	0.5	0.3	3.3	4.5	0.13	0.35	0.43	35	0.03	0.050
1097894	Soil			1.06	25.98	30.42	83.7	249	29.4	12.9	411	4.50	8.8	0.5	1.1	3.7	6.3	0.10	0.42	0.46	40	0.04	0.057
1097895	Soil			0.86	18.12	23.63	93.5	122	20.9	12.7	594	3.40	5.3	0.4	0.8	2.6	8.8	0.07	0.28	0.40	37	0.07	0.038
1097824	Soil			0.71	46.56	49.06	127.3	144	44.8	19.7	874	3.66	6.5	1.1	4.3	5.8	56.7	0.22	0.53	0.34	29	0.58	0.089
1097825	Soil			0.45	24.71	14.31	91.7	58	25.7	10.3	391	2.83	2.8	1.1	1.6	4.1	25.0	0.18	0.30	0.21	27	0.73	0.076
1097826	Soil			0.75	14.28	12.74	52.0	100	16.5	6.5	277	2.07	7.6	1.8	0.9	1.3	50.5	0.13	0.33	0.16	35	0.57	0.064
1097827	Soil			2.08	27.52	23.09	79.3	523	23.2	8.7	377	2.21	10.1	3.1	8.8	1.2	105.5	0.45	0.97	0.20	23	2.15	0.105
1097828	Soil			0.64	31.98	21.81	97.1	132	35.4	13.5	329	3.02	3.5	1.1	3.4	5.1	32.2	0.15	0.45	0.26	28	1.03	0.077
1097829	Soil			1.31	36.30	26.89	82.5	209	27.9	13.7	268	2.15	12.1	2.8	6.8	4.6	136.6	0.17	0.78	0.28	15	4.39	0.074
1097830	Soil			2.05	34.19	28.85	80.9	424	22.3	10.2	336	1.80	14.8	5.7	18.2	3.6	329.2	0.39	1.16	0.26	18	8.22	0.113
1097831	Soil			0.52	39.29	24.82	96.9	100	29.5	13.4	284	2.99	9.8	2.2	2.8	2.7	83.5	0.14	0.34	0.42	15	1.14	0.058
1097832	Soil			0.73	31.84	58.67	103.4	118	25.8	25.2	1993	4.61	15.3	0.6	1.1	3.0	10.4	0.19	0.41	0.43	33	0.09	0.121
1097833	Soil			0.48	39.75	64.99	100.4	105	33.8	25.2	1686	4.75	19.1	1.2	1.0	4.3	36.4	0.15	0.48	0.46	24	0.49	0.108
1097834	Soil			0.65	27.56	36.04	101.4	139	22.9	14.7	897	3.42	10.8	0.9	<0.2	1.5	57.4	0.26	0.44	0.40	21	1.10	0.146
1097835	Soil			0.73	44.17	50.25	98.3	187	37.7	20.9	946	4.16	16.5	1.1	0.5	4.0	66.1	0.13	0.54	0.42	23	0.94	0.060
1097836	Soil			0.85	33.06	41.63	77.8	143	30.9	15.5	843	3.92	12.6	1.9	1.0	4.8	58.9	0.15	0.51	0.30	22	0.99	0.085
1097837	Soil			0.78	32.99	35.21	74.7	137	24.7	14.0	591	4.29	12.1	0.7	<0.2	2.4	17.9	0.08	0.42	0.40	29	0.16	0.049
1097838	Soil			0.89	30.37	38.97	83.6	168	29.5	10.6	299	4.33	19.8	1.2	1.0	2.7	88.4	0.13	0.46	0.30	19	1.30	0.060
1097839	Soil			0.81	31.12	55.09	155.8	229	47.7	20.4	732	4.42	8.6	0.6	1.2	7.0	102.7	0.09	0.21	0.47	13	0.90	0.046
1097840	Soil			0.42	17.46	32.47	317.9	193	13.2	5.6	4960	6.82	31.4	1.8	0.9	0.4	51.6	1.43	1.73	0.14	15	7.84	0.164
1097841	Soil			0.62	13.99	72.45	258.2	190	16.9	6.2	1654	3.57	24.1	2.0	0.3	1.0	38.0	0.83	1.44	0.21	25	2.95	0.109
1097842	Soil			0.71	19.03	35.07	71.9	185	21.5	9.0	2793	4.93	34.3	2.0	2.7	1.7	23.6	0.48	1.86	0.21	32	4.73	0.106
1097843	Soil			0.39	15.02	33.73	70.5	189	13.7	6.1	3399	5.15	35.1	1.9	1.6	0.6	25.7	0.43	1.42	0.15	22	9.48	0.140
1097844	Soil			0.51	13.88	16.58	163.5	141	12.5	5.6	4004	5.21	15.2	1.2	0.9	0.4	16.7	0.85	0.67	0.12	23	5.94	0.142
1097845	Soil			0.67	12.49	22.86	80.8	162	20.0	10.6	2706	5.00	19.0	1.2	1.1	2.4	11.3	0.37	0.85	0.26	52	0.89	0.085
1097846	Soil			0.78	15.45	40.89	71.7	147	16.4	8.1	1688	3.14	24.0	1.1	0.9	1.5	21.3	0.27	1.38	0.19	23	5.29	0.110



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method Analyte	1F15																				
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097889	Soil	8.9	24.0	0.17	161.4	0.005	2	1.37	<0.001	0.22	<0.1	2.4	0.13	<0.02	14	0.3	0.03	7.6	1.37	<0.1	0.03
1097890	Soil	9.3	37.4	0.40	251.3	0.011	3	1.53	0.002	0.31	<0.1	3.2	0.17	0.03	37	0.4	0.04	7.0	2.91	<0.1	<0.02
1097891	Soil	8.1	17.8	0.17	134.0	0.003	3	0.89	0.002	0.13	<0.1	2.9	0.07	0.03	36	0.4	0.05	2.8	0.45	<0.1	0.08
1097892	Soil	7.7	32.4	0.27	145.5	0.003	3	1.95	<0.001	0.26	<0.1	2.7	0.16	<0.02	21	<0.1	0.06	7.1	1.77	<0.1	0.02
1097893	Soil	6.5	35.7	0.31	99.8	0.003	<1	1.68	0.001	0.17	<0.1	2.5	0.10	<0.02	30	0.3	<0.02	7.4	1.74	<0.1	0.03
1097894	Soil	6.8	43.2	0.42	98.5	0.005	2	2.04	0.002	0.13	<0.1	2.8	0.09	<0.02	36	0.4	0.06	7.1	1.69	<0.1	0.04
1097895	Soil	7.5	30.0	0.27	210.2	0.003	1	1.81	0.004	0.15	<0.1	2.3	0.10	<0.02	24	0.3	0.05	7.7	1.01	<0.1	<0.02
1097824	Soil	15.6	52.0	1.09	316.8	0.009	6	1.55	0.003	0.15	<0.1	7.0	0.22	0.04	85	0.8	0.03	5.7	4.31	<0.1	0.14
1097825	Soil	22.3	35.3	0.85	163.3	0.007	4	1.25	0.004	0.14	<0.1	4.6	0.11	0.06	53	0.8	<0.02	4.8	0.68	<0.1	0.11
1097826	Soil	14.4	31.6	0.77	350.5	0.009	2	1.47	0.003	0.05	<0.1	2.0	0.12	0.04	62	0.5	<0.02	4.9	1.06	<0.1	0.05
1097827	Soil	14.0	20.0	0.35	121.9	0.004	5	0.67	0.006	0.07	<0.1	1.8	0.12	0.09	368	1.3	0.05	2.1	0.30	<0.1	0.08
1097828	Soil	21.7	45.3	0.76	151.9	0.008	5	0.97	0.004	0.15	<0.1	5.5	0.11	0.03	252	0.8	0.04	3.8	1.22	<0.1	0.09
1097829	Soil	9.1	17.2	1.18	489.2	0.002	6	0.71	0.006	0.13	<0.1	3.6	0.19	0.02	375	0.9	0.05	2.4	0.69	<0.1	0.07
1097830	Soil	10.9	15.5	3.01	139.0	0.002	8	0.43	0.010	0.13	<0.1	3.9	0.28	<0.02	935	0.9	0.04	1.5	0.47	<0.1	0.05
1097831	Soil	9.6	16.4	0.15	163.8	0.001	4	0.65	0.003	0.09	<0.1	4.9	0.11	0.04	238	0.2	0.07	1.7	0.50	<0.1	0.08
1097832	Soil	2.4	32.7	0.44	82.3	0.002	3	1.94	0.002	0.11	<0.1	2.6	0.11	0.05	40	0.2	0.04	6.1	3.05	<0.1	0.10
1097833	Soil	5.3	30.8	0.59	98.0	0.002	5	2.05	0.004	0.13	<0.1	8.5	0.11	0.05	44	<0.1	0.07	5.4	4.67	<0.1	0.08
1097834	Soil	4.8	22.1	0.31	154.0	0.003	4	1.41	0.006	0.12	<0.1	3.2	0.14	0.12	56	0.2	0.07	4.2	2.02	<0.1	0.07
1097835	Soil	10.5	29.0	0.49	103.6	0.002	4	1.71	0.005	0.12	<0.1	8.5	0.12	0.04	18	0.1	0.08	5.3	1.90	<0.1	0.15
1097836	Soil	14.2	22.9	0.34	142.8	0.002	3	1.32	0.005	0.10	<0.1	7.4	0.11	0.07	38	0.2	0.05	3.6	0.97	<0.1	0.13
1097837	Soil	4.2	25.4	0.34	137.9	0.001	2	1.69	0.003	0.13	<0.1	2.7	0.11	0.02	34	<0.1	0.12	5.3	1.31	<0.1	0.05
1097838	Soil	7.6	20.8	0.36	115.2	0.002	4	1.18	0.005	0.09	<0.1	4.7	0.10	0.23	40	0.4	0.05	3.7	1.44	<0.1	0.07
1097839	Soil	7.8	25.2	0.33	179.6	0.002	4	1.32	0.005	0.13	<0.1	7.6	0.25	0.05	80	0.2	0.02	3.7	4.92	<0.1	0.08
1097840	Soil	14.8	11.0	3.27	126.0	0.002	6	0.47	0.011	0.04	<0.1	1.0	0.15	0.12	358	0.6	0.09	1.1	0.35	<0.1	0.02
1097841	Soil	10.8	16.9	0.97	73.1	0.003	2	1.01	0.007	0.05	<0.1	1.9	0.07	0.10	299	0.4	0.04	2.7	0.30	<0.1	0.05
1097842	Soil	16.0	20.6	2.69	121.1	0.009	3	1.11	0.007	0.05	0.1	2.9	0.16	0.04	361	0.3	0.11	2.6	0.60	<0.1	0.04
1097843	Soil	13.7	14.5	4.80	118.2	0.004	4	0.88	0.012	0.04	<0.1	1.5	0.11	0.05	340	0.4	0.06	1.8	0.35	<0.1	<0.02
1097844	Soil	11.5	15.1	3.01	140.0	0.006	3	0.98	0.007	0.03	<0.1	1.1	0.09	0.09	236	0.7	0.04	2.1	0.47	<0.1	0.04
1097845	Soil	17.1	30.7	0.67	194.8	0.009	2	1.94	0.005	0.04	0.1	3.9	0.14	0.05	160	0.3	0.05	5.1	0.85	<0.1	0.07
1097846	Soil	9.4	16.0	2.83	125.7	0.003	3	1.03	0.007	0.06	<0.1	2.4	0.18	0.06	183	0.3	0.03	2.6	0.35	<0.1	0.07



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1097889	Soil	0.65	22.7	2.1	<0.05	0.8	3.07	19.7	0.03	<1	0.5	7.6	<10	<2
1097890	Soil	0.46	25.0	16.4	<0.05	0.4	6.98	30.0	<0.02	1	1.4	18.0	<10	<2
1097891	Soil	0.23	9.3	5.2	<0.05	2.4	8.37	25.7	<0.02	<1	0.8	5.6	<10	<2
1097892	Soil	0.35	24.4	7.6	<0.05	1.0	3.09	18.9	0.02	<1	1.0	29.6	<10	<2
1097893	Soil	0.37	15.6	3.8	<0.05	1.2	3.01	16.9	<0.02	<1	0.8	25.5	<10	<2
1097894	Soil	0.57	13.6	11.6	<0.05	1.2	3.25	16.9	<0.02	<1	1.2	31.5	<10	<2
1097895	Soil	0.39	18.4	4.8	<0.05	0.7	2.86	17.1	0.02	<1	0.7	27.1	<10	<2
1097824	Soil	0.32	18.0	5.5	<0.05	4.9	20.10	40.5	0.03	1	1.3	41.5	<10	<2
1097825	Soil	0.44	13.1	1.8	<0.05	3.5	12.09	52.2	0.02	<1	1.2	27.2	<10	<2
1097826	Soil	0.36	11.1	1.6	<0.05	1.6	7.96	44.6	0.03	<1	0.7	33.9	<10	<2
1097827	Soil	0.25	5.7	4.0	<0.05	2.6	10.86	33.5	0.03	<1	0.7	7.1	<10	<2
1097828	Soil	0.27	12.7	5.3	<0.05	3.3	13.78	53.9	0.03	<1	0.9	17.6	<10	<2
1097829	Soil	0.09	7.0	6.6	<0.05	3.1	10.35	25.9	0.03	<1	0.7	14.5	<10	<2
1097830	Soil	0.07	6.4	5.5	<0.05	2.9	11.31	28.6	0.06	2	0.9	5.3	<10	<2
1097831	Soil	0.13	5.7	1.7	<0.05	2.1	15.43	25.1	0.05	<1	1.1	6.7	<10	<2
1097832	Soil	0.27	12.4	11.6	<0.05	3.3	3.46	8.7	0.05	<1	1.4	43.5	<10	<2
1097833	Soil	0.20	11.8	7.9	<0.05	2.7	15.64	26.2	0.08	<1	2.1	56.3	<10	<2
1097834	Soil	0.34	12.3	2.3	<0.05	2.1	10.48	15.5	0.05	<1	1.1	24.8	<10	<2
1097835	Soil	0.27	9.2	6.6	<0.05	4.9	23.76	32.1	0.06	<1	1.7	42.9	<10	<2
1097836	Soil	0.27	9.9	5.4	<0.05	4.1	27.46	47.6	0.05	<1	1.3	24.2	<10	<2
1097837	Soil	0.31	12.9	1.6	<0.05	2.1	4.80	15.6	0.05	<1	0.9	39.5	<10	<2
1097838	Soil	0.23	8.0	5.6	<0.05	2.8	14.01	18.1	0.04	<1	0.9	33.0	<10	<2
1097839	Soil	0.11	13.9	10.7	<0.05	3.6	16.35	24.6	0.07	1	1.6	44.4	<10	<2
1097840	Soil	0.08	3.0	2.2	<0.05	0.8	20.03	28.2	0.02	<1	0.5	1.8	<10	<2
1097841	Soil	0.34	3.3	4.8	<0.05	1.8	12.51	25.4	0.03	<1	0.6	5.6	<10	<2
1097842	Soil	0.28	5.7	3.3	<0.05	1.4	17.91	31.8	0.04	<1	0.7	8.1	<10	<2
1097843	Soil	0.11	5.0	1.8	<0.05	0.9	16.49	23.8	<0.02	<1	0.6	4.4	<10	<2
1097844	Soil	0.16	5.0	2.4	<0.05	0.8	13.13	22.2	0.02	<1	0.5	4.3	<10	<2
1097845	Soil	0.50	6.2	0.8	<0.05	2.2	13.78	33.8	0.03	<1	0.8	11.2	<10	<2
1097846	Soil	0.28	4.9	4.1	<0.05	1.8	9.97	18.5	0.03	<1	0.9	6.5	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 24, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1097847	Soil			0.53	16.97	35.37	73.4	79	18.5	10.9	1935	3.46	15.1	0.6	0.4	2.1	11.7	0.11	0.73	0.22	23	2.28	0.085
1097848	Soil			0.75	27.81	13.68	39.6	16	13.5	8.4	99	2.39	7.1	0.5	0.3	2.1	5.7	0.07	0.47	0.31	20	0.07	0.020
1097849	Soil			0.63	21.91	16.89	52.4	96	18.3	9.0	243	2.97	7.4	0.5	0.6	3.0	9.3	0.04	0.32	0.30	25	0.18	0.026
1097850	Soil			0.81	22.00	16.20	60.2	136	21.2	9.1	297	3.47	6.7	0.4	0.6	2.7	9.1	0.08	0.38	0.30	33	0.16	0.038
1096830	Soil			0.72	15.07	46.26	139.0	31	20.8	9.2	189	2.99	15.1	0.6	0.2	2.7	19.0	0.15	0.22	0.30	7	0.18	0.036
1096831	Soil			0.67	33.60	47.54	195.4	176	36.9	18.0	806	3.81	15.9	1.2	1.0	3.8	39.4	0.45	0.44	0.31	12	0.95	0.066
1096832	Soil			0.96	30.11	40.21	135.0	122	31.7	14.0	294	3.07	19.3	0.8	1.0	5.5	201.6	0.17	0.30	0.30	4	5.77	0.101
1096833	Soil			0.43	43.45	29.77	101.0	113	41.4	16.5	485	3.34	5.4	0.9	2.6	4.7	43.5	0.11	0.31	0.34	17	0.41	0.043
1096834	Soil			0.44	42.00	27.61	98.8	107	38.9	16.1	461	3.21	5.5	0.9	2.8	4.6	42.1	0.10	0.29	0.31	17	0.42	0.042
1096835	Soil			0.52	41.04	30.69	106.7	69	42.5	17.6	698	3.14	4.4	0.9	1.7	4.5	37.4	0.28	0.25	0.33	18	0.31	0.047
1096836	Soil			0.99	25.69	20.64	120.4	134	19.4	8.6	501	2.39	9.2	3.8	2.5	0.8	165.4	0.33	0.59	0.15	15	2.55	0.058
1096837	Soil			0.86	41.18	19.40	117.2	99	29.0	11.4	409	2.86	6.4	2.1	4.6	1.8	71.3	0.32	0.63	0.23	34	1.54	0.056
1096838	Soil			2.27	44.94	27.40	156.7	185	33.1	13.6	399	3.17	13.7	6.8	5.6	2.8	69.2	0.41	0.76	0.32	36	1.38	0.070
1096839	Soil			1.61	27.11	20.38	88.6	1132	23.8	9.0	331	2.65	10.8	5.5	4.3	1.2	121.0	0.66	0.53	0.28	31	1.62	0.074
1096840	Soil			0.81	29.49	23.97	69.7	150	24.9	14.1	528	3.98	9.8	0.7	0.8	3.0	10.0	0.10	0.43	0.35	31	0.05	0.037
1096841	Soil			0.99	45.63	60.61	111.6	156	32.6	18.8	1702	3.29	14.3	2.0	1.5	3.6	91.1	0.28	0.40	0.40	21	2.12	0.118
1096842	Soil			0.42	45.30	51.97	96.8	166	38.5	23.6	1142	3.90	15.3	0.6	0.7	3.9	35.5	0.07	0.38	0.43	23	0.35	0.028
1096843	Soil			0.59	22.99	27.40	78.3	188	24.4	8.2	353	2.58	9.2	1.3	1.3	2.4	62.6	0.15	0.48	0.27	17	1.64	0.073
1096844	Soil			0.64	26.22	43.37	79.8	309	21.5	7.9	256	4.02	5.6	0.7	<0.2	3.7	81.9	0.07	0.22	0.43	14	0.10	0.055
1096845	Soil			0.35	8.82	48.97	117.8	141	9.3	3.7	1626	2.32	19.2	3.1	3.1	1.5	34.9	0.32	1.40	0.08	6	13.24	0.081
1096846	Soil			0.74	16.21	22.62	67.3	85	17.3	8.7	1719	3.69	12.9	1.0	<0.2	2.0	13.8	0.42	0.65	0.24	28	1.67	0.059
1096847	Soil			1.12	9.58	20.49	47.3	36	11.5	7.6	521	3.09	8.6	0.5	1.0	3.7	5.0	0.11	0.53	0.32	41	0.05	0.037
1096848	Soil			0.65	10.71	21.93	46.4	19	18.4	19.3	1223	2.98	2.9	0.5	0.9	2.9	4.5	0.11	0.28	0.37	20	0.07	0.025
1096849	Soil			0.56	27.65	28.01	74.9	184	26.3	10.0	725	2.73	11.3	1.9	2.3	1.5	52.6	0.16	0.50	0.24	20	2.65	0.066
1096850	Soil			0.89	21.97	21.92	56.8	60	21.4	10.3	268	3.73	8.7	0.6	0.7	4.4	6.4	0.12	0.52	0.33	37	0.07	0.020
1098017	Soil			0.51	33.66	36.10	144.5	120	35.7	14.4	341	3.47	14.4	0.7	0.2	2.8	87.0	0.21	0.31	0.38	11	1.98	0.049
1098018	Soil			0.50	36.87	31.97	108.2	138	35.0	18.0	517	3.48	13.1	0.8	1.6	2.2	93.0	0.08	0.30	0.35	13	2.01	0.045
1098019	Soil			0.93	40.42	34.25	107.2	129	46.3	21.6	627	3.92	19.1	0.7	1.7	5.0	158.5	0.05	0.38	0.40	12	3.91	0.048
1098020	Soil			0.77	56.41	38.15	85.5	194	46.1	19.8	377	3.24	13.3	0.6	2.5	4.9	45.9	0.09	0.62	0.43	12	1.06	0.099
1098021	Soil			0.66	36.94	38.80	112.1	47	42.3	16.6	554	3.60	2.6	0.6	1.9	4.4	36.9	0.14	0.30	0.37	20	0.19	0.036



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
			ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
			0.5	0.5	0.01	0.5	0.001			1	0.01	0.001	0.01	0.01	0.1	0.1	0.02	0.02	0.02	0.1	0.02	
1097847	Soil		12.0	15.5	1.23	242.1	0.003	5	1.09	0.005	0.08	<0.1	3.4	0.12	0.04	128	0.1	0.04	2.8	0.62	<0.1	0.06
1097848	Soil		6.3	12.3	0.12	54.1	0.011	3	0.53	0.002	0.18	0.1	2.0	0.11	0.02	8	<0.1	0.05	2.7	1.91	<0.1	<0.02
1097849	Soil		7.8	23.5	0.30	125.6	0.006	2	1.18	0.003	0.21	<0.1	2.4	0.12	<0.02	16	<0.1	0.02	5.2	1.39	<0.1	<0.02
1097850	Soil		7.8	28.4	0.38	105.5	0.004	2	1.51	0.002	0.17	<0.1	2.3	0.11	<0.02	9	<0.1	<0.02	6.6	1.30	<0.1	<0.02
1096830	Soil		3.2	7.4	0.04	63.5	<0.001	3	0.49	0.007	0.09	<0.1	3.0	0.16	0.05	76	0.4	0.05	1.3	0.69	<0.1	<0.02
1096831	Soil		6.0	16.8	0.23	194.3	<0.001	4	1.06	0.003	0.11	<0.1	6.3	0.12	0.05	92	0.5	0.06	2.9	1.27	<0.1	0.08
1096832	Soil		3.3	4.0	0.08	73.5	<0.001	4	0.31	0.006	0.14	<0.1	4.9	0.34	0.08	132	1.0	0.06	0.7	1.59	<0.1	0.05
1096833	Soil		7.1	29.0	0.70	113.7	0.003	4	1.22	0.002	0.15	<0.1	6.4	0.15	0.03	109	0.2	0.03	4.0	2.46	<0.1	0.10
1096834	Soil		6.9	28.3	0.68	109.4	0.003	5	1.16	0.002	0.14	<0.1	6.1	0.14	0.03	99	<0.1	0.02	3.7	2.39	<0.1	0.10
1096835	Soil		8.6	32.2	0.54	132.7	0.003	4	1.04	0.003	0.15	<0.1	6.7	0.15	0.03	65	0.2	<0.02	3.4	1.60	<0.1	0.08
1096836	Soil		16.4	14.6	0.23	100.8	0.001	4	0.44	0.005	0.06	<0.1	2.0	0.09	0.08	467	0.9	<0.02	1.2	0.15	<0.1	0.04
1096837	Soil		20.9	38.0	0.61	89.7	0.002	3	0.49	0.005	0.09	<0.1	4.9	0.10	0.05	443	1.2	<0.02	2.0	0.19	<0.1	0.04
1096838	Soil		19.3	38.0	0.27	260.7	0.003	4	0.89	0.004	0.12	<0.1	4.3	0.16	0.05	358	1.1	0.04	3.0	0.13	<0.1	0.08
1096839	Soil		12.3	23.7	0.26	129.2	0.005	4	1.28	0.004	0.08	<0.1	2.7	0.15	0.06	339	0.7	0.02	3.5	0.84	<0.1	0.08
1096840	Soil		5.2	27.1	0.38	78.3	0.003	2	1.68	0.001	0.11	<0.1	3.1	0.11	<0.02	57	0.2	0.05	5.7	1.85	<0.1	0.05
1096841	Soil		8.4	31.9	0.67	154.9	0.005	8	1.34	0.006	0.15	<0.1	10.3	0.13	0.08	63	0.1	0.05	4.1	5.10	<0.1	0.10
1096842	Soil		6.2	29.9	0.59	129.8	0.002	3	1.84	0.004	0.15	<0.1	6.7	0.11	<0.02	27	0.2	0.07	5.9	3.33	<0.1	0.09
1096843	Soil		9.3	18.4	0.50	109.5	0.003	5	0.94	0.007	0.09	<0.1	3.6	0.10	0.09	257	0.4	0.05	2.8	0.75	<0.1	0.09
1096844	Soil		3.5	20.8	0.19	101.5	0.001	3	1.06	0.013	0.11	<0.1	3.6	0.14	0.11	52	0.2	0.04	3.4	2.58	<0.1	0.03
1096845	Soil		5.3	6.6	9.31	19.8	0.002	3	0.25	0.011	0.04	<0.1	1.3	0.12	<0.02	417	0.3	0.08	0.6	0.22	<0.1	0.07
1096846	Soil		7.7	22.1	0.69	168.2	0.007	3	1.27	0.006	0.10	0.1	2.6	0.12	0.06	108	0.6	0.05	3.9	0.82	<0.1	0.05
1096847	Soil		10.7	21.3	0.17	67.1	0.015	1	1.02	0.003	0.08	0.2	1.7	0.10	<0.02	26	0.5	0.05	5.3	1.15	<0.1	<0.02
1096848	Soil		3.8	18.7	0.14	113.0	0.005	2	0.93	0.003	0.25	<0.1	2.9	0.15	<0.02	19	0.2	0.07	3.5	1.78	<0.1	<0.02
1096849	Soil		8.2	20.5	1.15	134.2	0.003	6	1.22	0.007	0.10	<0.1	3.6	0.11	0.06	250	0.7	<0.02	3.1	0.96	<0.1	0.06
1096850	Soil		9.5	28.3	0.36	95.0	0.009	3	1.64	0.004	0.14	0.1	2.9	0.14	<0.02	51	0.3	0.08	5.7	1.32	<0.1	0.06
1098017	Soil		6.0	16.5	0.34	55.8	0.001	4	1.01	0.006	0.08	<0.1	5.9	0.08	0.06	96	0.7	0.10	2.8	1.01	<0.1	0.05
1098018	Soil		4.7	19.6	0.41	126.0	0.002	5	1.19	0.006	0.08	<0.1	5.9	0.08	0.08	101	0.8	0.03	3.5	1.57	<0.1	0.06
1098019	Soil		3.5	17.3	0.41	103.0	0.001	4	1.03	0.009	0.10	<0.1	6.6	0.16	0.08	84	0.8	0.08	2.7	1.98	<0.1	0.08
1098020	Soil		4.5	14.1	0.29	38.3	0.001	4	0.40	0.003	0.16	<0.1	5.7	0.20	0.05	529	1.1	0.07	1.4	2.16	<0.1	0.05
1098021	Soil		8.8	40.8	0.90	94.2	0.006	4	1.60	0.004	0.14	<0.1	4.1	0.14	0.02	46	0.5	0.04	5.1	2.34	<0.1	0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: September 24, 2011

Page: 9 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1097847	Soil	0.21	7.0	2.3	<0.05	1.7	12.61	25.6	0.03	<1	1.1	7.5	<10	<2
1097848	Soil	0.31	16.5	3.1	<0.05	0.2	2.51	13.4	0.02	<1	0.4	2.8	<10	<2
1097849	Soil	0.38	15.0	2.0	<0.05	0.3	3.75	17.7	0.03	<1	0.8	17.4	<10	<2
1097850	Soil	0.53	15.2	3.2	<0.05	0.7	2.91	17.3	<0.02	<1	0.8	26.4	<10	<2
1096830	Soil	0.08	5.6	6.2	<0.05	0.5	6.98	9.3	0.04	<1	0.7	2.6	<10	<2
1096831	Soil	0.08	7.3	2.6	<0.05	3.0	15.17	17.3	0.04	<1	1.1	24.8	<10	<2
1096832	Soil	0.03	6.1	1.2	<0.05	3.9	10.85	11.9	0.04	3	0.9	2.1	<10	<2
1096833	Soil	0.26	12.4	2.6	<0.05	3.3	14.92	18.9	0.04	<1	1.2	28.0	<10	<2
1096834	Soil	0.23	11.7	2.4	<0.05	3.3	14.58	18.3	0.04	<1	1.2	27.4	<10	<2
1096835	Soil	0.28	11.7	4.2	<0.05	3.1	14.79	24.8	0.05	<1	1.3	18.5	<10	<2
1096836	Soil	0.11	4.3	4.4	<0.05	1.1	12.91	36.1	0.04	<1	0.8	4.5	<10	<2
1096837	Soil	0.13	5.9	1.1	<0.05	1.1	15.11	40.6	0.04	<1	1.2	5.1	<10	<2
1096838	Soil	0.23	7.1	2.5	<0.05	3.1	12.06	39.7	0.05	<1	1.2	8.3	<10	<2
1096839	Soil	0.54	9.2	2.4	<0.05	1.8	10.51	21.2	0.03	<1	1.0	11.2	<10	<2
1096840	Soil	0.37	14.1	3.0	<0.05	1.4	3.00	13.1	0.04	<1	1.0	33.9	<10	<2
1096841	Soil	0.25	14.9	16.3	<0.05	3.0	25.60	26.9	0.05	<1	1.3	30.5	<10	<2
1096842	Soil	0.12	10.6	4.7	<0.05	4.2	16.25	16.3	0.05	<1	1.6	58.1	<10	<2
1096843	Soil	0.39	8.1	4.2	<0.05	2.8	13.97	18.9	0.04	<1	1.1	15.6	<10	<2
1096844	Soil	0.12	9.1	5.5	<0.05	1.0	4.37	10.2	0.04	<1	1.1	21.5	<10	<2
1096845	Soil	0.06	1.8	5.1	<0.05	1.2	8.11	8.9	<0.02	<1	0.2	1.5	<10	4
1096846	Soil	0.59	12.9	3.1	<0.05	1.4	6.36	18.3	0.03	<1	0.9	11.5	<10	<2
1096847	Soil	0.71	12.1	3.5	<0.05	0.9	1.85	21.0	<0.02	<1	0.3	11.3	<10	3
1096848	Soil	0.22	19.4	8.9	<0.05	0.5	2.08	8.6	<0.02	<1	1.0	7.4	<10	<2
1096849	Soil	0.27	8.5	3.6	<0.05	1.5	10.66	16.6	0.02	<1	1.1	18.6	<10	<2
1096850	Soil	0.64	18.2	2.7	<0.05	1.7	2.80	20.0	0.03	<1	0.8	31.5	<10	<2
1098017	Soil	0.18	4.8	2.7	<0.05	1.9	11.54	16.6	0.04	<1	1.1	31.6	<10	<2
1098018	Soil	0.19	5.9	4.6	<0.05	2.0	11.18	12.3	<0.02	<1	1.2	38.5	<10	<2
1098019	Soil	0.05	6.1	5.3	<0.05	2.9	10.34	11.1	0.05	<1	1.2	31.9	<10	<2
1098020	Soil	0.04	8.6	3.1	<0.05	1.9	12.55	12.9	0.03	<1	1.0	3.8	<10	<2
1098021	Soil	0.38	14.5	9.7	<0.05	1.5	5.93	22.3	0.02	<1	1.1	48.5	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1098022	Soil			0.89	35.11	19.15	81.3	56	30.1	12.1	228	2.82	5.4	1.6	2.8	6.3	50.9	0.25	0.36	0.23	44	0.67	0.031
1098023	Soil			3.53	41.99	21.40	82.3	325	25.4	12.6	250	1.89	16.7	2.3	7.0	2.9	137.4	0.39	0.94	0.31	25	4.28	0.096
1098024	Soil			0.27	35.24	31.70	74.5	44	27.5	17.5	430	3.32	7.3	1.2	0.9	6.7	47.3	0.13	0.23	0.39	22	0.53	0.035
1098025	Soil			0.78	43.46	48.55	95.6	148	32.1	28.7	1603	4.86	22.6	0.7	0.7	4.4	44.0	0.11	0.49	0.41	37	0.22	0.073
1098026	Soil			0.86	29.00	29.27	77.4	101	28.3	15.8	593	3.89	10.2	0.6	0.6	3.0	22.5	0.07	0.42	0.33	31	0.22	0.030
1098027	Soil			0.95	46.76	54.99	110.6	161	49.3	24.7	903	4.92	20.6	1.0	2.8	5.5	51.1	0.12	0.67	0.53	23	0.74	0.034
1098028	Soil			0.77	37.59	32.42	74.4	166	31.5	13.9	487	3.62	12.3	1.5	1.3	1.6	103.7	0.15	0.43	0.40	20	1.58	0.069
1098029	Soil			0.50	10.22	45.48	177.1	148	12.9	4.1	1549	2.59	19.2	1.2	1.1	1.5	22.2	0.65	1.18	0.14	9	9.46	0.076
1098030	Soil			0.19	6.74	18.61	52.2	86	6.0	2.7	4461	4.47	39.6	1.6	1.1	0.5	31.9	0.21	1.64	0.06	3	15.32	0.102
1098031	Soil			0.61	14.34	18.26	52.8	124	15.7	6.7	1213	2.59	15.2	1.0	1.1	1.2	15.5	0.25	1.21	0.19	24	3.05	0.088
1098032	Soil			1.01	12.78	17.56	49.2	26	16.0	7.5	408	3.20	9.5	0.5	0.6	3.5	4.7	0.25	0.68	0.28	42	0.14	0.021
1098033	Soil			0.31	13.99	42.98	30.3	81	12.9	10.7	690	2.65	60.7	0.6	0.4	3.3	25.1	0.08	1.13	0.23	15	6.15	0.053
1098034	Soil			0.60	14.99	12.80	22.4	24	13.4	13.7	764	2.49	23.1	0.4	0.8	2.2	6.2	0.08	0.52	0.36	19	0.58	0.029
1098035	Soil			0.43	18.15	17.57	30.3	28	12.2	16.4	989	2.78	21.4	0.5	0.7	2.2	6.5	0.10	1.08	0.36	18	0.19	0.035
1098036	Soil			0.65	23.98	19.23	65.9	54	18.6	11.4	372	3.44	4.2	0.4	0.7	3.5	6.0	0.06	0.22	0.38	28	0.05	0.025
1098037	Soil			0.46	26.72	18.69	56.4	23	18.5	11.0	326	4.12	3.3	0.5	0.6	3.5	3.5	0.06	0.17	0.36	34	0.03	0.026
1098038	Soil			1.79	31.16	44.49	73.8	119	39.9	21.7	1432	4.53	12.9	0.9	2.1	4.6	17.2	0.09	0.56	0.38	16	0.75	0.039
1098039	Soil			0.72	30.79	21.10	78.7	174	28.2	11.5	554	2.98	10.5	1.0	2.1	4.5	28.8	0.17	0.62	0.36	32	0.59	0.076
1098040	Soil			0.81	24.36	23.39	73.6	63	30.9	15.9	881	3.39	12.2	0.7	2.5	4.8	14.5	0.15	0.69	0.31	37	0.26	0.065
1098041	Soil			0.94	34.91	62.24	86.1	203	31.8	20.9	2013	6.49	12.9	2.3	0.8	2.7	70.4	0.19	0.52	0.36	32	0.92	0.142
1098042	Soil			0.94	51.85	42.95	130.3	383	49.0	21.7	538	4.91	15.5	1.4	2.5	4.3	60.0	0.23	0.58	0.38	19	0.87	0.074
1098043	Soil			0.71	35.42	37.12	106.5	270	32.1	14.3	498	3.53	13.1	2.1	0.8	3.2	66.8	0.18	0.53	0.33	23	1.18	0.114
1098044	Soil			0.61	24.27	28.87	59.3	127	17.2	12.0	378	3.01	8.0	0.8	0.2	1.9	30.5	0.09	0.32	0.33	23	0.32	0.068
1098045	Soil			0.80	32.05	49.23	82.9	358	33.2	16.6	575	3.76	13.5	1.7	1.4	3.7	30.6	0.11	0.52	0.32	18	0.44	0.055
1098046	Soil			0.60	37.14	36.65	143.6	210	49.6	19.4	828	4.24	6.6	0.8	0.6	6.8	34.7	0.22	0.22	0.36	12	0.30	0.040
1098047	Soil			1.09	19.21	35.51	121.7	243	28.5	9.1	1250	3.45	19.0	1.2	3.7	2.0	14.8	0.50	1.20	0.23	37	1.18	0.061
1098048	Soil			0.84	14.88	38.60	51.6	135	20.3	6.8	241	2.32	10.1	0.8	0.8	1.6	10.4	0.09	0.51	0.22	25	0.23	0.044
1098051	Soil			0.89	15.29	17.15	51.8	99	17.8	8.4	557	2.82	7.5	0.6	1.1	3.4	12.5	0.15	0.32	0.26	41	0.29	0.029
1098052	Soil			0.61	21.20	25.46	54.3	81	29.7	13.7	420	3.38	7.0	0.7	0.6	4.0	9.1	0.09	0.32	0.31	30	0.17	0.029
1098053	Soil			0.85	18.14	20.58	74.3	62	11.6	7.5	383	3.45	6.1	0.4	0.8	4.6	4.3	0.08	0.29	0.33	42	0.03	0.032



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1098022	Soil	28.9	50.8	1.15	150.7	0.007	5	1.67	0.004	0.19	<0.1	6.2	0.21	0.03	140	1.2	0.05	5.7	1.02	<0.1	0.10
1098023	Soil	6.7	13.6	2.05	114.9	0.002	6	0.59	0.006	0.17	<0.1	3.7	0.22	0.03	276	1.2	0.05	1.8	0.93	<0.1	0.03
1098024	Soil	17.3	24.5	0.56	211.0	0.001	5	2.00	0.003	0.21	<0.1	7.8	0.11	<0.02	24	<0.1	0.16	5.4	1.12	<0.1	0.08
1098025	Soil	4.3	32.1	0.68	126.7	0.001	5	2.66	0.004	0.27	<0.1	4.7	0.19	0.04	44	0.2	0.08	7.3	4.33	<0.1	0.04
1098026	Soil	6.2	25.0	0.42	138.3	0.002	3	1.70	0.004	0.17	<0.1	3.1	0.12	<0.02	30	0.2	0.04	5.3	1.65	<0.1	0.03
1098027	Soil	8.6	24.8	0.41	114.3	0.002	4	1.60	0.005	0.15	<0.1	7.9	0.14	<0.02	63	0.5	0.13	5.1	1.60	<0.1	0.10
1098028	Soil	10.3	22.4	0.33	117.1	0.002	4	1.42	0.006	0.10	<0.1	4.3	0.10	0.06	55	0.3	0.09	4.0	1.86	<0.1	0.05
1098029	Soil	5.4	10.0	4.84	33.7	0.002	3	0.37	0.009	0.05	<0.1	1.9	0.07	0.05	508	0.4	0.02	0.9	0.25	<0.1	0.03
1098030	Soil	6.2	5.0	7.58	41.3	0.002	3	0.22	0.010	0.02	<0.1	0.8	0.09	<0.02	214	0.3	<0.02	0.4	0.12	<0.1	<0.02
1098031	Soil	10.1	16.9	1.62	86.8	0.009	3	1.03	0.007	0.05	0.1	1.9	0.11	0.05	174	0.5	<0.02	2.4	0.60	<0.1	<0.02
1098032	Soil	8.5	20.5	0.21	70.4	0.010	2	1.57	0.001	0.07	0.2	2.0	0.12	<0.02	13	0.2	0.06	4.7	1.11	<0.1	0.02
1098033	Soil	5.4	12.1	3.12	54.8	0.001	2	0.79	0.005	0.09	<0.1	3.2	0.10	<0.02	128	0.3	0.03	1.7	0.27	<0.1	0.05
1098034	Soil	4.1	11.8	0.30	180.5	0.006	2	0.58	0.002	0.17	0.1	2.3	0.07	<0.02	40	0.1	0.04	2.6	0.71	<0.1	<0.02
1098035	Soil	2.8	15.7	0.12	114.1	0.007	3	0.74	0.003	0.20	0.1	2.5	0.10	<0.02	25	0.3	0.07	2.4	1.59	<0.1	<0.02
1098036	Soil	6.3	19.2	0.18	98.6	0.002	2	1.30	0.002	0.16	<0.1	2.4	0.10	<0.02	14	<0.1	<0.02	5.8	1.05	<0.1	<0.02
1098037	Soil	5.8	25.4	0.29	81.7	0.002	2	1.68	0.001	0.14	<0.1	2.6	0.10	<0.02	27	0.2	<0.02	7.3	1.44	<0.1	0.03
1098038	Soil	11.3	17.4	0.24	130.1	<0.001	3	1.21	0.003	0.13	<0.1	5.4	0.12	0.03	89	<0.1	0.03	3.3	0.59	<0.1	0.08
1098039	Soil	11.8	26.0	0.46	264.8	0.009	2	1.35	0.008	0.10	0.2	4.0	0.09	<0.02	103	0.3	0.03	4.0	1.29	<0.1	0.06
1098040	Soil	11.7	26.8	0.47	152.8	0.011	2	1.62	0.006	0.10	0.1	3.1	0.14	<0.02	43	0.1	0.06	4.5	1.43	<0.1	0.03
1098041	Soil	14.6	31.0	0.48	108.2	0.004	4	2.24	0.003	0.08	<0.1	8.5	0.13	0.08	48	0.3	0.04	5.9	3.63	0.1	0.07
1098042	Soil	10.2	19.2	0.37	117.2	0.002	3	1.25	0.006	0.11	<0.1	7.8	0.18	0.05	80	1.0	0.08	3.6	1.92	<0.1	0.09
1098043	Soil	16.4	23.3	0.39	94.4	0.003	5	1.36	0.006	0.09	<0.1	6.1	0.12	0.10	52	0.4	0.09	4.0	1.55	<0.1	0.08
1098044	Soil	4.1	18.8	0.26	145.2	0.003	3	1.07	0.003	0.16	<0.1	2.8	0.08	0.05	41	0.2	0.08	3.8	1.25	<0.1	0.03
1098045	Soil	11.3	18.9	0.28	118.2	0.003	2	1.14	0.004	0.09	<0.1	4.7	0.13	0.03	55	0.3	0.05	2.5	2.35	<0.1	0.12
1098046	Soil	9.0	13.3	0.20	92.9	0.002	3	1.21	0.006	0.10	<0.1	5.4	0.14	0.03	37	0.3	<0.02	2.2	1.49	<0.1	0.07
1098047	Soil	14.2	25.9	0.71	148.4	0.012	2	1.62	0.006	0.06	0.2	2.9	0.14	0.04	157	0.4	0.04	3.8	1.14	<0.1	0.02
1098048	Soil	12.2	17.1	0.17	66.9	0.004	2	1.14	0.003	0.06	0.1	2.0	0.12	0.02	160	0.4	<0.02	2.8	1.20	<0.1	<0.02
1098051	Soil	8.8	25.3	0.32	168.5	0.008	2	1.52	0.003	0.10	<0.1	2.3	0.12	<0.02	37	0.2	0.02	5.3	1.18	<0.1	<0.02
1098052	Soil	9.4	30.9	0.44	225.5	0.004	3	1.69	0.003	0.13	<0.1	3.2	0.11	<0.02	30	0.1	0.04	5.6	2.19	<0.1	<0.02
1098053	Soil	9.0	20.4	0.12	90.4	0.003	1	1.69	0.001	0.13	<0.1	2.4	0.14	<0.02	19	0.2	0.03	7.0	1.30	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 10 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1098022	Soil	0.53	22.0	4.8	<0.05	3.2	10.99	62.6	0.02	<1	1.5	48.3	13	<2
1098023	Soil	0.14	8.4	1.0	<0.05	1.5	10.34	17.1	0.04	<1	0.9	6.5	<10	<2
1098024	Soil	0.15	12.5	1.3	<0.05	2.8	20.35	48.6	0.05	<1	1.3	44.3	<10	<2
1098025	Soil	0.12	22.1	1.3	<0.05	1.4	4.51	12.4	0.04	<1	1.9	68.3	<10	<2
1098026	Soil	0.28	18.5	3.3	<0.05	1.3	3.78	14.9	0.04	<1	0.8	39.7	<10	<2
1098027	Soil	0.18	9.1	1.9	<0.05	3.4	16.91	25.9	0.04	<1	1.5	40.3	<10	<2
1098028	Soil	0.25	10.0	3.6	<0.05	1.3	17.29	22.6	0.04	<1	1.2	33.4	<10	<2
1098029	Soil	0.07	2.5	2.1	<0.05	1.5	8.34	12.5	0.02	<1	0.4	2.7	<10	<2
1098030	Soil	0.02	1.5	2.9	<0.05	0.7	11.68	11.8	<0.02	<1	0.2	0.8	<10	<2
1098031	Soil	0.40	5.5	0.9	<0.05	0.8	8.15	18.1	<0.02	<1	0.6	7.8	<10	<2
1098032	Soil	0.66	11.5	2.9	<0.05	1.1	2.95	20.6	0.04	<1	0.7	12.4	<10	<2
1098033	Soil	0.09	5.3	1.6	<0.05	1.4	7.71	14.3	0.03	<1	0.6	5.1	<10	<2
1098034	Soil	0.32	11.8	3.2	<0.05	0.6	2.51	8.9	0.02	<1	0.4	2.8	<10	<2
1098035	Soil	0.33	13.9	5.1	<0.05	0.3	1.74	7.9	0.03	<1	0.9	3.5	<10	<2
1098036	Soil	0.25	13.6	2.7	<0.05	0.7	3.65	13.1	0.03	<1	0.6	13.9	<10	<2
1098037	Soil	0.22	15.6	2.9	<0.05	1.3	3.30	12.4	0.04	<1	0.8	18.2	<10	<2
1098038	Soil	0.11	9.4	3.3	<0.05	2.3	25.52	24.7	0.06	<1	1.8	12.0	<10	<2
1098039	Soil	0.43	9.5	1.2	<0.05	2.3	10.22	23.6	0.04	<1	0.9	20.1	<10	<2
1098040	Soil	0.46	10.7	1.9	<0.05	1.3	6.30	28.5	0.03	<1	1.0	22.1	<10	<2
1098041	Soil	0.20	11.0	2.2	<0.05	2.0	36.58	50.8	0.04	<1	1.6	58.0	<10	<2
1098042	Soil	0.12	7.7	1.8	<0.05	3.5	25.24	25.5	0.06	<1	1.4	28.3	<10	3
1098043	Soil	0.21	9.3	3.2	<0.05	2.5	30.23	37.2	0.05	<1	1.1	30.5	<10	<2
1098044	Soil	0.31	11.1	2.8	<0.05	1.1	5.14	11.9	0.03	<1	0.7	18.5	<10	<2
1098045	Soil	0.15	7.6	8.0	<0.05	3.6	24.50	31.9	0.04	<1	1.2	21.7	<10	<2
1098046	Soil	0.05	6.4	1.5	<0.05	2.4	13.22	23.8	0.04	<1	1.4	16.4	<10	<2
1098047	Soil	0.49	8.7	2.5	<0.05	0.6	10.67	36.8	0.03	<1	1.0	11.3	<10	<2
1098048	Soil	0.23	7.8	2.1	<0.05	0.6	10.17	41.3	0.03	<1	0.7	7.2	<10	<2
1098051	Soil	0.56	16.6	2.4	<0.05	0.6	3.36	19.7	0.03	<1	0.6	18.2	<10	<2
1098052	Soil	0.30	14.6	5.6	<0.05	0.9	8.93	24.0	0.03	<1	1.2	35.1	<10	<2
1098053	Soil	0.32	19.8	1.6	<0.05	0.9	2.30	18.4	0.04	<1	0.6	13.0	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1098054	Soil	0.79	18.81	24.22	77.8	76	22.1	11.0	407	3.55	7.6	0.4	1.5	4.5	6.8	0.10	0.40	0.33	34	0.06	0.024
1098055	Soil	0.57	31.06	26.98	73.8	68	17.3	9.0	618	2.75	8.9	10.0	0.7	0.7	84.4	0.09	0.33	0.36	23	1.33	0.091
1098056	Soil	0.58	39.33	40.70	96.9	119	32.6	16.1	746	3.80	9.7	0.9	1.1	3.5	57.8	0.13	0.37	0.35	23	0.97	0.069
1098057	Soil	0.77	32.03	31.95	119.3	118	28.7	13.5	605	4.01	9.4	1.3	0.9	2.0	38.6	0.28	0.44	0.35	27	0.64	0.135
1098058	Soil	0.71	31.87	44.09	80.3	79	29.2	14.4	686	3.09	9.2	0.9	0.8	2.8	42.4	0.15	0.50	0.34	24	0.67	0.081
1098059	Soil	0.86	33.43	49.29	105.4	88	20.9	17.0	942	4.05	26.6	0.6	0.3	1.1	6.4	0.10	0.53	0.42	32	0.04	0.073
1098060	Soil	0.46	31.50	55.02	86.8	175	23.1	24.7	2386	4.01	7.7	0.9	0.3	4.6	11.7	0.14	0.35	0.31	24	0.07	0.107
1098061	Soil	0.52	16.63	41.17	62.0	122	15.1	5.6	259	3.29	6.1	0.4	0.3	4.0	12.2	0.09	0.27	0.44	14	0.03	0.033
1098062	Soil	0.71	32.57	47.87	47.7	223	7.9	3.1	60	6.07	9.3	0.4	0.8	6.9	7.5	0.04	0.32	0.57	20	0.02	0.064
1098063	Soil	0.66	56.42	36.48	154.4	171	54.7	30.6	1098	4.36	6.7	3.3	0.8	9.2	9.8	0.37	0.30	0.32	16	0.11	0.082
1098064	Soil	0.60	19.04	36.18	111.2	76	22.4	11.9	781	3.55	7.8	0.6	<0.2	1.2	13.2	0.30	0.45	0.34	16	0.22	0.067
1098065	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1098066	Soil	0.77	19.22	39.09	114.1	154	19.8	7.0	1595	4.52	26.5	1.6	1.9	2.4	8.5	0.29	1.67	0.28	26	1.09	0.112
1098351	Soil	0.87	37.41	27.51	114.2	110	34.8	13.2	303	3.20	6.9	1.2	3.7	5.1	43.7	0.18	0.55	0.25	27	0.86	0.097
1098352	Soil	0.67	32.46	15.32	82.4	235	27.1	9.2	168	2.55	4.5	2.7	10.2	3.7	43.4	0.26	0.34	0.20	29	1.02	0.077
1098353	Soil	5.30	32.50	86.12	93.2	112	57.8	12.6	478	2.56	2.6	2.1	5.4	5.6	39.0	0.22	0.72	0.20	25	1.41	0.116
1098354	Soil	1.55	29.96	19.44	91.8	364	22.2	9.0	431	2.19	8.7	5.1	7.5	1.5	104.3	0.54	0.53	0.17	21	2.10	0.120
1098355	Soil	0.94	28.81	18.13	91.3	237	25.3	9.6	297	2.53	8.2	5.8	5.9	2.4	63.1	0.34	0.41	0.16	28	1.07	0.074
1098356	Soil	1.72	30.36	19.08	59.3	276	19.9	8.4	382	2.06	11.4	5.7	9.2	2.2	63.1	0.38	1.01	0.19	20	2.55	0.113
1098357	Soil	0.44	43.74	47.95	85.5	75	33.5	36.4	440	2.73	5.1	0.8	1.9	5.1	198.3	0.09	0.31	0.40	15	3.41	0.044
1098358	Soil	0.38	36.50	25.39	92.6	64	25.5	12.2	309	2.63	5.9	1.5	1.1	1.5	114.7	0.21	0.27	0.33	16	2.01	0.101
1098359	Soil	0.66	29.07	26.14	90.9	66	17.9	13.0	1069	3.82	8.3	0.7	0.4	1.0	9.7	0.15	0.35	0.37	30	0.10	0.127
1098360	Soil	0.64	41.94	39.90	132.8	220	40.5	18.4	447	3.80	16.2	0.8	0.2	2.7	87.4	0.14	0.46	0.37	17	1.31	0.057
1098361	Soil	0.58	40.56	84.35	99.8	101	31.7	30.1	984	4.08	9.3	1.0	<0.2	4.2	25.4	0.08	0.51	0.47	26	0.33	0.058
1098362	Soil	0.72	39.90	25.95	96.3	317	29.7	11.4	277	3.20	7.2	1.9	1.6	2.5	98.5	0.27	0.34	0.29	18	2.09	0.105
1098363	Soil	1.70	50.83	61.32	114.7	54	42.2	24.1	409	5.20	50.5	0.9	1.3	2.9	16.1	0.07	1.60	0.44	27	0.18	0.032
1098364	Soil	0.63	39.23	33.90	79.1	385	31.4	14.2	618	4.27	10.1	1.9	0.9	1.7	104.2	0.19	0.38	0.29	18	2.17	0.124
1098365	Soil	0.50	19.83	39.45	89.3	152	22.4	7.4	211	2.36	11.4	0.9	<0.2	2.8	27.0	0.14	0.66	0.26	11	1.63	0.076
1098366	Soil	0.65	16.36	41.04	103.5	112	18.5	7.5	595	2.97	8.2	0.8	<0.2	1.3	32.3	0.14	0.47	0.34	18	0.81	0.077
1098367	Soil	0.49	19.15	62.67	603.8	164	18.9	7.2	1554	3.66	17.9	2.2	2.1	2.2	21.3	1.53	1.72	0.22	15	5.77	0.111



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1098054	Soil	8.6	26.1	0.33	105.0	0.006	2	1.67	0.001	0.14	<0.1	2.4	0.13	<0.02	36	0.3	0.06	5.6	1.42	<0.1	0.04
1098055	Soil	3.6	24.5	0.25	100.2	0.003	4	1.22	0.006	0.10	<0.1	2.4	0.10	0.12	43	1.0	0.08	4.7	2.86	<0.1	0.03
1098056	Soil	10.2	27.4	0.44	137.4	0.003	4	1.70	0.005	0.13	<0.1	7.1	0.10	0.05	20	0.3	0.03	5.2	2.19	<0.1	0.10
1098057	Soil	8.0	25.3	0.33	111.0	0.003	2	1.55	0.004	0.09	<0.1	3.6	0.12	0.07	19	0.3	0.12	4.8	2.15	<0.1	0.05
1098058	Soil	6.5	23.7	0.40	179.3	0.005	4	1.43	0.004	0.13	<0.1	3.7	0.11	0.06	40	0.3	0.08	3.9	2.48	<0.1	0.06
1098059	Soil	5.3	24.0	0.29	109.4	0.005	3	1.62	0.002	0.13	<0.1	2.1	0.12	0.03	22	0.3	0.08	5.0	4.76	<0.1	0.04
1098060	Soil	5.0	21.1	0.38	132.5	0.003	3	1.44	0.003	0.14	<0.1	3.9	0.14	0.03	45	0.2	0.04	4.1	4.67	<0.1	<0.02
1098061	Soil	3.5	16.5	0.20	79.1	<0.001	1	1.03	0.005	0.09	<0.1	2.7	0.16	0.04	30	0.3	0.05	3.4	2.47	<0.1	<0.02
1098062	Soil	2.6	25.9	0.09	60.9	0.001	2	0.96	0.004	0.10	<0.1	3.7	0.28	0.03	37	0.6	0.06	4.6	3.66	<0.1	0.04
1098063	Soil	7.9	17.8	0.09	97.2	0.002	2	3.29	<0.001	0.09	<0.1	14.2	0.17	0.06	32	0.5	0.03	2.9	2.36	<0.1	0.12
1098064	Soil	5.9	16.7	0.21	116.2	0.003	2	0.99	0.003	0.13	<0.1	1.9	0.15	0.05	51	0.3	0.04	2.9	1.63	<0.1	<0.02
1098065	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1098066	Soil	14.5	19.0	0.49	98.5	0.004	2	1.05	0.003	0.07	0.1	3.6	0.09	0.07	234	0.5	0.08	2.4	0.42	<0.1	0.10
1098351	Soil	17.5	40.3	0.48	128.3	0.005	2	0.88	0.004	0.10	<0.1	6.2	0.11	0.04	98	1.3	0.02	2.9	1.05	<0.1	0.10
1098352	Soil	21.3	40.0	0.90	239.0	0.009	3	1.30	0.003	0.12	<0.1	4.6	0.17	0.06	140	1.2	0.04	4.6	1.35	<0.1	0.12
1098353	Soil	23.7	87.7	0.60	89.2	0.005	4	0.49	0.005	0.10	0.1	4.9	0.10	0.04	506	0.8	<0.02	1.7	0.82	<0.1	0.06
1098354	Soil	21.1	18.4	0.39	161.4	0.005	4	0.71	0.007	0.08	<0.1	2.7	0.14	0.08	299	1.3	<0.02	1.8	0.52	<0.1	0.12
1098355	Soil	25.6	31.2	0.72	148.4	0.009	4	1.10	0.003	0.08	<0.1	3.9	0.14	0.06	292	1.2	0.05	3.5	0.88	<0.1	0.08
1098356	Soil	11.3	12.2	1.11	1086	0.002	4	0.49	0.005	0.08	<0.1	3.0	0.13	0.05	504	0.9	<0.02	1.4	0.24	<0.1	0.10
1098357	Soil	5.3	23.7	0.73	69.0	0.002	5	1.45	0.003	0.10	<0.1	5.7	0.11	<0.02	67	0.3	0.08	3.7	3.41	<0.1	0.12
1098358	Soil	13.9	19.8	0.42	191.6	0.002	5	1.42	0.004	0.09	<0.1	3.7	0.07	0.09	76	0.4	0.08	3.6	1.05	<0.1	0.09
1098359	Soil	3.3	26.1	0.27	112.8	0.004	2	1.70	0.002	0.11	<0.1	2.1	0.12	0.07	33	0.3	0.07	5.9	3.46	<0.1	0.04
1098360	Soil	7.7	19.7	0.37	62.2	0.002	6	1.24	0.005	0.09	<0.1	5.9	0.14	0.05	95	0.7	0.04	3.4	1.28	<0.1	0.16
1098361	Soil	8.0	29.0	0.40	121.0	0.002	2	1.74	0.003	0.10	<0.1	8.8	0.12	0.03	19	0.4	0.05	5.1	5.21	<0.1	0.11
1098362	Soil	11.1	17.8	0.24	135.5	0.002	5	1.10	0.005	0.11	<0.1	4.4	0.11	0.11	48	1.0	0.12	3.0	0.82	<0.1	0.10
1098363	Soil	4.9	28.0	0.34	83.6	0.003	1	1.50	0.002	0.12	<0.1	3.1	0.13	<0.02	13	0.5	0.07	4.3	3.09	<0.1	0.03
1098364	Soil	19.1	16.8	0.23	122.6	0.001	3	1.06	0.004	0.07	<0.1	4.7	0.12	0.09	81	1.2	0.09	2.8	1.23	<0.1	0.08
1098365	Soil	7.7	12.1	0.73	61.2	0.002	3	0.66	0.004	0.08	<0.1	3.3	0.09	0.05	258	0.4	<0.02	1.6	0.94	<0.1	0.12
1098366	Soil	5.0	12.5	0.13	103.7	0.002	3	0.73	0.003	0.10	<0.1	2.0	0.09	0.06	88	0.4	0.04	2.6	0.90	<0.1	0.04
1098367	Soil	10.0	11.9	3.66	44.3	0.002	2	0.84	0.008	0.06	<0.1	2.7	0.07	0.07	530	0.7	0.05	1.7	0.25	<0.1	0.10



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: September 24, 2011

Page: 11 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1098054	Soil	0.38	15.1	1.7	<0.05	1.0	2.77	18.7	0.02	<1	0.7	29.6	<10	<2
1098055	Soil	0.36	14.5	2.7	<0.05	1.1	7.07	7.2	0.05	<1	0.7	19.2	<10	<2
1098056	Soil	0.24	8.9	5.8	<0.05	3.8	21.37	28.3	0.04	<1	1.3	44.9	<10	<2
1098057	Soil	0.30	12.3	2.1	<0.05	1.6	12.89	25.4	0.06	<1	1.3	30.1	<10	<2
1098058	Soil	0.31	10.4	3.3	<0.05	2.1	9.21	22.1	0.04	<1	1.0	35.3	<10	<2
1098059	Soil	0.23	16.8	1.2	<0.05	1.0	4.19	11.8	0.04	<1	1.0	29.9	<10	<2
1098060	Soil	0.09	15.9	7.7	<0.05	0.9	8.23	18.9	0.04	<1	1.1	29.5	<10	<2
1098061	Soil	0.05	8.9	1.7	<0.05	0.9	3.78	10.4	0.05	<1	0.6	17.0	<10	<2
1098062	Soil	0.05	12.0	3.5	<0.05	2.7	1.90	7.0	0.06	<1	0.4	10.0	<10	<2
1098063	Soil	0.16	10.2	1.3	<0.05	4.1	20.13	26.0	0.07	<1	4.5	20.7	<10	<2
1098064	Soil	0.19	10.8	5.5	<0.05	0.5	4.52	22.6	0.05	<1	0.9	12.3	<10	<2
1098065	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1098066	Soil	0.24	5.6	1.6	<0.05	2.9	16.55	23.2	0.02	2	0.6	6.0	<10	<2
1098351	Soil	0.23	9.4	5.2	<0.05	3.6	15.25	39.4	0.03	<1	0.9	16.8	<10	<2
1098352	Soil	0.53	15.1	0.8	<0.05	3.7	13.88	39.6	0.03	5	1.0	31.3	<10	<2
1098353	Soil	0.18	7.5	56.6	<0.05	2.4	12.79	57.9	<0.02	5	0.8	6.3	<10	<2
1098354	Soil	0.26	6.6	1.4	<0.05	3.9	15.32	41.9	0.03	<1	0.6	12.3	<10	<2
1098355	Soil	0.41	9.4	1.6	<0.05	3.1	13.58	59.1	0.04	2	1.3	32.0	<10	<2
1098356	Soil	0.10	4.6	0.9	<0.05	2.9	12.13	26.9	0.03	2	0.7	5.4	<10	<2
1098357	Soil	0.08	8.1	7.7	<0.05	4.7	14.53	18.5	0.02	2	1.4	45.8	<10	<2
1098358	Soil	0.22	7.8	1.4	<0.05	1.6	18.99	28.9	0.03	1	1.2	32.9	<10	<2
1098359	Soil	0.34	20.4	2.3	<0.05	1.1	4.01	11.1	0.03	<1	0.9	26.2	<10	<2
1098360	Soil	0.13	7.4	2.2	<0.05	4.0	16.80	22.1	0.06	<1	1.4	29.9	<10	<2
1098361	Soil	0.18	12.8	6.9	<0.05	3.3	16.51	30.4	0.03	2	1.8	41.5	<10	<2
1098362	Soil	0.23	6.5	0.6	<0.05	3.0	26.65	24.8	0.05	3	1.3	20.9	<10	<2
1098363	Soil	0.16	12.1	6.5	<0.05	2.6	7.27	13.2	<0.02	2	0.8	41.0	<10	<2
1098364	Soil	0.11	7.1	0.7	<0.05	1.6	40.50	43.8	0.06	2	1.3	18.9	<10	<2
1098365	Soil	0.18	6.9	3.3	<0.05	3.1	11.19	19.0	0.02	<1	1.2	8.9	<10	<2
1098366	Soil	0.20	10.7	0.7	<0.05	1.1	4.66	12.4	0.03	2	0.6	4.8	<10	<2
1098367	Soil	0.13	2.9	3.2	<0.05	2.9	15.28	20.2	<0.02	<1	0.4	2.5	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%		
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1098368	Soil	0.76	19.03	41.38	380.7	210	21.8	8.1	1941	4.85	18.3	2.0	1.5	1.9	9.7	1.29	1.33	0.23	30	1.17	0.082	
1098369	Soil	0.47	26.09	52.62	68.9	263	19.5	7.9	2465	4.69	79.4	2.6	2.0	1.2	21.9	0.24	4.57	0.19	9	7.23	0.153	
1098370	Soil	0.39	14.24	26.98	48.4	153	13.9	5.5	2340	3.40	40.2	1.7	2.5	0.6	23.2	0.26	2.32	0.11	9	7.06	0.125	
1098371	Soil	0.72	17.75	30.81	132.5	147	14.8	5.7	3304	4.66	41.5	1.6	1.5	0.8	20.3	0.61	1.98	0.13	15	5.85	0.170	
1098372	Soil	0.83	28.88	45.41	74.0	240	25.0	11.6	871	3.25	56.0	2.1	4.1	2.6	22.4	0.19	2.68	0.23	19	5.36	0.200	
1098373	Soil	0.59	21.29	46.46	142.3	128	20.0	9.8	784	2.54	26.9	1.5	1.5	2.9	27.1	0.30	1.80	0.18	16	7.13	0.122	
1098374	Soil	0.57	16.27	30.31	71.7	147	15.3	7.2	982	2.42	27.0	1.0	3.7	1.6	28.4	0.22	1.48	0.13	16	8.80	0.108	
1098375	Soil	0.80	10.80	28.32	153.1	65	8.9	5.6	4898	4.28	19.9	0.9	0.8	0.4	25.4	1.04	1.12	0.10	12	5.00	0.165	
1098376	Soil	0.52	8.91	12.55	28.8	32	10.3	12.5	582	2.81	1.1	0.4	0.3	2.7	2.9	0.06	0.36	0.32	24	0.06	0.017	
1098377	Soil	0.69	36.59	47.18	78.4	184	31.5	27.6	1146	3.95	3.1	0.6	1.0	4.5	5.4	0.07	0.21	0.36	32	0.10	0.036	
1098378	Soil	0.50	23.93	16.99	52.5	234	20.2	14.0	1091	3.35	2.7	0.5	<0.2	3.0	6.6	0.07	0.21	0.35	33	0.13	0.035	
1098379	Soil	0.88	22.58	23.98	70.2	76	23.4	11.9	362	3.88	6.3	0.5	<0.2	3.9	5.1	0.09	0.38	0.31	35	0.04	0.033	
1098380	Soil	0.76	21.40	23.93	72.6	171	24.4	11.2	323	3.93	6.8	0.4	<0.2	4.4	4.2	0.07	0.30	0.33	33	0.03	0.037	
1098381	Soil	1.02	29.27	42.02	100.9	67	28.9	20.0	790	3.83	15.7	0.7	0.3	1.0	9.2	0.11	0.61	0.32	28	0.03	0.051	
1098382	Soil	0.94	36.71	58.92	129.8	74	45.2	38.4	1245	4.07	12.6	1.0	<0.2	2.2	11.0	0.12	0.42	0.34	24	0.05	0.066	
1098383	Soil	1.21	29.89	44.79	110.9	90	32.7	19.9	703	4.32	25.0	0.8	0.7	0.5	11.8	0.35	0.74	0.38	30	0.10	0.089	
1098384	Soil	1.01	27.46	32.94	94.2	212	25.6	12.1	570	4.03	10.3	0.9	1.1	0.4	9.0	0.23	0.59	0.31	31	0.08	0.094	
1098385	Soil	0.89	21.99	25.89	95.2	97	24.5	11.0	573	3.64	9.3	1.3	2.6	1.5	11.0	0.22	0.55	0.30	34	0.11	0.105	
1098386	Soil	1.11	21.74	27.07	84.6	105	12.3	17.7	1776	2.30	6.0	0.5	1.2	<0.1	10.2	0.64	0.50	0.28	31	0.08	0.084	
1098387	Soil	1.07	23.93	29.77	96.3	156	30.5	13.7	493	3.13	10.5	0.7	1.4	1.2	10.9	0.19	0.59	0.22	29	0.11	0.050	
1098251	Soil	0.92	17.35	22.92	85.2	43	22.0	10.8	477	3.32	8.1	0.6	0.8	2.6	8.0	0.09	0.43	0.29	31	0.07	0.044	



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
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Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1098368	Soil	12.9	19.2	0.70	118.9	0.005	2	1.18	0.005	0.04	0.1	2.7	0.11	0.08	366	0.6	0.05	2.8	0.55	<0.1	0.07
1098369	Soil	8.6	9.8	3.57	64.6	0.002	5	0.43	0.007	0.06	<0.1	1.3	0.25	0.05	407	0.8	0.11	1.2	0.21	<0.1	0.09
1098370	Soil	7.3	8.2	3.55	113.4	0.003	4	0.42	0.007	0.04	<0.1	0.9	0.23	0.05	233	0.6	0.04	1.1	0.24	<0.1	0.07
1098371	Soil	7.9	12.9	2.98	171.8	0.006	4	0.94	0.008	0.05	<0.1	1.1	0.17	0.09	149	1.0	0.09	1.8	0.29	<0.1	0.06
1098372	Soil	6.7	13.8	2.72	68.9	0.004	2	0.78	0.007	0.06	<0.1	2.3	0.19	0.03	715	0.7	0.09	1.7	0.32	<0.1	0.08
1098373	Soil	8.0	12.3	3.67	54.1	0.003	2	0.64	0.007	0.06	<0.1	3.3	0.12	<0.02	383	0.4	0.07	1.4	0.33	<0.1	0.09
1098374	Soil	7.3	10.4	4.56	42.6	0.003	2	0.56	0.009	0.06	<0.1	2.3	0.11	0.02	326	0.4	0.05	1.3	0.35	<0.1	0.06
1098375	Soil	8.8	10.9	2.51	232.9	0.006	4	0.89	0.006	0.05	<0.1	0.9	0.11	0.08	105	0.4	0.07	1.9	0.41	<0.1	0.05
1098376	Soil	5.8	19.0	0.11	102.7	0.012	2	0.78	0.001	0.22	0.2	1.7	0.12	<0.02	15	<0.1	0.05	3.4	1.24	<0.1	<0.02
1098377	Soil	7.0	33.1	0.35	143.3	0.003	2	1.79	<0.001	0.24	<0.1	3.9	0.16	<0.02	33	0.1	0.05	6.7	2.11	<0.1	0.06
1098378	Soil	6.1	29.1	0.26	167.6	0.003	<1	1.65	0.001	0.24	<0.1	2.6	0.14	<0.02	19	0.2	0.03	6.8	1.03	<0.1	0.03
1098379	Soil	8.6	28.0	0.30	121.4	0.006	<1	1.47	0.001	0.15	<0.1	2.7	0.12	<0.02	18	0.2	0.03	5.8	1.64	<0.1	<0.02
1098380	Soil	7.2	31.6	0.33	139.1	0.004	1	1.79	<0.001	0.16	<0.1	3.0	0.11	<0.02	11	0.2	<0.02	6.2	1.46	<0.1	0.05
1098381	Soil	4.7	21.4	0.25	110.1	0.006	2	1.33	0.005	0.07	<0.1	2.2	0.11	0.04	12	0.3	0.08	3.6	3.71	<0.1	<0.02
1098382	Soil	4.1	19.5	0.24	155.7	0.005	1	1.68	0.004	0.08	<0.1	3.2	0.11	0.04	29	0.4	0.07	3.7	5.09	<0.1	0.05
1098383	Soil	6.4	26.2	0.30	140.2	0.008	<1	1.63	0.007	0.09	<0.1	1.4	0.11	0.07	32	0.5	0.05	3.6	3.32	<0.1	<0.02
1098384	Soil	5.5	24.5	0.25	141.2	0.006	2	1.37	0.003	0.08	0.1	1.0	0.09	0.07	44	0.6	0.04	3.8	1.76	<0.1	<0.02
1098385	Soil	10.8	25.4	0.27	135.6	0.006	1	1.66	0.002	0.06	0.1	2.4	0.12	0.04	40	0.7	0.08	4.4	1.39	<0.1	0.03
1098386	Soil	4.2	16.7	0.10	150.0	0.003	2	0.77	0.004	0.08	<0.1	0.3	0.10	0.06	25	0.4	0.05	3.7	1.77	<0.1	<0.02
1098387	Soil	7.4	22.7	0.33	86.7	0.008	2	1.42	0.003	0.07	<0.1	1.8	0.09	0.02	35	0.6	<0.02	3.2	1.70	<0.1	<0.02
1098251	Soil	6.7	21.1	0.24	104.6	0.007	3	1.27	0.003	0.08	0.1	2.1	0.14	<0.02	25	0.4	<0.02	3.9	1.78	<0.1	<0.02



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

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Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

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Report Date: September 24, 2011

Page: 12 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001190.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10
1098368	Soil	0.27	5.3	0.6	<0.05	2.5	14.44	24.5	0.03	<1	0.6	8.0	<10
1098369	Soil	0.06	2.5	2.0	<0.05	2.1	13.03	16.8	<0.02	<1	0.4	2.0	<10
1098370	Soil	0.07	2.3	0.4	<0.05	1.3	12.42	14.7	<0.02	<1	0.3	2.3	<10
1098371	Soil	0.17	3.7	4.6	<0.05	1.8	11.38	16.4	<0.02	1	0.3	4.6	<10
1098372	Soil	0.19	3.3	1.3	<0.05	2.5	9.69	14.3	<0.02	<1	0.6	4.8	<10
1098373	Soil	0.14	3.1	3.4	<0.05	2.3	9.68	16.8	<0.02	3	0.4	4.3	<10
1098374	Soil	0.13	3.0	0.5	<0.05	1.9	8.36	15.0	<0.02	2	0.4	3.5	<10
1098375	Soil	0.14	5.1	2.8	<0.05	1.0	9.39	17.4	<0.02	<1	0.7	2.7	<10
1098376	Soil	0.35	19.6	1.5	<0.05	0.3	1.45	12.5	<0.02	<1	0.3	2.3	<10
1098377	Soil	0.25	18.8	8.6	<0.05	1.4	4.59	18.2	<0.02	<1	1.5	28.1	<10
1098378	Soil	0.35	21.2	1.3	<0.05	0.8	2.51	13.9	0.03	2	0.9	19.8	<10
1098379	Soil	0.37	16.6	4.3	<0.05	0.9	3.02	19.0	0.03	<1	0.8	26.2	<10
1098380	Soil	0.43	17.4	1.3	<0.05	1.5	2.72	17.1	0.04	1	1.0	34.6	<10
1098381	Soil	0.20	11.8	2.5	<0.05	0.6	3.98	11.8	0.04	<1	1.0	32.4	<10
1098382	Soil	0.20	12.2	1.0	<0.05	2.1	4.74	10.8	0.04	<1	1.9	39.5	<10
1098383	Soil	0.28	10.8	2.6	<0.05	0.6	4.95	16.6	0.05	2	1.2	26.9	<10
1098384	Soil	0.29	10.3	1.2	<0.05	0.3	4.64	16.1	0.04	<1	0.9	21.5	<10
1098385	Soil	0.40	12.5	1.7	<0.05	1.1	12.54	37.6	0.05	<1	1.2	23.6	<10
1098386	Soil	0.13	18.5	1.5	<0.05	<0.1	1.94	9.5	0.02	2	0.3	6.1	<10
1098387	Soil	0.29	7.3	3.3	<0.05	0.5	4.63	23.6	<0.02	<1	0.8	26.6	<10
1098251	Soil	0.36	14.9	1.1	<0.05	0.5	2.82	17.5	0.04	<1	1.1	21.6	<10



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 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001190.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
1098607	Soil	0.72	16.34	31.50	88.3	120	21.2	9.0	1173	4.34	17.7	1.0	2.5	4.1	11.3	0.22	1.15	0.32	34	0.35	0.046
REP 1098607	QC	0.69	15.59	30.18	85.3	113	20.9	8.9	1116	4.29	16.5	0.9	2.1	3.9	10.4	0.21	1.11	0.31	33	0.33	0.045
1098734	Soil	0.50	31.22	29.24	125.3	104	30.4	13.1	329	3.00	9.3	1.3	3.3	4.5	62.7	0.16	0.39	0.33	14	0.87	0.047
REP 1098734	QC	0.47	29.24	26.60	116.2	102	28.6	12.3	312	2.86	8.8	1.2	2.8	4.3	57.9	0.14	0.36	0.30	13	0.80	0.044
1098651	Soil	0.58	27.37	19.49	74.3	105	22.6	10.6	519	3.04	13.4	0.8	1.6	1.5	77.2	0.20	0.55	0.23	21	1.84	0.056
REP 1098651	QC	0.60	27.53	19.88	77.0	105	22.5	11.0	526	3.13	13.8	0.9	2.0	1.7	81.1	0.18	0.57	0.24	22	1.87	0.059
1098802	Soil	0.72	35.14	23.90	75.5	78	31.1	15.2	473	3.90	14.9	0.6	2.8	4.1	29.7	0.09	0.65	0.31	22	0.54	0.022
REP 1098802	QC	0.72	35.07	23.32	76.6	79	31.0	14.9	461	3.84	14.5	0.6	2.6	4.1	29.5	0.08	0.66	0.31	22	0.54	0.022
1096818	Soil	0.35	15.95	68.11	209.6	134	20.2	8.0	576	3.01	5.9	1.6	0.8	3.1	24.7	0.48	0.27	0.22	9	1.96	0.058
REP 1096818	QC	0.37	16.17	69.05	212.0	141	20.5	8.1	606	3.14	6.0	1.6	1.0	3.2	24.3	0.47	0.27	0.23	10	1.97	0.060
1096828	Soil	0.58	24.66	21.49	77.6	123	29.2	14.3	426	3.95	7.3	0.5	0.3	4.7	7.7	0.07	0.24	0.33	36	0.09	0.025
REP 1096828	QC	0.53	24.21	21.05	72.8	129	28.1	13.8	416	3.92	7.2	0.5	<0.2	4.7	7.8	0.06	0.23	0.33	37	0.09	0.024
1098010	Soil	0.70	29.87	24.59	92.5	126	22.1	12.7	1474	3.56	18.3	2.9	1.2	2.9	18.6	0.41	0.79	0.24	35	3.19	0.056
REP 1098010	QC	0.74	31.34	28.36	95.9	128	23.1	13.5	1487	3.68	19.1	3.3	1.6	2.9	20.1	0.53	0.84	0.26	37	3.31	0.060
1097737	Soil	0.63	41.13	23.06	88.3	122	29.5	12.4	375	3.00	9.0	0.7	2.7	2.9	56.2	0.09	0.34	0.33	14	1.05	0.051
REP 1097737	QC	0.64	42.25	22.94	93.7	120	29.9	12.6	389	3.07	9.9	0.7	3.2	3.0	55.6	0.07	0.36	0.32	15	1.08	0.052
1097877	Soil	0.54	17.70	14.70	64.2	83	16.2	8.6	486	3.03	2.7	0.4	<0.2	4.5	8.2	0.09	0.25	0.34	30	0.15	0.021
REP 1097877	QC	0.52	16.60	14.07	61.3	73	16.4	8.6	481	2.96	2.7	0.4	0.8	4.3	7.9	0.10	0.26	0.32	30	0.14	0.020
1097886	Soil	0.66	19.87	43.26	123.7	183	27.1	9.7	1943	4.64	24.2	1.0	0.8	2.8	18.7	0.28	1.40	0.26	26	2.27	0.115
REP 1097886	QC	0.66	19.51	40.66	118.2	178	25.3	9.2	1797	4.35	22.1	0.9	0.5	2.5	17.4	0.28	1.33	0.24	25	2.11	0.111
1097846	Soil	0.78	15.45	40.89	71.7	147	16.4	8.1	1688	3.14	24.0	1.1	0.9	1.5	21.3	0.27	1.38	0.19	23	5.29	0.110
REP 1097846	QC	0.74	15.47	39.56	74.3	131	16.3	8.0	1677	3.15	24.4	1.0	0.7	1.4	21.5	0.27	1.37	0.19	24	5.24	0.110
1097850	Soil	0.81	22.00	16.20	60.2	136	21.2	9.1	297	3.47	6.7	0.4	0.6	2.7	9.1	0.08	0.38	0.30	33	0.16	0.038
REP 1097850	QC	0.75	22.43	17.29	61.8	140	22.7	9.5	305	3.55	6.7	0.5	1.0	2.9	9.4	0.10	0.36	0.32	34	0.16	0.039
1096845	Soil	0.35	8.82	48.97	117.8	141	9.3	3.7	1626	2.32	19.2	3.1	3.1	1.5	34.9	0.32	1.40	0.08	6	13.24	0.081
REP 1096845	QC	0.27	8.10	44.58	105.1	115	8.1	3.3	1493	2.15	17.6	2.8	2.2	1.3	32.5	0.24	1.42	0.07	5	12.12	0.073
1098026	Soil	0.86	29.00	29.27	77.4	101	28.3	15.8	593	3.89	10.2	0.6	0.6	3.0	22.5	0.07	0.42	0.33	31	0.22	0.030
REP 1098026	QC	0.92	29.66	29.37	77.0	97	28.5	15.8	605	3.90	9.9	0.6	<0.2	3.1	23.2	0.07	0.43	0.35	30	0.23	0.030

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001190.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
1098607	Soil	15.0	26.4	0.36	99.5	0.006	2	1.51	0.003	0.09	<0.1	4.8	0.13	0.03	112	0.5	0.06	3.7	0.82	<0.1	0.05
REP 1098607	QC	14.1	25.3	0.36	97.2	0.005	2	1.46	0.003	0.09	0.1	4.6	0.12	0.03	128	0.3	0.03	3.5	0.76	<0.1	0.08
1098734	Soil	7.8	21.7	0.42	111.2	0.001	5	0.97	0.004	0.14	<0.1	4.7	0.14	0.06	254	0.6	0.04	3.1	1.48	<0.1	0.08
REP 1098734	QC	7.3	20.1	0.40	100.8	0.001	5	0.92	0.004	0.13	<0.1	4.5	0.13	0.06	227	0.6	0.03	2.8	1.39	<0.1	0.07
1098651	Soil	7.0	18.4	0.45	144.8	0.004	6	0.99	0.006	0.09	<0.1	3.6	0.10	0.05	180	0.4	0.03	2.8	1.06	<0.1	0.03
REP 1098651	QC	7.2	18.6	0.46	149.0	0.004	5	1.00	0.006	0.09	<0.1	3.6	0.10	0.05	175	0.4	0.04	2.9	1.10	<0.1	0.02
1098802	Soil	7.2	22.0	0.38	98.0	0.003	4	1.10	0.003	0.09	<0.1	6.0	0.09	<0.02	197	0.3	0.04	3.1	0.86	<0.1	0.05
REP 1098802	QC	7.2	21.7	0.37	98.7	0.003	4	1.11	0.003	0.09	<0.1	6.0	0.09	<0.02	204	0.3	0.04	3.2	0.92	<0.1	0.06
1096818	Soil	8.6	10.3	0.66	70.0	<0.001	3	0.44	0.004	0.09	<0.1	3.7	0.15	0.04	1082	0.4	<0.02	1.3	1.24	<0.1	0.02
REP 1096818	QC	8.7	10.6	0.67	71.4	<0.001	4	0.46	0.004	0.09	<0.1	3.9	0.15	0.04	1101	0.5	<0.02	1.4	1.26	<0.1	<0.02
1096828	Soil	7.7	38.0	0.53	119.8	0.003	2	1.92	0.003	0.12	<0.1	3.9	0.10	<0.02	42	0.5	0.05	6.9	2.22	<0.1	0.03
REP 1096828	QC	7.7	37.1	0.54	115.6	0.003	1	1.96	0.003	0.12	<0.1	3.8	0.10	<0.02	50	0.5	0.04	7.0	2.26	<0.1	0.03
1098010	Soil	14.2	25.3	1.84	143.5	0.005	5	1.64	0.005	0.11	<0.1	4.2	0.21	0.04	110	0.8	0.06	4.4	1.11	<0.1	0.06
REP 1098010	QC	15.3	28.3	1.90	152.8	0.008	5	1.73	0.008	0.13	0.1	4.5	0.25	0.04	113	0.7	0.06	4.6	1.37	<0.1	0.05
1097737	Soil	4.7	15.9	0.30	95.8	0.001	6	1.06	0.004	0.13	<0.1	4.3	0.13	0.05	174	0.8	0.10	3.3	1.40	<0.1	0.04
REP 1097737	QC	4.8	16.7	0.30	95.7	0.001	6	1.08	0.004	0.14	<0.1	4.4	0.14	0.05	152	0.8	0.06	3.3	1.50	<0.1	0.03
1097877	Soil	8.9	24.7	0.27	179.5	0.004	2	1.50	<0.001	0.24	<0.1	2.0	0.12	<0.02	11	<0.1	0.03	6.1	1.00	<0.1	<0.02
REP 1097877	QC	8.5	24.0	0.26	178.7	0.004	2	1.48	<0.001	0.24	<0.1	2.0	0.13	<0.02	12	<0.1	0.03	6.0	1.04	<0.1	0.02
1097886	Soil	22.4	21.2	1.14	106.0	0.004	4	1.15	0.002	0.06	<0.1	3.6	0.11	0.06	313	0.7	0.09	2.7	0.38	<0.1	0.16
REP 1097886	QC	20.9	20.0	1.06	101.4	0.004	4	1.07	0.002	0.06	<0.1	3.3	0.10	0.05	272	0.4	0.08	2.5	0.37	<0.1	0.12
1097846	Soil	9.4	16.0	2.83	125.7	0.003	3	1.03	0.007	0.06	<0.1	2.4	0.18	0.06	183	0.3	0.03	2.6	0.35	<0.1	0.07
REP 1097846	QC	9.4	16.2	2.79	124.7	0.004	5	1.06	0.007	0.06	<0.1	2.4	0.18	0.06	184	0.2	0.05	2.7	0.42	<0.1	0.06
1097850	Soil	7.8	28.4	0.38	105.5	0.004	2	1.51	0.002	0.17	<0.1	2.3	0.11	<0.02	9	<0.1	<0.02	6.6	1.30	<0.1	<0.02
REP 1097850	QC	8.5	30.3	0.39	106.6	0.004	2	1.55	0.002	0.18	0.1	2.4	0.12	<0.02	11	<0.1	0.03	6.5	1.39	<0.1	0.03
1096845	Soil	5.3	6.6	9.31	19.8	0.002	3	0.25	0.011	0.04	<0.1	1.3	0.12	<0.02	417	0.3	0.08	0.6	0.22	<0.1	0.07
REP 1096845	QC	4.7	6.2	8.73	17.8	0.002	3	0.23	0.011	0.04	<0.1	1.3	0.12	0.05	392	0.5	0.11	0.6	0.20	<0.1	0.04
1098026	Soil	6.2	25.0	0.42	138.3	0.002	3	1.70	0.004	0.17	<0.1	3.1	0.12	<0.02	30	0.2	0.04	5.3	1.65	<0.1	0.03
REP 1098026	QC	6.5	24.5	0.45	139.0	0.005	4	1.66	0.004	0.17	<0.1	3.3	0.14	<0.02	37	0.2	0.05	5.1	2.25	<0.1	0.04

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 1 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001190.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
1098607	Soil	0.40	9.2	2.5	<0.05	2.1	13.34	24.1	0.03	<1	0.9	13.1	<10	<2
REP 1098607	QC	0.35	8.4	2.4	<0.05	2.1	12.39	23.1	0.04	1	1.1	12.3	<10	<2
1098734	Soil	0.20	10.1	3.6	<0.05	3.0	9.84	21.4	0.04	<1	1.1	24.2	<10	<2
REP 1098734	QC	0.17	9.7	3.0	<0.05	2.7	9.26	19.7	0.04	<1	1.0	22.6	<10	<2
1098651	Soil	0.38	8.0	1.7	<0.05	0.9	8.05	16.3	0.03	<1	0.7	18.1	<10	<2
REP 1098651	QC	0.42	8.2	2.0	<0.05	0.9	8.45	17.0	0.03	<1	0.7	18.5	<10	<2
1098802	Soil	0.23	6.7	2.5	<0.05	2.8	9.58	17.6	0.04	<1	1.0	20.6	<10	<2
REP 1098802	QC	0.22	6.8	2.4	<0.05	2.5	9.38	17.7	0.04	<1	1.0	20.0	<10	<2
1096818	Soil	0.10	5.1	1.0	<0.05	0.8	10.67	27.0	0.04	<1	0.8	4.1	<10	<2
REP 1096818	QC	0.11	5.1	1.2	<0.05	0.8	10.72	27.8	0.03	<1	0.8	4.3	<10	<2
1096828	Soil	0.38	15.5	2.6	<0.05	1.7	4.43	19.2	0.03	<1	1.0	36.4	<10	<2
REP 1096828	QC	0.37	15.7	2.8	<0.05	1.6	4.35	19.2	0.04	2	1.5	36.6	<10	<2
1098010	Soil	0.62	10.9	0.8	<0.05	1.6	10.73	27.5	0.05	<1	1.2	15.0	<10	<2
REP 1098010	QC	0.67	12.9	1.0	<0.05	1.5	11.36	29.5	0.03	<1	1.2	16.2	<10	<2
1097737	Soil	0.21	10.2	1.5	<0.05	1.5	9.21	10.8	0.05	<1	1.0	23.6	<10	<2
REP 1097737	QC	0.23	10.1	1.2	<0.05	1.5	9.24	10.7	0.05	<1	1.0	24.7	<10	<2
1097877	Soil	0.28	21.7	2.0	<0.05	0.7	2.76	19.8	0.02	<1	0.6	20.3	<10	<2
REP 1097877	QC	0.27	20.7	1.9	<0.05	0.5	2.70	18.2	0.02	<1	0.7	20.0	<10	<2
1097886	Soil	0.20	5.4	3.6	<0.05	3.6	31.68	43.9	0.03	<1	1.1	5.2	<10	<2
REP 1097886	QC	0.17	5.6	3.7	<0.05	3.4	29.06	40.4	0.02	2	1.1	5.3	<10	<2
1097846	Soil	0.28	4.9	4.1	<0.05	1.8	9.97	18.5	0.03	<1	0.9	6.5	<10	<2
REP 1097846	QC	0.29	5.6	3.1	<0.05	1.6	9.91	18.0	0.03	<1	1.0	6.9	<10	<2
1097850	Soil	0.53	15.2	3.2	<0.05	0.7	2.91	17.3	<0.02	<1	0.8	26.4	<10	<2
REP 1097850	QC	0.54	15.8	3.5	<0.05	0.7	3.02	18.2	0.03	<1	0.8	27.7	<10	<2
1096845	Soil	0.06	1.8	5.1	<0.05	1.2	8.11	8.9	<0.02	<1	0.2	1.5	<10	4
REP 1096845	QC	0.06	1.7	4.1	<0.05	1.2	7.55	8.0	<0.02	<1	0.2	1.2	<10	2
1098026	Soil	0.28	18.5	3.3	<0.05	1.3	3.78	14.9	0.04	<1	0.8	39.7	<10	<2
REP 1098026	QC	0.26	21.0	3.3	<0.05	1.2	3.82	15.7	0.02	<1	0.9	40.7	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: **Scarlet**
Report Date: **September 24, 2011**

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001190.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001	
1098027	Soil	0.95	46.76	54.99	110.6	161	49.3	24.7	903	4.92	20.6	1.0	2.8	5.5	51.1	0.12	0.67	0.53	23	0.74	0.034	
REP 1098027	QC	0.96	45.96	55.42	110.8	163	48.6	24.7	883	4.97	20.7	1.0	1.9	5.4	52.4	0.10	0.69	0.48	23	0.74	0.034	
1098058	Soil	0.71	31.87	44.09	80.3	79	29.2	14.4	686	3.09	9.2	0.9	0.8	2.8	42.4	0.15	0.50	0.34	24	0.67	0.081	
REP 1098058	QC	0.70	31.98	44.63	83.7	72	28.6	14.4	676	3.13	9.2	0.9	0.4	2.8	42.8	0.13	0.49	0.35	25	0.67	0.083	
1098351	Soil	0.87	37.41	27.51	114.2	110	34.8	13.2	303	3.20	6.9	1.2	3.7	5.1	43.7	0.18	0.55	0.25	27	0.86	0.097	
REP 1098351	QC	0.83	36.91	26.98	107.5	111	36.8	13.0	300	3.25	7.1	1.3	3.3	4.8	43.5	0.20	0.53	0.26	27	0.88	0.097	
1098369	Soil	0.47	26.09	52.62	68.9	263	19.5	7.9	2465	4.69	79.4	2.6	2.0	1.2	21.9	0.24	4.57	0.19	9	7.23	0.153	
REP 1098369	QC	0.50	26.22	54.27	68.3	237	20.4	8.5	2299	4.59	79.0	2.6	2.6	1.2	22.0	0.22	4.49	0.20	8	7.27	0.152	
1098383	Soil	1.21	29.89	44.79	110.9	90	32.7	19.9	703	4.32	25.0	0.8	0.7	0.5	11.8	0.35	0.74	0.38	30	0.10	0.089	
REP 1098383	QC	1.15	28.28	42.98	103.4	91	31.6	19.5	680	4.16	23.6	0.7	1.0	0.6	11.2	0.33	0.69	0.37	28	0.08	0.078	
1098385	Soil	0.89	21.99	25.89	95.2	97	24.5	11.0	573	3.64	9.3	1.3	2.6	1.5	11.0	0.22	0.55	0.30	34	0.11	0.105	
REP 1098385	QC	0.82	20.30	23.39	86.7	90	22.7	10.0	537	3.48	8.6	1.2	1.4	1.7	9.6	0.23	0.48	0.28	33	0.10	0.100	
Reference Materials																						
STD DS8	Standard	12.57	113.9	120.7	305.1	1824	38.0	7.2	599	2.41	26.8	2.7	101.7	7.0	53.3	2.35	5.03	6.04	39	0.71	0.079	
STD DS8	Standard	12.96	101.4	128.7	310.7	1931	34.5	7.0	613	2.44	25.9	2.8	125.5	6.9	68.6	2.26	5.75	6.72	40	0.72	0.081	
STD DS8	Standard	11.74	104.1	113.4	290.8	1659	35.6	7.3	560	2.28	25.6	2.6	100.7	5.9	59.0	2.20	5.25	6.26	38	0.65	0.076	
STD DS8	Standard	14.49	115.3	128.9	321.2	1808	39.0	7.8	631	2.55	26.3	2.9	129.1	7.3	63.1	2.43	5.49	6.29	45	0.76	0.079	
STD DS8	Standard	12.33	107.5	121.1	297.3	1678	36.2	7.4	574	2.34	23.9	2.6	109.8	6.4	53.3	2.10	4.83	5.84	40	0.67	0.072	
STD DS8	Standard	12.04	105.3	123.1	297.0	1764	34.3	6.9	569	2.34	28.0	2.7	120.6	6.6	62.5	2.21	5.29	6.61	38	0.67	0.079	
STD DS8	Standard	12.53	104.4	129.3	320.0	1869	36.5	7.3	624	2.45	26.8	2.7	127.3	6.6	64.9	2.32	5.46	6.50	41	0.74	0.081	
STD DS8	Standard	13.46	112.6	125.9	308.9	1736	39.0	7.6	605	2.48	26.7	2.7	113.5	6.9	58.7	2.30	5.37	6.18	41	0.71	0.076	
STD DS8	Standard	15.38	118.6	131.9	334.1	1858	41.9	8.0	646	2.65	27.4	2.9	119.1	7.8	70.0	2.30	5.65	6.29	44	0.79	0.081	
STD DS8	Standard	13.16	106.4	124.7	307.6	1735	37.4	7.2	614	2.48	26.4	2.8	107.1	6.5	64.3	2.25	5.18	6.14	41	0.72	0.074	
STD DS8	Standard	13.72	110.3	127.1	321.9	1915	39.2	7.1	617	2.52	25.0	2.8	125.0	7.1	65.6	2.34	5.41	6.71	42	0.75	0.079	
STD DS8	Standard	12.44	106.5	115.6	298.2	1724	38.0	7.5	602	2.42	26.1	2.5	115.8	6.2	60.8	2.23	5.18	6.15	40	0.68	0.074	
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	1.6	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001190.1

		1F15 La ppm	1F15 Cr ppm	1F15 Mg %	1F15 Ba ppm	1F15 Ti %	1F15 B ppm	1F15 Al %	1F15 Na %	1F15 K %	1F15 W ppm	1F15 Sc ppm	1F15 Ti ppm	1F15 S %	1F15 Hg ppb	1F15 Se ppm	1F15 Te ppm	1F15 Ga ppm	1F15 Cs ppm	1F15 Ge ppm	1F15 Hf ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1098027	Soil	8.6	24.8	0.41	114.3	0.002	4	1.60	0.005	0.15	<0.1	7.9	0.14	<0.02	63	0.5	0.13	5.1	1.60	<0.1	0.10
REP 1098027	QC	9.0	24.8	0.39	114.9	0.001	4	1.61	0.004	0.14	<0.1	7.5	0.13	0.02	62	0.4	0.14	5.0	1.56	<0.1	0.10
1098058	Soil	6.5	23.7	0.40	179.3	0.005	4	1.43	0.004	0.13	<0.1	3.7	0.11	0.06	40	0.3	0.08	3.9	2.48	<0.1	0.06
REP 1098058	QC	6.7	24.7	0.41	185.8	0.005	4	1.47	0.004	0.13	<0.1	3.7	0.11	0.06	36	0.5	0.08	3.9	2.64	<0.1	0.07
1098351	Soil	17.5	40.3	0.48	128.3	0.005	2	0.88	0.004	0.10	<0.1	6.2	0.11	0.04	98	1.3	0.02	2.9	1.05	<0.1	0.10
REP 1098351	QC	17.4	39.9	0.53	128.2	0.005	3	0.88	0.004	0.10	<0.1	6.3	0.11	0.04	100	1.0	<0.02	3.0	0.98	<0.1	0.11
1098369	Soil	8.6	9.8	3.57	64.6	0.002	5	0.43	0.007	0.06	<0.1	1.3	0.25	0.05	407	0.8	0.11	1.2	0.21	<0.1	0.09
REP 1098369	QC	8.2	9.7	3.56	63.0	0.002	4	0.42	0.007	0.06	<0.1	1.2	0.25	0.06	422	0.8	0.17	1.1	0.21	<0.1	0.08
1098383	Soil	6.4	26.2	0.30	140.2	0.008	<1	1.63	0.007	0.09	<0.1	1.4	0.11	0.07	32	0.5	0.05	3.6	3.32	<0.1	<0.02
REP 1098383	QC	5.9	25.1	0.27	135.5	0.007	<1	1.54	0.007	0.08	0.1	1.4	0.11	0.06	24	0.4	0.07	3.4	3.05	<0.1	<0.02
1098385	Soil	10.8	25.4	0.27	135.6	0.006	1	1.66	0.002	0.06	0.1	2.4	0.12	0.04	40	0.7	0.08	4.4	1.39	<0.1	0.03
REP 1098385	QC	9.8	23.3	0.25	124.5	0.005	1	1.61	0.002	0.05	0.1	2.5	0.11	0.05	25	0.8	0.06	3.9	1.15	<0.1	0.03
Reference Materials																					
STD DS8	Standard	13.1	116.6	0.61	260.1	0.099	2	0.89	0.087	0.42	3.4	2.0	5.42	0.15	203	5.4	5.08	4.6	2.54	<0.1	0.05
STD DS8	Standard	16.4	119.4	0.62	280.9	0.108	2	0.97	0.102	0.43	3.1	2.2	5.90	0.16	194	5.3	5.13	4.9	2.59	<0.1	0.08
STD DS8	Standard	13.0	113.3	0.56	264.8	0.106	3	0.90	0.106	0.41	2.9	2.1	5.00	0.14	177	4.5	4.78	4.3	2.27	<0.1	0.07
STD DS8	Standard	17.7	130.9	0.65	289.0	0.119	2	1.02	0.100	0.45	3.1	2.4	5.65	0.17	195	5.7	5.52	4.7	2.59	<0.1	0.10
STD DS8	Standard	13.2	114.3	0.57	248.8	0.099	2	0.88	0.088	0.39	3.1	2.0	5.21	0.16	194	4.8	4.61	4.2	2.37	0.1	0.07
STD DS8	Standard	14.1	115.0	0.60	257.9	0.102	3	0.92	0.101	0.42	2.7	2.1	5.34	0.15	186	4.8	4.51	4.3	2.33	<0.1	0.06
STD DS8	Standard	14.1	121.0	0.62	278.5	0.105	2	0.98	0.112	0.45	3.3	2.1	5.71	0.16	206	5.6	5.36	4.8	2.57	0.1	0.09
STD DS8	Standard	14.4	119.9	0.60	253.0	0.110	3	0.98	0.109	0.44	3.1	2.2	5.47	0.16	182	4.9	4.96	4.7	2.46	0.1	0.08
STD DS8	Standard	18.2	131.6	0.65	293.4	0.127	3	0.95	0.089	0.47	3.2	2.3	5.75	0.16	215	5.2	5.37	5.3	2.65	<0.1	0.09
STD DS8	Standard	15.1	121.9	0.61	267.5	0.111	2	0.96	0.101	0.42	3.2	2.2	5.49	0.16	198	5.4	5.18	4.8	2.60	0.1	0.06
STD DS8	Standard	15.6	123.7	0.63	279.0	0.120	3	1.07	0.093	0.48	3.2	3.0	5.62	0.17	211	5.5	5.07	4.8	2.47	0.2	0.09
STD DS8	Standard	12.9	115.0	0.59	245.2	0.108	2	0.93	0.099	0.42	2.8	2.1	5.02	0.15	181	4.9	4.81	4.4	2.37	<0.1	0.08
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 2 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001190.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
1098027	Soil	0.18	9.1	1.9	<0.05	3.4	16.91	25.9	0.04	<1	1.5	40.3	<10	<2
REP 1098027	QC	0.16	9.0	1.7	<0.05	3.5	16.92	26.5	0.07	<1	1.5	39.3	<10	3
1098058	Soil	0.31	10.4	3.3	<0.05	2.1	9.21	22.1	0.04	<1	1.0	35.3	<10	<2
REP 1098058	QC	0.31	11.2	3.7	<0.05	2.0	9.21	23.0	0.05	<1	1.0	36.0	<10	<2
1098351	Soil	0.23	9.4	5.2	<0.05	3.6	15.25	39.4	0.03	<1	0.9	16.8	<10	<2
REP 1098351	QC	0.22	9.1	5.0	<0.05	3.7	15.47	39.9	0.03	3	1.4	16.9	<10	<2
1098369	Soil	0.06	2.5	2.0	<0.05	2.1	13.03	16.8	<0.02	<1	0.4	2.0	<10	<2
REP 1098369	QC	0.07	2.5	1.6	<0.05	2.2	12.92	16.0	<0.02	2	0.3	1.9	<10	<2
1098383	Soil	0.28	10.8	2.6	<0.05	0.6	4.95	16.6	0.05	2	1.2	26.9	<10	<2
REP 1098383	QC	0.26	10.0	2.4	<0.05	0.6	4.84	15.7	0.02	<1	1.0	23.5	<10	<2
1098385	Soil	0.40	12.5	1.7	<0.05	1.1	12.54	37.6	0.05	<1	1.2	23.6	<10	<2
REP 1098385	QC	0.35	10.9	1.4	<0.05	1.2	11.59	35.2	0.03	<1	1.1	21.5	<10	<2
Reference Materials														
STD DS8	Standard	1.26	40.0	6.2	<0.05	2.2	5.55	25.9	2.29	63	5.0	26.5	105	339
STD DS8	Standard	1.58	39.7	6.8	<0.05	1.7	6.60	32.3	2.17	66	4.9	27.1	114	362
STD DS8	Standard	1.22	35.7	6.8	<0.05	1.7	5.10	24.2	2.06	55	5.3	25.8	96	340
STD DS8	Standard	1.54	40.7	7.2	<0.05	2.5	6.73	32.9	2.24	60	6.1	26.8	120	379
STD DS8	Standard	1.22	36.2	6.1	<0.05	2.0	5.27	24.7	2.18	43	4.8	26.1	115	335
STD DS8	Standard	1.06	36.2	6.6	<0.05	1.5	5.54	25.3	2.19	59	5.1	26.8	111	327
STD DS8	Standard	1.35	39.5	6.7	<0.05	2.0	5.92	27.4	2.32	67	5.2	28.4	108	360
STD DS8	Standard	1.33	38.0	6.3	<0.05	1.8	5.50	26.3	2.21	47	5.2	27.2	114	329
STD DS8	Standard	1.41	41.0	6.8	<0.05	2.0	6.84	33.1	2.25	55	5.3	28.4	117	333
STD DS8	Standard	1.38	41.1	6.2	<0.05	1.8	6.32	27.8	2.27	61	5.1	25.1	112	361
STD DS8	Standard	1.54	38.1	6.6	<0.05	2.4	6.46	29.0	2.23	56	5.2	27.7	108	344
STD DS8	Standard	1.18	36.6	6.7	<0.05	2.0	5.19	24.9	2.18	55	4.6	23.5	95	331
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

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Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: September 24, 2011

Page: 3 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001190.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

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Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001190.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 24, 2011

Page: 3 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001190.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Radius Gold Inc.
Suite 650 - 200 Burrard Street
Vancouver BC V6C 3L6 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 20, 2011
Report Date: December 16, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001191.2

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-22
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
Suite 650 - 200 Burrard Street
Vancouver BC V6C 3L6
Canada

CC: David Clark
database backup
Simon Ridgway
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, 1F05, and RJSV.

ADDITIONAL COMMENTS

Version 2: Revised Sample IDs - Samples 1096401 and 1096402 should be listed as 1098401 and 1098402



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1098252	Soil	0.31	10.82	19.02	62.3	128	14.1	5.7	469	2.10	5.6	1.2	<0.2	0.8	70.7	0.25	0.22	0.16	10	1.36	0.152
1098253	Soil	0.54	11.93	32.00	111.0	88	17.6	5.4	438	3.13	14.6	0.9	<0.2	2.4	9.6	0.19	0.85	0.24	19	0.58	0.077
1098254	Soil	0.52	12.45	27.43	72.8	137	15.4	5.2	464	2.29	10.2	1.3	<0.2	1.1	41.4	0.21	0.48	0.20	21	1.24	0.095
1098255	Soil	0.47	9.37	19.58	48.4	117	9.5	3.8	2242	3.17	17.9	0.8	<0.2	0.4	28.2	0.38	1.07	0.10	12	10.29	0.097
1098256	Soil	0.82	15.00	20.92	49.6	61	16.8	9.3	630	3.26	10.1	0.4	<0.2	2.7	8.2	0.15	0.50	0.26	33	0.24	0.030
1098257	Soil	0.74	18.63	24.58	68.8	82	18.6	9.5	2397	4.53	18.9	1.1	<0.2	1.6	12.3	0.20	0.72	0.26	24	0.96	0.115
1098258	Soil	0.68	26.71	28.52	54.2	65	27.5	15.7	445	3.67	9.0	0.5	0.2	4.3	9.0	0.05	0.30	0.34	27	0.40	0.038
1098259	Soil	0.42	24.98	29.37	45.0	68	26.7	16.9	653	2.89	28.6	0.5	<0.2	2.9	5.0	0.05	0.32	0.33	9	0.06	0.035
1098260	Soil	0.52	22.69	30.50	76.8	92	25.3	20.4	1100	3.55	6.5	0.5	<0.2	2.8	15.3	0.16	0.15	0.42	30	0.56	0.084
1098261	Soil	0.78	28.57	33.40	94.2	122	34.1	21.0	567	4.52	8.4	0.6	<0.2	4.6	6.4	0.10	0.19	0.39	35	0.03	0.040
1098262	Soil	0.81	15.02	18.44	63.6	68	11.8	6.2	233	3.21	6.5	0.4	2.7	2.1	4.4	0.10	0.44	0.41	42	0.03	0.036
1098263	Soil	1.40	17.66	29.71	117.8	265	23.5	11.5	492	4.16	10.3	0.5	<0.2	3.4	8.3	0.16	0.60	0.37	50	0.08	0.040
1098264	Soil	0.72	19.07	23.21	112.3	144	20.2	11.1	721	3.26	5.4	0.3	<0.2	2.5	7.3	0.13	0.26	0.39	36	0.07	0.045
1098612	Soil	0.95	31.69	36.90	61.0	114	18.7	9.3	442	5.27	14.6	0.5	3.5	2.9	25.5	0.17	0.63	0.40	22	0.04	0.055
1098613	Soil	0.96	57.23	68.49	119.6	169	49.0	26.6	1277	4.55	5.3	1.0	3.1	3.4	27.2	0.24	0.42	0.48	21	0.24	0.106
1098614	Soil	0.64	49.64	28.61	111.7	139	45.3	16.8	390	3.42	9.1	0.6	5.7	5.3	29.0	0.18	0.48	0.34	15	0.21	0.037
1098615	Soil	1.56	97.79	32.64	59.4	234	25.0	14.1	283	3.73	24.3	3.6	5.8	4.0	34.5	0.08	0.58	0.35	8	0.25	0.044
1098616	Soil	1.05	56.06	53.36	126.6	160	48.9	23.8	847	3.43	6.2	1.2	7.8	6.9	233.8	0.26	0.47	0.39	20	1.78	0.042
1098617	Soil	1.12	51.83	29.05	130.8	161	41.5	16.0	351	2.89	8.8	2.0	10.2	7.2	59.5	0.28	0.63	0.32	25	1.50	0.094
1098618	Soil	1.34	30.93	25.01	103.3	181	22.1	8.8	314	2.18	10.6	3.6	2.6	0.8	123.4	0.35	0.47	0.17	16	2.11	0.055
1098619	Soil	4.73	67.99	31.60	132.5	4512	35.2	13.2	277	2.18	23.7	10.8	48.1	5.4	152.7	1.44	1.14	0.29	33	3.60	0.161
1098620	Soil	0.44	25.57	29.26	83.7	41	25.9	14.1	753	3.22	11.7	1.3	0.5	5.0	42.4	0.12	0.29	0.42	20	0.63	0.041
1098621	Soil	0.82	28.36	33.52	128.5	106	19.2	25.0	2130	4.69	14.4	0.5	0.9	2.1	6.0	0.22	0.44	0.38	33	0.03	0.093
1098622	Soil	0.97	28.03	36.44	70.1	69	26.8	13.8	404	3.70	12.9	0.5	0.7	2.9	8.2	0.03	0.52	0.37	26	0.07	0.025
1098623	Soil	0.59	31.12	50.02	84.5	63	27.1	21.5	1927	3.96	13.4	0.7	0.9	2.8	22.3	0.08	0.34	0.39	26	0.27	0.055
1098624	Soil	0.47	18.53	29.12	70.1	186	26.5	8.4	252	2.00	9.1	1.4	1.3	1.6	50.3	0.08	0.47	0.28	7	1.34	0.052
1098625	Soil	0.57	13.27	34.71	56.6	162	16.0	5.5	949	1.95	12.4	1.1	2.6	0.7	50.1	0.30	0.60	0.22	7	3.42	0.087
1098626	Soil	0.39	12.08	44.73	75.8	149	15.4	5.0	455	1.63	9.6	1.3	1.2	1.3	22.8	0.19	0.39	0.17	5	5.83	0.052
1098627	Soil	0.46	16.09	41.15	134.7	202	16.2	7.4	1564	2.87	31.0	2.5	2.5	1.4	30.8	0.34	1.71	0.17	17	9.03	0.149
1098628	Soil	0.74	20.63	47.02	211.3	181	22.2	8.2	1205	3.11	20.1	2.5	1.5	2.7	15.6	0.40	1.31	0.24	26	3.28	0.098



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1098252	Soil	14.8	8.5	0.09	57.9	0.002	3	0.56	0.006	0.08	<0.1	1.9	0.10	0.06	219	0.3	<0.02	1.3	0.76	<0.1	<0.02
1098253	Soil	11.2	14.7	0.23	84.7	0.002	1	1.03	0.003	0.09	<0.1	3.1	0.07	0.04	98	0.3	0.05	2.6	0.36	<0.1	0.07
1098254	Soil	10.9	15.7	0.34	89.6	0.004	2	0.99	0.004	0.07	<0.1	2.0	0.08	0.06	142	0.3	0.03	2.5	0.45	<0.1	0.04
1098255	Soil	8.9	9.5	5.00	70.0	0.003	3	0.49	0.006	0.03	<0.1	1.3	0.06	<0.02	157	0.3	0.06	1.1	0.26	<0.1	0.03
1098256	Soil	7.1	20.2	0.24	121.0	0.004	1	1.28	0.002	0.13	<0.1	2.0	0.10	<0.02	21	0.1	0.05	4.6	0.83	<0.1	<0.02
1098257	Soil	13.2	18.2	0.37	151.6	0.004	2	1.09	0.005	0.11	<0.1	2.9	0.11	0.07	82	0.2	0.04	2.9	0.71	<0.1	0.06
1098258	Soil	7.7	27.0	0.28	146.0	0.004	2	1.42	0.002	0.26	<0.1	3.4	0.15	0.02	50	0.1	0.04	5.9	2.02	<0.1	0.03
1098259	Soil	4.7	7.1	0.05	146.3	<0.001	2	0.42	0.002	0.14	<0.1	3.1	0.09	0.02	35	<0.1	0.03	1.3	1.53	<0.1	<0.02
1098260	Soil	9.2	28.9	0.27	214.6	0.004	2	1.55	0.003	0.29	<0.1	3.4	0.14	0.03	30	0.1	0.03	6.7	1.38	<0.1	0.03
1098261	Soil	6.5	42.4	0.38	88.8	0.007	<1	1.92	0.003	0.16	<0.1	3.9	0.17	0.02	56	0.1	0.03	8.3	4.32	<0.1	0.04
1098262	Soil	6.0	20.2	0.14	119.5	0.004	<1	1.24	0.002	0.11	<0.1	1.5	0.08	<0.02	13	<0.1	<0.02	6.3	0.83	<0.1	<0.02
1098263	Soil	8.6	33.3	0.40	113.2	0.010	<1	1.86	0.002	0.12	0.1	2.4	0.11	<0.02	29	0.3	0.05	6.8	1.27	<0.1	<0.02
1098264	Soil	5.3	29.7	0.29	171.3	0.002	<1	1.88	0.004	0.15	<0.1	2.4	0.10	0.02	43	0.1	0.03	7.2	0.97	<0.1	0.03
1098612	Soil	3.4	22.1	0.23	104.6	0.002	3	1.20	0.016	0.14	<0.1	2.7	0.16	0.22	119	1.0	0.05	3.6	1.58	<0.1	0.05
1098613	Soil	7.0	48.2	1.09	143.0	0.009	7	2.12	0.001	0.11	<0.1	5.0	0.19	0.07	63	1.0	0.03	6.1	6.06	<0.1	0.07
1098614	Soil	5.1	22.1	0.49	77.3	0.004	5	0.93	0.002	0.12	<0.1	6.9	0.11	<0.02	137	<0.1	0.03	3.0	2.23	<0.1	0.08
1098615	Soil	2.7	16.4	0.17	109.6	0.002	4	1.07	0.005	0.15	<0.1	4.5	0.33	0.13	299	4.0	0.12	2.7	2.09	<0.1	0.10
1098616	Soil	11.1	37.9	1.39	185.3	0.008	7	1.16	0.003	0.19	<0.1	7.7	0.25	<0.02	137	0.4	0.03	4.3	5.54	<0.1	0.09
1098617	Soil	24.6	32.6	0.77	89.0	0.003	5	0.52	0.005	0.12	<0.1	6.8	0.13	0.02	338	1.3	0.06	2.1	0.74	<0.1	0.09
1098618	Soil	17.4	16.4	0.20	88.1	0.002	3	0.39	0.004	0.07	<0.1	2.0	0.13	0.06	335	1.2	0.04	1.3	0.19	<0.1	0.06
1098619	Soil	16.2	16.4	1.24	122.4	0.002	9	0.68	0.005	0.17	<0.1	4.0	0.33	0.04	804	2.6	0.07	1.8	0.56	<0.1	0.11
1098620	Soil	13.0	23.5	0.42	285.8	0.002	4	1.76	0.003	0.13	<0.1	6.6	0.11	0.03	29	0.3	0.06	4.8	1.16	<0.1	0.09
1098621	Soil	3.4	27.1	0.30	112.9	0.004	3	1.75	<0.001	0.14	<0.1	3.0	0.10	0.02	38	0.3	0.10	6.8	2.57	<0.1	0.06
1098622	Soil	4.6	25.4	0.42	49.4	0.005	4	1.64	<0.001	0.10	<0.1	2.8	0.09	<0.02	33	0.3	0.06	4.3	4.20	<0.1	0.04
1098623	Soil	6.3	29.4	0.39	157.0	0.002	4	2.04	0.005	0.14	<0.1	4.4	0.12	0.03	33	0.2	<0.02	5.7	3.82	<0.1	0.05
1098624	Soil	7.1	9.4	0.13	95.1	0.001	5	0.61	0.003	0.07	<0.1	2.6	0.11	0.07	264	0.5	0.04	1.5	0.98	<0.1	0.05
1098625	Soil	7.5	8.1	1.15	91.0	0.003	7	0.45	0.008	0.08	<0.1	1.4	0.13	0.13	240	0.8	0.10	1.1	1.21	0.1	0.05
1098626	Soil	4.3	6.5	2.99	43.3	<0.001	4	0.26	0.005	0.07	<0.1	1.6	0.11	0.05	437	0.4	0.04	0.7	0.41	<0.1	0.05
1098627	Soil	11.9	13.1	4.50	62.1	0.004	5	0.83	0.008	0.06	<0.1	2.1	0.14	0.03	607	0.4	0.11	1.7	0.43	<0.1	0.04
1098628	Soil	13.7	22.1	2.12	108.4	0.006	4	1.19	0.006	0.08	0.1	3.1	0.13	0.04	638	0.6	0.12	2.8	0.73	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 2 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1098252	Soil	0.17	6.5	0.9	<0.05	1.3	15.24	41.3	<0.02	<1	0.9	2.8	<10	<2
1098253	Soil	0.27	6.2	1.9	<0.05	2.3	14.14	22.2	0.04	<1	0.9	6.8	<10	<2
1098254	Soil	0.32	6.0	3.4	<0.05	1.1	10.27	25.1	0.02	<1	0.7	6.2	<10	<2
1098255	Soil	0.09	2.8	5.4	<0.05	0.7	15.04	19.6	<0.02	<1	0.4	2.6	<10	<2
1098256	Soil	0.37	15.4	3.0	<0.05	0.6	2.51	16.5	<0.02	<1	0.6	16.8	<10	<2
1098257	Soil	0.26	9.7	3.4	<0.05	1.3	15.47	26.8	0.04	<1	1.0	7.6	<10	<2
1098258	Soil	0.44	19.3	4.7	<0.05	1.3	6.45	20.2	0.03	<1	1.2	21.1	<10	<2
1098259	Soil	0.06	9.4	4.2	<0.05	0.4	4.20	12.7	0.02	<1	0.9	1.3	<10	<2
1098260	Soil	0.56	20.4	2.0	<0.05	0.6	5.56	24.5	0.03	<1	1.0	22.4	<10	<2
1098261	Soil	0.47	22.5	10.6	<0.05	1.3	3.88	16.2	0.04	2	1.2	30.3	<10	<2
1098262	Soil	0.56	13.5	1.7	<0.05	0.5	1.86	11.7	0.03	<1	0.5	9.7	<10	<2
1098263	Soil	0.88	14.5	5.1	<0.05	1.0	2.53	19.0	0.03	<1	0.7	33.1	<10	<2
1098264	Soil	0.37	16.2	4.0	<0.05	0.8	2.79	12.2	0.04	<1	0.9	29.6	<10	<2
1098612	Soil	0.30	9.9	2.2	<0.05	1.3	2.54	9.0	0.06	<1	0.5	16.7	<10	<2
1098613	Soil	0.31	15.7	10.9	<0.05	1.7	10.41	29.8	0.04	<1	2.5	69.6	<10	<2
1098614	Soil	0.11	9.0	3.8	<0.05	2.7	13.65	14.1	0.05	<1	1.2	24.9	<10	<2
1098615	Soil	0.12	7.6	3.3	<0.05	3.0	4.71	6.5	0.05	<1	0.7	13.4	<10	<2
1098616	Soil	0.18	18.0	12.9	<0.05	4.3	12.21	28.1	<0.02	<1	0.9	31.4	12	<2
1098617	Soil	0.09	8.0	6.8	<0.05	2.5	16.25	60.3	0.04	<1	1.2	6.9	<10	<2
1098618	Soil	0.04	4.8	5.4	<0.05	1.3	12.48	41.7	0.02	<1	0.7	5.1	<10	<2
1098619	Soil	0.09	8.5	2.0	<0.05	3.9	16.72	40.3	0.03	<1	1.4	7.7	<10	<2
1098620	Soil	0.26	13.9	3.8	<0.05	2.9	15.65	42.1	0.05	<1	1.3	31.8	<10	<2
1098621	Soil	0.36	16.2	3.9	<0.05	1.4	2.49	8.5	0.02	<1	1.1	29.9	<10	<2
1098622	Soil	0.31	10.0	6.3	<0.05	1.3	2.83	10.8	0.02	<1	1.0	40.4	<10	<2
1098623	Soil	0.27	18.7	3.0	<0.05	2.1	7.17	21.4	0.04	<1	1.7	50.2	<10	<2
1098624	Soil	0.17	6.3	3.2	<0.05	2.3	13.86	20.4	0.02	2	0.9	10.5	<10	<2
1098625	Soil	0.13	7.2	1.3	<0.05	1.3	9.54	25.1	0.04	<1	1.6	2.7	<10	<2
1098626	Soil	0.05	2.5	2.9	<0.05	1.5	8.21	12.5	<0.02	<1	0.8	1.2	<10	<2
1098627	Soil	0.15	4.2	0.5	<0.05	1.4	14.69	25.1	<0.02	<1	0.6	4.3	<10	2
1098628	Soil	0.31	7.0	2.8	<0.05	1.5	14.60	29.1	0.02	<1	0.6	9.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

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 Report Date: December 16, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1098629	Soil	0.86	14.26	23.07	54.7	26	16.3	7.1	340	3.07	11.3	0.5	1.1	3.1	6.9	0.16	0.46	0.28	32	0.25	0.023
1098630	Soil	0.60	7.72	24.72	59.1	123	9.9	3.5	2107	2.19	21.8	1.0	1.9	0.5	52.8	0.21	1.06	0.07	8	12.48	0.094
1098631	Soil	0.68	24.33	45.09	69.7	141	23.0	10.0	1358	5.30	61.5	1.7	2.3	4.8	13.3	0.18	1.20	0.26	28	0.42	0.033
1098632	Soil	0.64	13.42	17.70	57.8	46	18.9	8.0	281	2.99	9.5	0.6	1.9	3.0	10.6	0.20	0.51	0.21	37	0.17	0.020
1098633	Soil	0.47	18.82	23.78	54.3	59	19.1	17.1	929	3.56	4.8	0.4	1.3	3.9	4.8	0.11	0.22	0.33	24	0.14	0.034
1098634	Soil	0.79	17.53	20.57	69.8	92	13.5	6.4	253	3.44	5.6	0.4	0.4	4.2	4.1	0.08	0.31	0.33	35	0.04	0.026
1098635	Soil	0.70	11.36	19.73	82.8	46	13.4	6.0	267	3.49	7.0	0.4	1.4	3.8	6.5	0.08	0.31	0.31	38	0.05	0.026
1098636	Soil	0.80	17.63	23.81	130.8	95	16.8	11.0	412	3.52	6.2	0.4	<0.2	4.5	5.0	0.25	0.30	0.37	36	0.05	0.033
1098637	Soil	0.42	14.61	21.18	71.4	42	14.7	7.1	380	2.44	5.8	0.6	0.6	1.6	4.4	0.05	0.18	0.28	14	0.03	0.058
1098638	Soil	1.05	20.32	16.51	75.4	48	26.3	9.1	299	2.68	7.6	0.7	1.9	3.1	8.6	0.09	0.65	0.23	40	0.08	0.027
1098639	Soil	0.47	16.15	26.74	36.2	79	18.3	9.6	193	1.75	5.7	0.7	1.0	2.3	6.4	0.11	0.20	0.25	8	0.20	0.046
1098640	Soil	0.46	16.51	19.45	66.4	259	19.8	5.2	264	2.12	8.9	1.1	0.6	2.1	50.1	0.23	0.62	0.20	19	1.34	0.087
1098641	Soil	0.42	15.63	66.46	314.3	182	19.7	5.8	655	2.85	15.6	1.2	0.8	3.1	25.1	0.96	1.16	0.21	20	0.85	0.103
1098642	Soil	0.28	23.08	40.75	50.6	114	20.9	8.1	2781	3.79	35.9	3.4	1.3	2.1	31.9	0.12	2.53	0.17	13	12.23	0.202
1098643	Soil	0.42	10.33	23.84	52.2	97	12.7	5.5	3428	3.16	13.4	0.8	1.4	0.5	23.5	0.30	1.04	0.11	13	8.49	0.136
1098644	Soil	0.55	13.13	23.67	173.3	124	15.1	9.4	3658	4.10	17.6	0.7	1.1	0.9	21.1	0.41	0.65	0.19	22	6.28	0.252
1098645	Soil	0.49	15.80	13.07	44.7	66	12.0	6.9	999	2.48	7.3	0.8	0.4	1.8	13.6	0.14	0.33	0.31	15	1.16	0.048
1098646	Soil	0.70	24.56	26.72	57.1	73	20.1	13.0	906	3.26	4.6	0.5	1.7	4.1	4.5	0.06	0.20	0.38	28	0.09	0.032
1098647	Soil	0.86	20.19	19.21	58.3	66	17.7	8.4	354	3.17	9.1	0.5	2.0	1.6	6.0	0.10	0.46	0.29	32	0.09	0.033
1098648	Soil	0.93	15.80	21.51	54.6	100	17.3	8.1	205	3.23	8.5	0.5	1.2	4.4	6.7	0.10	0.53	0.37	35	0.04	0.033
1098649	Soil	0.68	16.71	18.31	71.2	251	14.0	8.3	422	3.28	5.7	0.4	<0.2	4.0	4.1	0.13	0.32	0.39	34	0.03	0.032
1098650	Soil	0.87	20.90	28.54	77.1	46	19.7	14.9	606	3.93	6.0	0.5	1.8	3.2	4.4	0.07	0.37	0.38	34	0.04	0.051
1098401	Soil	0.67	18.00	16.35	115.4	136	16.7	13.8	590	3.76	6.2	0.4	<0.2	3.9	5.4	0.16	0.31	0.45	43	0.05	0.040
1098402	Soil	0.91	21.41	25.84	161.7	51	18.6	14.5	582	4.19	6.2	0.4	<0.2	3.1	6.0	0.15	0.35	0.45	49	0.08	0.049
1098658	Soil	0.60	43.28	29.86	92.6	70	43.7	21.5	610	4.40	14.9	0.7	0.7	4.2	89.2	0.06	0.29	0.43	16	1.32	0.031
1098659	Soil	0.57	29.08	33.43	125.9	106	31.1	13.3	316	2.85	11.2	0.6	1.2	2.8	62.3	0.12	0.30	0.29	10	1.75	0.059
1098660	Soil	0.44	32.97	29.73	67.6	73	26.4	11.4	251	3.98	16.8	1.2	<0.2	5.6	66.7	0.04	0.26	0.34	11	0.25	0.059
1098661	Soil	1.00	29.29	23.51	73.3	42	22.9	12.5	340	4.78	12.8	0.4	<0.2	2.6	7.8	0.11	0.64	0.36	34	0.05	0.036
1098662	Soil	0.29	27.29	16.60	55.8	57	25.3	9.8	193	2.71	6.3	0.5	1.3	4.4	47.5	0.03	0.19	0.29	15	0.43	0.028
1098663	Soil	0.58	43.57	23.58	98.5	103	42.0	16.9	597	3.64	7.0	0.8	1.7	4.6	30.8	0.13	0.34	0.31	18	0.40	0.043



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1098629	Soil	7.1	22.7	0.31	111.5	0.006	2	1.31	0.002	0.10	<0.1	2.1	0.13	0.02	44	0.2	0.03	4.3	1.40	<0.1	0.02
1098630	Soil	6.3	10.6	6.08	67.3	0.004	3	0.38	0.008	0.05	<0.1	1.0	0.37	0.02	287	0.2	<0.02	1.1	0.35	<0.1	<0.02
1098631	Soil	16.0	22.1	0.36	91.0	0.003	3	1.68	0.001	0.10	<0.1	5.8	0.25	0.03	193	0.5	<0.02	3.9	1.02	<0.1	0.10
1098632	Soil	9.4	23.8	0.40	97.4	0.013	3	1.42	0.003	0.07	0.1	2.3	0.09	<0.02	43	<0.1	<0.02	4.0	1.25	<0.1	<0.02
1098633	Soil	5.1	21.0	0.23	123.1	0.004	5	1.48	0.001	0.26	<0.1	3.8	0.17	0.02	26	0.3	0.04	5.1	2.55	<0.1	0.04
1098634	Soil	8.2	23.3	0.17	86.0	0.004	3	1.46	<0.001	0.12	<0.1	1.9	0.11	<0.02	13	<0.1	<0.02	6.6	1.19	<0.1	0.02
1098635	Soil	9.4	23.3	0.26	153.2	0.013	<1	1.28	0.001	0.11	0.1	2.0	0.11	<0.02	10	0.2	<0.02	5.4	1.24	<0.1	0.05
1098636	Soil	9.3	27.3	0.22	156.0	0.004	3	1.74	<0.001	0.17	<0.1	2.3	0.13	<0.02	17	0.2	0.03	6.0	1.36	<0.1	0.04
1098637	Soil	4.6	9.2	0.06	53.3	0.002	5	0.74	0.003	0.08	<0.1	1.5	0.12	0.03	25	0.4	0.03	2.4	1.54	<0.1	0.04
1098638	Soil	12.6	25.0	0.39	129.1	0.020	2	1.54	0.003	0.08	0.1	2.9	0.15	<0.02	41	0.2	0.04	4.1	2.04	<0.1	<0.02
1098639	Soil	5.5	7.1	0.05	70.0	0.001	1	0.51	0.002	0.11	<0.1	2.6	0.24	0.04	100	0.3	0.07	1.4	1.59	<0.1	0.03
1098640	Soil	17.8	16.0	0.11	83.0	0.002	5	0.84	0.003	0.07	<0.1	2.6	0.12	0.05	81	0.4	<0.02	2.0	0.32	<0.1	0.10
1098641	Soil	15.6	16.7	0.13	84.8	0.002	5	0.86	0.002	0.08	<0.1	3.8	0.08	0.07	171	0.4	0.07	2.2	0.33	<0.1	0.16
1098642	Soil	11.5	13.4	5.99	92.1	0.003	2	0.79	0.006	0.05	<0.1	2.8	0.09	<0.02	399	0.3	0.09	1.2	0.23	<0.1	0.07
1098643	Soil	6.6	11.1	4.27	107.7	0.005	3	0.79	0.007	0.04	<0.1	1.0	0.09	0.05	156	0.2	0.02	1.6	0.32	<0.1	0.04
1098644	Soil	14.1	15.9	2.84	170.6	0.004	6	1.26	0.007	0.07	0.2	1.3	0.09	0.10	132	0.3	0.07	2.6	0.48	<0.1	0.04
1098645	Soil	3.4	11.8	0.15	107.5	0.002	3	0.85	0.002	0.12	<0.1	3.2	0.08	0.03	38	0.2	0.07	2.6	0.61	<0.1	0.07
1098646	Soil	6.7	24.3	0.19	164.9	0.003	2	1.37	0.002	0.22	<0.1	2.7	0.13	0.02	29	0.4	0.07	5.9	1.68	<0.1	0.04
1098647	Soil	7.5	20.6	0.21	85.0	0.011	1	0.97	0.002	0.16	0.1	1.9	0.09	<0.02	22	<0.1	<0.02	4.2	1.22	<0.1	<0.02
1098648	Soil	9.3	22.4	0.26	82.2	0.008	2	1.24	0.002	0.14	0.1	2.2	0.10	0.03	25	0.2	<0.02	5.4	1.33	<0.1	<0.02
1098649	Soil	9.4	22.0	0.19	108.6	0.005	1	1.32	0.002	0.16	<0.1	2.3	0.13	<0.02	26	0.1	0.02	6.1	1.32	<0.1	<0.02
1098650	Soil	7.2	25.6	0.24	119.6	0.005	1	1.43	0.002	0.18	<0.1	2.8	0.16	<0.02	21	0.2	<0.02	6.6	1.79	<0.1	0.02
1098401	Soil	7.1	29.3	0.19	161.7	0.001	<1	2.09	<0.001	0.14	<0.1	2.3	0.14	<0.02	28	0.2	0.03	8.6	1.37	<0.1	0.03
1098402	Soil	6.2	33.9	0.24	124.6	0.002	<1	2.25	0.003	0.12	<0.1	2.9	0.14	<0.02	28	0.1	0.04	9.7	1.68	<0.1	0.03
1098658	Soil	4.2	19.4	0.35	95.7	<0.001	4	1.21	0.005	0.07	<0.1	7.5	0.10	0.08	147	0.4	0.03	3.8	2.20	<0.1	0.06
1098659	Soil	3.6	10.4	0.18	82.6	<0.001	5	0.71	0.005	0.09	<0.1	4.4	0.13	0.05	141	0.7	0.03	2.2	1.64	<0.1	0.06
1098660	Soil	2.7	14.9	0.19	71.3	0.002	3	0.91	0.008	0.12	<0.1	6.1	0.18	0.17	71	0.4	0.03	2.6	1.85	<0.1	<0.02
1098661	Soil	5.2	21.2	0.24	56.1	0.003	2	1.24	0.002	0.08	<0.1	3.2	0.11	<0.02	43	0.3	0.05	5.3	1.99	<0.1	0.02
1098662	Soil	5.5	23.6	0.50	89.9	0.003	5	1.08	0.006	0.14	<0.1	4.3	0.12	0.08	94	0.4	0.04	3.9	1.89	<0.1	0.06
1098663	Soil	8.0	29.1	0.67	92.5	0.004	5	1.38	0.002	0.15	<0.1	6.0	0.16	0.04	60	0.3	0.04	4.4	4.16	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

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 Report Date: December 16, 2011

Page: 3 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1098629	Soil	0.43	12.3	3.3	<0.05	0.6	2.42	15.3	0.03	<1	0.5	15.9	<10	<2
1098630	Soil	0.13	4.4	8.1	<0.05	0.8	18.67	14.4	<0.02	<1	0.4	3.1	<10	<2
1098631	Soil	0.20	9.5	2.9	<0.05	2.9	17.97	27.6	0.02	<1	1.1	14.9	<10	<2
1098632	Soil	0.57	10.0	1.8	<0.05	0.8	2.73	19.9	0.02	<1	0.4	24.9	<10	<2
1098633	Soil	0.30	23.6	1.4	<0.05	0.9	4.47	13.7	0.03	<1	1.0	16.9	<10	<2
1098634	Soil	0.37	17.7	6.2	<0.05	1.2	2.07	18.4	<0.02	<1	0.7	11.7	<10	<2
1098635	Soil	0.75	16.7	2.5	<0.05	1.4	1.92	19.3	<0.02	<1	0.3	13.9	<10	<2
1098636	Soil	0.30	22.3	5.7	<0.05	0.8	2.02	20.8	<0.02	<1	0.8	31.5	<10	<2
1098637	Soil	0.12	12.6	0.8	<0.05	1.1	3.10	17.3	0.04	<1	0.9	5.1	<10	<2
1098638	Soil	0.40	12.1	1.1	<0.05	0.5	5.82	29.5	0.03	<1	0.7	17.9	<10	<2
1098639	Soil	0.11	8.5	0.9	<0.05	0.9	4.77	17.5	0.02	<1	1.2	2.5	<10	<2
1098640	Soil	0.18	5.7	1.3	<0.05	3.3	14.99	38.9	0.03	<1	0.7	6.5	<10	<2
1098641	Soil	0.19	5.2	0.5	<0.05	4.4	17.00	33.0	0.02	<1	0.8	3.3	<10	<2
1098642	Soil	0.11	3.2	2.2	<0.05	2.2	24.66	24.2	0.02	<1	0.5	3.3	<10	<2
1098643	Soil	0.11	3.4	0.7	<0.05	0.8	10.16	14.6	<0.02	<1	0.5	3.8	<10	<2
1098644	Soil	0.17	5.3	3.4	<0.05	1.5	13.01	30.1	<0.02	<1	0.7	5.0	<10	<2
1098645	Soil	0.29	10.5	1.2	<0.05	2.0	3.64	9.0	0.04	<1	0.4	5.6	<10	<2
1098646	Soil	0.29	17.6	5.5	<0.05	1.5	4.03	16.0	0.02	<1	1.1	10.7	<10	<2
1098647	Soil	0.36	14.3	1.6	<0.05	0.2	2.72	16.0	0.02	<1	0.8	10.5	<10	<2
1098648	Soil	0.59	12.4	1.9	<0.05	0.9	2.43	19.8	0.04	<1	0.6	17.6	<10	<2
1098649	Soil	0.46	19.1	1.6	<0.05	0.8	2.46	20.1	0.03	<1	0.5	14.5	<10	<2
1098650	Soil	0.55	19.6	2.6	<0.05	0.9	3.09	17.1	0.04	<1	0.7	17.5	<10	<2
1098401	Soil	0.35	19.9	2.2	<0.05	1.3	2.30	14.9	0.03	<1	0.7	24.1	<10	<2
1098402	Soil	0.40	20.7	2.7	<0.05	1.1	3.30	13.5	0.05	<1	1.0	36.8	<10	<2
1098658	Soil	0.16	7.1	1.2	<0.05	2.7	11.53	11.7	0.06	<1	1.1	37.6	<10	<2
1098659	Soil	0.14	6.2	2.5	<0.05	2.6	9.73	9.3	0.04	1	1.1	19.5	<10	<2
1098660	Soil	0.08	8.2	1.1	<0.05	1.6	7.66	7.3	0.05	<1	1.3	20.0	<10	<2
1098661	Soil	0.41	12.9	2.9	<0.05	1.0	2.68	11.2	0.05	<1	0.5	21.4	<10	<2
1098662	Soil	0.29	11.1	1.6	<0.05	2.0	5.60	13.9	0.03	<1	0.8	29.8	<10	<2
1098663	Soil	0.29	15.4	3.6	<0.05	1.4	12.93	23.8	0.05	<1	1.3	37.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

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 Report Date: December 16, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1098664	Soil			1.05	32.05	18.68	113.7	67	28.1	12.0	475	2.93	6.6	3.9	0.6	2.3	109.3	0.28	0.49	0.19	44	1.92	0.047
1098665	Soil			1.30	28.18	21.62	64.9	38	28.7	14.2	291	4.21	11.2	0.5	0.2	2.9	11.5	0.31	0.59	0.27	36	0.12	0.029
1098666	Soil			0.91	39.92	19.22	83.5	162	34.6	13.8	335	2.93	8.3	2.1	3.9	4.8	86.5	0.16	0.51	0.24	31	2.07	0.043
1098667	Soil			0.83	20.17	18.09	58.0	150	18.5	8.3	439	2.28	5.8	2.5	0.4	1.4	67.6	0.32	0.39	0.16	25	1.25	0.037
1098668	Soil			0.64	38.23	35.54	89.3	190	37.8	17.6	520	3.98	14.3	1.0	0.7	4.1	110.7	0.10	0.43	0.34	22	1.53	0.039
1098669	Soil			0.33	21.31	20.25	108.5	120	24.1	8.6	314	2.72	6.6	1.6	0.2	2.3	70.2	0.13	0.37	0.27	13	1.57	0.050
1098670	Soil			0.46	19.51	42.19	515.4	238	19.6	7.6	2606	4.79	37.2	3.6	1.1	1.7	31.4	1.08	2.45	0.13	14	11.31	0.183
1098671	Soil			0.51	15.77	22.98	120.7	110	15.2	7.2	3664	6.36	36.3	2.0	0.5	1.5	32.1	0.76	1.81	0.13	21	9.78	0.100
1098672	Soil			0.32	14.28	23.08	29.1	126	13.7	8.1	1887	3.64	20.7	1.7	0.4	1.9	28.2	0.11	1.22	0.13	20	10.02	0.092
1098673	Soil			0.36	22.40	50.50	35.5	267	18.0	7.1	3227	4.26	43.4	2.2	<0.2	0.9	29.1	0.25	4.14	0.24	17	10.96	0.120
1098674	Soil			0.66	25.16	29.40	51.0	181	25.7	13.2	1105	3.38	28.4	1.0	1.5	3.4	27.8	0.08	2.00	0.22	23	5.50	0.068
1098675	Soil			0.25	19.07	53.80	56.1	245	12.9	7.4	1259	2.28	36.3	2.0	0.2	0.9	36.3	0.13	2.46	0.12	7	14.42	0.117
1098676	Soil			0.39	29.33	36.81	68.7	93	18.4	13.2	961	2.90	16.8	0.6	<0.2	3.1	16.1	0.13	0.71	0.26	20	3.17	0.060
1098677	Soil			0.91	25.63	27.44	72.6	119	21.8	15.3	1726	3.61	9.2	3.4	<0.2	1.9	45.8	0.27	0.52	0.30	39	0.79	0.128
1098678	Soil			1.31	38.40	46.05	86.1	101	26.0	22.4	1475	4.26	11.2	0.9	0.8	1.1	10.5	0.12	0.71	0.38	41	0.09	0.117
1098679	Soil			0.48	42.77	25.89	102.9	81	35.5	15.9	284	3.45	12.6	1.3	0.5	3.2	58.7	0.12	0.63	0.39	17	0.68	0.061
1098680	Soil			5.53	54.29	38.48	148.0	754	34.2	13.4	240	2.63	21.8	11.7	22.8	1.1	416.9	0.69	1.81	0.30	21	7.24	0.103
1098681	Soil			2.16	39.71	26.58	89.4	561	27.7	11.3	228	2.76	12.6	6.3	11.5	2.3	82.2	0.30	1.17	0.21	18	1.10	0.113
1098682	Soil			1.40	30.50	23.02	85.6	612	23.2	8.5	217	2.33	11.3	7.8	6.0	1.4	98.5	0.29	7.22	0.23	22	1.49	0.108
1098683	Soil			1.77	41.04	20.55	92.6	672	31.2	11.9	202	2.61	11.8	4.0	12.8	3.6	88.7	0.24	2.16	0.20	29	1.33	0.079
1098684	Soil			1.03	38.77	17.39	92.1	389	29.8	11.5	264	2.64	9.4	2.6	10.8	3.4	50.0	0.27	3.23	0.27	30	0.91	0.074
1098811	Soil			0.58	47.07	33.13	102.3	167	52.6	24.3	713	5.01	15.0	0.7	0.5	5.7	65.6	0.06	0.31	0.45	17	1.01	0.041
1098812	Soil			0.46	32.33	18.98	66.8	102	26.1	13.0	407	3.02	8.3	0.6	1.1	3.2	30.6	0.04	0.40	0.30	14	0.54	0.046
1098813	Soil			0.60	38.10	21.08	61.7	145	27.5	12.4	321	3.00	12.4	0.7	3.3	3.2	39.7	0.04	0.47	0.33	14	0.80	0.041
1098814	Soil			0.82	31.74	41.07	112.7	82	44.0	20.9	852	3.11	5.5	0.7	0.7	4.8	19.6	0.43	0.34	0.27	23	0.36	0.052
1098815	Soil			1.47	28.96	20.27	94.4	58	34.9	13.1	355	2.69	5.0	1.1	4.8	3.9	36.5	0.34	0.62	0.28	20	0.79	0.055
1098816	Soil			0.51	26.29	18.21	99.0	64	30.4	11.9	417	2.76	1.1	1.1	3.9	4.5	47.0	0.24	0.26	0.25	23	2.19	0.071
1098817	Soil			0.42	42.93	12.73	71.2	108	22.9	10.6	272	2.07	2.8	2.2	1.8	2.4	307.5	0.15	0.25	0.20	21	8.76	0.064
1098818	Soil			1.15	34.43	19.02	94.2	208	29.1	12.8	388	2.60	9.7	2.1	7.4	3.1	51.9	0.23	0.67	0.23	24	1.20	0.055
1098819	Soil			1.00	25.64	23.45	71.5	70	22.4	15.0	503	3.91	12.4	0.6	1.0	2.5	11.9	0.09	0.45	0.36	36	0.13	0.032



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1098664	Soil	19.0	42.6	0.26	254.1	0.003	3	0.80	0.004	0.06	<0.1	4.5	0.12	0.04	235	1.0	<0.02	2.8	0.57	<0.1	0.04
1098665	Soil	6.3	27.1	0.36	101.3	0.004	2	1.40	0.002	0.09	<0.1	3.6	0.11	<0.02	64	0.3	0.05	4.8	1.30	<0.1	<0.02
1098666	Soil	19.1	32.2	0.80	652.3	0.005	4	1.13	0.005	0.13	<0.1	6.5	0.16	0.04	249	0.9	0.02	3.8	0.86	<0.1	0.07
1098667	Soil	10.5	18.9	0.19	241.6	0.003	2	0.82	0.003	0.07	<0.1	2.7	0.10	0.04	187	0.7	<0.02	2.6	0.41	<0.1	0.03
1098668	Soil	9.2	22.3	0.46	104.4	0.003	4	1.40	0.006	0.11	<0.1	6.9	0.17	0.05	106	0.4	0.05	4.0	3.07	<0.1	0.06
1098669	Soil	6.8	14.1	0.66	48.4	0.002	7	0.92	0.005	0.11	<0.1	3.7	0.10	0.10	143	0.7	<0.02	2.7	1.03	<0.1	0.04
1098670	Soil	7.6	12.5	5.90	56.4	0.003	3	0.72	0.009	0.06	<0.1	2.2	0.14	<0.02	738	0.6	0.05	1.8	0.55	<0.1	0.05
1098671	Soil	11.7	16.0	5.13	102.3	0.005	3	1.05	0.008	0.05	<0.1	2.8	0.12	<0.02	400	0.5	0.06	2.4	0.95	<0.1	0.05
1098672	Soil	9.3	13.5	5.81	57.9	0.004	2	0.90	0.007	0.04	<0.1	2.9	0.09	<0.02	337	0.2	<0.02	2.0	0.49	<0.1	0.04
1098673	Soil	11.5	12.6	6.05	97.7	0.002	5	0.94	0.009	0.05	<0.1	1.9	0.21	0.04	446	0.5	0.25	2.0	0.39	<0.1	0.05
1098674	Soil	11.2	20.6	3.32	82.0	0.004	4	1.32	0.005	0.10	<0.1	4.7	0.28	<0.02	305	0.3	0.03	3.5	1.13	<0.1	0.06
1098675	Soil	8.9	7.8	7.61	44.5	0.001	5	0.31	0.015	0.05	0.1	1.5	0.20	<0.02	653	0.3	0.06	0.8	0.56	<0.1	0.04
1098676	Soil	10.7	13.3	1.67	221.9	0.002	4	0.89	0.005	0.11	<0.1	4.6	0.17	0.04	219	0.1	0.06	2.2	0.58	<0.1	0.05
1098677	Soil	11.6	25.9	0.34	175.0	0.005	1	1.79	0.003	0.07	0.1	4.4	0.16	0.08	67	0.2	0.05	5.5	2.38	<0.1	0.05
1098678	Soil	7.7	30.6	0.46	93.3	0.011	3	1.73	0.004	0.11	0.1	3.1	0.16	0.06	92	0.4	0.08	6.6	7.59	<0.1	<0.02
1098679	Soil	12.1	16.7	0.26	155.2	0.002	4	0.87	0.004	0.10	<0.1	6.3	0.11	0.04	227	0.2	0.05	2.4	1.48	<0.1	0.09
1098680	Soil	11.0	12.0	0.39	356.5	0.002	4	0.72	0.004	0.08	<0.1	2.0	0.21	0.07	928	1.0	0.04	1.7	0.44	<0.1	0.11
1098681	Soil	18.8	12.8	0.20	95.8	0.003	3	0.57	0.004	0.10	<0.1	3.5	0.21	0.05	571	1.1	<0.02	1.6	0.44	<0.1	0.10
1098682	Soil	17.1	12.5	0.27	185.8	0.002	4	0.71	0.005	0.08	<0.1	2.5	0.12	0.07	1697	0.7	0.04	1.8	0.39	<0.1	0.10
1098683	Soil	21.6	27.4	0.85	167.1	0.006	5	1.00	0.004	0.17	<0.1	4.9	0.26	0.04	632	1.2	<0.02	3.4	1.20	<0.1	0.08
1098684	Soil	20.9	36.5	1.03	184.2	0.009	5	1.32	0.004	0.16	<0.1	4.9	0.20	0.05	403	0.9	<0.02	4.5	2.18	<0.1	0.08
1098811	Soil	5.9	22.7	0.42	88.1	<0.001	2	1.41	0.006	0.08	<0.1	10.3	0.11	0.06	83	0.2	0.07	4.2	2.15	<0.1	0.05
1098812	Soil	5.1	15.5	0.27	91.1	0.001	4	0.83	0.002	0.11	<0.1	4.6	0.09	0.03	204	0.3	0.05	2.6	1.28	<0.1	0.04
1098813	Soil	5.1	13.5	0.18	68.0	0.001	4	0.66	0.004	0.11	<0.1	5.0	0.16	0.06	473	0.5	0.06	2.4	1.27	<0.1	0.07
1098814	Soil	8.8	47.9	1.06	125.1	0.012	7	1.80	0.005	0.20	<0.1	5.1	0.18	0.05	77	0.2	0.03	6.1	7.70	<0.1	0.03
1098815	Soil	14.3	40.6	0.49	165.0	0.003	3	0.81	0.003	0.10	<0.1	4.7	0.10	0.03	308	0.7	<0.02	2.8	0.62	<0.1	0.11
1098816	Soil	22.7	35.6	1.49	160.7	0.003	3	0.83	0.005	0.14	<0.1	6.0	0.17	0.03	184	0.9	<0.02	3.1	1.37	<0.1	0.09
1098817	Soil	19.7	23.9	1.20	157.1	0.003	4	0.86	0.005	0.13	<0.1	3.6	0.10	0.02	92	1.2	<0.02	2.6	0.67	<0.1	0.08
1098818	Soil	14.4	26.1	0.49	118.4	0.002	4	0.62	0.004	0.13	<0.1	4.7	0.17	0.03	141	0.9	0.04	2.1	0.23	<0.1	0.09
1098819	Soil	5.1	27.9	0.36	87.9	0.001	1	2.02	0.001	0.13	<0.1	2.8	0.13	<0.02	31	0.2	0.05	5.8	1.78	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 4 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1098664	Soil	0.23	11.7	1.9	<0.05	1.4	10.38	45.7	0.04	<1	1.2	10.7	<10	<2
1098665	Soil	0.47	11.9	3.5	<0.05	1.1	3.22	14.1	0.04	<1	0.6	31.1	<10	<2
1098666	Soil	0.43	11.3	3.7	<0.05	2.6	14.53	38.2	0.04	<1	1.3	22.8	<10	<2
1098667	Soil	0.35	8.1	3.1	<0.05	1.4	7.13	25.1	0.03	<1	0.8	8.5	<10	<2
1098668	Soil	0.34	12.8	3.0	<0.05	2.3	15.78	24.8	0.05	<1	1.2	44.9	<10	<2
1098669	Soil	0.23	9.7	1.1	<0.05	1.5	10.59	15.7	0.04	<1	0.8	19.6	<10	<2
1098670	Soil	0.10	4.6	3.5	<0.05	1.6	15.14	17.2	0.03	<1	0.5	5.1	<10	<2
1098671	Soil	0.21	6.2	2.2	<0.05	1.1	15.08	22.5	0.03	<1	0.7	9.4	<10	<2
1098672	Soil	0.16	4.2	0.7	<0.05	1.1	12.20	18.3	<0.02	<1	0.5	6.7	<10	<2
1098673	Soil	0.09	5.9	1.3	<0.05	1.7	16.06	19.6	0.02	<1	0.7	4.4	<10	<2
1098674	Soil	0.25	8.9	1.2	<0.05	2.1	14.40	21.8	0.03	<1	1.0	15.4	<10	<2
1098675	Soil	0.04	5.4	3.8	<0.05	1.4	12.54	13.9	<0.02	<1	0.4	1.7	<10	<2
1098676	Soil	0.21	6.4	1.2	<0.05	1.9	11.14	21.4	0.03	<1	1.1	8.0	<10	<2
1098677	Soil	0.43	15.3	1.8	<0.05	1.4	15.05	31.1	0.04	<1	1.4	20.6	<10	<2
1098678	Soil	0.32	18.7	2.2	<0.05	0.3	7.06	21.2	0.05	<1	1.5	30.4	<10	<2
1098679	Soil	0.14	7.6	0.9	<0.05	2.5	19.68	19.0	0.05	<1	1.2	14.7	<10	<2
1098680	Soil	0.18	5.5	1.1	<0.05	3.4	10.04	20.6	0.03	<1	1.2	6.1	<10	<2
1098681	Soil	0.15	5.9	0.8	<0.05	4.3	15.64	37.9	0.04	2	1.0	5.2	<10	<2
1098682	Soil	0.19	6.2	0.9	<0.05	2.7	15.51	26.4	0.04	<1	1.0	7.5	<10	<2
1098683	Soil	0.29	12.5	1.3	<0.05	3.4	14.50	40.9	0.04	<1	1.2	22.9	<10	<2
1098684	Soil	0.40	16.8	0.5	<0.05	3.8	14.77	39.2	0.03	<1	1.2	30.4	<10	<2
1098811	Soil	0.12	7.0	0.8	<0.05	3.0	16.87	20.0	0.04	<1	1.5	43.0	<10	<2
1098812	Soil	0.14	8.4	2.7	<0.05	1.6	9.77	11.9	0.03	<1	0.8	18.3	<10	<2
1098813	Soil	0.20	8.9	0.4	<0.05	2.2	10.81	12.5	0.04	<1	0.8	9.1	<10	<2
1098814	Soil	0.54	23.8	7.9	<0.05	2.0	7.86	23.4	0.04	<1	1.3	49.7	<10	<2
1098815	Soil	0.30	8.3	1.9	<0.05	3.9	13.14	39.0	0.05	<1	0.9	18.1	<10	<2
1098816	Soil	0.17	12.4	1.8	<0.05	2.6	13.09	49.5	0.04	<1	1.2	16.9	<10	<2
1098817	Soil	0.23	9.5	0.4	<0.05	3.0	14.71	41.0	0.03	<1	1.1	21.0	<10	<2
1098818	Soil	0.15	5.9	1.2	<0.05	3.3	11.04	33.2	0.04	<1	0.8	9.2	<10	<2
1098819	Soil	0.24	12.6	1.2	<0.05	1.3	2.77	11.4	0.03	<1	0.8	49.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1098820	Soil			0.66	31.35	33.34	93.7	55	31.1	15.4	440	3.82	12.7	0.5	0.6	3.6	54.3	0.11	0.37	0.38	21	0.64	0.030
1098821	Soil			0.56	24.86	24.45	119.7	121	21.8	6.7	127	2.39	8.0	1.4	0.8	1.9	139.3	0.21	0.39	0.32	15	1.42	0.087
1098822	Soil			0.59	23.79	50.77	82.8	157	21.7	10.6	423	4.16	7.1	0.8	0.4	3.0	76.4	0.07	0.23	0.48	11	0.97	0.046
1098823	Soil			0.49	12.98	21.39	55.6	121	11.4	5.5	3405	4.50	36.9	1.5	0.4	0.7	22.9	0.31	2.37	0.16	13	7.83	0.103
1098824	Soil			0.48	15.14	28.63	27.1	191	15.5	6.1	2267	3.01	28.7	2.9	0.9	1.4	27.6	0.13	2.00	0.14	16	10.23	0.144
1098825	Soil			0.89	13.79	17.91	51.7	34	18.6	7.8	365	3.45	12.2	0.6	0.3	3.6	7.3	0.10	0.64	0.26	46	0.15	0.023
1098826	Soil			0.60	11.98	29.06	43.7	39	14.8	7.9	2829	4.43	20.2	0.8	<0.2	3.2	5.3	0.23	1.18	0.20	29	0.36	0.037
1098827	Soil			0.58	17.96	20.66	51.9	27	19.9	9.8	832	3.12	13.7	0.5	0.7	4.2	13.7	0.10	0.69	0.29	28	1.18	0.037
1098828	Soil			0.52	11.19	18.04	56.3	84	14.0	7.6	1755	3.04	17.5	0.8	<0.2	1.2	24.9	0.30	0.98	0.19	27	6.37	0.091
1098829	Soil			0.46	29.38	21.95	48.0	27	16.9	30.8	2216	2.60	12.8	0.5	<0.2	2.9	9.5	0.12	0.41	0.38	21	0.25	0.059
1098830	Soil			0.80	12.32	18.83	49.2	17	14.5	10.1	287	2.84	17.4	0.4	<0.2	1.2	4.2	0.14	0.59	0.33	20	0.16	0.033
1098831	Soil			0.68	21.25	15.22	45.0	66	12.6	8.3	238	3.37	3.0	0.4	<0.2	3.3	4.1	0.06	0.23	0.33	31	0.02	0.022
1098832	Soil			0.46	21.03	29.68	59.7	37	23.0	11.6	222	2.97	5.2	0.5	0.2	5.0	10.7	0.05	0.18	0.34	21	0.18	0.031
1098833	Soil			0.70	20.09	30.72	60.2	85	21.7	20.7	518	4.18	5.1	0.4	<0.2	3.9	3.8	0.14	0.21	0.32	33	0.04	0.032
1098834	Soil			0.60	15.70	23.88	58.4	54	18.2	10.1	448	2.95	5.3	0.7	<0.2	3.9	8.7	0.11	0.27	0.28	28	0.11	0.033
1098835	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1098836	Soil			0.88	42.59	44.67	104.3	162	33.5	22.2	1093	3.77	15.9	2.6	0.8	4.0	44.0	0.11	0.49	0.37	25	0.55	0.101
1098837	Soil			0.69	49.86	60.11	96.2	126	31.1	35.1	3059	3.92	17.5	1.0	<0.2	3.7	19.2	0.14	0.40	0.40	22	0.30	0.091
1098838	Soil			0.76	42.07	32.22	103.9	102	35.2	17.5	463	3.50	15.2	1.3	1.1	3.3	49.3	0.10	0.36	0.39	19	0.61	0.059
1098839	Soil			0.58	33.38	27.33	141.4	102	27.7	12.1	313	3.17	12.0	1.9	<0.2	2.1	62.0	0.32	0.34	0.35	15	1.12	0.087
1098840	Soil			0.64	35.68	33.05	90.4	110	28.1	13.6	492	3.20	13.4	1.9	<0.2	2.6	62.3	0.12	0.35	0.33	19	1.01	0.081
1098841	Soil			0.72	38.69	31.69	86.9	131	29.2	15.2	742	3.35	13.4	2.2	0.2	3.0	46.8	0.09	0.35	0.33	20	0.75	0.082
1098842	Soil			0.84	43.33	50.87	93.8	148	34.7	19.9	928	3.66	17.3	1.1	0.5	3.2	32.8	0.08	0.39	0.37	18	0.38	0.050
1098151	Soil			1.31	29.93	38.56	93.8	174	25.4	13.9	943	4.12	11.2	0.9	<0.2	0.3	39.6	0.22	0.60	0.38	31	0.68	0.138
1098152	Soil			0.86	20.10	31.78	80.6	124	17.4	16.4	1622	3.66	6.0	0.7	<0.2	0.5	6.5	0.21	0.50	0.25	30	0.05	0.092
1098153	Soil			0.90	20.66	27.80	102.8	90	18.2	10.7	591	3.70	9.0	0.5	<0.2	0.3	11.0	0.17	0.56	0.33	29	0.07	0.068
1098154	Soil			0.58	27.98	41.54	77.1	148	19.6	11.1	487	4.60	5.8	0.7	<0.2	3.8	12.2	0.10	0.27	0.44	16	0.02	0.067
1098265	Soil			0.94	42.40	62.76	98.0	105	30.4	23.6	671	3.07	17.7	0.9	<0.2	1.8	13.5	0.05	0.56	0.41	21	0.08	0.044
1098266	Soil			0.75	43.10	83.35	134.1	147	25.2	28.9	1189	3.55	11.6	0.8	<0.2	1.3	10.8	0.14	0.49	0.44	29	0.07	0.066
1098267	Soil			0.99	37.67	55.38	100.7	206	36.0	22.2	1243	4.31	18.7	1.7	0.4	3.4	37.5	0.17	0.65	0.32	24	0.41	0.089



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	Unit	MDL	1F15 La	1F15 Cr	1F15 Mg	1F15 Ba	1F15 Ti	1F15 B	1F15 Al	1F15 Na	1F15 K	1F15 W	1F15 Sc	1F15 Ti	1F15 S	1F15 Hg	1F15 Se	1F15 Te	1F15 Ga	1F15 Cs	1F15 Ge	1F15 Hf
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1098820	Soil			7.1	21.8	0.39	100.8	0.001	2	1.43	0.002	0.17	<0.1	5.1	0.14	<0.02	30	0.3	0.05	4.3	0.93	<0.1	0.10
1098821	Soil			6.3	18.6	0.41	98.5	0.002	5	1.02	0.008	0.09	<0.1	3.3	0.09	0.10	102	0.5	0.03	3.0	1.16	<0.1	0.08
1098822	Soil			6.3	16.7	0.14	123.6	<0.001	2	0.79	0.012	0.09	<0.1	4.6	0.20	0.16	51	0.5	0.04	2.7	1.75	<0.1	0.05
1098823	Soil			9.3	12.9	3.38	100.8	0.003	2	0.78	0.007	0.04	<0.1	1.5	0.12	0.05	348	0.5	0.03	1.7	0.36	<0.1	0.02
1098824	Soil			10.9	14.4	4.92	79.3	0.005	3	0.80	0.011	0.05	<0.1	1.8	0.12	<0.02	420	0.5	0.03	1.5	0.43	<0.1	<0.02
1098825	Soil			9.5	26.3	0.35	91.3	0.006	<1	1.85	0.002	0.06	0.1	2.3	0.12	<0.02	26	0.3	<0.02	5.2	1.01	<0.1	0.03
1098826	Soil			18.3	19.1	0.36	103.8	0.003	1	1.46	0.001	0.07	<0.1	3.9	0.13	<0.02	117	0.1	0.03	3.4	0.51	<0.1	0.06
1098827	Soil			9.7	23.6	0.51	156.4	0.002	2	1.39	0.002	0.25	<0.1	3.9	0.13	0.02	64	0.2	<0.02	4.2	0.32	<0.1	0.07
1098828	Soil			8.5	20.7	3.47	117.3	0.002	3	1.57	0.003	0.06	<0.1	2.1	0.12	0.04	93	0.3	<0.02	3.8	0.65	<0.1	0.06
1098829	Soil			3.9	15.5	0.18	304.6	0.004	2	1.13	0.002	0.23	0.1	3.0	0.13	0.03	42	0.2	0.05	3.3	2.13	<0.1	<0.02
1098830	Soil			3.2	15.2	0.13	107.0	0.005	2	0.63	0.002	0.20	<0.1	1.5	0.08	<0.02	28	<0.1	0.06	2.7	0.87	<0.1	<0.02
1098831	Soil			6.5	19.1	0.16	69.2	0.002	<1	1.08	<0.001	0.12	<0.1	2.0	0.08	<0.02	11	0.1	<0.02	6.1	0.76	<0.1	<0.02
1098832	Soil			6.1	23.0	0.29	92.8	0.001	<1	1.21	0.003	0.11	<0.1	2.3	0.07	<0.02	22	0.1	<0.02	4.0	1.41	<0.1	0.02
1098833	Soil			5.3	30.2	0.33	97.1	0.002	<1	1.80	<0.001	0.13	<0.1	3.6	0.12	<0.02	44	0.2	0.04	5.5	2.36	<0.1	0.03
1098834	Soil			8.9	24.8	0.34	114.7	0.003	1	1.35	0.003	0.13	<0.1	2.6	0.08	0.02	39	0.2	<0.02	4.1	0.78	<0.1	0.02
1098835	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1098836	Soil			8.3	25.1	0.63	104.7	0.003	3	1.58	0.005	0.11	<0.1	6.8	0.12	0.03	201	0.2	0.07	4.4	4.50	<0.1	0.10
1098837	Soil			5.1	27.7	0.62	95.2	0.001	2	2.04	0.003	0.11	<0.1	9.1	0.13	0.09	111	0.2	0.04	5.4	4.87	<0.1	0.10
1098838	Soil			8.3	23.9	0.69	112.1	0.002	3	1.58	0.003	0.10	<0.1	5.4	0.08	0.03	78	0.3	0.07	4.5	1.96	<0.1	0.11
1098839	Soil			15.3	18.4	0.53	146.4	0.002	6	1.29	0.003	0.10	<0.1	4.9	0.07	0.09	80	0.3	0.06	3.4	0.99	<0.1	0.08
1098840	Soil			10.9	22.8	0.55	109.7	0.002	4	1.49	0.004	0.10	<0.1	5.4	0.09	0.07	70	0.2	0.05	4.1	2.28	<0.1	0.10
1098841	Soil			9.6	25.4	0.52	105.0	0.002	3	1.56	0.004	0.10	<0.1	6.2	0.09	0.06	87	0.2	0.03	4.3	3.58	<0.1	0.09
1098842	Soil			6.4	25.3	0.57	79.8	0.001	3	1.56	0.003	0.10	<0.1	5.9	0.11	0.04	51	0.2	0.08	4.3	3.17	<0.1	0.11
1098151	Soil			5.6	30.1	0.32	124.4	0.004	2	1.21	0.005	0.12	<0.1	0.8	0.09	0.09	32	0.3	0.08	4.7	2.39	<0.1	<0.02
1098152	Soil			4.7	24.4	0.24	89.4	0.004	1	1.33	0.002	0.08	<0.1	0.6	0.10	0.06	33	0.3	<0.02	3.7	1.93	<0.1	<0.02
1098153	Soil			4.9	21.0	0.20	117.5	0.004	<1	1.08	0.004	0.11	<0.1	0.7	0.09	0.05	22	0.3	0.08	3.7	2.16	<0.1	<0.02
1098154	Soil			3.9	19.7	0.17	74.5	0.001	1	1.14	0.004	0.11	<0.1	3.9	0.18	0.05	27	0.3	<0.02	3.1	2.65	<0.1	0.06
1098265	Soil			5.0	25.3	0.39	106.6	0.002	1	1.48	0.003	0.10	<0.1	2.8	0.11	0.03	17	0.1	0.08	3.8	3.66	<0.1	0.07
1098266	Soil			4.7	26.1	0.37	123.1	0.003	1	1.76	0.003	0.11	<0.1	2.7	0.11	0.04	30	0.3	0.04	4.4	4.90	<0.1	0.06
1098267	Soil			13.0	26.3	0.37	158.1	0.003	2	1.61	0.003	0.09	<0.1	6.8	0.11	0.05	34	0.3	0.05	3.4	2.57	<0.1	0.13



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 5 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1098820	Soil	0.21	9.6	5.3	<0.05	2.9	10.84	19.5	0.04	<1	0.9	36.0	<10	<2
1098821	Soil	0.33	9.4	0.8	<0.05	2.5	10.82	16.9	0.04	<1	0.9	27.0	<10	<2
1098822	Soil	0.19	8.3	3.0	<0.05	1.9	11.50	14.6	0.05	<1	1.0	14.7	<10	<2
1098823	Soil	0.23	3.4	0.9	<0.05	0.8	10.42	17.4	0.02	<1	0.4	4.5	<10	<2
1098824	Soil	0.14	4.5	0.8	<0.05	0.7	12.44	21.3	<0.02	<1	0.4	5.8	<10	<2
1098825	Soil	0.83	10.0	1.0	<0.05	1.5	3.00	22.3	0.05	<1	0.4	23.2	<10	<2
1098826	Soil	0.27	7.3	1.6	<0.05	2.1	12.42	32.5	0.03	<1	1.3	7.8	<10	<2
1098827	Soil	0.65	9.7	0.8	<0.05	2.4	8.02	26.0	0.02	<1	1.0	15.2	<10	<2
1098828	Soil	0.29	9.1	2.1	<0.05	1.4	8.87	18.1	<0.02	<1	0.8	10.5	<10	<2
1098829	Soil	0.43	16.1	0.8	<0.05	0.4	2.54	13.3	0.03	<1	1.2	6.7	<10	<2
1098830	Soil	0.38	11.8	4.2	<0.05	0.1	1.29	7.1	0.03	<1	0.2	3.1	<10	<2
1098831	Soil	0.39	13.4	1.1	<0.05	0.6	2.64	14.8	0.02	<1	0.3	6.9	<10	<2
1098832	Soil	0.27	9.5	2.1	<0.05	1.1	3.15	15.5	0.02	<1	0.8	20.2	<10	<2
1098833	Soil	0.41	13.8	1.7	<0.05	1.3	2.24	13.7	0.03	<1	1.3	33.2	<10	<2
1098834	Soil	0.58	11.1	3.0	<0.05	1.0	4.10	20.3	0.03	<1	0.8	20.0	<10	<2
1098835	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1098836	Soil	0.16	10.6	1.5	<0.05	3.4	17.50	23.6	0.04	<1	1.3	45.0	<10	<2
1098837	Soil	0.17	12.0	1.0	<0.05	2.6	18.44	18.9	0.04	<1	1.7	54.2	<10	2
1098838	Soil	0.16	7.7	1.2	<0.05	3.3	14.04	21.1	0.04	<1	1.2	50.8	<10	<2
1098839	Soil	0.22	7.0	0.5	<0.05	2.3	21.71	28.1	0.03	<1	1.1	32.9	<10	<2
1098840	Soil	0.29	8.1	3.6	<0.05	2.8	17.74	22.9	0.05	<1	1.3	40.4	<10	<2
1098841	Soil	0.30	9.2	1.6	<0.05	2.9	19.66	20.9	0.04	<1	1.6	43.2	<10	<2
1098842	Soil	0.16	8.3	7.2	<0.05	3.4	16.60	20.2	0.03	<1	1.4	47.3	<10	<2
1098151	Soil	0.28	12.6	2.0	<0.05	0.4	4.57	18.4	0.04	<1	0.8	19.0	<10	<2
1098152	Soil	0.22	10.8	3.2	<0.05	0.4	3.11	12.7	0.03	<1	0.6	15.8	<10	<2
1098153	Soil	0.21	13.0	1.3	<0.05	0.3	2.67	11.4	0.03	<1	0.6	12.5	<10	<2
1098154	Soil	0.11	9.9	2.2	<0.05	2.0	4.41	12.0	0.06	<1	0.8	17.1	<10	<2
1098265	Soil	0.13	11.3	2.2	<0.05	2.2	7.44	13.6	0.04	<1	1.0	40.8	<10	<2
1098266	Soil	0.24	13.2	5.1	<0.05	2.6	6.67	12.0	0.05	<1	1.8	36.4	<10	<2
1098267	Soil	0.20	9.8	1.9	<0.05	3.5	26.03	35.9	0.04	<1	1.3	32.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1098268	Soil			1.02	41.55	34.63	120.2	285	41.7	14.3	291	3.76	12.5	1.4	<0.2	5.3	109.7	0.16	0.55	0.37	19	1.78	0.075
1098269	Soil			0.77	35.62	32.41	99.4	538	39.1	15.5	1197	4.04	11.3	2.2	5.0	6.4	55.4	0.34	0.56	0.38	22	0.59	0.056
1098270	Soil			1.04	22.31	26.61	102.5	405	24.1	9.8	455	3.59	9.2	1.0	2.4	0.4	8.7	0.33	0.68	0.31	37	0.07	0.079
1098388	Soil			1.12	41.90	46.26	95.0	268	40.0	21.9	961	4.17	14.4	1.6	1.8	3.9	36.2	0.10	0.56	0.39	20	0.36	0.066
1098389	Soil			1.21	44.30	62.83	109.4	223	41.2	22.7	848	3.93	13.8	1.6	2.3	3.2	40.4	0.14	0.60	0.42	17	0.66	0.077
1098390	Soil			0.86	38.90	49.38	80.6	75	28.0	21.8	598	2.91	24.6	0.9	1.1	3.3	13.9	0.04	0.50	0.40	21	0.08	0.021
1098391	Soil			1.08	21.33	38.08	71.3	134	28.1	15.2	1070	4.41	13.0	1.8	1.1	0.9	75.2	0.18	0.64	0.28	25	1.33	0.146
1098392	Soil			1.18	18.79	25.06	87.7	121	22.3	10.7	453	3.01	7.7	0.8	1.2	0.5	15.2	0.18	0.70	0.29	40	0.15	0.048
1098393	Soil			0.71	28.09	36.07	165.3	210	53.0	27.9	789	4.10	5.7	0.9	0.9	3.9	16.3	0.34	0.34	0.29	14	0.11	0.035
1098394	Soil			0.94	15.20	12.49	67.7	41	19.7	6.4	191	2.65	8.4	0.6	1.1	1.5	10.2	0.18	0.64	0.19	50	0.11	0.042
1098395	Soil			0.47	21.35	26.49	95.7	198	24.8	9.8	565	3.06	7.3	0.8	0.3	3.4	81.7	0.17	0.30	0.32	15	1.00	0.068
1098396	Soil			0.53	32.01	36.45	135.3	331	49.4	16.5	849	5.66	10.6	1.0	0.9	9.0	38.9	0.11	0.22	0.41	13	0.36	0.077
1098397	Soil			0.62	19.69	33.46	98.0	53	27.1	16.4	777	3.86	6.8	0.6	2.5	2.3	10.0	0.13	0.39	0.39	23	0.06	0.046
1098398	Soil			0.41	17.75	34.08	86.4	413	26.0	6.8	245	1.60	5.7	0.8	0.6	2.3	49.5	0.10	0.18	0.21	6	1.32	0.049
1098399	Soil			0.50	16.93	38.10	77.1	305	22.2	7.8	365	1.79	8.0	1.1	1.1	1.5	70.5	0.11	0.49	0.22	10	2.41	0.092
1098400	Soil			0.48	12.50	17.33	77.7	133	15.3	7.6	2436	2.85	14.4	1.1	0.7	0.6	28.5	0.53	1.15	0.16	23	10.82	0.170
1098751	Soil			0.12	3.15	7.52	71.8	40	4.5	1.6	711	1.14	18.9	1.2	1.2	0.2	55.5	0.12	0.77	0.03	3	18.30	0.088
1098752	Soil			0.19	7.47	8.74	16.2	50	6.3	5.9	1893	2.12	8.6	0.4	<0.2	0.4	19.2	0.10	0.30	0.09	6	9.56	0.129
1098753	Soil			0.73	24.56	20.83	32.4	70	20.1	19.3	1365	3.78	12.6	1.1	1.0	3.5	12.2	0.12	0.69	0.35	22	2.18	0.058
1098754	Soil			0.66	16.21	15.83	64.9	114	12.0	7.5	1798	2.39	8.9	1.9	0.9	0.5	37.7	0.54	0.49	0.19	19	3.36	0.191
1098755	Soil			0.56	24.30	35.52	94.6	56	26.3	15.8	466	4.10	7.2	0.6	0.5	4.9	13.7	0.06	0.25	0.46	29	0.36	0.026
1098756	Soil			0.49	17.83	18.44	65.2	208	16.4	11.4	707	3.15	7.4	0.4	<0.2	2.5	9.8	0.11	0.24	0.36	23	0.22	0.034
1098757	Soil			0.85	38.71	72.67	106.4	230	35.0	29.9	1652	5.08	9.6	0.8	1.3	5.3	12.4	0.06	0.45	0.43	33	0.28	0.040
1098758	Soil			0.78	29.65	23.48	79.2	62	25.5	15.4	428	4.25	6.2	0.5	0.5	3.3	7.0	0.07	0.24	0.43	36	0.10	0.034
1098759	Soil			0.82	29.73	29.73	83.8	94	21.7	14.9	510	5.04	7.5	0.5	0.4	3.8	8.0	0.07	0.35	0.46	38	0.06	0.045
1098760	Soil			0.79	17.81	19.49	68.8	79	20.6	10.1	327	3.88	7.7	0.4	0.7	3.7	6.3	0.06	0.40	0.32	38	0.05	0.026
1097912	Soil			1.17	46.47	69.55	102.8	358	50.1	32.7	1579	4.48	21.4	1.6	2.0	4.3	46.0	0.14	0.68	0.39	23	0.50	0.075
1097913	Soil			0.67	41.95	72.01	80.5	59	23.4	24.2	1230	2.85	12.3	0.8	2.4	2.8	11.8	0.07	0.47	0.43	25	0.07	0.045
1097914	Soil			0.96	35.97	60.54	85.0	103	22.6	20.7	812	3.06	16.0	0.9	1.3	1.4	13.0	0.08	0.54	0.41	26	0.09	0.059
1097915	Soil			0.75	26.69	34.01	82.0	83	20.2	13.5	781	5.09	8.0	0.9	0.8	0.8	8.3	0.19	0.50	0.52	30	0.12	0.116



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1098268	Soil	7.6	19.2	0.38	80.9	0.001	<1	1.10	0.006	0.09	<0.1	5.1	0.15	0.02	60	0.8	0.05	3.0	0.58	<0.1	0.12
1098269	Soil	24.8	25.3	0.35	149.3	<0.001	3	1.76	0.003	0.09	<0.1	9.6	0.13	<0.02	91	0.2	0.07	3.7	1.24	<0.1	0.14
1098270	Soil	7.1	25.5	0.35	95.3	0.005	3	1.60	0.003	0.09	<0.1	0.9	0.11	0.06	31	0.4	0.05	4.3	1.65	<0.1	<0.02
1098388	Soil	7.9	26.1	0.43	135.3	0.002	3	1.50	0.005	0.11	<0.1	5.6	0.11	0.03	53	0.4	0.13	3.6	2.98	<0.1	0.07
1098389	Soil	8.2	25.1	0.36	138.7	0.004	5	1.17	0.005	0.12	<0.1	5.9	0.12	0.05	33	0.6	0.08	2.9	3.42	<0.1	0.10
1098390	Soil	6.4	22.4	0.43	103.8	0.005	3	1.41	0.006	0.12	<0.1	4.2	0.12	<0.02	22	0.1	0.06	3.5	5.06	<0.1	0.04
1098391	Soil	9.4	21.1	0.27	146.9	0.004	3	1.33	0.004	0.06	<0.1	2.1	0.13	0.11	34	0.4	0.03	3.0	2.06	<0.1	0.03
1098392	Soil	9.3	24.0	0.31	127.5	0.009	3	1.36	0.005	0.10	0.1	1.1	0.13	0.03	22	0.4	0.03	4.0	2.24	<0.1	<0.02
1098393	Soil	8.1	13.2	0.20	157.5	0.002	3	1.08	0.004	0.08	<0.1	4.9	0.13	0.03	46	0.6	0.04	2.1	1.83	<0.1	0.02
1098394	Soil	10.8	24.8	0.36	104.6	0.013	2	1.55	0.003	0.06	0.2	2.0	0.12	<0.02	17	<0.1	<0.02	4.4	1.44	<0.1	<0.02
1098395	Soil	14.8	15.5	0.22	141.9	0.002	3	0.94	0.004	0.10	<0.1	4.9	0.12	0.05	52	0.4	<0.02	2.5	1.50	<0.1	0.05
1098396	Soil	18.1	19.9	0.32	187.7	0.003	5	1.36	0.004	0.15	<0.1	9.2	0.21	0.03	89	0.2	0.03	3.3	2.94	<0.1	0.05
1098397	Soil	8.2	21.9	0.31	115.9	0.005	4	1.51	0.003	0.17	<0.1	2.7	0.18	0.03	28	0.2	0.02	4.3	3.21	<0.1	0.03
1098398	Soil	10.6	7.1	0.07	89.8	<0.001	6	0.56	0.002	0.09	<0.1	2.3	0.11	0.05	402	0.6	0.03	1.2	0.34	<0.1	0.05
1098399	Soil	12.2	10.8	0.25	88.9	0.001	5	0.58	0.003	0.12	<0.1	2.0	0.13	0.05	447	0.5	<0.02	1.4	0.38	<0.1	0.03
1098400	Soil	9.8	16.3	5.21	93.4	0.005	3	1.27	0.008	0.05	<0.1	1.1	0.13	0.03	135	0.4	0.04	2.5	0.51	<0.1	0.03
1098751	Soil	2.2	2.7	8.58	25.9	0.001	3	0.16	0.007	0.01	<0.1	0.3	0.12	<0.02	157	0.5	<0.02	0.5	0.07	<0.1	0.03
1098752	Soil	4.5	8.7	5.02	53.1	0.002	6	0.72	0.008	0.05	<0.1	0.8	0.04	0.03	60	0.3	<0.02	1.3	0.33	<0.1	0.03
1098753	Soil	9.2	15.1	1.26	106.7	0.005	11	1.05	0.005	0.29	<0.1	8.4	0.13	0.04	70	0.3	0.06	2.5	1.48	<0.1	0.03
1098754	Soil	10.6	13.4	0.54	143.5	0.005	5	1.14	0.009	0.06	<0.1	1.2	0.10	0.21	107	0.5	0.02	2.5	0.63	<0.1	0.04
1098755	Soil	7.2	31.9	0.55	318.5	0.002	2	2.03	0.002	0.23	<0.1	3.9	0.16	0.04	18	0.1	0.02	6.8	2.24	<0.1	0.03
1098756	Soil	6.8	17.2	0.19	132.7	0.001	1	1.09	0.004	0.21	<0.1	2.3	0.10	0.02	17	0.2	0.03	4.3	0.75	<0.1	<0.02
1098757	Soil	10.2	38.1	0.47	175.1	0.003	4	2.41	0.005	0.16	<0.1	7.0	0.18	<0.02	42	0.3	0.04	7.2	4.35	<0.1	0.03
1098758	Soil	7.0	34.1	0.40	93.3	0.002	1	1.97	0.004	0.13	<0.1	3.1	0.09	<0.02	28	<0.1	0.03	7.1	2.23	<0.1	<0.02
1098759	Soil	5.6	34.8	0.32	81.8	0.002	1	2.14	0.003	0.12	<0.1	3.3	0.11	0.02	29	0.2	<0.02	8.2	2.08	<0.1	0.04
1098760	Soil	8.4	29.3	0.38	73.5	0.003	2	1.81	0.002	0.10	<0.1	2.7	0.10	<0.02	25	0.2	<0.02	5.7	1.49	<0.1	0.03
1097912	Soil	8.8	24.5	0.39	194.9	0.004	5	1.46	0.010	0.11	<0.1	7.2	0.16	0.05	64	0.5	0.09	3.6	4.28	<0.1	0.04
1097913	Soil	6.2	21.5	0.40	129.2	0.003	2	1.54	0.004	0.12	<0.1	2.9	0.14	<0.02	27	0.3	0.07	4.3	4.82	<0.1	0.03
1097914	Soil	5.7	23.4	0.38	137.9	0.004	2	1.67	0.006	0.12	<0.1	2.2	0.14	0.05	18	0.2	0.09	4.0	4.30	<0.1	0.05
1097915	Soil	5.2	30.2	0.31	94.6	0.004	2	2.02	0.002	0.10	<0.1	1.2	0.10	0.08	36	0.4	0.06	5.0	2.74	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

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 Report Date: December 16, 2011

Page: 6 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1098268	Soil	0.22	4.7	3.7	<0.05	4.4	15.62	17.8	0.06	<1	1.0	23.8	<10	<2
1098269	Soil	0.14	9.2	1.2	<0.05	4.9	52.76	46.8	0.08	2	1.9	33.8	<10	<2
1098270	Soil	0.34	10.2	1.1	<0.05	0.5	4.61	19.9	0.04	1	0.7	24.4	<10	<2
1098388	Soil	0.12	9.1	2.5	<0.05	2.4	16.59	20.6	0.06	1	1.0	42.9	<10	<2
1098389	Soil	0.17	10.9	13.6	<0.05	3.1	20.03	23.4	0.07	3	1.5	28.3	<10	<2
1098390	Soil	0.12	11.0	0.9	<0.05	2.1	6.94	15.2	0.05	2	1.2	40.1	<10	<2
1098391	Soil	0.30	11.1	2.2	<0.05	1.1	14.03	32.3	0.03	1	0.9	21.7	<10	<2
1098392	Soil	0.26	11.8	1.0	<0.05	0.1	3.83	23.1	0.04	1	0.5	20.2	<10	<2
1098393	Soil	0.15	8.0	2.0	<0.05	0.9	14.11	27.9	0.05	<1	1.6	20.9	<10	<2
1098394	Soil	0.52	10.9	0.6	<0.05	0.1	3.97	23.3	0.03	2	0.4	19.4	<10	<2
1098395	Soil	0.29	9.7	1.2	<0.05	1.8	16.42	39.0	0.05	<1	0.9	16.4	<10	<2
1098396	Soil	0.15	14.9	0.7	<0.05	2.6	32.05	63.5	0.06	1	1.4	30.7	<10	<2
1098397	Soil	0.30	17.9	1.6	<0.05	0.6	4.74	25.5	0.05	<1	1.0	34.7	<10	<2
1098398	Soil	0.10	4.6	0.4	<0.05	2.3	9.60	25.5	0.03	2	0.8	2.9	<10	<2
1098399	Soil	0.15	5.6	1.9	<0.05	1.9	12.24	29.8	0.03	1	0.7	4.6	<10	<2
1098400	Soil	0.19	5.2	0.5	<0.05	1.0	13.51	21.2	0.02	2	0.6	7.8	<10	<2
1098751	Soil	0.03	0.6	0.5	<0.05	1.0	5.58	4.8	<0.02	1	0.3	1.1	<10	<2
1098752	Soil	0.06	3.5	0.7	<0.05	0.9	6.66	11.2	<0.02	<1	0.4	2.3	<10	<2
1098753	Soil	0.34	12.8	4.8	<0.05	1.1	17.45	26.5	0.04	2	2.2	5.7	<10	<2
1098754	Soil	0.53	6.7	0.6	<0.05	1.8	12.04	22.9	0.02	<1	0.6	4.2	<10	<2
1098755	Soil	0.24	20.9	3.3	<0.05	1.1	3.90	18.8	0.04	<1	1.3	41.0	<10	<2
1098756	Soil	0.31	15.1	1.0	<0.05	0.4	2.19	14.9	0.03	<1	0.5	8.6	<10	<2
1098757	Soil	0.23	22.3	8.4	<0.05	1.1	14.16	35.2	0.07	<1	2.1	40.3	<10	<2
1098758	Soil	0.42	14.0	1.4	<0.05	0.9	3.90	16.7	0.04	<1	1.0	33.4	<10	<2
1098759	Soil	0.34	14.5	3.1	<0.05	1.4	5.16	13.7	0.06	1	0.8	32.8	<10	<2
1098760	Soil	0.46	13.1	1.4	<0.05	1.1	2.85	18.6	0.03	1	0.6	32.2	<10	<2
1097912	Soil	0.14	9.7	8.1	<0.05	1.9	20.38	25.5	0.05	<1	1.1	38.6	<10	3
1097913	Soil	0.19	12.8	0.7	<0.05	1.3	5.45	14.7	0.04	<1	1.5	37.9	<10	<2
1097914	Soil	0.23	14.2	3.4	<0.05	1.9	5.90	14.1	0.04	<1	1.1	35.4	<10	<2
1097915	Soil	0.50	12.3	0.9	<0.05	1.4	4.90	12.8	0.05	<1	1.0	29.8	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1097916	Soil	0.85	29.04	40.64	96.8	60	27.3	15.9	648	3.72	14.5	0.8	0.9	2.0	7.4	0.11	0.49	0.34	25	0.04	0.052
1097917	Soil	1.00	19.73	34.10	67.0	103	19.5	10.7	682	4.48	10.6	0.8	0.7	0.9	7.9	0.25	0.57	0.36	27	0.12	0.138
1097896	Soil	1.35	25.90	45.50	83.7	65	20.2	13.1	1152	3.51	8.0	0.7	1.4	0.9	27.6	0.15	0.65	0.31	34	0.63	0.096
1097897	Soil	0.69	37.76	39.06	104.7	199	36.3	15.1	406	3.88	12.3	1.3	1.2	3.4	74.6	0.16	0.50	0.34	19	1.15	0.063
1097898	Soil	0.59	32.63	40.54	105.5	65	22.3	12.9	534	3.72	7.6	0.5	0.6	1.3	19.6	0.20	0.41	0.39	25	0.27	0.093
1097899	Soil	0.54	50.60	46.07	114.2	200	44.2	23.2	683	3.80	14.5	0.7	1.2	4.1	47.1	0.09	0.51	0.44	22	0.91	0.033
1097900	Soil	0.64	28.10	36.27	84.6	118	25.6	13.8	910	3.69	9.0	2.6	0.7	2.5	70.8	0.24	0.48	0.32	26	1.20	0.143
1098403	Soil	0.96	24.78	18.45	111.1	108	26.6	12.3	601	3.18	18.6	1.8	3.8	2.2	84.3	0.40	0.62	0.20	42	1.08	0.074
1098404	Soil	0.67	18.46	16.78	77.5	49	22.1	8.6	357	2.73	8.3	2.4	2.4	3.4	29.2	0.19	0.36	0.20	38	0.77	0.056
1098405	Soil	0.70	28.51	14.65	99.9	109	28.3	11.9	440	3.01	17.4	1.9	4.2	2.8	60.5	0.25	0.30	0.17	42	1.45	0.067
1098406	Soil	2.51	5.24	636.0	5965	300	5.8	3.5	3013	10.07	15.4	1.9	1.4	0.1	31.0	2.93	2.94	0.04	8	9.75	0.154
1098407	Soil	1.59	1.84	230.2	1628	280	2.3	2.2	1917	2.73	11.7	2.1	1.0	0.2	30.7	1.67	1.07	<0.02	8	11.82	0.072
1098408	Soil	14.12	17.25	19.66	117.0	414	41.6	8.6	433	2.07	109.0	21.1	1.7	0.5	32.0	0.38	5.39	0.12	140	2.53	0.292
1098409	Soil	45.52	16.33	19.69	141.0	649	49.1	6.9	254	1.42	87.8	14.6	1.6	1.2	103.5	1.36	5.37	0.04	139	14.53	0.241
1098410	Soil	0.40	1.68	3.68	15.4	23	5.6	1.4	226	0.28	7.9	1.1	0.9	0.1	59.6	0.10	0.45	<0.02	18	16.18	0.031
1098411	Soil	0.58	1.32	3.04	6.2	9	11.0	2.1	220	0.36	12.4	1.0	0.3	0.2	68.0	0.04	0.79	<0.02	21	15.22	0.014
1098412	Soil	0.24	1.13	2.20	2.4	8	5.8	1.3	257	0.15	11.6	1.0	0.2	0.1	49.1	0.03	0.30	<0.02	9	19.42	0.015
1098413	Soil	3.75	18.20	11.61	45.2	91	39.3	8.4	162	1.23	23.3	3.4	1.5	0.5	91.6	0.33	1.43	0.15	31	14.71	0.083
1098414	Soil	1.31	3.75	5.80	21.8	35	12.6	3.0	256	0.42	13.2	2.3	0.5	0.1	57.8	0.21	0.50	0.02	22	16.96	0.090
1098415	Soil	1.29	5.18	5.46	21.2	30	11.8	3.4	416	0.65	16.6	1.1	0.7	0.3	66.6	0.16	0.42	0.04	17	17.26	0.047
1098416	Soil	0.70	5.15	5.17	20.9	31	8.4	2.9	245	0.63	10.0	0.7	0.7	0.3	45.0	0.13	0.28	0.04	15	16.95	0.039
1098417	Soil	1.22	14.88	10.46	58.9	46	29.2	8.3	546	1.53	18.3	2.3	0.6	2.3	48.8	0.38	0.54	0.09	27	13.59	0.086
1098418	Soil	1.13	4.78	5.40	22.5	35	9.7	3.0	295	0.53	10.0	1.1	0.7	0.1	59.6	0.19	0.28	0.04	14	16.29	0.069
1098419	Soil	0.70	4.48	4.39	25.0	28	7.8	2.9	256	0.60	11.0	1.3	0.5	0.3	60.4	0.16	0.33	0.04	17	17.95	0.055
1098420	Soil	0.74	5.92	8.22	32.7	45	9.1	3.6	270	0.78	10.1	1.2	0.9	0.3	47.9	0.24	0.34	0.06	19	15.69	0.059
1098421	Soil	0.49	3.21	5.24	17.1	22	5.1	1.9	228	0.31	8.5	1.0	0.4	0.1	48.9	0.11	0.21	0.02	9	17.05	0.037
1098422	Soil	1.98	14.92	12.59	77.2	102	25.0	6.9	405	1.69	18.1	4.2	0.8	0.5	37.2	0.42	0.73	0.14	35	9.66	0.148
1098423	Soil	0.98	22.08	11.78	78.9	100	21.3	9.4	318	2.38	8.8	1.1	4.0	3.6	121.7	0.23	0.32	0.11	29	3.76	0.067
1098424	Soil	0.58	21.36	15.04	112.1	102	20.1	7.8	224	2.29	7.2	3.3	2.1	1.3	50.1	0.28	0.33	0.14	33	1.32	0.093
1098425	Soil	0.51	10.89	16.39	63.5	78	15.5	6.4	470	1.85	2.1	1.5	1.7	1.2	56.1	0.31	0.41	0.16	18	2.28	0.150



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097916	Soil	5.8	20.0	0.28	111.2	0.004	2	1.44	0.009	0.10	<0.1	2.9	0.13	0.04	16	0.2	0.04	3.4	3.89	<0.1	0.05
1097917	Soil	6.2	25.5	0.23	81.4	0.005	2	2.07	0.004	0.08	<0.1	0.7	0.13	0.08	61	0.6	0.06	3.7	2.21	<0.1	0.06
1097896	Soil	8.4	25.2	0.42	204.1	0.005	3	1.47	0.005	0.09	<0.1	1.9	0.17	0.06	32	0.3	0.03	5.0	4.02	<0.1	<0.02
1097897	Soil	9.1	19.9	0.37	128.0	0.001	3	1.35	0.004	0.09	<0.1	5.9	0.13	0.06	31	0.4	0.11	3.4	2.08	<0.1	0.15
1097898	Soil	4.4	24.4	0.36	80.3	0.002	1	1.47	0.004	0.10	<0.1	2.3	0.07	0.06	27	0.2	0.06	4.7	2.50	<0.1	0.03
1097899	Soil	7.2	29.3	0.90	108.2	0.002	4	1.85	0.006	0.12	<0.1	6.8	0.14	<0.02	10	0.3	0.06	5.3	3.25	<0.1	0.07
1097900	Soil	10.2	21.2	0.33	146.6	0.002	3	1.33	0.005	0.08	<0.1	5.0	0.08	0.09	47	0.3	0.05	3.4	1.19	<0.1	0.04
1098403	Soil	19.0	45.6	0.63	111.0	0.005	3	0.99	0.005	0.07	<0.1	5.1	0.23	0.06	621	1.2	0.03	3.1	1.01	<0.1	0.08
1098404	Soil	20.2	35.7	0.81	87.3	0.010	4	1.37	0.003	0.09	0.1	4.8	0.18	0.04	171	0.7	0.02	4.5	3.86	<0.1	0.07
1098405	Soil	23.1	47.2	0.46	67.7	0.004	5	0.82	0.004	0.10	<0.1	4.6	0.27	0.05	2414	0.8	<0.02	3.0	1.18	<0.1	0.10
1098406	Soil	3.7	7.7	5.76	77.4	0.005	3	0.42	0.008	0.02	<0.1	0.6	7.53	0.04	372	0.8	<0.02	1.1	0.48	0.1	<0.02
1098407	Soil	2.7	5.4	7.01	24.3	0.004	1	0.29	0.005	0.01	<0.1	0.6	1.03	<0.02	1953	0.4	<0.02	0.8	0.24	<0.1	<0.02
1098408	Soil	9.1	23.4	0.53	113.9	0.004	7	0.82	0.006	0.08	<0.1	1.2	2.60	0.18	162	0.9	0.11	2.4	1.02	<0.1	0.06
1098409	Soil	8.3	16.5	7.49	31.3	0.003	5	0.32	0.008	0.09	<0.1	1.7	2.12	<0.02	65	0.9	0.06	0.9	1.09	<0.1	0.06
1098410	Soil	3.6	5.3	9.24	16.1	0.004	2	0.18	0.009	0.01	<0.1	0.4	0.13	<0.02	11	0.3	<0.02	0.3	0.18	<0.1	<0.02
1098411	Soil	2.7	5.1	8.80	14.1	0.003	<1	0.11	0.008	<0.01	<0.1	0.5	0.31	<0.02	9	0.3	<0.02	0.3	0.12	<0.1	0.02
1098412	Soil	2.2	2.1	11.22	18.3	0.002	<1	0.06	0.007	<0.01	<0.1	0.3	0.29	<0.02	10	0.4	<0.02	0.2	0.09	0.1	<0.02
1098413	Soil	6.2	11.0	4.91	92.0	0.001	4	0.44	0.011	0.06	<0.1	0.8	0.86	0.03	34	0.5	0.06	0.8	1.56	<0.1	0.04
1098414	Soil	7.1	6.4	9.44	32.6	0.003	4	0.26	0.010	0.02	<0.1	0.3	0.20	<0.02	19	0.5	<0.02	0.5	0.32	<0.1	<0.02
1098415	Soil	8.6	6.4	9.56	39.1	0.004	3	0.35	0.009	0.03	<0.1	0.7	0.36	<0.02	11	0.4	0.02	0.7	0.42	<0.1	0.03
1098416	Soil	7.4	6.4	9.58	32.4	0.007	2	0.37	0.008	0.02	<0.1	0.8	0.13	<0.02	16	0.4	<0.02	0.7	0.33	<0.1	0.02
1098417	Soil	11.8	9.0	6.93	92.0	0.009	2	0.90	0.006	0.07	<0.1	2.6	0.57	<0.02	115	0.2	0.03	1.9	0.89	<0.1	0.06
1098418	Soil	6.1	6.2	8.72	41.7	0.004	4	0.32	0.012	0.03	<0.1	0.4	0.21	<0.02	17	0.3	0.02	0.5	0.35	<0.1	0.02
1098419	Soil	6.6	6.6	10.05	32.1	0.005	3	0.37	0.010	0.02	<0.1	0.6	0.14	<0.02	13	0.4	<0.02	0.6	0.36	<0.1	0.03
1098420	Soil	7.1	8.7	8.82	42.3	0.007	3	0.44	0.010	0.03	<0.1	0.7	0.14	<0.02	13	0.5	<0.02	0.9	0.47	<0.1	0.02
1098421	Soil	5.6	4.7	9.66	20.3	0.004	3	0.20	0.009	0.02	<0.1	0.4	0.08	<0.02	16	0.4	<0.02	0.3	0.21	<0.1	<0.02
1098422	Soil	12.4	16.1	5.47	80.4	0.007	7	1.08	0.011	0.07	<0.1	1.3	0.41	0.07	60	0.4	0.02	2.0	1.24	<0.1	0.04
1098423	Soil	17.9	35.4	2.39	77.7	0.004	3	0.79	0.008	0.08	<0.1	4.8	0.16	0.03	72	1.5	<0.02	2.4	2.42	<0.1	0.06
1098424	Soil	17.4	43.1	1.54	129.4	0.007	5	1.51	0.005	0.07	<0.1	2.9	0.12	0.09	71	1.0	<0.02	4.5	1.98	<0.1	0.08
1098425	Soil	11.4	20.0	0.80	925.5	0.009	7	1.04	0.014	0.10	<0.1	3.5	0.13	0.15	78	0.6	0.04	2.7	3.18	<0.1	0.10



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

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 Report Date: December 16, 2011

Page: 7 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1097916	Soil	0.15	12.7	1.8	<0.05	1.6	4.89	14.8	0.04	<1	0.9	28.9	<10	<2
1097917	Soil	0.34	9.5	0.8	<0.05	1.5	4.78	19.3	0.04	<1	1.0	14.7	<10	<2
1097896	Soil	0.36	17.8	9.0	<0.05	0.6	6.09	20.4	0.04	<1	0.8	25.7	<10	<2
1097897	Soil	0.28	8.9	0.7	<0.05	5.0	21.46	23.8	0.04	<1	1.0	31.6	<10	<2
1097898	Soil	0.33	14.2	3.6	<0.05	1.3	5.10	14.9	0.05	<1	0.8	29.6	<10	<2
1097899	Soil	0.12	9.8	0.9	<0.05	3.9	15.51	17.8	0.04	<1	1.3	62.7	<10	<2
1097900	Soil	0.22	9.9	3.2	<0.05	1.7	19.10	52.6	0.05	<1	1.0	24.2	<10	<2
1098403	Soil	0.25	6.9	0.7	<0.05	2.5	12.57	39.9	0.05	<1	1.1	18.9	<10	<2
1098404	Soil	0.48	15.3	3.6	<0.05	2.0	11.97	41.9	0.02	<1	1.0	32.4	<10	<2
1098405	Soil	0.14	9.3	0.8	<0.05	3.1	13.99	47.6	0.02	<1	1.3	17.4	<10	<2
1098406	Soil	0.06	3.0	1.4	<0.05	0.2	4.91	6.6	<0.02	<1	0.3	2.3	<10	<2
1098407	Soil	0.04	1.6	0.5	<0.05	0.2	3.38	4.8	<0.02	<1	0.3	1.8	<10	<2
1098408	Soil	0.30	5.6	0.8	<0.05	2.0	10.59	19.0	<0.02	<1	0.7	7.0	<10	<2
1098409	Soil	0.05	4.5	4.6	<0.05	2.0	10.54	17.4	<0.02	4	0.4	3.4	15	<2
1098410	Soil	0.04	1.3	1.1	<0.05	0.5	5.98	4.8	<0.02	<1	0.1	1.5	<10	<2
1098411	Soil	0.08	0.6	1.1	<0.05	0.6	4.36	3.8	<0.02	<1	<0.1	1.3	<10	<2
1098412	Soil	0.02	0.5	0.5	<0.05	0.3	5.51	2.5	<0.02	<1	<0.1	1.0	<10	<2
1098413	Soil	0.07	3.7	1.6	<0.05	0.8	7.39	14.2	0.03	1	0.3	2.9	<10	<2
1098414	Soil	0.06	1.8	2.3	<0.05	0.4	9.79	8.6	<0.02	4	0.2	2.0	<10	<2
1098415	Soil	0.09	2.4	1.2	<0.05	0.9	9.94	11.3	<0.02	1	0.2	3.1	<10	<2
1098416	Soil	0.12	2.1	1.3	<0.05	0.9	10.29	9.2	<0.02	1	0.2	3.1	<10	<2
1098417	Soil	0.27	4.6	1.1	<0.05	3.5	13.65	23.7	0.02	<1	0.5	7.9	<10	<2
1098418	Soil	0.08	2.1	1.7	<0.05	0.6	7.13	7.9	<0.02	1	0.2	2.3	<10	<2
1098419	Soil	0.07	2.4	0.6	<0.05	0.8	8.41	8.6	<0.02	<1	0.2	2.9	<10	<2
1098420	Soil	0.12	2.7	2.7	<0.05	0.6	8.04	10.0	<0.02	1	0.2	3.6	<10	<2
1098421	Soil	0.05	1.6	1.9	<0.05	0.4	6.24	6.4	<0.02	1	0.2	1.5	<10	<2
1098422	Soil	0.34	6.3	1.3	<0.05	1.4	13.64	18.9	<0.02	3	0.8	8.2	<10	<2
1098423	Soil	0.13	7.9	0.9	<0.05	2.8	12.62	36.5	0.02	<1	0.9	15.9	<10	<2
1098424	Soil	0.29	9.6	1.0	<0.05	2.6	11.35	31.6	0.02	<1	1.1	38.9	<10	<2
1098425	Soil	0.36	10.3	2.0	<0.05	2.7	14.55	21.3	<0.02	2	1.2	15.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

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 Report Date: December 16, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1098426	Soil			0.40	25.12	19.39	73.0	114	17.4	7.6	341	2.07	4.1	2.1	3.7	1.3	48.8	0.29	0.29	0.18	22	1.74	0.113
1098427	Soil			0.50	29.96	23.23	117.8	111	25.8	10.4	383	2.58	5.7	2.7	3.4	3.2	57.4	0.22	0.33	0.18	26	1.37	0.078
1098428	Soil			0.31	34.91	18.38	95.5	68	35.2	12.8	244	2.82	4.0	3.8	3.4	4.0	55.6	0.11	0.21	0.24	23	1.20	0.070
1098429	Soil			0.97	35.66	20.43	97.6	101	38.7	14.8	463	3.01	5.7	2.9	2.0	4.7	46.5	0.21	0.43	0.28	22	1.03	0.112
1098430	Soil			0.38	30.82	19.73	94.9	89	34.8	11.5	387	2.59	3.7	3.1	2.0	3.8	42.0	0.18	0.26	0.25	21	1.05	0.068
1096701	Soil			1.67	18.16	18.34	97.6	112	36.2	12.4	504	3.53	12.8	1.3	2.7	2.9	32.6	0.21	0.67	0.21	43	0.60	0.088
1096702	Soil			1.92	14.26	18.01	108.6	49	33.0	10.9	411	3.51	13.6	1.4	0.6	2.9	29.3	0.28	0.50	0.24	51	0.64	0.061
1096703	Soil			1.57	17.44	22.83	102.7	38	33.2	11.5	470	3.27	13.8	1.1	1.3	3.2	17.3	0.16	0.74	0.23	47	0.35	0.076
1096704	Soil			1.76	17.14	19.81	148.8	148	27.9	10.3	324	3.12	11.6	3.6	0.8	1.8	35.9	0.26	0.53	0.23	40	0.84	0.126
1096705	Soil			3.08	19.12	17.72	91.2	113	33.2	13.4	543	3.30	14.9	5.2	0.8	3.1	38.4	0.25	0.53	0.19	37	2.72	0.171
1096706	Soil			1.87	14.97	16.83	83.5	174	21.1	9.4	360	2.86	11.9	3.5	0.9	1.4	31.1	0.21	0.39	0.22	41	1.32	0.215
1096707	Soil			2.56	16.72	17.22	81.6	96	27.2	12.0	411	2.99	12.7	1.5	0.9	1.9	23.2	0.17	0.53	0.20	36	0.72	0.092
1096708	Soil			2.80	17.38	19.12	105.4	148	30.8	12.3	283	3.23	11.4	2.6	0.5	2.8	37.0	0.25	0.41	0.22	26	0.85	0.087
1096709	Soil			4.12	14.23	13.00	64.6	81	22.0	8.5	266	1.85	14.7	5.0	1.3	2.3	148.7	0.21	0.67	0.16	24	11.13	0.132
1096710	Soil			2.74	17.95	16.49	74.6	110	28.0	11.5	299	2.50	8.8	1.8	0.8	2.2	105.9	0.18	0.39	0.20	19	3.32	0.087
1096711	Soil			1.05	15.63	15.63	74.2	107	20.0	8.4	165	1.92	4.5	0.7	0.5	2.0	26.9	0.14	0.31	0.22	16	0.63	0.054
1096712	Soil			2.73	17.85	15.74	73.7	102	28.0	12.4	330	2.51	8.1	1.7	1.2	2.4	252.5	0.17	0.36	0.18	17	6.93	0.080
1096713	Soil			0.91	12.19	14.76	52.9	113	15.9	7.2	161	1.90	5.6	0.6	0.7	2.3	19.7	0.06	0.26	0.20	18	0.61	0.039
1096714	Soil			1.18	17.42	17.59	78.7	133	21.9	8.9	303	2.23	7.5	1.0	0.6	1.5	27.0	0.16	0.39	0.21	24	0.84	0.065
1098685	Soil			1.93	17.33	23.03	342.0	82	25.3	9.8	320	2.50	10.3	1.3	0.8	2.3	52.5	0.32	0.54	0.16	24	4.58	0.080
1098686	Soil			0.96	18.96	19.57	110.5	141	19.0	7.6	251	2.02	8.2	1.1	1.0	1.3	42.3	0.22	0.43	0.19	20	3.55	0.074
1098687	Soil			0.87	27.76	15.33	101.7	120	23.7	8.3	200	2.32	8.0	3.0	3.1	1.4	58.7	0.22	0.43	0.18	23	1.95	0.072
1098688	Soil			0.79	32.98	19.69	93.1	88	26.1	10.2	276	2.39	9.7	1.3	2.2	3.5	48.2	0.22	0.42	0.20	23	2.53	0.067
1098689	Soil			0.75	33.50	15.54	97.0	86	29.2	11.1	261	2.65	8.3	1.1	2.9	3.9	53.2	0.18	0.35	0.23	24	2.35	0.066
1098690	Soil			0.63	42.42	13.97	91.3	56	28.7	10.2	209	2.50	3.6	1.5	1.9	3.6	37.0	0.13	0.31	0.23	18	1.29	0.055
1098691	Soil			0.69	28.60	21.22	133.2	98	28.7	11.1	232	2.53	6.2	1.1	2.0	4.5	67.7	0.25	0.67	0.20	20	3.79	0.070
1098692	Soil			0.38	32.30	16.22	75.5	70	23.4	9.4	325	2.00	4.6	4.4	1.3	1.6	100.3	0.16	0.25	0.22	18	2.53	0.070
1098693	Soil			0.42	32.39	23.24	85.1	103	27.2	9.6	267	2.39	6.4	5.7	0.7	1.5	101.5	0.21	0.44	0.34	18	2.62	0.056
1098694	Soil			0.21	32.57	22.15	119.7	109	44.6	12.6	249	2.83	3.6	2.4	1.9	4.8	61.8	0.12	0.29	0.33	18	1.51	0.051
1098695	Soil			0.63	41.33	19.76	145.5	128	30.6	11.0	444	2.15	4.9	18.0	2.7	1.8	102.6	0.26	0.55	0.29	14	2.29	0.069



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1098426	Soil	11.6	29.6	1.19	861.6	0.005	6	1.43	0.007	0.08	<0.1	3.4	0.10	0.10	109	0.9	0.03	3.6	1.74	<0.1	0.10
1098427	Soil	18.9	40.0	1.34	278.5	0.008	6	1.52	0.006	0.12	<0.1	5.7	0.14	0.07	68	1.4	<0.02	4.4	3.09	0.1	0.12
1098428	Soil	19.6	49.9	1.79	180.5	0.005	5	2.07	0.005	0.11	<0.1	5.2	0.11	0.05	56	0.4	0.02	5.9	2.65	<0.1	0.16
1098429	Soil	13.0	34.2	1.16	157.3	0.004	4	1.65	0.004	0.10	<0.1	4.6	0.12	0.04	86	0.6	0.03	4.6	2.11	<0.1	0.11
1098430	Soil	14.5	35.6	1.21	186.2	0.004	5	1.73	0.003	0.09	<0.1	4.5	0.10	0.05	90	0.8	<0.02	4.7	1.98	<0.1	0.10
1096701	Soil	21.6	31.2	0.47	198.4	0.006	5	1.77	0.004	0.13	0.1	4.2	0.26	0.03	47	0.2	0.03	4.4	1.81	<0.1	0.07
1096702	Soil	14.3	30.3	0.41	198.7	0.005	5	1.92	0.002	0.17	<0.1	3.6	0.33	0.03	35	0.2	0.04	5.1	2.03	<0.1	0.08
1096703	Soil	13.8	31.1	0.49	180.4	0.009	3	1.91	0.003	0.10	0.1	3.4	0.28	0.02	48	0.1	0.03	5.4	2.05	<0.1	0.05
1096704	Soil	14.2	28.8	0.50	191.4	0.007	6	1.58	0.004	0.14	<0.1	3.1	0.23	0.07	41	0.4	0.03	4.0	1.48	<0.1	0.10
1096705	Soil	21.5	24.5	1.22	148.2	0.003	8	1.39	0.003	0.21	<0.1	4.4	0.25	0.05	36	0.2	0.02	3.3	1.43	<0.1	0.09
1096706	Soil	12.8	25.8	0.38	267.8	0.004	5	1.74	0.003	0.13	<0.1	2.6	0.29	0.13	56	0.5	0.02	4.6	1.50	<0.1	0.15
1096707	Soil	11.4	24.3	0.39	215.7	0.004	5	1.49	0.002	0.14	<0.1	2.8	0.22	0.06	32	0.3	0.02	4.1	1.31	<0.1	0.09
1096708	Soil	16.6	20.2	0.27	183.9	0.002	9	1.14	0.002	0.23	<0.1	3.9	0.25	0.05	31	0.4	<0.02	3.1	1.53	<0.1	0.12
1096709	Soil	10.5	11.8	3.78	75.7	0.003	7	0.48	0.007	0.15	<0.1	2.7	0.26	0.03	23	0.2	<0.02	1.4	1.27	<0.1	0.05
1096710	Soil	13.9	14.2	0.88	111.2	0.003	8	0.68	0.004	0.18	<0.1	3.3	0.22	0.06	23	0.3	0.03	1.9	1.44	<0.1	0.08
1096711	Soil	13.7	13.7	0.27	103.6	0.003	5	0.68	0.003	0.13	<0.1	2.4	0.13	0.06	27	0.2	0.02	2.1	1.38	<0.1	0.08
1096712	Soil	13.3	13.8	0.79	118.8	0.003	9	0.69	0.004	0.19	<0.1	3.5	0.23	0.05	27	0.3	<0.02	1.8	1.47	<0.1	0.07
1096713	Soil	12.6	15.5	0.25	131.8	0.003	5	0.81	0.002	0.12	<0.1	2.6	0.13	0.04	18	0.2	<0.02	2.5	1.33	<0.1	0.09
1096714	Soil	15.2	18.4	0.28	159.3	0.003	4	1.00	0.003	0.11	<0.1	2.3	0.14	0.07	34	0.3	0.04	2.9	1.24	<0.1	0.08
1098685	Soil	12.3	16.6	2.14	72.3	0.007	7	0.83	0.006	0.15	<0.1	3.5	0.25	0.04	54	0.1	<0.02	2.0	1.42	<0.1	0.07
1098686	Soil	10.0	16.4	1.52	96.8	0.003	7	0.75	0.005	0.12	<0.1	2.4	0.17	0.06	89	0.3	0.03	2.2	1.88	<0.1	0.09
1098687	Soil	15.0	23.5	0.51	110.7	0.003	8	0.78	0.004	0.13	<0.1	3.5	0.21	0.08	94	1.2	0.04	2.6	3.39	<0.1	0.09
1098688	Soil	19.1	33.6	1.98	118.2	0.006	4	1.09	0.006	0.10	<0.1	5.3	0.14	0.04	58	0.7	0.03	3.5	5.02	<0.1	0.09
1098689	Soil	19.8	36.4	1.80	158.5	0.005	4	1.16	0.005	0.11	<0.1	6.2	0.15	0.03	47	0.6	<0.02	3.8	4.86	<0.1	0.11
1098690	Soil	19.1	31.6	0.88	331.9	0.004	5	1.02	0.003	0.10	<0.1	6.3	0.14	0.05	32	0.5	0.02	3.1	3.17	<0.1	0.14
1098691	Soil	15.8	26.0	2.02	245.5	0.007	5	1.12	0.005	0.11	<0.1	5.0	0.14	<0.02	62	0.2	<0.02	3.3	2.34	<0.1	0.09
1098692	Soil	15.7	33.5	1.21	283.8	0.004	5	1.38	0.004	0.07	<0.1	3.5	0.08	0.08	53	0.7	<0.02	4.2	1.30	<0.1	0.09
1098693	Soil	15.8	27.8	0.74	236.1	0.004	3	1.27	0.004	0.05	<0.1	3.0	0.06	0.07	57	0.3	0.02	4.0	0.88	<0.1	0.08
1098694	Soil	19.7	45.1	1.38	100.9	0.004	4	1.88	0.002	0.08	<0.1	6.2	0.08	0.05	42	0.1	<0.02	6.1	3.17	<0.1	0.20
1098695	Soil	10.5	29.4	0.79	138.0	0.003	5	1.18	0.004	0.06	<0.1	3.5	0.09	0.12	74	0.9	<0.02	3.6	1.79	<0.1	0.10



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 3L6 Canada

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 Report Date: December 16, 2011

Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1098426	Soil	0.34	7.6	2.6	<0.05	3.8	15.40	22.1	0.02	<1	1.1	27.0	<10	<2
1098427	Soil	0.31	13.1	1.7	<0.05	3.9	13.64	37.6	0.03	<1	0.9	35.0	<10	<2
1098428	Soil	0.27	10.7	0.9	<0.05	6.2	14.77	38.9	0.03	<1	1.1	47.8	<10	<2
1098429	Soil	0.19	7.4	0.7	<0.05	4.3	15.25	30.9	0.03	<1	1.2	46.4	<10	<2
1098430	Soil	0.28	8.2	1.3	<0.05	4.3	13.91	32.1	0.03	1	1.0	46.6	<10	<2
1096701	Soil	0.38	14.2	0.8	<0.05	2.8	13.80	47.3	0.03	<1	1.4	17.3	<10	<2
1096702	Soil	0.44	19.3	1.2	<0.05	2.9	8.56	39.8	0.05	<1	0.9	16.3	<10	<2
1096703	Soil	0.43	13.8	0.7	<0.05	2.3	6.86	41.3	0.02	<1	0.9	19.1	<10	<2
1096704	Soil	0.52	18.3	0.6	<0.05	3.3	11.92	26.2	0.03	1	1.0	18.4	<10	<2
1096705	Soil	0.31	14.4	0.6	<0.05	3.5	17.11	43.8	0.04	2	1.2	11.2	<10	<2
1096706	Soil	0.50	14.9	0.9	<0.05	3.7	11.91	28.0	0.04	<1	1.1	12.3	<10	<2
1096707	Soil	0.41	13.5	0.9	<0.05	2.9	7.81	31.5	0.03	<1	1.1	12.8	<10	<2
1096708	Soil	0.32	17.0	0.9	<0.05	4.3	12.78	36.4	0.04	<1	1.0	9.3	<10	<2
1096709	Soil	0.17	9.7	0.5	<0.05	2.5	11.80	24.2	0.03	2	0.6	5.1	<10	<2
1096710	Soil	0.35	12.5	0.7	<0.05	3.7	12.30	31.8	0.03	<1	1.0	6.5	<10	<2
1096711	Soil	0.25	11.6	0.5	<0.05	2.9	9.85	29.1	0.02	<1	0.8	7.6	<10	<2
1096712	Soil	0.29	12.2	0.7	<0.05	3.5	12.14	31.7	0.02	2	0.9	5.6	<10	<2
1096713	Soil	0.27	11.9	0.6	<0.05	3.0	7.64	28.4	0.03	<1	0.8	9.3	<10	<2
1096714	Soil	0.35	10.9	0.7	<0.05	3.1	13.10	32.9	0.02	<1	0.9	9.9	<10	<2
1098685	Soil	0.42	11.1	0.5	<0.05	3.3	10.72	28.0	0.02	<1	0.7	8.6	<10	<2
1098686	Soil	0.33	9.4	1.0	<0.05	2.5	10.56	20.1	0.02	2	0.7	9.1	<10	<2
1098687	Soil	0.37	11.9	0.6	<0.05	3.5	13.86	26.2	0.04	<1	1.1	11.7	<10	<2
1098688	Soil	0.26	9.6	1.1	<0.05	3.6	15.27	39.1	0.03	<1	1.0	22.6	<10	<2
1098689	Soil	0.26	9.9	0.8	<0.05	4.1	17.18	38.6	0.04	1	1.0	22.3	<10	<2
1098690	Soil	0.34	9.4	1.2	<0.05	5.2	20.66	37.3	<0.02	<1	1.0	18.7	13	2
1098691	Soil	0.25	8.4	0.5	<0.05	3.8	14.02	32.8	0.03	<1	0.9	21.2	<10	<2
1098692	Soil	0.32	6.8	0.8	<0.05	3.7	14.42	34.2	0.02	<1	0.9	29.8	<10	<2
1098693	Soil	0.37	6.1	0.5	<0.05	2.4	13.11	28.7	0.03	<1	0.9	25.6	<10	<2
1098694	Soil	0.32	7.6	0.7	<0.05	7.8	21.75	39.1	0.03	<1	1.2	53.2	<10	<2
1098695	Soil	0.30	6.1	0.6	<0.05	5.0	15.87	20.9	0.03	<1	1.1	28.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

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 Report Date: December 16, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1098696	Soil			1.82	7.33	7.01	30.4	16	16.4	4.2	86	0.86	12.6	3.6	0.4	1.2	96.5	0.25	0.43	0.07	11	23.33	0.043
1098697	Soil			1.28	7.05	5.40	41.9	27	18.1	3.2	93	0.66	13.1	3.3	0.6	1.1	89.0	0.31	0.35	0.06	15	20.64	0.066
1098698	Soil			3.35	12.88	12.34	92.3	68	35.2	7.0	269	1.39	27.3	3.5	0.4	1.7	85.4	0.52	0.66	0.09	27	18.43	0.083
1098699	Soil			1.66	17.24	23.76	98.5	54	31.5	12.9	507	3.36	13.8	1.2	1.5	1.8	22.5	0.12	0.74	0.24	47	0.39	0.057
1098700	Soil			1.61	20.24	22.81	103.7	138	36.9	13.5	614	3.45	12.4	1.5	0.9	4.3	45.3	0.25	0.53	0.21	37	1.32	0.095
1098843	Soil			0.93	20.66	19.10	72.8	128	15.2	8.1	214	3.27	12.1	0.6	0.9	1.6	14.7	0.35	0.69	0.29	33	0.15	0.068
1098844	Soil			2.61	28.14	40.08	136.2	1196	34.1	12.6	468	2.90	25.2	4.9	1.8	3.5	46.4	0.22	0.92	0.28	25	1.24	0.164
1098845	Soil			2.98	17.29	19.26	58.5	251	19.2	9.5	264	2.17	34.8	2.9	1.3	1.5	80.3	0.16	0.69	0.12	27	7.86	0.134
1098846	Soil			2.79	15.25	33.24	155.5	174	24.2	14.0	498	3.16	27.4	2.7	0.7	2.0	40.2	0.27	0.68	0.20	38	1.53	0.092
1098847	Soil			2.04	8.84	17.37	62.7	116	15.3	7.4	471	1.93	16.5	2.5	0.7	1.0	50.8	0.29	0.50	0.15	37	7.49	0.092
1098848	Soil			2.96	14.40	24.34	83.7	134	25.4	8.0	462	2.56	21.7	4.1	0.8	0.6	30.0	0.55	0.88	0.22	68	3.22	0.123
1098849	Soil			2.00	11.03	12.39	100.4	114	15.6	6.3	469	1.87	10.6	3.6	0.6	0.4	43.5	0.78	0.48	0.15	41	5.22	0.145
1098850	Soil			11.04	25.17	35.16	137.4	191	40.6	13.8	432	3.60	35.6	3.8	1.1	2.3	38.8	0.27	1.49	0.15	34	3.85	0.140
1098851	Soil			6.91	13.32	23.59	83.8	185	26.8	10.8	561	2.88	29.3	6.8	0.4	1.0	32.3	0.37	1.04	0.17	61	2.36	0.138
1098852	Soil			5.94	10.86	14.72	62.9	110	23.7	8.6	378	2.13	20.6	5.4	0.3	1.6	69.2	0.25	0.89	0.11	47	8.30	0.149
1098853	Soil			4.51	16.00	15.93	91.7	87	28.9	11.5	437	2.74	14.4	2.5	0.7	1.3	79.9	0.36	0.61	0.14	36	2.95	0.103
1098854	Soil			13.93	20.36	26.35	92.6	132	30.5	13.8	478	3.56	31.0	3.0	0.7	1.6	39.1	0.24	0.81	0.15	28	1.91	0.119
1098855	Soil			3.54	12.15	15.64	74.9	120	23.5	8.9	487	2.23	17.6	7.5	0.5	0.7	53.0	0.35	0.69	0.13	50	7.51	0.214
1098856	Soil			1.99	15.36	14.79	67.1	75	25.1	9.6	220	2.90	7.1	2.0	0.4	1.3	87.1	0.12	0.30	0.15	26	2.07	0.097
1098857	Soil			2.77	17.37	18.73	96.7	83	30.4	13.6	481	3.42	9.2	1.6	0.8	1.5	103.5	0.28	0.35	0.20	24	1.78	0.101
1098858	Soil			1.84	17.64	17.40	91.2	59	31.0	11.8	533	2.98	6.3	0.7	0.2	1.1	190.9	0.38	0.24	0.15	16	3.26	0.105
1098859	Soil			4.02	18.95	28.01	93.5	127	27.3	18.4	651	3.29	20.5	5.5	0.5	2.7	60.5	0.18	0.69	0.21	40	1.35	0.181
1098860	Soil			2.10	12.36	12.71	60.2	98	23.0	6.1	438	1.41	22.1	4.7	0.4	0.6	51.3	0.34	0.76	0.12	39	9.10	0.145
1098861	Soil			2.50	26.80	17.49	94.2	95	37.7	10.6	594	2.25	28.6	4.5	0.6	1.1	36.3	0.56	1.00	0.23	43	5.47	0.154
1098862	Soil			1.15	9.20	7.70	44.0	67	13.6	4.1	211	0.95	11.7	2.7	0.5	0.7	54.6	0.29	0.48	0.09	23	10.37	0.089
1098863	Soil			0.85	10.74	7.68	60.1	33	21.9	3.7	251	0.82	16.5	2.4	0.3	1.6	62.4	0.36	0.45	0.08	19	14.22	0.066
1098864	Soil			0.78	9.88	9.04	56.0	25	20.8	3.5	264	0.75	15.9	2.0	<0.2	1.8	64.4	0.38	0.39	0.07	16	15.50	0.053
1098865	Soil			0.72	8.76	7.66	51.0	25	18.7	3.1	266	0.67	14.7	2.2	<0.2	1.5	66.9	0.33	0.42	0.06	15	15.86	0.056
1098866	Soil			1.19	11.42	16.28	81.1	43	29.6	3.8	213	0.90	17.7	6.8	0.6	1.7	82.5	0.46	0.46	0.09	26	14.54	0.148
1098867	Soil			1.31	22.94	61.09	179.6	169	25.6	11.8	536	2.88	12.9	2.4	0.8	5.6	57.4	0.94	0.90	0.19	29	0.87	0.040



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15					
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf				
			ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm					
			0.5	0.5	0.01	0.5	0.001			1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.1	0.02
1098696	Soil		4.6	6.1	5.06	119.8	0.002	2	0.21	0.006	0.07	<0.1	1.2	0.33	<0.02	15	0.2	<0.02	0.6	0.78	<0.1	<0.02				
1098697	Soil		7.7	6.0	9.43	72.2	0.004	3	0.34	0.008	0.04	<0.1	1.2	0.29	<0.02	28	0.2	<0.02	0.7	0.76	<0.1	0.03				
1098698	Soil		10.0	8.8	7.54	73.6	0.003	4	0.43	0.007	0.06	<0.1	2.4	0.45	<0.02	47	0.4	0.06	1.2	1.32	<0.1	0.05				
1098699	Soil		17.5	32.6	0.52	173.6	0.009	3	2.03	0.003	0.11	0.1	3.2	0.28	0.02	31	0.3	0.05	5.5	2.15	<0.1	0.05				
1098700	Soil		28.0	29.4	0.62	170.8	0.008	8	1.47	0.005	0.18	<0.1	5.8	0.29	0.03	52	0.2	0.03	4.1	1.95	<0.1	0.09				
1098843	Soil		6.7	15.3	0.15	60.7	0.005	2	0.80	0.003	0.11	<0.1	1.8	0.20	0.04	37	0.2	0.05	4.2	7.95	<0.1	<0.02				
1098844	Soil		15.4	21.5	0.40	122.8	0.006	7	1.00	0.005	0.16	<0.1	6.1	0.34	0.08	434	0.2	0.06	2.7	10.97	<0.1	0.09				
1098845	Soil		9.4	12.6	3.68	91.7	0.002	8	0.49	0.005	0.11	<0.1	3.5	0.50	0.05	82	0.5	0.05	1.5	2.74	<0.1	0.06				
1098846	Soil		16.7	20.3	0.39	249.6	0.002	8	0.98	0.003	0.17	<0.1	4.6	0.36	0.06	47	0.4	0.04	3.0	1.29	<0.1	0.07				
1098847	Soil		11.3	17.4	3.87	102.3	0.006	3	1.03	0.006	0.07	0.1	2.3	0.21	0.03	45	0.2	<0.02	2.5	0.95	<0.1	0.04				
1098848	Soil		17.8	23.6	1.17	93.4	0.005	3	1.28	0.005	0.07	<0.1	1.8	0.33	0.10	64	0.4	0.10	3.3	1.03	<0.1	0.02				
1098849	Soil		11.3	18.3	2.02	127.4	0.006	6	1.00	0.005	0.08	<0.1	1.3	0.20	0.13	61	0.3	<0.02	2.6	0.77	<0.1	0.03				
1098850	Soil		15.9	17.7	1.74	62.8	0.002	9	0.56	0.003	0.12	<0.1	6.1	0.62	0.08	101	0.5	0.03	1.6	1.47	<0.1	0.04				
1098851	Soil		15.7	22.6	0.81	124.9	0.003	6	1.11	0.002	0.11	<0.1	2.8	0.50	0.11	69	0.2	0.03	3.2	1.03	<0.1	0.07				
1098852	Soil		13.0	18.3	4.37	103.3	0.004	8	0.91	0.006	0.14	<0.1	3.2	0.36	0.03	31	0.2	0.05	2.2	1.08	<0.1	0.06				
1098853	Soil		18.9	21.3	0.99	132.1	0.003	9	0.76	0.003	0.21	<0.1	3.4	0.32	0.08	26	0.2	0.03	2.5	1.33	<0.1	0.04				
1098854	Soil		17.0	16.2	0.43	130.7	0.002	9	0.59	0.003	0.15	<0.1	4.8	0.38	0.12	75	0.4	0.03	1.7	1.07	<0.1	0.07				
1098855	Soil		14.2	20.2	3.82	90.7	0.004	7	0.97	0.004	0.14	<0.1	2.2	0.31	0.06	45	0.2	0.03	2.4	0.94	<0.1	0.04				
1098856	Soil		19.6	20.1	0.36	161.3	0.002	10	0.92	0.002	0.18	<0.1	3.9	0.24	0.09	53	0.3	0.02	2.8	1.05	<0.1	0.07				
1098857	Soil		22.6	19.1	0.23	276.4	0.002	9	0.80	0.004	0.17	<0.1	3.4	0.19	0.08	40	0.6	0.07	2.1	0.54	<0.1	0.07				
1098858	Soil		26.2	19.0	0.15	123.4	0.002	9	0.66	0.005	0.13	<0.1	2.5	0.19	0.12	53	0.6	0.07	1.8	0.79	<0.1	0.08				
1098859	Soil		16.6	21.1	0.30	342.7	0.004	8	1.19	0.003	0.16	<0.1	4.4	0.27	0.08	51	0.8	0.08	3.8	1.09	<0.1	0.11				
1098860	Soil		14.0	14.3	6.30	88.7	0.006	4	0.80	0.009	0.05	<0.1	1.0	0.56	0.08	41	0.7	0.07	1.6	0.81	<0.1	0.04				
1098861	Soil		21.2	18.1	2.74	113.7	0.006	5	1.34	0.007	0.10	<0.1	2.0	0.73	0.13	72	0.8	0.09	3.4	1.60	<0.1	0.16				
1098862	Soil		8.7	9.6	7.64	46.2	0.007	3	0.41	0.009	0.04	<0.1	1.1	0.18	0.05	26	0.4	0.06	1.0	0.56	<0.1	0.05				
1098863	Soil		12.2	6.1	9.32	133.6	0.006	2	0.49	0.009	0.05	<0.1	1.8	0.35	0.03	52	0.4	0.05	1.0	0.93	<0.1	0.05				
1098864	Soil		11.3	5.6	8.61	189.4	0.006	1	0.47	0.008	0.05	<0.1	1.7	0.32	0.04	46	0.2	0.05	1.0	0.94	<0.1	0.10				
1098865	Soil		10.5	5.6	9.01	258.2	0.005	2	0.41	0.008	0.04	<0.1	1.5	0.30	0.04	41	0.2	0.04	0.9	0.77	<0.1	0.06				
1098866	Soil		12.9	8.7	8.66	98.4	0.008	3	0.82	0.011	0.06	<0.1	1.8	0.40	0.04	57	0.2	0.05	1.2	1.25	<0.1	0.05				
1098867	Soil		21.3	38.3	0.91	97.6	0.004	4	1.19	0.004	0.09	<0.1	6.0	0.16	0.04	146	1.3	0.05	3.6	1.11	<0.1	0.09				



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 3L6 Canada

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 Report Date: December 16, 2011

Page: 9 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1098696	Soil			0.12	3.3	1.1	<0.05	1.6	5.87	9.8	<0.02	<1	0.3	1.5	<10	<2
1098697	Soil			0.13	3.1	0.2	<0.05	2.0	10.53	11.9	<0.02	2	0.3	2.8	<10	<2
1098698	Soil			0.17	4.5	0.7	<0.05	2.5	13.45	19.7	<0.02	2	0.5	3.8	<10	<2
1098699	Soil			0.45	14.0	0.7	<0.05	1.2	9.16	52.5	0.05	<1	1.1	16.5	<10	<2
1098700	Soil			0.47	16.3	1.0	<0.05	3.6	17.62	55.7	0.04	<1	1.3	13.1	<10	<2
1098843	Soil			0.43	18.3	1.0	<0.05	0.4	2.72	16.0	0.03	<1	0.5	3.2	<10	<2
1098844	Soil			0.35	19.7	2.2	<0.05	3.2	44.49	31.3	0.03	<1	0.9	11.8	<10	<2
1098845	Soil			0.22	8.7	0.3	<0.05	2.1	11.85	21.0	<0.02	<1	0.5	4.6	<10	<2
1098846	Soil			0.40	11.7	0.8	<0.05	2.0	15.09	38.2	0.04	<1	1.0	7.2	<10	<2
1098847	Soil			0.43	7.2	0.9	<0.05	1.1	9.90	25.0	0.03	<1	0.6	7.7	<10	<2
1098848	Soil			0.54	8.5	0.9	<0.05	0.9	16.58	30.0	0.03	1	0.6	8.9	<10	<2
1098849	Soil			0.53	7.3	0.5	<0.05	1.1	10.75	22.0	0.03	<1	0.6	7.4	<10	<2
1098850	Soil			0.19	7.7	0.7	<0.05	1.5	14.03	35.8	0.03	2	0.8	2.8	<10	<2
1098851	Soil			0.41	9.8	0.6	<0.05	1.8	14.69	34.5	0.04	1	1.0	6.6	<10	<2
1098852	Soil			0.26	11.4	0.8	<0.05	1.9	12.58	29.2	0.02	<1	0.7	5.2	<10	<2
1098853	Soil			0.36	13.8	0.7	<0.05	2.4	13.25	43.6	0.03	<1	1.1	5.3	<10	<2
1098854	Soil			0.30	9.2	0.6	<0.05	2.0	14.86	38.7	0.04	2	0.7	3.2	<10	<2
1098855	Soil			0.32	10.4	0.4	<0.05	1.2	14.76	29.7	<0.02	<1	0.7	5.6	<10	<2
1098856	Soil			0.44	13.0	0.6	<0.05	2.4	15.22	35.6	0.04	2	1.5	6.3	<10	<2
1098857	Soil			0.30	10.3	0.8	<0.05	2.8	16.29	46.9	0.04	2	1.3	5.5	<10	<2
1098858	Soil			0.30	10.4	1.7	<0.05	2.8	14.18	50.4	0.03	<1	1.3	4.9	<10	<2
1098859	Soil			0.43	14.1	0.9	<0.05	2.7	13.49	39.2	0.03	<1	1.3	7.6	<10	<2
1098860	Soil			0.21	5.4	0.3	<0.05	1.5	16.61	20.8	<0.02	<1	0.5	4.9	<10	<2
1098861	Soil			0.71	9.1	0.6	<0.05	5.1	22.93	35.3	0.03	<1	1.1	8.6	<10	<2
1098862	Soil			0.17	3.0	0.3	<0.05	1.3	9.28	13.3	<0.02	1	0.3	3.6	<10	<2
1098863	Soil			0.29	3.8	0.5	<0.05	3.1	13.60	17.6	<0.02	2	0.5	4.7	<10	<2
1098864	Soil			0.16	3.6	1.6	<0.05	5.4	13.03	16.0	<0.02	<1	0.4	4.6	<10	<2
1098865	Soil			0.16	3.1	0.7	<0.05	3.5	11.80	14.7	<0.02	<1	0.3	3.8	<10	<2
1098866	Soil			0.25	4.8	6.3	<0.05	3.4	15.16	19.5	<0.02	2	0.5	6.9	<10	<2
1098867	Soil			0.31	10.1	1.8	<0.05	4.4	10.79	45.8	0.04	<1	0.9	23.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1098868	Soil			0.62	22.18	36.83	123.4	105	25.9	11.9	311	2.62	9.7	1.1	3.8	6.2	33.5	0.44	0.47	0.22	30	0.84	0.040
1098869	Soil			0.80	24.25	27.53	91.4	62	26.2	10.7	886	2.91	3.6	1.4	1.7	4.8	41.7	0.39	0.40	0.26	21	1.16	0.044
1098870	Soil			0.54	33.91	15.95	84.6	41	29.7	11.0	280	2.73	3.7	1.0	0.9	4.4	41.7	0.22	0.29	0.25	28	0.94	0.046
1098871	Soil			0.93	7.11	14.26	66.1	62	17.8	7.3	280	2.35	4.3	0.9	1.3	4.4	39.2	0.33	0.54	0.22	45	1.20	0.049
1098872	Soil			0.88	52.48	17.90	73.5	58	21.8	11.1	570	2.62	8.4	5.0	0.8	1.7	46.3	0.25	0.62	0.32	34	0.89	0.091
1098873	Soil			0.60	22.77	14.43	82.5	85	22.8	9.4	462	2.32	5.7	6.9	2.2	1.6	46.8	0.33	0.31	0.24	35	1.14	0.084
1098874	Soil			0.92	36.36	64.25	319.6	169	28.2	11.2	444	2.76	15.6	1.1	3.7	5.3	52.4	0.95	0.40	0.26	25	1.34	0.081
1098875	Soil			0.70	43.80	53.43	173.1	179	40.0	15.0	465	2.82	9.9	3.9	2.4	4.0	102.3	0.40	0.47	0.33	19	2.88	0.087
1098876	Soil			0.51	42.47	53.75	164.4	137	46.9	16.9	273	3.06	7.4	3.7	2.3	6.0	53.8	0.32	0.49	0.35	19	1.32	0.076
1098877	Soil			0.36	32.89	46.26	238.4	93	44.4	12.1	301	3.05	7.3	2.3	1.2	4.8	37.4	0.45	0.45	0.31	19	0.99	0.078
1098271	Soil			1.31	32.23	49.06	100.3	68	31.5	23.2	1148	4.58	24.8	1.0	0.8	0.8	9.4	0.20	0.76	0.44	29	0.11	0.116
1098272	Soil			1.01	23.62	23.14	81.8	261	27.7	10.5	489	2.97	9.2	1.1	1.0	0.7	33.6	0.15	0.68	0.26	36	0.44	0.086
1098273	Soil			1.20	17.31	14.35	83.6	62	22.3	6.5	203	2.53	9.8	0.6	1.9	3.0	10.6	0.17	0.76	0.22	52	0.11	0.041
1098274	Soil			0.50	26.12	41.78	112.9	85	41.9	17.7	641	3.68	7.4	1.1	<0.2	5.1	31.0	0.11	0.22	0.49	13	0.28	0.059
1098761	Soil			0.78	45.55	48.47	88.3	45	36.7	17.7	413	3.40	11.5	0.9	0.6	2.7	14.7	0.07	0.73	0.45	29	0.10	0.041
1098762	Soil			1.17	32.71	83.04	116.9	109	27.3	29.1	1519	4.20	14.7	0.8	1.3	1.0	34.4	0.31	0.58	0.47	29	0.58	0.168
1098763	Soil			1.21	49.02	58.45	115.4	100	50.8	31.9	729	4.72	27.2	1.2	0.4	2.5	17.1	0.13	0.88	0.40	24	0.08	0.054
1098764	Soil			1.03	29.79	43.09	93.9	338	23.9	16.0	1012	4.37	11.2	0.9	<0.2	0.6	10.4	0.26	0.58	0.42	29	0.10	0.143
1098765	Soil			0.94	27.07	37.26	85.4	139	25.5	12.8	730	3.80	13.8	0.7	0.7	0.7	15.0	0.11	0.53	0.36	23	0.13	0.075
1098766	Soil			1.04	24.40	38.21	82.6	247	25.0	13.1	610	3.98	12.7	0.8	2.6	0.5	10.5	0.18	0.65	0.36	28	0.09	0.084
1098767	Soil			1.24	30.57	39.12	142.8	147	57.8	17.3	467	4.26	14.3	0.9	1.3	0.8	9.3	0.12	0.67	0.38	32	0.05	0.077
1098768	Soil			1.51	30.66	53.62	170.0	114	61.0	22.7	663	3.68	16.0	1.1	0.6	1.1	10.8	0.26	0.89	0.37	33	0.08	0.078
1098769	Soil			1.04	30.37	43.05	92.9	146	28.5	14.1	564	3.66	9.2	0.7	1.2	2.0	13.6	0.18	0.42	0.38	17	0.09	0.067
1098770	Soil			1.09	19.22	15.52	80.6	246	20.9	6.4	311	2.28	7.3	0.8	1.6	0.3	10.5	0.24	0.64	0.21	45	0.09	0.076
1098771	Soil			1.32	34.63	40.46	116.0	122	30.8	12.8	447	4.40	11.3	1.1	1.2	2.6	25.5	0.17	0.77	0.35	39	0.05	0.078
1098772	Soil			1.29	26.96	43.88	120.8	74	27.6	14.7	549	4.72	11.3	0.8	2.3	1.5	14.4	0.30	0.92	0.66	31	0.06	0.087
1098773	Soil			0.42	26.97	33.77	128.2	254	40.6	16.3	985	5.05	8.8	0.7	0.8	8.9	90.6	0.15	0.27	0.51	14	0.86	0.188
1098774	Soil			1.08	24.48	28.90	116.3	44	30.3	13.7	654	3.91	12.1	0.8	2.7	3.1	39.1	0.21	0.90	0.41	37	0.28	0.063
1098775	Soil			1.04	18.17	21.52	97.6	91	18.9	9.2	435	3.21	8.6	0.5	2.4	1.1	7.6	0.23	0.63	0.38	33	0.04	0.053
1098776	Soil			0.69	15.03	21.89	97.0	229	20.1	6.5	494	2.73	8.7	1.0	1.2	1.1	29.4	0.21	0.53	0.33	24	0.52	0.118



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1098868	Soil	27.3	38.2	1.32	174.8	0.010	3	1.48	0.005	0.11	<0.1	6.5	0.13	0.04	50	1.1	0.04	4.6	4.41	<0.1	0.11
1098869	Soil	24.6	31.8	0.71	411.5	0.005	6	1.05	0.004	0.13	<0.1	5.8	0.12	0.04	54	0.7	0.03	2.8	1.75	<0.1	0.09
1098870	Soil	24.0	43.2	1.60	441.0	0.007	5	1.98	0.005	0.13	<0.1	6.1	0.14	0.04	27	0.4	<0.02	5.7	1.23	<0.1	0.14
1098871	Soil	19.7	36.8	0.85	793.1	0.019	2	1.87	0.006	0.09	0.2	2.9	0.20	0.05	22	0.5	0.07	6.2	3.26	<0.1	0.05
1098872	Soil	19.2	30.2	0.67	354.6	0.014	2	1.38	0.006	0.07	0.1	3.7	0.13	0.07	69	1.5	0.03	4.3	2.70	<0.1	0.05
1098873	Soil	20.6	43.2	1.57	181.0	0.011	3	1.69	0.005	0.07	<0.1	3.0	0.11	0.08	69	1.3	0.04	5.4	1.45	<0.1	0.09
1098874	Soil	27.0	44.1	1.76	110.6	0.006	5	1.51	0.006	0.12	<0.1	6.3	0.11	0.04	130	1.6	0.03	4.6	3.22	<0.1	0.13
1098875	Soil	21.1	39.5	1.14	172.7	0.005	5	1.56	0.006	0.10	<0.1	4.7	0.11	0.07	87	0.8	0.04	4.7	2.17	<0.1	0.22
1098876	Soil	21.6	45.6	1.43	117.0	0.006	5	1.83	0.004	0.12	<0.1	5.3	0.10	0.06	67	0.7	0.02	5.5	3.60	<0.1	0.26
1098877	Soil	23.8	46.4	1.25	100.1	0.006	4	1.75	0.004	0.10	<0.1	5.6	0.09	0.06	52	0.5	0.05	5.3	2.62	<0.1	0.21
1098271	Soil	5.7	21.9	0.22	159.3	0.006	3	1.34	0.004	0.12	<0.1	1.7	0.17	0.05	27	0.5	0.11	4.1	3.11	<0.1	0.03
1098272	Soil	11.8	24.9	0.35	157.4	0.008	2	1.44	0.007	0.07	0.1	1.8	0.11	0.05	38	0.6	0.05	3.9	1.56	<0.1	0.02
1098273	Soil	11.7	25.4	0.38	103.7	0.023	2	1.36	0.006	0.05	0.3	2.1	0.12	<0.02	29	0.3	0.02	4.6	1.31	<0.1	0.02
1098274	Soil	12.5	19.1	0.24	157.9	0.003	3	1.29	0.005	0.11	<0.1	4.1	0.17	0.05	32	0.6	0.05	3.3	2.39	<0.1	0.07
1098761	Soil	9.0	27.0	0.53	111.7	0.009	2	1.62	0.005	0.09	<0.1	2.8	0.09	<0.02	10	0.3	0.08	4.3	3.22	<0.1	0.04
1098762	Soil	5.8	23.8	0.24	296.4	0.008	3	1.39	0.008	0.11	<0.1	3.1	0.11	0.10	30	0.5	0.09	4.5	5.81	<0.1	0.05
1098763	Soil	6.5	25.9	0.35	185.8	0.006	2	1.54	0.014	0.09	<0.1	3.4	0.15	0.08	23	0.6	0.07	3.5	3.98	<0.1	0.06
1098764	Soil	6.1	28.1	0.24	156.0	0.007	2	1.51	0.006	0.09	<0.1	1.1	0.10	0.10	39	0.7	0.09	4.3	2.62	<0.1	0.03
1098765	Soil	4.9	19.1	0.20	150.4	0.006	2	1.15	0.009	0.08	<0.1	1.5	0.12	0.07	26	0.5	0.08	3.4	2.67	<0.1	0.04
1098766	Soil	6.2	24.4	0.25	103.6	0.009	2	1.41	0.008	0.08	<0.1	1.2	0.12	0.06	30	0.6	0.04	3.4	2.30	<0.1	<0.02
1098767	Soil	6.7	26.1	0.32	115.8	0.011	3	1.79	0.006	0.09	0.1	2.0	0.12	0.05	40	0.4	0.10	4.5	6.52	<0.1	0.04
1098768	Soil	7.1	26.0	0.32	115.4	0.017	2	1.95	0.008	0.08	0.1	2.4	0.09	0.06	20	0.6	0.03	3.8	4.30	<0.1	0.04
1098769	Soil	4.6	21.1	0.18	102.3	0.003	2	1.08	0.007	0.09	<0.1	2.7	0.13	0.05	29	0.4	0.07	2.9	2.83	<0.1	0.05
1098770	Soil	10.0	26.9	0.33	147.5	0.009	1	1.40	0.006	0.05	0.2	0.7	0.13	0.05	39	0.4	0.03	4.6	1.81	<0.1	<0.02
1098771	Soil	8.2	26.7	0.28	136.9	0.013	2	1.64	0.013	0.09	<0.1	3.7	0.14	0.11	21	0.6	0.13	4.3	4.26	<0.1	0.03
1098772	Soil	7.8	30.4	0.40	89.7	0.012	2	1.63	0.005	0.10	0.1	2.3	0.15	0.06	47	0.6	0.05	4.4	2.65	<0.1	<0.02
1098773	Soil	23.7	21.4	0.31	246.2	0.003	4	1.42	0.006	0.09	<0.1	9.1	0.18	0.03	68	0.3	<0.02	3.5	1.86	<0.1	0.04
1098774	Soil	9.9	27.2	0.41	150.6	0.011	4	1.50	0.004	0.07	0.1	3.0	0.14	<0.02	29	0.3	0.02	4.7	1.76	<0.1	<0.02
1098775	Soil	8.1	20.8	0.22	101.6	0.008	3	1.13	0.003	0.10	0.1	1.7	0.15	0.02	35	0.3	0.04	4.9	1.97	<0.1	<0.02
1098776	Soil	11.8	19.9	0.27	168.8	0.005	2	1.14	0.004	0.08	<0.1	1.7	0.13	0.04	87	0.3	<0.02	3.5	1.18	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 3L6 Canada

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 Report Date: December 16, 2011

Page: 10 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1098868	Soil	0.38	13.6	0.8	<0.05	3.6	13.88	57.3	0.02	<1	0.9	33.5	<10	<2
1098869	Soil	0.19	13.5	6.0	<0.05	2.8	10.23	53.8	<0.02	<1	0.5	16.4	<10	<2
1098870	Soil	0.38	15.2	0.8	<0.05	4.6	17.72	47.4	0.03	1	1.1	37.1	<10	<2
1098871	Soil	0.79	20.7	2.0	<0.05	1.7	4.19	40.1	0.04	<1	0.6	25.4	<10	<2
1098872	Soil	0.60	14.6	0.6	<0.05	1.5	16.91	38.3	0.04	<1	0.6	19.9	<10	<2
1098873	Soil	0.50	10.6	0.9	<0.05	2.2	11.82	42.3	0.04	<1	0.7	32.9	<10	<2
1098874	Soil	0.23	11.8	1.0	<0.05	4.7	18.87	52.4	0.04	<1	0.7	38.2	<10	<2
1098875	Soil	0.28	8.4	1.0	<0.05	7.0	20.29	43.1	0.04	<1	0.6	33.7	<10	<2
1098876	Soil	0.29	9.6	0.9	<0.05	8.5	16.97	41.8	0.05	<1	0.9	44.1	<10	<2
1098877	Soil	0.28	9.3	1.1	<0.05	6.8	21.40	44.1	0.05	1	1.0	40.6	<10	<2
1098271	Soil	0.19	17.7	0.7	<0.05	1.2	6.59	18.8	0.05	<1	1.0	17.4	<10	<2
1098272	Soil	0.39	10.1	1.8	<0.05	0.4	10.31	29.2	<0.02	<1	0.8	25.0	<10	<2
1098273	Soil	0.81	8.4	0.9	<0.05	0.6	3.36	24.3	<0.02	<1	0.2	15.8	<10	<2
1098274	Soil	0.20	12.4	1.8	<0.05	2.2	13.77	36.6	0.04	<1	1.5	30.7	<10	<2
1098761	Soil	0.21	10.1	0.7	<0.05	1.3	5.99	20.9	0.05	<1	1.0	47.8	<10	<2
1098762	Soil	0.31	17.7	6.0	<0.05	1.4	7.53	14.5	0.02	2	0.9	26.9	<10	<2
1098763	Soil	0.20	9.8	0.8	<0.05	1.8	6.99	19.4	0.03	<1	1.1	49.1	<10	<2
1098764	Soil	0.39	12.9	1.7	<0.05	0.9	4.90	15.6	0.05	<1	0.8	22.0	<10	<2
1098765	Soil	0.20	10.8	0.7	<0.05	0.9	4.41	11.5	0.03	<1	0.8	21.4	<10	<2
1098766	Soil	0.31	9.7	2.7	<0.05	0.6	3.96	16.3	0.04	<1	0.7	23.3	<10	<2
1098767	Soil	0.38	12.7	1.1	<0.05	0.9	5.73	16.7	0.04	<1	1.0	42.3	<10	<2
1098768	Soil	0.53	9.7	8.9	<0.05	1.8	6.72	15.8	<0.02	<1	1.3	39.0	<10	<2
1098769	Soil	0.14	9.7	2.3	<0.05	1.5	5.33	11.5	0.04	<1	0.6	22.8	<10	<2
1098770	Soil	0.23	11.1	2.5	<0.05	0.3	4.07	20.2	<0.02	<1	0.6	18.0	<10	<2
1098771	Soil	0.49	14.3	0.8	<0.05	1.0	4.94	19.2	0.04	<1	1.0	26.7	<10	<2
1098772	Soil	0.44	12.4	4.5	<0.05	0.6	4.36	19.7	0.05	<1	0.8	29.1	<10	<2
1098773	Soil	0.16	9.2	1.0	<0.05	2.7	27.91	53.9	0.05	<1	1.7	38.1	<10	<2
1098774	Soil	0.45	11.9	2.6	<0.05	0.4	5.77	23.7	0.04	<1	0.8	31.5	<10	<2
1098775	Soil	0.56	17.6	1.3	<0.05	0.3	2.95	17.2	0.03	<1	0.6	16.5	<10	<2
1098776	Soil	0.25	11.5	1.7	<0.05	0.8	10.04	27.6	0.04	1	0.9	14.8	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1098777	Soil			0.66	18.95	53.20	139.2	276	25.1	9.2	610	2.66	12.0	1.0	1.4	2.0	46.4	0.38	1.11	0.25	18	2.65	0.088
1098778	Soil			0.39	25.05	35.19	37.3	171	18.6	8.1	1406	2.66	28.9	3.3	3.8	0.7	39.0	0.13	3.31	0.18	7	16.11	0.131
1098779	Soil			0.69	12.98	20.60	43.3	83	11.4	6.6	5011	4.59	20.3	1.6	<0.2	0.4	22.5	0.75	1.34	0.16	16	10.77	0.177
1098780	Soil			0.59	18.10	26.45	88.7	161	21.5	7.6	461	2.99	11.2	1.2	1.3	2.0	60.6	0.29	0.72	0.28	21	2.20	0.085
1098781	Soil			0.80	16.35	29.81	133.0	194	19.9	10.3	2075	4.31	17.6	0.9	1.5	1.3	15.0	0.93	1.14	0.27	34	1.53	0.134
1098782	Soil			0.43	12.04	18.23	32.6	72	10.0	7.2	2641	3.08	14.0	0.8	1.2	0.7	16.4	0.22	0.71	0.17	14	5.58	0.156
1098783	Soil			1.43	53.45	36.83	172.5	246	34.3	19.6	3397	3.90	15.7	2.0	0.7	1.5	52.1	1.04	0.78	0.35	38	3.43	0.107
1098784	Soil			0.67	24.05	40.81	48.8	49	27.6	16.2	1081	4.20	27.8	0.9	0.6	5.2	15.2	0.06	0.76	0.36	23	0.80	0.038
1098785	Soil			0.45	28.92	24.07	75.5	83	27.2	13.2	516	3.48	13.2	1.1	0.4	2.9	37.0	0.13	0.47	0.40	23	1.46	0.055
1098786	Soil			0.70	26.65	30.57	79.4	43	30.6	16.6	487	4.06	9.1	0.5	<0.2	4.5	11.3	0.07	0.36	0.42	29	0.25	0.026
1098787	Soil			0.36	27.61	14.20	56.9	96	19.4	8.9	453	2.12	5.5	1.4	1.0	0.9	72.6	0.22	0.30	0.26	15	3.35	0.076
1098788	Soil			0.69	28.05	29.85	77.6	69	25.8	13.5	514	3.83	8.4	0.8	<0.2	3.7	24.0	0.07	0.28	0.39	29	0.53	0.046
1098789	Soil			0.54	47.67	35.21	109.2	142	36.1	25.0	563	5.32	9.6	0.6	0.3	5.4	12.1	0.07	0.29	0.55	33	0.07	0.052
1098790	Soil			0.72	23.44	36.83	116.9	104	30.5	12.2	649	3.48	9.7	1.2	0.5	3.1	43.4	0.23	0.37	0.34	15	1.32	0.067
1098791	Soil			0.89	29.78	48.73	114.1	653	27.2	17.5	986	4.55	15.0	0.8	<0.2	0.6	45.5	0.18	0.55	0.44	23	0.49	0.121
1098792	Soil			0.74	29.69	52.07	85.7	239	25.1	13.5	558	3.87	8.0	1.0	0.4	2.7	22.7	0.10	0.36	0.35	14	0.24	0.085
1098793	Soil			0.69	27.27	52.62	92.1	319	23.3	17.0	715	3.65	6.9	0.7	<0.2	2.1	16.1	0.14	0.34	0.36	14	0.18	0.068
1098794	Soil			0.68	26.66	46.11	80.3	488	20.6	14.0	607	3.34	6.1	0.9	<0.2	2.1	20.1	0.20	0.33	0.36	14	0.18	0.114
1098795	Soil			0.70	31.70	49.17	84.4	254	24.4	16.3	1062	3.09	10.7	1.1	<0.2	1.4	116.0	0.18	0.36	0.31	11	1.27	0.140
1098796	Soil			0.59	37.35	50.76	103.1	308	28.8	15.3	477	4.32	8.7	0.7	<0.2	3.2	19.1	0.16	0.37	0.42	14	0.16	0.065
1098797	Soil			0.60	34.86	43.78	91.1	248	24.1	11.9	329	4.09	9.3	0.7	0.5	3.0	23.4	0.10	0.38	0.40	13	0.23	0.068
1098798	Soil			1.02	39.63	60.63	122.6	213	33.4	19.6	745	4.28	15.5	1.5	1.4	2.9	52.8	0.18	0.54	0.36	17	0.67	0.099
1098799	Soil			0.80	38.28	44.19	96.5	206	31.0	16.0	515	4.40	14.8	1.1	0.2	4.3	28.9	0.11	0.50	0.43	18	0.29	0.060
1098800	Soil			0.96	36.48	50.33	98.0	183	34.4	17.6	586	3.76	14.3	1.2	0.6	2.8	45.2	0.14	0.48	0.34	16	0.59	0.072
1098275	Soil			7.65	28.67	22.20	138.0	205	33.9	15.9	429	3.73	34.7	3.5	<0.2	6.0	37.3	0.92	1.86	0.20	31	3.38	0.162
1098276	Soil			4.83	26.39	27.22	131.6	206	30.6	9.9	240	3.31	47.3	4.8	0.7	1.4	36.6	0.48	1.45	0.19	38	3.36	0.144
1098277	Soil			1.63	18.64	16.32	93.3	71	32.5	14.0	453	3.56	6.4	0.8	<0.2	2.0	100.0	0.21	0.28	0.19	24	1.67	0.107
1098278	Soil			1.57	21.64	29.81	94.8	152	21.7	13.2	536	4.52	6.4	1.2	<0.2	0.6	7.9	0.21	0.49	0.36	28	0.12	0.187
1098279	Soil			0.90	24.28	31.56	86.3	149	25.9	19.8	461	3.09	6.4	0.8	<0.2	1.3	17.4	0.10	0.43	0.33	17	0.19	0.092
1098280	Soil			0.91	17.92	17.07	69.1	133	21.9	10.0	429	2.69	7.0	1.1	1.0	2.4	21.0	0.12	0.51	0.21	23	0.53	0.080



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1098777	Soil	13.1	16.8	0.98	77.6	0.003	4	0.74	0.005	0.08	<0.1	3.1	0.09	0.03	298	0.4	<0.02	2.1	0.38	<0.1	0.05
1098778	Soil	6.6	7.2	8.71	57.4	<0.001	6	0.36	0.010	0.04	<0.1	1.0	0.19	<0.02	399	0.6	0.16	0.9	0.28	<0.1	0.06
1098779	Soil	10.0	12.4	5.85	185.0	0.004	8	0.82	0.011	0.04	<0.1	1.0	0.15	0.06	147	0.5	0.05	1.5	0.51	<0.1	0.03
1098780	Soil	13.1	18.4	0.56	78.4	0.005	4	1.04	0.005	0.07	<0.1	3.1	0.11	0.05	104	0.5	0.03	3.1	0.78	<0.1	0.04
1098781	Soil	15.0	22.7	0.66	146.7	0.007	3	1.46	0.006	0.06	<0.1	2.6	0.12	0.08	161	0.3	0.05	3.7	0.68	<0.1	0.05
1098782	Soil	8.5	13.2	3.25	107.3	0.003	6	0.95	0.008	0.05	<0.1	1.2	0.07	0.06	93	0.4	0.03	2.0	0.37	<0.1	0.05
1098783	Soil	20.4	23.2	0.31	264.2	0.003	7	1.22	0.005	0.16	<0.1	3.5	0.12	0.06	78	0.6	0.06	3.7	0.39	<0.1	0.06
1098784	Soil	12.4	23.5	0.43	109.5	0.002	3	1.57	0.002	0.14	<0.1	5.1	0.10	0.03	57	0.2	0.05	4.5	0.51	<0.1	0.04
1098785	Soil	8.1	28.5	0.41	137.2	0.005	4	1.45	0.006	0.17	<0.1	4.3	0.12	0.05	66	0.3	0.03	5.2	1.75	<0.1	0.08
1098786	Soil	7.5	34.9	0.48	112.9	0.004	2	1.75	0.002	0.13	<0.1	3.5	0.11	<0.02	19	0.1	0.04	6.4	1.40	<0.1	0.05
1098787	Soil	7.3	18.7	0.33	167.1	0.005	10	1.00	0.007	0.14	<0.1	1.8	0.11	0.11	63	0.4	0.04	3.1	1.12	<0.1	0.04
1098788	Soil	7.5	34.2	0.36	155.9	0.002	2	1.75	0.003	0.14	<0.1	3.7	0.13	0.02	35	0.2	0.02	6.9	1.54	<0.1	0.03
1098789	Soil	6.2	43.2	0.48	97.1	0.003	2	2.26	0.004	0.12	<0.1	4.2	0.12	0.04	32	0.2	0.02	8.2	3.74	<0.1	0.09
1098790	Soil	6.5	19.0	0.71	109.2	0.005	5	0.95	0.004	0.11	<0.1	3.5	0.12	0.05	36	0.4	0.05	2.9	2.38	<0.1	0.04
1098791	Soil	4.4	23.1	0.25	194.2	0.005	3	1.22	0.006	0.10	<0.1	1.4	0.14	0.08	31	0.3	0.06	4.0	3.91	<0.1	0.02
1098792	Soil	4.5	18.4	0.18	157.2	0.002	2	0.99	0.002	0.09	<0.1	5.0	0.15	0.04	28	0.4	0.04	2.9	2.74	<0.1	0.09
1098793	Soil	3.0	18.4	0.18	124.1	0.002	2	1.01	0.003	0.09	<0.1	3.0	0.17	0.04	31	0.3	0.04	3.0	3.57	<0.1	0.04
1098794	Soil	2.8	18.8	0.18	119.7	0.002	3	1.06	0.004	0.09	<0.1	3.0	0.13	0.08	47	0.3	0.05	2.8	2.95	<0.1	0.05
1098795	Soil	5.3	14.3	0.16	205.8	0.002	5	0.87	0.008	0.08	<0.1	3.0	0.18	0.13	57	0.5	0.06	2.1	3.33	<0.1	0.08
1098796	Soil	3.0	17.9	0.25	97.3	0.001	3	1.05	0.003	0.09	<0.1	4.4	0.15	0.03	26	0.2	0.06	3.0	3.38	<0.1	0.06
1098797	Soil	3.0	17.1	0.22	88.9	0.001	3	1.01	0.003	0.09	<0.1	4.2	0.13	0.04	18	0.2	0.03	2.8	3.08	<0.1	0.04
1098798	Soil	7.4	21.5	0.30	137.7	0.003	4	1.09	0.006	0.09	<0.1	5.2	0.16	0.06	39	0.5	0.06	3.1	2.88	<0.1	0.09
1098799	Soil	6.0	23.1	0.34	117.6	0.003	3	1.15	0.004	0.10	<0.1	4.9	0.16	0.03	22	0.5	0.10	3.8	3.00	<0.1	0.05
1098800	Soil	5.8	22.0	0.30	111.7	0.002	3	1.04	0.005	0.08	<0.1	4.4	0.11	0.06	32	0.4	0.07	3.1	2.29	<0.1	0.10
1098275	Soil	13.6	14.9	1.84	165.7	0.004	10	0.72	0.006	0.26	<0.1	4.8	0.55	0.12	46	0.8	0.03	2.6	2.33	<0.1	0.10
1098276	Soil	16.0	16.4	1.27	259.1	0.001	10	0.83	0.005	0.13	<0.1	3.5	0.54	0.13	68	0.7	0.04	2.5	1.10	<0.1	0.09
1098277	Soil	21.0	22.6	0.26	186.2	0.002	11	1.22	0.004	0.27	<0.1	3.8	0.20	0.07	28	0.4	<0.02	3.4	0.97	<0.1	0.12
1098278	Soil	5.9	23.0	0.24	87.2	0.004	6	1.57	0.002	0.17	<0.1	1.0	0.15	0.11	58	0.6	0.10	4.9	3.20	<0.1	0.04
1098279	Soil	7.9	18.0	0.23	116.4	0.003	5	1.10	0.004	0.18	<0.1	2.5	0.13	0.08	32	0.7	0.14	3.3	3.81	<0.1	0.04
1098280	Soil	19.5	20.8	0.35	150.1	0.007	5	1.03	0.003	0.13	0.1	3.4	0.11	0.03	31	0.3	0.03	3.1	1.81	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

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 Report Date: December 16, 2011

Page: 11 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1098777	Soil	0.25	4.7	1.0	<0.05	1.9	14.92	30.4	0.03	1	0.7	7.1	<10	<2
1098778	Soil	0.04	2.3	1.0	<0.05	1.3	11.79	12.1	<0.02	1	0.3	2.2	<10	<2
1098779	Soil	0.10	5.3	1.1	<0.05	0.6	11.82	18.7	0.02	<1	0.4	3.5	<10	<2
1098780	Soil	0.46	9.4	2.5	<0.05	1.9	14.12	27.0	0.03	<1	0.9	13.4	<10	<2
1098781	Soil	0.40	6.9	0.9	<0.05	2.1	13.04	29.9	0.04	<1	0.7	11.0	<10	<2
1098782	Soil	0.12	4.8	3.2	<0.05	1.3	9.37	19.0	<0.02	1	0.6	5.1	<10	<2
1098783	Soil	0.31	8.1	0.8	<0.05	1.5	14.74	42.3	0.05	<1	1.4	7.3	<10	<2
1098784	Soil	0.22	7.9	4.8	<0.05	1.7	13.92	32.7	0.04	<1	1.3	16.0	<10	<2
1098785	Soil	0.48	15.2	1.1	<0.05	2.3	10.98	17.5	0.03	2	1.0	22.4	<10	<2
1098786	Soil	0.35	12.8	5.8	<0.05	1.4	4.61	19.9	0.03	<1	1.1	37.2	<10	<2
1098787	Soil	0.39	10.7	1.3	<0.05	1.5	8.69	14.3	<0.02	3	0.6	14.7	<10	<2
1098788	Soil	0.37	18.9	9.2	<0.05	1.2	6.87	16.9	0.04	<1	0.9	28.2	<10	<2
1098789	Soil	0.37	16.2	1.6	<0.05	3.3	6.41	20.4	0.04	<1	1.5	41.8	<10	<2
1098790	Soil	0.20	12.0	10.6	<0.05	2.0	10.46	15.6	0.04	1	0.9	27.9	<10	<2
1098791	Soil	0.21	13.3	1.5	<0.05	0.5	6.55	10.7	0.03	1	1.1	28.5	<10	<2
1098792	Soil	0.08	9.0	5.9	<0.05	2.4	15.00	17.2	0.05	<1	1.1	24.3	<10	<2
1098793	Soil	0.11	11.2	2.1	<0.05	1.2	5.62	8.2	0.04	<1	0.9	26.0	<10	<2
1098794	Soil	0.15	10.8	6.0	<0.05	1.3	7.43	9.3	0.04	<1	1.1	23.9	<10	<2
1098795	Soil	0.15	9.3	1.0	<0.05	2.4	14.66	14.3	0.03	<1	1.0	17.4	<10	<2
1098796	Soil	0.08	10.3	1.8	<0.05	1.2	8.96	9.9	0.05	<1	0.9	35.5	<10	<2
1098797	Soil	0.09	9.6	0.9	<0.05	1.4	8.54	9.6	0.06	<1	1.0	30.3	<10	<2
1098798	Soil	0.16	8.6	10.4	<0.05	3.3	17.59	21.5	0.05	1	1.2	32.1	<10	<2
1098799	Soil	0.09	9.9	1.5	<0.05	2.4	11.40	16.9	0.05	<1	0.9	35.6	<10	<2
1098800	Soil	0.16	7.9	10.5	<0.05	3.5	14.23	18.2	0.04	<1	1.0	33.1	<10	<2
1098275	Soil	0.11	15.7	0.9	<0.05	4.3	16.15	32.8	0.02	<1	0.7	9.4	<10	<2
1098276	Soil	0.26	8.9	4.7	<0.05	3.4	18.28	27.3	0.04	<1	0.9	10.4	<10	<2
1098277	Soil	0.51	15.0	1.0	<0.05	5.7	16.31	45.5	0.05	<1	1.3	11.2	<10	<2
1098278	Soil	0.38	18.9	1.9	<0.05	1.2	4.26	17.8	0.04	<1	1.1	11.9	<10	<2
1098279	Soil	0.18	16.9	1.0	<0.05	1.2	9.31	22.3	0.04	<1	1.2	15.9	<10	<2
1098280	Soil	0.23	12.6	1.3	<0.05	1.6	15.17	39.5	0.03	1	0.8	14.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

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 Report Date: December 16, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	0.02	2	0.01	0.001
1098281	Soil	1.73	17.25	28.50	70.0	110	21.2	8.0	198	2.82	7.6	0.7	0.3	0.5	15.4	0.19	0.55	0.30	18	0.15	0.094
1098282	Soil	1.52	21.48	28.73	44.9	202	25.8	9.6	261	2.29	4.7	0.8	2.0	3.5	11.2	0.12	0.47	0.25	13	0.42	0.046
1098283	Soil	0.56	14.81	11.15	37.5	117	12.3	6.5	303	1.56	3.2	1.8	1.3	1.0	37.6	0.13	0.28	0.20	15	1.36	0.099
1098284	Soil	1.21	21.56	34.79	48.5	146	23.0	9.0	515	1.69	4.0	1.3	2.8	1.1	31.5	0.16	0.33	0.22	14	1.59	0.099
1098285	Soil	0.82	16.25	15.32	67.9	14	35.7	17.0	185	3.42	0.4	1.4	5.1	6.0	4.8	0.01	0.60	0.47	18	0.05	0.013
1098286	Soil	0.27	0.52	14.90	43.1	39	1.5	0.7	717	0.17	5.1	0.4	0.8	0.1	66.8	0.14	0.11	<0.02	<2	16.90	0.053
1098287	Soil	0.27	1.67	39.76	152.1	96	3.3	1.6	1002	0.39	17.7	1.5	3.9	<0.1	60.6	1.60	0.27	0.07	2	15.91	0.100
1098288	Soil	1.63	20.03	99.21	310.4	202	15.7	9.3	450	1.27	28.2	1.1	2.9	1.6	61.9	0.64	1.52	0.40	15	2.97	0.038
1098289	Soil	0.66	27.84	40.72	75.1	172	25.4	12.0	445	2.49	14.8	0.6	0.7	1.7	15.5	0.14	0.79	0.31	12	1.20	0.064
1098290	Soil	0.77	30.64	42.61	96.3	114	20.8	13.4	703	3.22	14.2	0.6	0.7	2.9	24.0	0.08	0.51	0.36	23	0.04	0.057
1098291	Soil	1.09	15.91	15.95	81.2	35	8.9	9.6	850	2.22	9.2	0.4	0.8	1.1	5.5	0.05	0.59	0.38	32	0.04	0.040
1098292	Soil	1.19	18.22	28.82	205.4	130	15.0	6.7	596	2.00	13.9	6.8	1.4	0.4	77.3	0.89	1.56	0.17	19	2.09	0.086
1098293	Soil	0.41	28.89	11.21	81.7	70	27.4	10.9	274	2.52	8.4	1.6	1.8	4.1	41.2	0.29	0.62	0.19	26	1.68	0.054
1098294	Soil	0.71	26.98	14.38	81.0	85	24.4	9.8	252	2.08	10.4	2.1	2.6	3.7	86.0	0.22	0.43	0.16	32	3.02	0.047
1098295	Soil	0.48	25.82	9.86	85.1	63	26.2	9.9	285	2.41	5.4	1.5	2.8	2.8	36.0	0.14	0.47	0.18	19	0.74	0.062
1098296	Soil	0.61	21.26	37.18	92.2	62	27.7	10.1	246	2.30	4.4	0.9	2.4	5.7	13.6	0.12	0.28	0.22	20	0.48	0.048
1098297	Soil	0.32	30.53	20.15	87.2	60	34.1	10.5	262	2.39	3.9	2.5	0.5	2.3	37.5	0.17	0.26	0.29	15	1.14	0.074
1098298	Soil	0.45	41.41	26.56	111.2	85	40.6	10.9	201	2.86	4.0	2.2	2.5	3.1	37.8	0.18	0.26	0.27	16	1.31	0.070
1098299	Soil	0.30	31.55	21.27	99.1	79	34.9	10.6	269	2.70	3.7	2.9	2.4	3.5	34.5	0.17	0.30	0.29	16	0.90	0.070
1098300	Soil	1.06	31.36	65.02	294.2	219	36.0	19.3	715	3.93	16.1	0.8	0.9	2.8	16.6	0.52	3.36	0.54	17	0.11	0.100



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1098281	Soil	7.8	19.6	0.17	121.1	0.003	4	0.88	0.004	0.11	<0.1	0.8	0.12	0.07	25	0.3	0.03	2.6	2.02	<0.1	0.04
1098282	Soil	15.3	17.7	0.33	91.1	0.003	5	0.84	0.002	0.11	<0.1	3.9	0.09	0.03	36	0.4	<0.02	1.9	1.46	<0.1	0.10
1098283	Soil	14.7	13.7	0.22	149.3	0.005	6	0.80	0.003	0.12	<0.1	1.5	0.10	0.12	45	0.5	<0.02	2.5	1.52	<0.1	0.07
1098284	Soil	23.8	22.1	0.39	110.6	0.006	9	0.82	0.004	0.15	<0.1	2.2	0.13	0.11	398	0.9	<0.02	2.3	2.18	<0.1	0.05
1098285	Soil	2.4	21.6	0.33	189.9	0.009	3	1.06	0.002	0.15	<0.1	2.5	0.10	<0.02	11	<0.1	<0.02	3.3	2.93	<0.1	0.05
1098286	Soil	1.5	2.9	8.14	23.2	<0.001	1	0.05	0.008	<0.01	<0.1	0.2	0.27	<0.02	270	<0.1	<0.02	0.2	0.08	<0.1	<0.02
1098287	Soil	2.9	3.4	8.92	39.1	0.004	<1	0.20	0.007	0.01	<0.1	0.2	0.53	<0.02	>50000	1.0	<0.02	0.8	0.17	0.2	<0.02
1098288	Soil	4.5	12.4	1.76	283.3	0.001	2	0.60	0.003	0.11	<0.1	1.5	0.70	0.11	2408	0.2	0.07	2.2	0.43	<0.1	0.07
1098289	Soil	1.9	8.9	0.37	75.0	0.002	3	0.44	0.003	0.08	<0.1	2.7	0.45	0.06	1864	0.3	<0.02	1.3	4.84	<0.1	0.08
1098290	Soil	5.1	17.1	0.24	55.9	0.002	4	1.13	<0.001	0.14	<0.1	1.9	0.17	0.04	91	0.2	0.03	3.8	3.18	<0.1	0.03
1098291	Soil	8.2	12.5	0.08	46.2	0.011	2	0.61	0.001	0.11	<0.1	1.2	0.12	<0.02	101	0.2	0.04	4.6	9.49	<0.1	<0.02
1098292	Soil	12.7	12.3	0.17	1231	0.004	3	0.66	0.005	0.05	<0.1	1.0	0.24	0.12	376	0.8	0.02	1.9	0.62	<0.1	0.03
1098293	Soil	25.8	33.8	1.17	42.7	0.004	3	1.22	0.002	0.13	<0.1	5.0	0.13	0.04	73	0.6	0.02	4.1	1.83	<0.1	0.13
1098294	Soil	20.3	46.9	2.13	75.7	0.006	2	1.89	<0.001	0.07	<0.1	4.1	0.14	0.03	84	0.9	<0.02	5.9	3.11	<0.1	0.16
1098295	Soil	23.8	30.2	0.54	381.2	0.003	4	0.82	0.003	0.09	<0.1	4.5	0.16	0.05	61	1.5	0.05	2.5	2.39	<0.1	0.11
1098296	Soil	27.2	42.9	2.08	83.5	0.003	3	1.75	<0.001	0.09	<0.1	4.9	0.06	0.03	42	1.0	<0.02	5.1	1.74	<0.1	0.13
1098297	Soil	20.8	30.7	0.99	95.9	0.004	4	1.50	0.002	0.06	<0.1	4.3	0.06	0.07	44	0.6	<0.02	4.3	1.88	<0.1	0.10
1098298	Soil	13.8	39.1	1.21	94.3	0.003	3	1.75	0.002	0.06	<0.1	4.6	0.06	0.05	45	0.3	<0.02	5.1	3.15	<0.1	0.10
1098299	Soil	12.2	33.1	1.01	80.4	0.003	3	1.57	<0.001	0.06	<0.1	4.1	0.06	0.04	43	0.3	<0.02	4.8	3.50	<0.1	0.10
1098300	Soil	10.1	14.6	0.10	107.5	0.003	2	0.64	0.003	0.13	<0.1	2.9	0.20	0.04	53	0.2	<0.02	2.3	15.07	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 12 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001191.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1098281	Soil	0.13	11.2	0.9	<0.05	0.4	5.83	20.8	0.02	<1	0.8	12.5	<10	<2
1098282	Soil	0.17	9.4	3.0	<0.05	3.4	13.65	30.3	0.02	<1	0.7	11.5	<10	<2
1098283	Soil	0.35	11.9	0.8	<0.05	1.5	12.44	28.7	0.02	<1	0.5	8.1	<10	<2
1098284	Soil	0.23	13.0	15.5	<0.05	1.4	17.99	43.2	<0.02	<1	0.9	10.8	<10	2
1098285	Soil	0.12	13.7	1.1	<0.05	1.9	8.44	7.1	<0.02	<1	1.9	21.5	<10	<2
1098286	Soil	0.03	0.6	7.1	<0.05	0.3	1.89	2.2	<0.02	<1	0.1	0.5	<10	<2
1098287	Soil	0.04	1.4	0.9	<0.05	<0.1	3.20	3.7	<0.02	<1	<0.1	1.1	<10	9
1098288	Soil	0.07	5.1	4.1	<0.05	2.0	4.23	9.5	0.03	<1	0.5	2.2	<10	<2
1098289	Soil	0.15	8.3	2.1	<0.05	1.9	2.85	5.1	0.03	<1	0.6	1.5	<10	<2
1098290	Soil	0.11	14.5	2.0	<0.05	0.9	3.08	12.1	0.03	<1	0.8	14.0	<10	<2
1098291	Soil	0.28	20.1	1.6	<0.05	0.2	1.88	17.1	<0.02	<1	0.2	2.6	<10	<2
1098292	Soil	0.25	5.6	1.1	<0.05	0.9	8.95	25.8	0.03	<1	0.5	5.5	<10	<2
1098293	Soil	0.20	10.9	0.6	<0.05	4.0	13.61	45.6	0.03	<1	0.8	20.8	<10	<2
1098294	Soil	0.28	8.4	3.1	<0.05	4.4	11.60	40.2	<0.02	<1	0.9	44.3	<10	<2
1098295	Soil	0.14	9.5	0.7	<0.05	3.0	16.87	44.4	0.02	<1	0.8	13.3	<10	<2
1098296	Soil	0.17	7.6	1.3	<0.05	4.1	12.12	50.9	0.02	<1	0.9	41.0	<10	<2
1098297	Soil	0.20	6.1	0.4	<0.05	3.0	19.69	32.1	0.03	<1	1.2	31.0	<10	2
1098298	Soil	0.23	5.8	5.4	<0.05	4.7	16.82	22.8	0.04	<1	0.9	46.7	<10	<2
1098299	Soil	0.22	6.2	0.8	<0.05	4.4	13.36	24.0	0.02	<1	0.9	43.0	<10	<2
1098300	Soil	0.09	14.0	7.1	<0.05	0.7	8.92	25.5	0.05	<1	0.6	4.1	<10	<2



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

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 Report Date: December 16, 2011

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001191.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
1098619	Soil	4.73	67.99	31.60	132.5	4512	35.2	13.2	277	2.18	23.7	10.8	48.1	5.4	152.7	1.44	1.14	0.29	33	3.60	0.161
REP 1098619	QC	4.57	68.48	32.02	131.1	4473	34.6	13.0	276	2.18	22.8	10.6	45.9	5.2	152.6	1.36	1.13	0.28	32	3.69	0.155
1098640	Soil	0.46	16.51	19.45	66.4	259	19.8	5.2	264	2.12	8.9	1.1	0.6	2.1	50.1	0.23	0.62	0.20	19	1.34	0.087
REP 1098640	QC	0.50	17.49	20.16	70.7	272	19.9	5.5	266	2.18	9.1	1.2	1.6	1.9	53.7	0.27	0.64	0.21	19	1.42	0.094
1098667	Soil	0.83	20.17	18.09	58.0	150	18.5	8.3	439	2.28	5.8	2.5	0.4	1.4	67.6	0.32	0.39	0.16	25	1.25	0.037
REP 1098667	QC	0.85	21.19	18.67	59.6	160	18.3	8.6	455	2.33	5.8	2.6	0.4	1.4	70.2	0.31	0.42	0.16	26	1.28	0.039
1098673	Soil	0.36	22.40	50.50	35.5	267	18.0	7.1	3227	4.26	43.4	2.2	<0.2	0.9	29.1	0.25	4.14	0.24	17	10.96	0.120
REP 1098673	QC	0.36	22.74	52.09	36.4	280	18.9	7.3	3412	4.38	44.3	2.3	<0.2	1.0	29.8	0.26	4.32	0.25	17	11.77	0.124
1098829	Soil	0.46	29.38	21.95	48.0	27	16.9	30.8	2216	2.60	12.8	0.5	<0.2	2.9	9.5	0.12	0.41	0.38	21	0.25	0.059
REP 1098829	QC	0.49	29.88	21.74	46.5	25	16.7	30.9	2148	2.58	12.4	0.5	<0.2	2.7	9.6	0.12	0.40	0.38	21	0.24	0.059
1098268	Soil	1.02	41.55	34.63	120.2	285	41.7	14.3	291	3.76	12.5	1.4	<0.2	5.3	109.7	0.16	0.55	0.37	19	1.78	0.075
REP 1098268	QC	1.10	45.31	38.02	127.7	312	45.5	15.0	304	3.95	13.7	1.5	<0.2	5.5	116.9	0.20	0.61	0.41	21	1.94	0.083
1098270	Soil	1.04	22.31	26.61	102.5	405	24.1	9.8	455	3.59	9.2	1.0	2.4	0.4	8.7	0.33	0.68	0.31	37	0.07	0.079
REP 1098270	QC	1.06	22.77	26.74	103.4	370	23.4	10.0	463	3.62	9.6	0.9	1.1	0.4	8.2	0.31	0.67	0.31	36	0.07	0.079
1098751	Soil	0.12	3.15	7.52	71.8	40	4.5	1.6	711	1.14	18.9	1.2	1.2	0.2	55.5	0.12	0.77	0.03	3	18.30	0.088
REP 1098751	QC	0.13	3.22	7.61	76.0	47	4.5	1.6	731	1.14	19.3	1.3	1.3	0.2	54.1	0.14	0.80	0.02	3	17.79	0.088
1098410	Soil	0.40	1.68	3.68	15.4	23	5.6	1.4	226	0.28	7.9	1.1	0.9	0.1	59.6	0.10	0.45	<0.02	18	16.18	0.031
REP 1098410	QC	0.36	1.70	3.35	14.2	16	5.0	1.4	207	0.26	8.1	0.9	0.5	0.1	53.0	0.11	0.40	<0.02	16	14.58	0.029
1098426	Soil	0.40	25.12	19.39	73.0	114	17.4	7.6	341	2.07	4.1	2.1	3.7	1.3	48.8	0.29	0.29	0.18	22	1.74	0.113
REP 1098426	QC	0.45	25.90	19.78	71.1	123	19.0	8.0	349	2.15	4.1	2.2	3.1	1.4	51.0	0.31	0.30	0.20	23	1.80	0.108
1098690	Soil	0.63	42.42	13.97	91.3	56	28.7	10.2	209	2.50	3.6	1.5	1.9	3.6	37.0	0.13	0.31	0.23	18	1.29	0.055
REP 1098690	QC	0.70	45.25	14.64	99.7	69	30.5	10.7	213	2.70	4.8	1.7	2.0	4.3	40.3	0.16	0.37	0.26	19	1.32	0.058
1098845	Soil	2.98	17.29	19.26	58.5	251	19.2	9.5	264	2.17	34.8	2.9	1.3	1.5	80.3	0.16	0.69	0.12	27	7.86	0.134
REP 1098845	QC	2.93	17.06	18.60	57.9	233	18.2	9.1	250	2.10	34.1	2.8	1.5	1.4	78.6	0.18	0.65	0.11	27	7.76	0.130
1098870	Soil	0.54	33.91	15.95	84.6	41	29.7	11.0	280	2.73	3.7	1.0	0.9	4.4	41.7	0.22	0.29	0.25	28	0.94	0.046
REP 1098870	QC	0.52	35.68	16.20	83.9	46	30.5	11.3	286	2.74	4.5	1.0	2.2	4.2	40.6	0.20	0.30	0.25	28	0.95	0.050
1098766	Soil	1.04	24.40	38.21	82.6	247	25.0	13.1	610	3.98	12.7	0.8	2.6	0.5	10.5	0.18	0.65	0.36	28	0.09	0.084
REP 1098766	QC	1.13	24.79	37.53	83.7	261	25.7	13.2	624	4.04	12.9	0.8	0.9	0.5	10.7	0.18	0.65	0.35	28	0.10	0.087

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

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Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001191.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
1098619	Soil	16.2	16.4	1.24	122.4	0.002	9	0.68	0.005	0.17	<0.1	4.0	0.33	0.04	804	2.6	0.07	1.8	0.56	<0.1	0.11
REP 1098619	QC	16.2	16.3	1.19	118.8	0.002	9	0.67	0.005	0.17	<0.1	4.2	0.32	0.04	774	2.5	0.04	1.7	0.55	<0.1	0.13
1098640	Soil	17.8	16.0	0.11	83.0	0.002	5	0.84	0.003	0.07	<0.1	2.6	0.12	0.05	81	0.4	<0.02	2.0	0.32	<0.1	0.10
REP 1098640	QC	18.9	16.5	0.12	88.9	0.003	6	0.87	0.003	0.08	<0.1	2.5	0.13	0.06	90	0.6	0.05	2.3	0.36	<0.1	0.09
1098667	Soil	10.5	18.9	0.19	241.6	0.003	2	0.82	0.003	0.07	<0.1	2.7	0.10	0.04	187	0.7	<0.02	2.6	0.41	<0.1	0.03
REP 1098667	QC	11.2	19.8	0.20	251.5	0.004	2	0.85	0.003	0.07	<0.1	2.8	0.11	0.04	183	0.6	<0.02	2.7	0.45	<0.1	0.03
1098673	Soil	11.5	12.6	6.05	97.7	0.002	5	0.94	0.009	0.05	<0.1	1.9	0.21	0.04	446	0.5	0.25	2.0	0.39	<0.1	0.05
REP 1098673	QC	11.7	13.5	6.29	98.7	0.002	5	0.97	0.009	0.06	<0.1	2.1	0.23	0.03	441	0.5	0.29	2.1	0.44	<0.1	0.06
1098829	Soil	3.9	15.5	0.18	304.6	0.004	2	1.13	0.002	0.23	0.1	3.0	0.13	0.03	42	0.2	0.05	3.3	2.13	<0.1	<0.02
REP 1098829	QC	3.6	14.9	0.18	291.9	0.004	2	1.10	0.002	0.23	0.1	3.0	0.13	0.03	55	0.1	0.06	3.3	2.03	<0.1	<0.02
1098268	Soil	7.6	19.2	0.38	80.9	0.001	<1	1.10	0.006	0.09	<0.1	5.1	0.15	0.02	60	0.8	0.05	3.0	0.58	<0.1	0.12
REP 1098268	QC	8.5	20.6	0.41	87.8	0.002	2	1.20	0.007	0.10	<0.1	5.4	0.17	0.02	63	0.8	0.10	3.3	0.77	<0.1	0.09
1098270	Soil	7.1	25.5	0.35	95.3	0.005	3	1.60	0.003	0.09	<0.1	0.9	0.11	0.06	31	0.4	0.05	4.3	1.65	<0.1	<0.02
REP 1098270	QC	7.1	25.6	0.34	94.2	0.005	2	1.61	0.003	0.09	0.1	0.8	0.12	0.06	38	0.3	0.04	4.2	1.62	<0.1	<0.02
1098751	Soil	2.2	2.7	8.58	25.9	0.001	3	0.16	0.007	0.01	<0.1	0.3	0.12	<0.02	157	0.5	<0.02	0.5	0.07	<0.1	0.03
REP 1098751	QC	2.2	2.9	8.51	27.4	0.001	4	0.18	0.007	0.02	<0.1	0.3	0.12	<0.02	173	0.6	<0.02	0.5	0.08	<0.1	<0.02
1098410	Soil	3.6	5.3	9.24	16.1	0.004	2	0.18	0.009	0.01	<0.1	0.4	0.13	<0.02	11	0.3	<0.02	0.3	0.18	<0.1	<0.02
REP 1098410	QC	3.2	4.5	8.30	14.7	0.003	2	0.17	0.008	0.01	<0.1	0.4	0.11	<0.02	13	0.3	<0.02	0.3	0.16	<0.1	<0.02
1098426	Soil	11.6	29.6	1.19	861.6	0.005	6	1.43	0.007	0.08	<0.1	3.4	0.10	0.10	109	0.9	0.03	3.6	1.74	<0.1	0.10
REP 1098426	QC	12.3	28.9	1.23	894.6	0.004	4	1.51	0.009	0.09	<0.1	3.8	0.10	0.10	90	0.8	0.05	3.7	1.80	<0.1	0.10
1098690	Soil	19.1	31.6	0.88	331.9	0.004	5	1.02	0.003	0.10	<0.1	6.3	0.14	0.05	32	0.5	0.02	3.1	3.17	<0.1	0.14
REP 1098690	QC	24.2	34.7	0.92	355.7	0.007	6	1.12	0.003	0.13	<0.1	6.9	0.17	0.05	35	0.6	<0.02	3.4	5.34	<0.1	0.14
1098845	Soil	9.4	12.6	3.68	91.7	0.002	8	0.49	0.005	0.11	<0.1	3.5	0.50	0.05	82	0.5	0.05	1.5	2.74	<0.1	0.06
REP 1098845	QC	9.1	12.3	3.62	90.0	0.002	8	0.47	0.006	0.11	<0.1	3.6	0.47	0.06	111	0.5	<0.02	1.5	2.60	<0.1	0.06
1098870	Soil	24.0	43.2	1.60	441.0	0.007	5	1.98	0.005	0.13	<0.1	6.1	0.14	0.04	27	0.4	<0.02	5.7	1.23	<0.1	0.14
REP 1098870	QC	24.5	43.8	1.61	468.7	0.006	4	1.97	0.005	0.12	<0.1	5.7	0.12	0.04	22	0.5	0.02	5.6	1.08	<0.1	0.14
1098766	Soil	6.2	24.4	0.25	103.6	0.009	2	1.41	0.008	0.08	<0.1	1.2	0.12	0.06	30	0.6	0.04	3.4	2.30	<0.1	<0.02
REP 1098766	QC	6.3	24.8	0.25	103.7	0.009	2	1.40	0.008	0.08	<0.1	1.1	0.12	0.06	30	0.5	0.08	3.6	2.35	<0.1	0.02

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 1 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001191.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
1098619	Soil	0.09	8.5	2.0	<0.05	3.9	16.72	40.3	0.03	<1	1.4	7.7	<10	<2
REP 1098619	QC	0.10	8.2	1.7	<0.05	4.2	16.52	40.1	0.05	<1	1.2	8.1	<10	<2
1098640	Soil	0.18	5.7	1.3	<0.05	3.3	14.99	38.9	0.03	<1	0.7	6.5	<10	<2
REP 1098640	QC	0.23	6.1	1.2	<0.05	3.2	16.27	41.5	0.03	<1	0.9	6.0	<10	<2
1098667	Soil	0.35	8.1	3.1	<0.05	1.4	7.13	25.1	0.03	<1	0.8	8.5	<10	<2
REP 1098667	QC	0.34	8.9	3.0	<0.05	1.2	7.31	27.0	0.02	<1	0.8	9.7	<10	<2
1098673	Soil	0.09	5.9	1.3	<0.05	1.7	16.06	19.6	0.02	<1	0.7	4.4	<10	<2
REP 1098673	QC	0.09	6.4	1.5	<0.05	1.5	16.44	20.4	<0.02	<1	0.7	4.5	<10	<2
1098829	Soil	0.43	16.1	0.8	<0.05	0.4	2.54	13.3	0.03	<1	1.2	6.7	<10	<2
REP 1098829	QC	0.39	15.9	0.8	<0.05	0.4	2.49	12.4	0.04	<1	1.2	6.6	<10	<2
1098268	Soil	0.22	4.7	3.7	<0.05	4.4	15.62	17.8	0.06	<1	1.0	23.8	<10	<2
REP 1098268	QC	0.25	6.0	4.1	<0.05	4.1	16.40	19.3	0.05	<1	0.9	27.8	<10	<2
1098270	Soil	0.34	10.2	1.1	<0.05	0.5	4.61	19.9	0.04	1	0.7	24.4	<10	<2
REP 1098270	QC	0.36	10.3	1.1	<0.05	0.3	4.61	19.6	0.04	2	0.8	23.6	<10	<2
1098751	Soil	0.03	0.6	0.5	<0.05	1.0	5.58	4.8	<0.02	1	0.3	1.1	<10	<2
REP 1098751	QC	0.04	0.8	0.5	<0.05	0.9	5.75	5.3	<0.02	<1	0.4	1.3	<10	<2
1098410	Soil	0.04	1.3	1.1	<0.05	0.5	5.98	4.8	<0.02	<1	0.1	1.5	<10	<2
REP 1098410	QC	0.04	1.2	0.8	<0.05	0.5	5.34	4.3	<0.02	<1	0.1	1.2	<10	<2
1098426	Soil	0.34	7.6	2.6	<0.05	3.8	15.40	22.1	0.02	<1	1.1	27.0	<10	<2
REP 1098426	QC	0.35	7.8	2.9	<0.05	3.7	15.78	23.4	<0.02	<1	1.1	26.0	12	<2
1098690	Soil	0.34	9.4	1.2	<0.05	5.2	20.66	37.3	<0.02	<1	1.0	18.7	13	2
REP 1098690	QC	0.32	13.0	1.3	<0.05	4.9	21.97	47.1	0.03	<1	0.9	20.4	<10	<2
1098845	Soil	0.22	8.7	0.3	<0.05	2.1	11.85	21.0	<0.02	<1	0.5	4.6	<10	<2
REP 1098845	QC	0.22	8.2	0.3	<0.05	2.0	11.51	20.2	0.03	<1	0.5	4.4	<10	<2
1098870	Soil	0.38	15.2	0.8	<0.05	4.6	17.72	47.4	0.03	1	1.1	37.1	<10	<2
REP 1098870	QC	0.38	13.4	0.8	<0.05	4.5	17.17	48.1	0.03	<1	0.9	37.8	<10	<2
1098766	Soil	0.31	9.7	2.7	<0.05	0.6	3.96	16.3	0.04	<1	0.7	23.3	<10	<2
REP 1098766	QC	0.32	9.9	2.6	<0.05	0.5	3.96	16.5	0.03	<1	0.8	24.0	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001191.2

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
1098774	Soil	1.08	24.48	28.90	116.3	44	30.3	13.7	654	3.91	12.1	0.8	2.7	3.1	39.1	0.21	0.90	0.41	37	0.28	0.063
REP 1098774	QC	1.09	24.00	28.80	114.6	44	30.1	13.6	650	3.88	12.0	0.8	1.9	3.1	39.8	0.20	0.87	0.41	37	0.29	0.061
1098279	Soil	0.90	24.28	31.56	86.3	149	25.9	19.8	461	3.09	6.4	0.8	<0.2	1.3	17.4	0.10	0.43	0.33	17	0.19	0.092
REP 1098279	QC	0.90	25.16	31.85	90.4	151	27.1	20.9	459	3.15	7.1	0.8	<0.2	1.5	17.8	0.08	0.45	0.33	18	0.18	0.095
1098285	Soil	0.82	16.25	15.32	67.9	14	35.7	17.0	185	3.42	0.4	1.4	5.1	6.0	4.8	0.01	0.60	0.47	18	0.05	0.013
REP 1098285	QC	0.81	17.06	16.32	71.4	14	37.3	18.3	199	3.63	0.4	1.5	5.2	6.2	5.5	0.02	0.61	0.48	20	0.12	0.014
Reference Materials																					
STD DS8	Standard	13.05	113.2	121.2	301.2	1695	39.9	7.7	588	2.44	25.4	2.7	106.4	6.6	60.4	2.22	5.37	6.44	40	0.69	0.076
STD DS8	Standard	12.79	105.4	115.9	287.8	1671	37.1	7.3	561	2.22	23.6	2.6	113.3	6.7	59.5	2.17	5.11	6.12	38	0.67	0.069
STD DS8	Standard	13.45	108.3	120.5	295.8	1683	39.0	7.9	595	2.43	23.5	2.7	107.8	6.9	56.4	2.00	5.05	5.78	40	0.68	0.071
STD DS8	Standard	12.47	105.4	116.7	299.1	1665	38.1	7.5	588	2.50	25.3	2.5	108.3	6.2	59.5	2.00	5.03	6.29	40	0.69	0.084
STD DS8	Standard	13.49	108.3	125.8	315.9	1841	38.2	7.3	591	2.40	26.1	2.6	121.9	6.7	60.7	2.26	4.77	6.84	39	0.69	0.080
STD DS8	Standard	13.36	105.9	120.6	303.7	1727	36.3	7.7	590	2.38	22.8	2.7	109.3	6.7	64.1	2.16	4.11	6.32	40	0.71	0.071
STD DS8	Standard	13.00	105.9	126.6	321.7	1920	38.0	7.1	623	2.44	28.5	2.5	112.4	6.5	64.9	2.18	5.59	6.24	41	0.72	0.080
STD DS8	Standard	12.80	109.0	125.5	304.9	1841	38.7	7.2	595	2.37	25.8	2.9	115.3	7.0	57.8	2.29	5.31	6.12	40	0.72	0.074
STD DS8	Standard	12.95	109.3	128.7	308.3	1902	37.8	8.1	598	2.46	26.0	2.7	116.1	6.8	59.4	2.20	5.26	6.20	39	0.69	0.077
STD DS8	Standard	12.61	108.9	126.8	324.2	1762	36.7	7.3	592	2.54	29.4	2.7	114.1	6.4	65.0	2.41	5.78	6.44	41	0.69	0.083
STD DS8	Standard	12.38	108.1	123.6	311.4	1785	35.5	7.4	587	2.42	26.2	2.7	112.9	6.2	58.4	2.35	5.35	6.79	39	0.68	0.078
STD DS8	Standard	11.87	111.0	125.6	315.4	1824	37.6	7.4	587	2.43	26.7	2.6	113.4	5.9	58.7	2.34	5.32	6.42	40	0.66	0.076
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001191.2

		1F15 La ppm	1F15 Cr ppm	1F15 Mg %	1F15 Ba ppm	1F15 Ti %	1F15 B ppm	1F15 Al %	1F15 Na %	1F15 K %	1F15 W ppm	1F15 Sc ppm	1F15 Ti ppm	1F15 S %	1F15 Hg ppb	1F15 Se ppm	1F15 Te ppm	1F15 Ga ppm	1F15 Cs ppm	1F15 Ge ppm	1F15 Hf ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1098774	Soil	9.9	27.2	0.41	150.6	0.011	4	1.50	0.004	0.07	0.1	3.0	0.14	<0.02	29	0.3	0.02	4.7	1.76	<0.1	<0.02
REP 1098774	QC	9.8	26.6	0.40	149.5	0.011	3	1.46	0.004	0.07	0.2	3.1	0.14	<0.02	30	0.3	0.04	4.7	1.78	<0.1	<0.02
1098279	Soil	7.9	18.0	0.23	116.4	0.003	5	1.10	0.004	0.18	<0.1	2.5	0.13	0.08	32	0.7	0.14	3.3	3.81	<0.1	0.04
REP 1098279	QC	8.3	19.2	0.24	123.4	0.005	8	1.14	0.004	0.21	<0.1	2.8	0.15	0.08	23	0.7	0.13	3.4	4.96	<0.1	0.07
1098285	Soil	2.4	21.6	0.33	189.9	0.009	3	1.06	0.002	0.15	<0.1	2.5	0.10	<0.02	11	<0.1	<0.02	3.3	2.93	<0.1	0.05
REP 1098285	QC	2.6	22.2	0.39	200.5	0.010	3	1.14	0.002	0.16	<0.1	2.7	0.10	<0.02	35	0.1	<0.02	3.4	3.08	<0.1	0.03
Reference Materials																					
STD DS8	Standard	14.9	118.0	0.59	272.0	0.117	2	0.91	0.095	0.42	3.0	2.3	5.35	0.16	189	4.9	4.92	4.3	2.44	<0.1	0.07
STD DS8	Standard	15.6	115.2	0.57	257.9	0.114	2	0.89	0.094	0.40	3.0	2.2	5.04	0.15	199	4.7	4.68	4.2	2.28	0.2	0.09
STD DS8	Standard	15.4	118.9	0.59	242.8	0.117	2	0.93	0.100	0.41	3.0	2.4	5.27	0.15	196	4.8	4.98	4.7	2.46	0.1	0.08
STD DS8	Standard	13.2	122.6	0.60	259.3	0.110	2	0.96	0.104	0.43	2.9	2.1	5.19	0.16	200	4.6	4.25	4.3	2.21	<0.1	0.06
STD DS8	Standard	13.7	118.2	0.59	233.9	0.094	2	0.92	0.092	0.42	2.6	2.0	5.69	0.16	184	5.1	5.09	4.7	2.46	<0.1	0.06
STD DS8	Standard	15.9	117.7	0.62	244.8	0.103	3	1.00	0.112	0.44	2.5	2.3	5.26	0.16	192	4.9	4.67	4.6	2.36	<0.1	0.06
STD DS8	Standard	14.2	124.3	0.62	281.9	0.109	2	0.98	0.098	0.43	3.2	2.1	5.64	0.16	210	5.7	5.19	4.8	2.49	0.1	0.08
STD DS8	Standard	14.9	121.0	0.60	272.8	0.115	2	0.96	0.111	0.43	3.5	2.1	5.48	0.15	178	5.1	5.28	4.4	2.43	0.2	0.09
STD DS8	Standard	13.8	125.0	0.60	258.2	0.109	2	0.96	0.110	0.43	3.2	2.4	5.86	0.15	186	5.2	5.26	4.6	2.54	<0.1	0.07
STD DS8	Standard	14.1	118.5	0.61	289.9	0.106	3	0.94	0.097	0.43	2.9	2.1	5.52	0.16	209	5.4	5.09	5.0	2.56	<0.1	0.07
STD DS8	Standard	14.0	116.2	0.60	254.7	0.099	2	0.93	0.099	0.43	3.0	2.1	5.60	0.16	201	5.1	5.05	4.6	2.51	<0.1	0.07
STD DS8	Standard	11.8	120.7	0.61	239.1	0.096	3	0.88	0.087	0.43	3.0	2.0	5.45	0.16	206	5.3	4.86	4.3	2.40	<0.1	0.05
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 2 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001191.2

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
1098774	Soil	0.45	11.9	2.6	<0.05	0.4	5.77	23.7	0.04	<1	0.8	31.5	<10	<2
REP 1098774	QC	0.44	11.8	2.5	<0.05	0.4	5.86	25.2	0.04	2	0.8	31.4	<10	<2
1098279	Soil	0.18	16.9	1.0	<0.05	1.2	9.31	22.3	0.04	<1	1.2	15.9	<10	<2
REP 1098279	QC	0.18	19.5	1.2	<0.05	0.9	9.50	22.7	0.04	<1	1.2	15.9	<10	<2
1098285	Soil	0.12	13.7	1.1	<0.05	1.9	8.44	7.1	<0.02	<1	1.9	21.5	<10	<2
REP 1098285	QC	0.13	14.5	1.0	<0.05	1.9	8.86	7.6	0.03	<1	1.7	22.7	<10	3
Reference Materials														
STD DS8	Standard	1.28	36.9	6.6	<0.05	1.8	5.61	26.5	2.10	51	4.4	26.1	125	346
STD DS8	Standard	1.29	34.3	6.1	<0.05	1.9	6.10	27.9	2.06	53	5.7	23.6	119	333
STD DS8	Standard	1.54	37.8	5.8	<0.05	1.7	6.33	28.4	2.14	47	5.0	24.9	116	319
STD DS8	Standard	1.23	34.5	5.9	<0.05	1.6	5.01	24.6	1.77	47	4.9	28.1	119	339
STD DS8	Standard	1.22	39.1	6.6	<0.05	1.5	5.16	24.8	2.20	56	5.0	27.4	107	362
STD DS8	Standard	1.32	36.0	6.2	<0.05	1.3	5.82	29.6	2.04	52	5.0	27.1	112	347
STD DS8	Standard	1.42	39.0	6.5	<0.05	2.0	5.97	27.9	2.15	59	5.2	27.1	115	357
STD DS8	Standard	1.50	37.0	6.4	<0.05	2.2	5.84	28.1	2.20	48	4.2	25.4	110	364
STD DS8	Standard	1.38	39.4	6.1	<0.05	1.7	5.94	26.9	2.20	61	5.1	26.1	122	373
STD DS8	Standard	1.20	39.1	6.9	<0.05	1.6	5.74	25.6	2.24	50	5.2	30.5	110	349
STD DS8	Standard	1.10	39.2	6.4	<0.05	1.2	5.42	24.2	2.31	65	5.0	27.0	105	341
STD DS8	Standard	1.07	37.5	6.6	<0.05	1.4	4.87	20.7	2.16	49	5.4	26.7	113	366
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: Radius Gold Inc.
Suite 650 - 200 Burrard Street
Vancouver BC V6C 3L6 Canada

Project: Scarlet

Report Date: December 16, 2011

Page: 3 of 3 **Part** 1

QUALITY CONTROL REPORT

WHI11001191.2

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

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 Report Date: December 16, 2011

Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001191.2

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: Radius Gold Inc.
Suite 650 - 200 Burrard Street
Vancouver BC V6C 3L6 Canada

Project: Scarlet

Report Date: December 16, 2011

Page: 3 of 3 **Part** 3

QUALITY CONTROL REPORT

WHI11001191.2

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10



Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 20, 2011
Report Date: September 25, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001192.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-22
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			WHI
1F05	320	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
RJSV	320	Saving all or part of Soil Reject			WHI

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: David Clark
database backup
Simon Ridgway
Scott Turton



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1098431	Soil	1.31	16.33	10.83	130.7	38	40.7	5.7	294	1.12	22.0	3.6	0.8	0.7	74.9	0.85	0.20	0.08	29	17.63	0.090
1098432	Soil	2.31	19.20	15.46	188.0	50	63.0	7.3	380	1.47	29.6	4.5	0.7	2.0	66.2	1.13	1.03	0.15	40	13.74	0.096
1098433	Soil	1.69	9.82	8.23	99.6	25	34.7	4.4	207	0.77	25.8	3.0	0.4	1.8	74.6	0.66	0.57	0.08	23	23.21	0.045
1098434	Soil	3.53	19.82	19.12	93.3	240	30.8	7.8	362	2.04	30.5	23.7	0.9	0.6	37.7	0.43	0.97	0.14	55	2.62	0.200
1098435	Soil	6.28	29.54	27.10	163.8	273	39.5	14.0	169	3.30	29.6	4.8	0.6	3.5	38.4	0.48	1.68	0.18	35	0.85	0.079
1098436	Soil	5.75	25.36	33.54	183.5	296	37.9	11.7	350	2.66	35.4	4.4	1.3	2.8	61.3	0.92	1.78	0.15	36	6.71	0.135
1098437	Soil	2.99	20.34	21.28	107.1	142	26.5	10.1	286	2.57	21.8	3.7	0.8	0.8	86.4	0.39	0.65	0.15	31	2.57	0.164
1098438	Soil	2.63	15.13	15.56	67.0	80	22.1	8.0	226	1.86	19.5	6.4	0.4	1.2	52.9	0.32	0.63	0.09	36	10.67	0.181
1098439	Soil	2.00	18.70	18.18	101.1	68	39.4	14.9	347	2.97	6.8	1.0	<0.2	2.5	209.6	0.16	0.27	0.15	16	3.98	0.088
1098440	Soil	2.05	14.81	15.73	67.9	65	25.5	9.7	260	2.07	9.0	1.5	0.9	1.8	262.0	0.17	0.37	0.12	21	9.59	0.083
1097918	Soil	1.16	30.58	40.91	100.2	58	32.3	16.8	367	3.57	17.7	0.7	0.8	0.9	11.0	0.20	0.73	0.32	27	0.06	0.036
1097919	Soil	0.54	33.30	44.60	93.8	86	21.5	14.1	665	3.28	6.3	0.5	0.8	1.3	7.0	0.12	0.29	0.41	20	0.09	0.053
1097920	Soil	1.14	26.28	35.21	86.4	232	28.4	13.4	562	3.57	10.4	1.0	1.6	0.7	11.5	0.28	0.76	0.30	32	0.11	0.055
1097921	Soil	1.23	23.76	27.50	112.7	176	30.5	13.7	564	3.63	11.3	0.7	2.2	0.4	11.6	0.27	0.76	0.30	37	0.09	0.055
1097922	Soil	1.10	15.33	16.75	70.1	108	19.1	6.6	226	2.64	8.3	0.6	3.2	0.3	9.9	0.16	0.62	0.23	40	0.07	0.033
1097923	Soil	0.72	34.61	37.92	132.4	179	56.0	22.7	618	4.20	7.7	0.7	0.9	5.8	27.3	0.09	0.34	0.33	17	0.42	0.061
1097924	Soil	0.53	22.53	43.64	79.4	169	13.7	4.6	107	5.59	6.2	0.5	0.8	4.6	9.6	0.02	0.25	0.64	13	0.05	0.068
1097925	Soil	1.46	78.50	142.6	191.4	406	164.7	215.4	8260	14.72	23.0	5.6	3.4	10.2	25.8	0.36	0.81	0.70	27	0.03	0.158
1097926	Soil	0.52	27.79	32.00	130.5	226	36.4	14.3	668	4.22	7.9	0.6	2.0	6.9	37.4	0.16	0.27	0.43	15	0.39	0.053
1097927	Soil	0.68	26.86	34.80	138.1	221	35.1	16.4	742	3.65	7.2	1.3	1.8	3.3	53.9	0.24	0.35	0.39	16	0.63	0.095
1097928	Soil	0.49	19.94	34.48	79.5	124	26.9	10.1	476	3.75	6.4	0.7	3.8	3.9	22.1	0.09	0.26	0.39	15	0.32	0.040
1097929	Soil	0.49	15.53	27.80	69.5	160	21.7	7.2	321	2.23	7.2	0.7	1.4	2.6	35.1	0.14	0.46	0.28	12	0.90	0.063
1097930	Soil	0.67	23.48	44.86	140.4	284	25.2	9.0	792	3.20	28.5	1.8	2.9	2.2	61.6	0.30	1.75	0.23	18	5.08	0.116
1097931	Soil	0.40	16.19	38.39	103.9	204	16.2	7.9	2634	4.37	85.9	1.4	2.4	1.1	35.4	0.48	3.55	0.15	12	8.86	0.138
1097932	Soil	0.96	19.14	78.19	56.5	155	23.0	11.6	1708	4.06	37.9	1.1	2.3	2.5	34.7	0.18	2.72	0.26	20	6.11	0.101
1097933	Soil	0.42	13.78	16.34	138.3	72	13.6	7.3	583	2.69	10.1	0.8	0.7	1.3	17.9	0.44	0.22	0.29	21	1.31	0.121
1097934	Soil	0.53	22.20	28.38	68.3	89	22.0	10.1	341	3.47	6.5	0.6	0.9	3.3	17.0	0.10	0.23	0.37	26	0.29	0.044
1097935	Soil	0.70	27.42	38.56	83.8	129	22.3	12.5	730	4.44	7.9	0.9	1.0	3.2	19.4	0.11	0.33	0.40	31	0.27	0.055
1097936	Soil	0.76	18.50	21.34	62.3	126	12.6	6.5	272	3.54	5.4	0.4	0.5	2.1	5.4	0.14	0.35	0.42	41	0.04	0.043
1097937	Soil	0.59	23.44	28.41	76.3	97	28.1	15.2	613	3.83	7.8	0.6	2.2	4.7	6.6	0.11	0.80	0.32	29	0.06	0.040



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1098431	Soil	12.0	7.6	6.83	86.2	0.003	2	0.49	0.006	0.04	<0.1	1.4	0.45	<0.02	47	0.4	0.02	1.4	0.41	<0.1	0.04
1098432	Soil	14.2	10.9	5.41	94.8	0.006	3	0.92	0.006	0.08	<0.1	2.4	0.74	<0.02	86	0.2	0.09	2.0	1.34	<0.1	0.13
1098433	Soil	7.9	5.2	6.22	55.8	0.005	1	0.33	0.007	0.05	<0.1	1.5	0.49	<0.02	43	0.1	0.09	0.9	1.16	<0.1	0.07
1098434	Soil	11.2	15.4	0.49	292.0	0.004	7	1.03	0.007	0.08	<0.1	1.5	0.48	0.22	125	1.0	<0.02	2.5	0.98	<0.1	0.10
1098435	Soil	14.5	16.7	0.31	218.9	0.002	8	0.86	0.003	0.21	<0.1	6.7	0.50	0.09	52	1.0	<0.02	2.6	2.00	<0.1	0.16
1098436	Soil	11.5	15.0	3.00	107.6	0.003	9	0.65	0.006	0.19	<0.1	4.2	0.57	0.08	76	1.1	<0.02	2.0	1.88	<0.1	0.07
1098437	Soil	16.0	17.0	0.53	190.8	0.003	10	0.97	0.004	0.13	<0.1	2.4	0.27	0.14	57	0.7	<0.02	2.7	0.86	<0.1	0.08
1098438	Soil	11.9	13.8	4.78	80.0	0.005	7	0.82	0.008	0.14	<0.1	2.9	0.29	0.03	32	0.4	<0.02	2.1	1.09	<0.1	0.06
1098439	Soil	22.8	18.0	0.41	88.1	0.003	11	0.82	0.005	0.27	<0.1	5.5	0.29	0.05	49	0.4	0.05	2.2	2.59	<0.1	0.11
1098440	Soil	12.8	14.5	1.94	79.7	0.006	6	0.73	0.007	0.18	<0.1	3.2	0.22	0.03	46	0.3	0.03	1.8	1.48	<0.1	0.08
1097918	Soil	6.3	22.5	0.29	93.6	0.009	2	1.46	0.017	0.08	<0.1	2.3	0.11	0.08	30	0.4	0.08	3.3	2.54	<0.1	<0.02
1097919	Soil	3.0	19.9	0.27	67.2	0.002	3	1.53	0.004	0.10	<0.1	2.1	0.08	0.03	32	0.3	0.05	3.6	2.94	<0.1	0.08
1097920	Soil	10.9	26.9	0.35	130.1	0.010	2	1.52	0.003	0.08	0.1	2.1	0.11	0.03	41	0.3	0.06	3.8	1.80	<0.1	0.02
1097921	Soil	8.0	25.4	0.31	123.7	0.010	2	1.40	0.005	0.09	0.1	1.3	0.11	0.03	32	0.4	0.06	4.2	1.79	<0.1	<0.02
1097922	Soil	9.1	22.5	0.28	93.9	0.015	2	1.20	0.004	0.07	0.1	1.2	0.09	<0.02	23	0.3	0.03	4.3	1.72	<0.1	<0.02
1097923	Soil	7.4	16.4	0.20	157.6	0.003	2	1.08	0.004	0.09	<0.1	6.3	0.13	<0.02	47	0.4	0.04	2.3	2.02	<0.1	0.04
1097924	Soil	2.2	13.7	0.03	47.4	<0.001	2	0.49	0.006	0.08	<0.1	3.9	0.15	0.03	40	0.5	0.08	2.6	3.06	<0.1	<0.02
1097925	Soil	2.9	39.7	0.06	142.2	<0.001	3	1.84	0.004	0.07	<0.1	10.5	0.76	0.16	63	1.4	0.08	5.5	3.72	<0.1	0.15
1097926	Soil	10.8	17.1	0.31	233.9	0.003	3	1.22	0.004	0.09	<0.1	7.5	0.17	<0.02	39	0.3	0.02	3.5	2.30	<0.1	0.06
1097927	Soil	6.9	17.7	0.22	107.5	0.003	3	1.16	0.005	0.09	<0.1	4.6	0.15	0.05	40	0.4	0.03	3.1	2.43	<0.1	0.05
1097928	Soil	9.7	14.4	0.17	132.2	0.002	3	0.93	0.004	0.12	<0.1	4.9	0.16	0.03	91	0.1	0.03	2.6	1.47	<0.1	0.05
1097929	Soil	10.2	10.2	0.24	89.4	0.003	4	0.63	0.005	0.10	<0.1	3.0	0.11	0.05	178	0.2	0.02	1.9	0.60	<0.1	0.07
1097930	Soil	9.5	13.8	2.35	69.8	0.004	3	0.91	0.009	0.07	<0.1	2.6	0.11	0.04	474	0.4	0.07	2.3	0.41	<0.1	0.06
1097931	Soil	7.7	11.4	4.31	85.7	0.002	4	0.88	0.010	0.05	<0.1	1.6	0.24	0.03	616	0.3	0.06	2.0	0.26	<0.1	0.06
1097932	Soil	8.5	16.7	3.32	104.4	0.002	4	1.28	0.007	0.08	<0.1	3.1	0.21	0.02	156	0.3	0.05	3.2	0.38	<0.1	0.10
1097933	Soil	4.8	16.0	0.33	162.4	0.002	2	1.27	0.006	0.09	<0.1	2.4	0.09	0.09	54	0.1	0.02	4.0	0.45	<0.1	0.07
1097934	Soil	6.2	28.9	0.34	216.8	0.003	2	1.52	0.004	0.17	<0.1	3.2	0.12	0.05	22	<0.1	0.02	6.1	1.51	<0.1	<0.02
1097935	Soil	8.4	33.6	0.44	123.6	0.002	1	2.05	0.004	0.10	0.1	3.1	0.12	0.04	28	0.1	0.03	6.6	1.90	<0.1	0.04
1097936	Soil	6.1	23.5	0.19	84.9	0.003	<1	1.52	0.003	0.10	<0.1	1.9	0.09	<0.02	17	0.1	0.03	8.0	1.09	<0.1	<0.02
1097937	Soil	7.7	27.9	0.42	77.2	0.003	2	1.82	0.002	0.07	<0.1	3.1	0.11	<0.02	72	0.1	<0.02	5.0	1.74	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 2 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1098431	Soil	0.25	2.5	0.6	<0.05	2.1	17.61	18.7	<0.02	<1	0.6	3.7	<10	<2
1098432	Soil	0.39	5.3	2.1	<0.05	4.5	19.90	24.7	<0.02	<1	0.8	5.5	<10	<2
1098433	Soil	0.13	2.9	0.9	<0.05	4.4	9.98	14.1	<0.02	<1	0.4	2.7	<10	<2
1098434	Soil	0.41	7.7	2.4	<0.05	3.1	13.37	19.8	0.04	<1	0.8	6.5	<10	<2
1098435	Soil	0.31	13.6	2.3	<0.05	4.7	17.54	27.2	0.04	1	1.1	9.1	17	<2
1098436	Soil	0.17	9.3	2.0	<0.05	2.7	14.23	24.4	<0.02	<1	0.6	6.3	<10	<2
1098437	Soil	0.33	10.1	1.3	<0.05	2.4	13.72	30.3	<0.02	<1	0.9	7.9	<10	<2
1098438	Soil	0.22	8.3	2.8	<0.05	1.8	11.70	21.8	<0.02	<1	0.4	7.2	<10	<2
1098439	Soil	0.37	15.8	1.5	<0.05	4.6	14.29	47.4	0.05	<1	1.5	7.5	<10	<2
1098440	Soil	0.29	9.3	2.2	<0.05	2.5	10.35	26.5	<0.02	<1	0.8	6.6	<10	<2
1097918	Soil	0.26	8.1	2.6	<0.05	0.3	3.91	14.1	0.03	<1	1.1	31.9	<10	<2
1097919	Soil	0.14	9.6	3.0	<0.05	2.3	3.78	6.5	0.04	<1	0.9	39.7	<10	<2
1097920	Soil	0.29	10.6	5.1	<0.05	0.2	9.31	26.0	0.03	<1	0.8	23.9	<10	<2
1097921	Soil	0.26	10.5	0.9	<0.05	0.1	3.74	20.9	0.03	<1	0.8	22.9	<10	<2
1097922	Soil	0.31	11.4	1.8	<0.05	<0.1	2.91	19.5	0.03	<1	0.4	17.2	<10	<2
1097923	Soil	0.08	7.4	1.3	<0.05	1.1	18.02	20.2	0.04	<1	1.5	19.7	<10	<2
1097924	Soil	0.03	8.9	2.9	<0.05	0.4	4.01	5.3	0.07	<1	0.4	4.5	<10	<2
1097925	Soil	0.07	8.5	2.8	<0.05	9.4	5.18	17.3	0.15	1	2.4	67.0	<10	<2
1097926	Soil	0.16	9.8	1.2	<0.05	2.8	20.22	26.8	0.06	<1	1.3	30.9	<10	<2
1097927	Soil	0.23	10.2	2.4	<0.05	2.6	13.54	19.3	0.04	<1	1.3	26.2	<10	<2
1097928	Soil	0.22	12.8	3.3	<0.05	2.3	13.72	25.3	0.04	<1	1.2	10.8	<10	<2
1097929	Soil	0.23	6.8	3.7	<0.05	2.3	11.81	27.9	0.03	<1	0.8	7.1	<10	<2
1097930	Soil	0.31	4.4	3.0	<0.05	2.4	12.39	20.5	0.03	<1	0.7	8.1	<10	<2
1097931	Soil	0.12	3.6	5.0	<0.05	2.0	13.03	16.9	<0.02	<1	0.6	5.9	<10	<2
1097932	Soil	0.19	5.4	3.2	<0.05	3.2	11.14	19.0	0.03	<1	1.0	11.6	<10	<2
1097933	Soil	0.36	10.2	1.9	<0.05	2.0	5.68	10.5	0.03	<1	0.8	6.3	<10	<2
1097934	Soil	0.46	17.9	5.3	<0.05	0.8	4.62	18.0	0.03	<1	1.1	23.4	<10	<2
1097935	Soil	0.41	15.3	2.6	<0.05	1.2	5.00	21.4	0.04	<1	1.1	41.5	<10	<2
1097936	Soil	0.41	14.1	4.0	<0.05	0.5	2.73	14.2	0.04	<1	0.8	16.0	<10	<2
1097937	Soil	0.32	10.7	2.1	<0.05	2.1	4.58	21.3	0.04	<1	1.2	38.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 25, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method Analyte Unit MDL	1F15 Mo ppm	1F15 Cu ppm	1F15 Pb ppm	1F15 Zn ppm	1F15 Ag ppb	1F15 Ni ppm	1F15 Co ppm	1F15 Mn ppm	1F15 Fe %	1F15 As ppm	1F15 U ppm	1F15 Au ppb	1F15 Th ppm	1F15 Sr ppm	1F15 Cd ppm	1F15 Sb ppm	1F15 Bi ppm	1F15 V ppm	1F15 Ca %	1F15 P %	
1097938	Soil	0.71	25.28	30.85	79.8	176	23.1	15.1	1825	4.04	5.1	0.7	1.2	3.5	8.0	0.11	0.36	0.36	37	0.08	0.049
1097939	Soil	0.61	35.64	58.37	91.4	80	25.2	18.8	648	3.72	14.7	0.9	1.0	4.2	8.1	0.06	0.34	0.39	15	0.03	0.033
1097940	Soil	0.59	31.54	44.84	106.0	174	25.9	13.7	494	4.16	6.2	0.5	0.6	3.5	10.6	0.07	0.33	0.43	14	0.10	0.057
1097941	Soil	1.05	39.61	73.00	58.5	252	7.8	3.8	95	9.02	16.0	0.5	1.0	6.0	28.0	0.03	0.46	0.61	24	0.05	0.080
1097942	Soil	0.92	35.45	56.50	71.8	123	15.2	8.2	291	5.62	12.5	0.7	1.1	5.0	11.0	0.06	0.52	0.57	22	0.03	0.066
1097943	Soil	0.46	25.25	43.08	62.5	100	11.4	3.0	81	4.47	8.4	0.7	0.8	5.3	6.8	0.02	0.33	0.41	16	<0.01	0.071
1097944	Soil	1.08	27.60	67.65	56.4	534	6.1	2.0	51	7.38	14.7	0.5	1.1	7.0	13.5	0.02	0.58	0.60	27	<0.01	0.109
1097945	Soil	0.74	38.83	74.13	82.7	242	11.2	6.0	167	7.65	15.1	1.1	1.1	7.4	14.6	0.03	0.48	0.52	22	0.01	0.091
1097946	Soil	0.74	72.12	61.71	174.0	178	60.9	21.6	282	9.47	10.2	1.7	0.7	8.1	6.2	0.05	0.38	0.51	20	0.02	0.057
1097947	Soil	0.79	24.41	43.92	59.1	574	8.4	2.9	80	4.68	7.7	0.6	1.8	2.6	9.2	0.05	0.39	0.51	20	0.02	0.063
1097948	Soil	1.00	28.83	33.15	154.5	120	35.1	13.3	429	5.28	7.6	0.9	0.8	3.3	5.0	0.20	0.40	0.38	21	0.02	0.065
1097949	Soil	0.98	24.03	27.19	114.3	242	31.3	12.2	376	4.24	7.7	0.5	0.9	4.5	7.0	0.21	0.49	0.36	27	0.02	0.027
1097950	Soil	0.69	24.01	27.82	101.9	76	30.5	12.6	402	3.70	7.6	0.7	1.6	6.9	24.6	0.12	0.43	0.40	23	0.20	0.038
1097951	Soil	0.75	38.85	42.65	86.9	122	25.0	13.4	357	4.40	10.9	1.1	1.4	4.4	21.1	0.12	0.51	0.38	20	0.09	0.037
1097952	Soil	0.58	31.97	41.23	138.9	254	40.4	16.7	784	4.20	8.3	0.7	1.2	6.2	42.2	0.13	0.30	0.44	16	0.61	0.048
1098441	Soil	1.69	16.26	14.94	78.4	62	26.3	10.4	318	2.83	6.3	0.8	0.5	1.9	82.2	0.15	0.27	0.18	22	1.82	0.071
1098442	Soil	1.27	15.66	13.94	75.7	49	24.5	10.1	269	2.67	3.9	0.6	0.4	1.7	261.2	0.17	0.20	0.15	17	6.21	0.083
1098443	Soil	2.27	12.84	19.98	98.9	93	23.3	8.2	332	2.42	11.3	2.0	0.6	1.3	47.7	0.61	0.54	0.16	43	7.13	0.109
1098444	Soil	2.19	10.40	14.49	82.5	81	18.5	6.7	428	1.79	8.8	2.2	1.0	0.8	48.3	0.58	0.46	0.11	31	9.55	0.113
1098445	Soil	4.83	14.68	14.50	72.3	91	24.1	8.3	319	2.06	19.2	5.5	0.6	2.2	154.5	0.26	0.55	0.10	30	12.91	0.176
1098446	Soil	0.62	14.46	13.42	49.5	121	16.4	7.0	196	1.85	3.2	0.9	0.7	2.5	22.0	0.09	0.28	0.16	16	0.55	0.076
1098447	Soil	0.48	17.05	12.39	56.0	90	20.3	8.3	254	2.07	4.6	0.5	0.5	4.1	17.2	0.09	0.30	0.19	16	0.65	0.039
1098448	Soil	1.19	13.88	29.53	548.1	217	15.1	5.9	563	1.98	11.5	0.8	2.0	0.9	28.2	0.83	0.62	0.18	20	5.07	0.117
1098449	Soil	32.26	9.48	157.0	641.6	242	16.5	5.0	923	1.48	56.2	7.7	3.3	1.4	1639	0.59	3.83	0.12	9	13.26	0.206
1098450	Soil	1.71	8.28	128.5	1603	154	12.5	5.9	2098	2.32	14.6	1.4	3.0	0.6	37.2	3.89	1.18	0.17	21	6.79	0.111
1098155	Soil	0.96	34.34	75.20	93.1	166	32.6	34.0	1206	3.62	26.8	1.3	1.2	2.3	31.6	0.07	0.51	0.37	16	0.33	0.085
1098156	Soil	0.75	26.97	50.73	110.3	69	24.9	12.2	480	4.50	6.9	0.6	1.2	2.7	16.2	0.09	0.39	0.44	20	0.04	0.071
1098157	Soil	0.83	46.71	70.33	110.6	64	19.9	6.7	122	10.84	25.6	0.5	0.8	3.1	14.1	0.03	0.63	0.51	25	0.08	0.069
1098158	Soil	0.38	20.21	33.09	70.3	85	17.5	6.7	538	4.90	13.9	0.7	0.4	1.4	58.8	0.05	0.30	0.42	17	0.39	0.162
1098159	Soil	0.86	62.57	86.45	104.9	327	13.8	6.3	168	9.96	15.9	1.1	1.1	8.4	9.7	0.05	0.55	0.49	26	0.02	0.067



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097938	Soil	8.5	30.1	0.30	176.7	0.003	1	1.96	0.003	0.12	<0.1	3.4	0.13	<0.02	27	0.2	0.03	7.0	2.73	<0.1	0.04
1097939	Soil	3.0	15.9	0.24	92.6	0.001	3	1.10	0.003	0.09	<0.1	5.1	0.13	<0.02	11	<0.1	0.06	2.9	5.81	<0.1	0.04
1097940	Soil	2.0	14.4	0.20	77.5	<0.001	2	1.05	0.002	0.07	<0.1	4.2	0.14	<0.02	13	<0.1	0.02	3.1	3.13	<0.1	0.05
1097941	Soil	2.1	25.0	0.12	69.8	0.002	2	1.03	0.002	0.07	<0.1	3.4	0.38	0.04	45	0.9	0.07	5.1	3.75	<0.1	0.07
1097942	Soil	3.0	24.7	0.18	73.7	0.002	2	1.41	0.002	0.09	<0.1	4.3	0.28	0.03	9	0.4	0.08	4.4	4.89	<0.1	0.07
1097943	Soil	3.0	16.0	0.12	45.2	0.001	1	1.21	0.002	0.08	<0.1	4.1	0.18	0.05	12	0.3	0.05	3.0	3.11	<0.1	0.06
1097944	Soil	2.8	27.4	0.09	81.5	0.001	2	0.91	0.006	0.09	<0.1	3.7	0.68	0.07	38	1.0	0.08	5.3	5.18	<0.1	0.07
1097945	Soil	2.8	28.4	0.12	76.1	0.001	2	1.25	0.004	0.09	<0.1	5.7	0.34	0.08	33	0.5	0.04	4.8	5.69	<0.1	0.09
1097946	Soil	2.3	34.1	0.10	72.0	0.001	2	1.58	0.002	0.07	<0.1	8.4	0.47	0.06	31	0.7	0.05	4.9	3.60	<0.1	0.15
1097947	Soil	2.9	20.0	0.13	62.7	0.001	2	1.11	0.004	0.09	<0.1	2.5	0.27	0.03	38	0.5	0.04	4.2	3.35	<0.1	0.02
1097948	Soil	4.1	18.0	0.19	82.8	0.003	2	1.85	0.002	0.07	<0.1	3.5	0.14	0.04	45	0.5	<0.02	4.0	2.78	<0.1	0.06
1097949	Soil	5.2	19.3	0.28	76.2	0.003	2	1.47	0.003	0.07	<0.1	3.2	0.19	<0.02	22	0.3	<0.02	4.4	1.92	<0.1	0.04
1097950	Soil	11.0	20.1	0.29	145.9	0.004	2	1.43	0.003	0.09	<0.1	4.4	0.15	<0.02	34	0.2	0.03	4.3	1.88	<0.1	0.04
1097951	Soil	5.3	18.8	0.22	118.8	0.003	1	1.11	0.006	0.07	<0.1	5.1	0.16	0.04	44	0.2	0.05	3.2	1.96	<0.1	0.03
1097952	Soil	10.0	18.7	0.29	145.5	0.004	3	1.20	0.005	0.11	<0.1	7.2	0.19	0.03	62	0.2	0.02	3.5	2.59	<0.1	0.05
1098441	Soil	18.4	18.6	0.40	154.1	0.003	10	1.14	0.004	0.21	<0.1	3.6	0.18	0.07	32	0.2	<0.02	3.2	1.17	<0.1	0.09
1098442	Soil	14.3	15.7	0.40	134.1	0.003	10	0.98	0.005	0.23	<0.1	3.3	0.16	0.04	25	0.2	<0.02	2.5	1.19	<0.1	0.07
1098443	Soil	16.2	19.6	3.64	96.6	0.007	5	1.14	0.006	0.13	<0.1	2.6	0.22	0.03	39	0.3	0.03	2.8	1.00	<0.1	0.05
1098444	Soil	12.2	15.6	4.48	74.8	0.005	6	0.83	0.008	0.10	<0.1	1.8	0.17	0.03	37	0.3	0.03	1.9	0.70	<0.1	0.03
1098445	Soil	10.3	13.1	3.54	109.4	0.003	9	0.68	0.008	0.21	<0.1	3.0	0.34	<0.02	34	0.4	<0.02	1.7	1.41	<0.1	0.04
1098446	Soil	20.7	15.0	0.31	84.5	0.005	7	0.81	0.003	0.17	<0.1	2.7	0.10	0.03	31	0.2	0.03	2.4	1.79	<0.1	0.06
1098447	Soil	20.5	15.7	0.28	60.3	0.005	5	0.74	0.004	0.20	<0.1	4.1	0.12	0.03	17	0.2	<0.02	2.6	1.79	<0.1	0.07
1098448	Soil	9.6	15.7	2.70	78.0	0.005	4	1.07	0.006	0.07	<0.1	1.7	0.37	0.05	181	0.2	<0.02	3.0	0.90	<0.1	0.05
1098449	Soil	4.6	9.0	6.62	132.6	<0.001	8	0.35	0.007	0.04	0.1	1.2	4.92	<0.02	2860	0.6	0.03	0.7	0.51	<0.1	0.05
1098450	Soil	7.9	14.5	3.55	74.5	0.007	5	0.95	0.006	0.05	<0.1	1.3	0.74	0.03	644	0.4	0.03	2.4	1.27	<0.1	0.03
1098155	Soil	4.8	16.0	0.25	245.6	0.002	4	1.22	0.005	0.11	<0.1	4.3	0.16	0.05	62	0.2	0.08	3.0	6.93	<0.1	0.09
1098156	Soil	3.3	16.5	0.15	81.8	0.001	2	1.25	0.005	0.10	<0.1	3.5	0.22	0.05	23	0.2	0.04	3.5	3.47	<0.1	0.06
1098157	Soil	2.1	28.9	0.09	91.4	<0.001	3	1.20	0.002	0.09	<0.1	2.5	0.16	0.04	26	0.6	0.06	4.9	4.77	<0.1	0.05
1098158	Soil	3.7	14.0	0.14	127.9	<0.001	3	1.29	0.010	0.12	<0.1	2.6	0.09	0.09	19	0.2	0.04	2.9	2.05	<0.1	0.09
1098159	Soil	3.0	37.5	0.17	102.7	0.002	3	1.53	0.002	0.10	<0.1	9.5	0.47	0.08	40	0.6	0.07	4.9	6.50	<0.1	0.10



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 25, 2011

Page: 3 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1097938	Soil	0.41	20.3	3.9	<0.05	1.1	4.26	23.8	0.04	<1	1.6	31.8	<10	<2
1097939	Soil	0.04	11.9	2.5	<0.05	3.0	6.88	8.0	0.06	<1	1.0	30.2	<10	<2
1097940	Soil	0.06	11.6	3.7	<0.05	1.5	6.82	6.8	0.05	<1	1.0	31.6	<10	<2
1097941	Soil	0.14	9.5	12.4	<0.05	4.5	2.11	5.9	0.09	<1	0.5	10.0	<10	<2
1097942	Soil	0.07	12.6	3.9	<0.05	5.1	3.76	8.3	0.07	<1	0.9	19.6	<10	<2
1097943	Soil	0.05	10.5	1.5	<0.05	4.7	3.25	8.5	0.04	<1	0.6	11.7	<10	<2
1097944	Soil	0.04	14.5	2.6	<0.05	6.1	1.99	7.6	0.09	1	0.5	6.7	<10	<2
1097945	Soil	0.04	12.2	5.1	<0.05	5.4	3.21	9.0	0.09	<1	0.6	13.6	<10	<2
1097946	Soil	0.02	9.0	4.1	<0.05	7.7	6.70	8.0	0.08	<1	1.0	10.7	<10	<2
1097947	Soil	0.08	11.9	2.0	<0.05	0.9	2.38	8.5	0.05	<1	0.5	12.7	<10	<2
1097948	Soil	0.35	11.0	2.3	<0.05	2.2	7.34	17.9	0.06	<1	1.8	29.5	<10	<2
1097949	Soil	0.28	13.6	1.5	<0.05	2.2	4.25	13.3	0.05	<1	0.7	30.1	<10	<2
1097950	Soil	0.20	12.3	2.3	<0.05	1.9	9.99	35.1	0.04	<1	1.1	25.9	<10	<2
1097951	Soil	0.16	7.5	2.0	<0.05	1.8	11.79	15.2	0.05	<1	1.1	21.9	<10	<2
1097952	Soil	0.14	11.4	5.5	<0.05	2.0	17.99	30.2	0.06	<1	1.2	32.4	<10	<2
1098441	Soil	0.42	15.4	1.0	<0.05	3.8	15.12	41.7	0.05	<1	1.2	9.9	<10	<2
1098442	Soil	0.32	13.6	1.3	<0.05	3.5	12.43	30.8	0.03	<1	1.1	8.3	<10	<2
1098443	Soil	0.30	10.6	1.5	<0.05	1.8	14.16	30.6	0.03	<1	0.8	8.7	<10	<2
1098444	Soil	0.28	8.2	1.9	<0.05	1.3	11.67	25.1	0.02	<1	0.6	6.2	<10	<2
1098445	Soil	0.16	11.1	1.4	<0.05	2.2	12.21	23.6	0.03	1	0.6	5.4	<10	<2
1098446	Soil	0.22	12.8	2.1	<0.05	2.0	12.87	39.2	<0.02	<1	0.6	9.1	<10	<2
1098447	Soil	0.24	14.3	1.8	<0.05	2.3	11.53	49.3	0.03	<1	0.7	9.6	<10	<2
1098448	Soil	0.26	7.9	1.6	<0.05	1.3	8.88	15.9	0.02	<1	0.8	13.4	<10	<2
1098449	Soil	0.03	2.2	1.7	<0.05	1.4	8.62	9.7	0.02	2	0.4	0.9	<10	<2
1098450	Soil	0.15	6.2	1.8	<0.05	0.6	7.66	16.3	0.03	<1	0.7	8.6	<10	<2
1098155	Soil	0.10	13.0	3.6	<0.05	3.6	14.16	13.1	0.05	<1	1.3	35.6	<10	<2
1098156	Soil	0.11	13.3	3.3	<0.05	2.1	5.21	9.2	0.06	<1	0.9	23.7	<10	<2
1098157	Soil	0.06	10.8	2.7	<0.05	1.9	2.66	5.2	0.10	<1	0.5	10.8	<10	<2
1098158	Soil	0.10	12.8	1.9	<0.05	2.8	7.35	8.9	0.04	<1	1.1	10.9	<10	<2
1098159	Soil	0.08	12.5	5.6	<0.05	5.0	3.15	9.3	0.13	<1	0.9	15.5	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1098160	Soil			0.65	42.09	98.83	116.2	121	22.3	10.4	262	6.04	13.1	1.3	1.2	4.8	76.3	0.05	0.51	0.48	19	0.09	0.071
1098161	Soil			0.98	26.86	33.75	78.9	84	17.8	5.6	154	4.26	11.7	0.6	1.0	3.5	10.4	0.10	0.61	0.38	32	0.04	0.036
1098162	Soil			0.93	27.89	33.59	78.1	104	16.6	5.1	142	4.54	11.7	0.6	1.1	3.4	10.6	0.08	0.63	0.43	32	0.04	0.040
1098163	Soil			1.00	18.20	22.48	80.8	194	10.9	4.5	208	3.16	7.3	0.5	1.3	1.0	8.0	0.10	0.56	0.32	32	0.03	0.050
1098164	Soil			0.58	26.76	40.00	53.4	167	9.9	2.6	79	3.77	6.3	0.7	0.9	3.5	6.7	0.04	0.36	0.52	21	0.01	0.044
1098165	Soil			0.70	23.38	37.92	136.9	114	38.6	16.7	596	4.48	6.6	0.7	0.8	3.2	7.9	0.15	0.40	0.42	21	0.04	0.061
1098166	Soil			0.66	18.59	27.19	103.0	120	22.3	10.3	558	3.78	6.0	0.6	0.7	1.4	6.8	0.18	0.34	0.38	21	0.04	0.065
1098167	Soil			0.66	19.32	30.24	100.2	137	22.1	11.7	661	4.22	6.8	0.6	0.7	0.9	6.7	0.16	0.42	0.48	25	0.04	0.075
1098168	Soil			0.49	17.12	27.82	106.8	58	26.7	12.1	510	3.59	6.4	0.8	1.0	4.3	21.1	0.10	0.31	0.33	19	0.23	0.047
1098169	Soil			0.35	19.26	26.25	106.7	154	27.6	8.9	415	3.49	6.6	0.8	0.5	2.9	53.8	0.11	0.23	0.37	13	1.12	0.064
1098170	Soil			0.72	16.87	27.47	100.2	38	25.8	9.7	348	2.94	12.5	0.9	1.1	3.0	12.0	0.11	0.99	0.22	33	0.17	0.048
1098171	Soil			0.61	19.92	34.52	95.0	194	23.4	8.9	649	2.54	13.9	1.6	2.8	3.7	33.3	0.14	1.29	0.22	20	3.62	0.121
1098172	Soil			0.65	19.89	39.35	170.5	307	25.2	9.6	3227	6.20	39.4	2.2	2.3	3.1	15.2	0.51	2.40	0.27	32	2.55	0.145
1098173	Soil			0.71	17.34	41.07	85.5	241	19.9	9.6	2536	3.90	19.9	1.3	2.0	2.9	32.4	0.20	1.61	0.24	27	6.56	0.123
1098174	Soil			0.63	14.14	56.39	306.4	164	17.3	9.5	2160	3.55	27.7	0.9	1.5	1.9	25.4	0.40	1.55	0.21	15	7.33	0.105
1098175	Soil			0.42	27.46	17.19	44.0	20	12.8	10.9	48	2.74	13.4	0.5	0.3	1.5	5.4	0.04	0.57	0.39	16	0.05	0.019
1098176	Soil			0.63	15.83	26.30	75.7	85	19.3	11.7	783	3.25	8.4	0.8	0.4	3.0	14.3	0.13	0.58	0.31	27	0.48	0.031
1098177	Soil			0.67	18.71	23.12	56.4	54	18.1	11.0	849	3.17	7.9	0.5	0.4	3.1	8.9	0.14	0.46	0.29	27	0.21	0.025
1098178	Soil			0.62	36.91	31.48	80.7	74	31.5	17.8	947	3.75	8.5	1.0	1.8	6.4	14.3	0.08	0.36	0.38	27	0.76	0.021
1098179	Soil			0.64	27.03	29.96	76.0	51	27.6	14.7	970	3.76	10.0	1.1	0.5	5.7	15.3	0.10	0.39	0.35	27	0.49	0.029
1098180	Soil			0.51	23.92	24.53	53.4	34	21.9	12.4	255	3.72	11.1	0.4	0.4	5.1	7.8	0.06	0.39	0.32	25	0.24	0.017
1098181	Soil			0.48	12.36	22.63	33.4	33	12.7	8.0	207	3.15	5.5	0.3	0.2	3.8	3.4	0.03	0.25	0.33	25	0.02	0.020
1098182	Soil			0.48	21.96	27.29	72.2	118	20.3	12.5	323	4.08	7.9	0.4	0.2	4.6	5.3	0.06	0.38	0.39	28	0.04	0.025
1098183	Soil			0.45	35.65	26.63	98.9	122	27.2	15.9	473	4.86	7.1	0.5	0.7	4.3	5.5	0.06	0.20	0.47	31	0.05	0.037
1098184	Soil			1.03	23.40	69.81	77.9	109	23.2	21.8	1361	4.03	24.5	1.0	0.9	1.4	17.7	0.06	0.61	0.39	18	0.16	0.095
1098185	Soil			0.79	25.88	48.31	97.3	86	24.7	19.5	841	3.64	11.1	0.8	0.4	1.7	11.9	0.10	0.48	0.40	23	0.06	0.070
1098186	Soil			0.64	37.47	50.87	116.2	159	33.2	18.2	482	4.38	6.1	0.6	0.8	7.2	12.6	0.09	0.31	0.37	14	0.11	0.045
1098187	Soil			0.61	27.12	41.59	82.2	178	22.0	13.0	459	3.24	4.4	0.6	0.9	2.9	11.8	0.10	0.25	0.30	13	0.17	0.061
1098188	Soil			0.56	29.20	40.93	78.4	146	15.2	8.6	421	4.21	11.7	0.6	0.8	1.9	16.3	0.10	0.40	0.37	18	0.06	0.077
1098189	Soil			0.99	26.74	47.11	50.3	307	9.8	4.3	123	4.42	12.1	0.5	1.8	2.5	11.8	0.06	0.45	0.50	16	0.03	0.044



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1098160	Soil	5.9	22.2	0.23	180.9	0.001	2	1.65	0.027	0.12	<0.1	7.6	0.14	0.15	28	0.1	0.10	3.8	5.78	<0.1	0.06
1098161	Soil	5.9	22.1	0.25	96.6	0.007	3	1.77	0.003	0.11	<0.1	3.2	0.11	0.04	18	0.3	0.07	4.1	3.71	<0.1	0.03
1098162	Soil	4.6	22.2	0.22	105.5	0.004	3	1.90	0.003	0.11	<0.1	3.3	0.11	0.04	13	0.3	0.07	4.4	4.17	<0.1	0.04
1098163	Soil	5.7	16.6	0.11	57.4	0.005	2	1.10	0.003	0.09	0.1	1.4	0.12	0.04	33	0.2	0.03	4.5	2.06	<0.1	<0.02
1098164	Soil	4.0	20.4	0.16	46.1	0.001	2	1.32	0.003	0.11	<0.1	3.5	0.20	0.03	16	0.3	0.04	4.5	5.87	<0.1	0.03
1098165	Soil	4.8	21.1	0.25	64.1	0.003	3	1.82	0.002	0.11	<0.1	3.7	0.15	0.03	42	0.4	0.03	4.1	3.69	<0.1	0.08
1098166	Soil	4.3	16.5	0.14	73.7	0.002	2	1.20	0.002	0.10	<0.1	1.5	0.13	0.04	25	0.3	0.02	4.0	1.74	<0.1	0.02
1098167	Soil	6.5	20.3	0.17	85.2	0.004	2	1.45	0.001	0.13	<0.1	1.3	0.14	0.04	32	0.3	0.03	4.9	2.02	<0.1	<0.02
1098168	Soil	11.3	18.3	0.26	120.7	0.004	3	1.30	0.003	0.11	<0.1	4.2	0.19	0.02	70	0.2	0.03	3.4	1.81	<0.1	0.05
1098169	Soil	12.0	15.2	0.23	136.7	0.002	5	1.03	0.003	0.13	<0.1	5.0	0.17	0.05	161	0.2	<0.02	3.0	1.34	<0.1	0.07
1098170	Soil	8.5	21.7	0.34	66.2	0.005	3	1.57	0.002	0.08	0.1	2.3	0.11	<0.02	35	0.1	0.05	3.8	1.00	<0.1	0.03
1098171	Soil	11.7	14.9	1.93	66.3	0.006	3	0.91	0.007	0.09	0.1	3.3	0.10	<0.02	187	0.3	0.05	2.4	0.68	<0.1	0.07
1098172	Soil	34.8	24.2	1.56	120.6	0.004	3	1.70	0.004	0.08	0.1	4.3	0.17	0.06	614	0.4	0.07	4.0	0.62	<0.1	0.13
1098173	Soil	14.0	22.7	3.48	115.4	0.003	2	1.64	0.006	0.08	<0.1	3.6	0.16	0.02	199	0.3	0.05	4.1	0.87	<0.1	0.09
1098174	Soil	8.0	14.2	3.62	95.6	0.003	3	0.89	0.007	0.08	<0.1	2.5	0.15	<0.02	415	0.2	0.04	2.1	0.62	<0.1	0.07
1098175	Soil	2.4	8.1	0.05	55.4	0.004	3	0.40	0.001	0.16	<0.1	2.3	0.10	<0.02	20	<0.1	0.06	1.9	2.18	<0.1	<0.02
1098176	Soil	9.6	21.3	0.21	101.6	0.005	3	1.28	0.001	0.24	<0.1	3.2	0.12	<0.02	29	0.1	0.06	4.2	0.63	<0.1	0.05
1098177	Soil	8.8	20.5	0.25	84.3	0.005	3	1.33	0.001	0.25	<0.1	2.5	0.11	<0.02	22	<0.1	0.04	4.3	0.57	<0.1	<0.02
1098178	Soil	13.5	27.6	0.48	120.4	0.002	4	1.67	0.002	0.33	<0.1	5.7	0.17	<0.02	35	<0.1	<0.02	5.9	1.33	<0.1	0.06
1098179	Soil	13.6	25.6	0.29	105.3	0.003	4	1.54	0.001	0.22	<0.1	5.0	0.15	<0.02	28	<0.1	0.03	5.3	1.27	<0.1	0.06
1098180	Soil	8.3	18.8	0.19	50.5	0.002	3	1.40	<0.001	0.18	<0.1	3.0	0.15	<0.02	23	<0.1	<0.02	4.7	1.19	<0.1	0.03
1098181	Soil	7.3	18.0	0.17	64.8	0.002	1	1.22	<0.001	0.21	<0.1	1.9	0.13	<0.02	15	<0.1	0.03	5.1	0.99	<0.1	0.03
1098182	Soil	8.0	22.7	0.21	90.5	0.002	2	1.51	<0.001	0.23	<0.1	2.8	0.14	<0.02	15	<0.1	0.03	5.6	1.26	<0.1	0.03
1098183	Soil	5.7	36.6	0.38	76.6	0.002	1	2.20	<0.001	0.12	<0.1	3.6	0.13	<0.02	22	<0.1	<0.02	7.8	2.49	<0.1	0.06
1098184	Soil	3.9	17.7	0.19	173.3	0.002	2	1.38	0.020	0.11	<0.1	3.2	0.24	0.12	29	0.2	0.06	3.3	7.11	<0.1	0.08
1098185	Soil	5.3	20.0	0.27	130.5	0.003	2	1.53	0.005	0.10	<0.1	2.5	0.13	0.05	12	0.2	0.07	3.9	5.27	<0.1	0.05
1098186	Soil	2.4	16.1	0.19	114.4	0.001	3	1.06	0.002	0.10	<0.1	7.2	0.32	<0.02	32	0.2	0.03	2.9	4.63	<0.1	0.07
1098187	Soil	2.5	16.1	0.18	118.5	0.001	3	1.03	0.003	0.10	<0.1	3.8	0.13	0.03	23	0.2	0.03	2.8	4.05	<0.1	0.04
1098188	Soil	3.1	16.1	0.14	69.2	0.001	2	1.34	0.005	0.10	<0.1	2.6	0.10	0.07	21	0.3	0.08	3.2	3.31	<0.1	0.08
1098189	Soil	2.3	22.0	0.14	78.5	0.001	2	0.83	0.004	0.07	<0.1	2.5	0.17	0.03	16	1.1	0.06	3.1	2.25	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 4 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1098160	Soil	0.04	12.5	8.3	<0.05	4.5	5.90	17.6	0.08	<1	1.2	30.7	<10	<2
1098161	Soil	0.30	13.9	1.6	<0.05	1.9	3.39	13.9	0.05	<1	0.9	26.9	<10	<2
1098162	Soil	0.25	16.0	2.0	<0.05	2.5	3.50	11.0	0.05	<1	0.9	28.6	<10	<2
1098163	Soil	0.34	14.2	2.3	<0.05	0.3	2.17	12.5	0.03	<1	0.4	8.2	<10	<2
1098164	Soil	0.11	15.8	2.7	<0.05	1.4	2.55	9.6	0.06	<1	0.6	17.1	<10	<2
1098165	Soil	0.28	13.8	3.1	<0.05	3.2	6.80	15.3	0.06	<1	1.2	37.5	<10	<2
1098166	Soil	0.21	12.4	2.7	<0.05	0.8	3.80	15.3	0.04	<1	0.8	15.9	<10	<2
1098167	Soil	0.29	15.9	2.0	<0.05	0.6	4.71	19.9	0.05	<1	1.2	20.1	<10	<2
1098168	Soil	0.29	11.7	2.5	<0.05	1.5	12.07	41.8	0.04	<1	1.2	24.4	<10	<2
1098169	Soil	0.28	11.2	1.6	<0.05	2.8	17.82	28.3	0.05	<1	1.3	20.5	<10	<2
1098170	Soil	0.30	7.8	0.7	<0.05	1.0	5.39	35.8	0.03	<1	0.9	17.7	<10	<2
1098171	Soil	0.24	5.9	3.5	<0.05	2.3	14.36	25.3	0.03	<1	0.6	9.0	<10	<2
1098172	Soil	0.27	9.2	1.0	<0.05	3.3	35.26	42.9	0.03	<1	1.1	9.7	<10	<2
1098173	Soil	0.26	9.2	2.8	<0.05	2.8	16.84	27.6	0.03	<1	1.2	12.1	<10	<2
1098174	Soil	0.15	5.5	6.0	<0.05	2.0	9.45	17.7	0.02	<1	0.5	6.7	<10	<2
1098175	Soil	0.16	12.8	3.2	<0.05	0.2	2.52	5.7	0.03	<1	0.4	1.1	<10	<2
1098176	Soil	0.40	16.1	4.2	<0.05	1.6	4.88	24.1	0.03	<1	0.9	8.2	<10	<2
1098177	Soil	0.44	14.0	2.7	<0.05	0.7	3.34	24.5	0.03	<1	0.9	12.8	<10	<2
1098178	Soil	0.28	19.0	5.1	<0.05	2.4	14.59	37.0	0.05	<1	1.4	18.4	<10	<2
1098179	Soil	0.27	19.1	2.1	<0.05	2.0	12.79	39.1	0.04	<1	1.3	17.2	<10	<2
1098180	Soil	0.27	16.7	1.0	<0.05	1.5	4.33	21.8	0.03	<1	0.7	12.0	<10	<2
1098181	Soil	0.36	19.7	1.3	<0.05	1.3	1.72	17.7	0.02	<1	0.6	10.6	<10	<2
1098182	Soil	0.28	20.4	1.5	<0.05	1.2	3.38	19.7	0.03	<1	1.0	22.8	<10	<2
1098183	Soil	0.21	16.0	5.3	<0.05	2.7	4.93	15.4	0.04	<1	1.2	32.3	<10	<2
1098184	Soil	0.10	16.2	3.2	<0.05	2.6	8.81	11.8	0.05	<1	1.4	25.3	<10	<2
1098185	Soil	0.17	15.0	1.1	<0.05	1.7	5.02	13.3	0.05	<1	1.3	35.7	<10	<2
1098186	Soil	0.04	10.4	1.9	<0.05	4.9	8.76	8.1	0.06	<1	0.8	27.8	<10	<2
1098187	Soil	0.07	10.5	3.1	<0.05	1.4	6.94	9.8	0.04	<1	0.9	27.9	<10	<2
1098188	Soil	0.11	11.6	2.9	<0.05	2.7	3.78	7.7	0.05	<1	0.9	19.0	<10	<2
1098189	Soil	0.07	7.3	1.6	<0.05	1.0	2.85	6.1	0.05	<1	0.5	12.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1098190	Soil			0.64	31.72	41.31	73.2	101	13.7	5.7	143	4.80	8.5	0.5	1.6	4.3	4.2	0.08	0.31	0.43	15	<0.01	0.048
1098191	Soil			1.36	37.74	56.64	76.2	145	14.0	6.8	398	5.61	13.2	0.6	<0.2	2.6	7.9	0.19	0.54	0.44	24	0.05	0.087
1098192	Soil			0.58	21.28	35.80	82.6	260	15.8	6.8	258	3.24	8.3	0.5	<0.2	1.8	9.1	0.13	0.31	0.37	15	0.04	0.046
1098193	Soil			1.31	40.10	37.02	94.8	421	22.3	8.8	170	5.69	10.6	0.6	0.3	3.0	7.0	0.09	0.62	0.41	27	0.03	0.048
1098194	Soil			0.69	36.02	37.58	97.6	120	18.0	8.6	106	6.91	11.2	0.4	<0.2	5.0	3.4	0.05	0.37	0.43	16	<0.01	0.054
1098195	Soil			0.45	37.84	41.97	180.9	138	73.8	29.7	765	4.79	6.7	1.4	<0.2	5.8	19.0	0.15	0.23	0.40	13	0.01	0.040
1098196	Soil			0.32	20.92	32.04	100.4	82	25.1	11.4	738	4.42	6.3	1.0	<0.2	3.7	91.8	0.24	0.14	0.46	14	1.43	0.098
1098197	Soil			0.77	24.21	36.70	97.1	83	25.3	16.4	592	4.02	9.3	0.7	<0.2	2.0	7.4	0.13	0.42	0.37	23	0.04	0.053
1098951	Soil			1.20	20.74	70.69	130.7	93	21.6	9.7	239	2.48	16.5	0.6	<0.2	1.8	28.3	0.24	1.11	0.31	13	0.08	0.081
1098952	Soil			1.82	16.91	31.56	81.4	262	17.9	7.3	157	3.02	15.1	0.6	<0.2	4.1	7.6	0.08	1.91	0.33	46	0.02	0.045
1098953	Soil			1.05	19.56	36.92	84.8	465	21.2	9.6	372	2.85	14.4	0.5	<0.2	1.0	10.2	0.28	1.40	0.23	28	0.13	0.092
1098954	Soil			1.21	29.88	52.39	153.5	354	36.1	22.9	431	3.84	15.9	1.6	<0.2	2.5	71.9	0.19	2.06	0.33	20	0.53	0.411
1098955	Soil			0.53	31.23	22.30	82.2	117	27.3	9.2	563	2.77	17.1	6.0	0.2	1.6	50.3	0.24	0.67	0.25	21	1.60	0.089
1098956	Soil			0.73	18.65	67.28	125.3	71	25.3	11.2	351	2.35	11.3	1.3	0.2	3.0	31.4	0.42	0.40	0.16	26	1.15	0.069
1098957	Soil			0.86	32.11	25.07	134.2	90	29.9	12.5	559	3.26	17.4	2.6	3.0	3.7	42.1	0.38	0.84	0.20	35	1.15	0.089
1098958	Soil			1.07	16.42	29.81	106.4	51	18.7	12.6	456	2.90	11.3	1.2	<0.2	3.0	16.7	0.41	0.61	0.24	32	0.33	0.036
1098959	Soil			1.13	23.61	22.80	114.7	273	21.6	8.8	236	2.21	15.2	8.7	1.7	1.5	59.8	0.18	0.98	0.21	18	1.84	0.069
1098960	Soil			1.53	29.51	39.72	165.9	238	27.0	10.2	511	3.00	9.5	2.1	<0.2	2.1	30.7	0.29	0.59	0.28	28	0.89	0.120
1098961	Soil			2.16	23.44	80.00	227.8	366	25.4	12.2	797	3.11	11.1	3.0	<0.2	1.9	21.2	0.81	0.73	0.25	30	0.90	0.110
1098962	Soil			1.57	23.19	43.54	115.6	89	15.2	9.7	3663	2.40	12.8	2.2	<0.2	2.2	40.2	0.32	0.31	0.32	19	2.77	0.128
1098963	Soil			1.59	39.77	78.66	104.2	160	22.0	15.4	2313	2.69	20.3	1.5	<0.2	1.2	34.4	0.22	0.42	0.30	18	1.97	0.110
1098964	Soil			0.78	28.73	17.91	65.6	153	24.1	29.4	1303	3.42	5.3	1.4	<0.2	3.4	35.1	0.15	0.41	0.31	25	1.20	0.141
1098965	Soil			2.33	26.51	22.66	109.3	274	35.7	12.1	249	2.96	7.3	1.5	<0.2	1.8	70.8	0.38	0.48	0.21	24	1.48	0.082
1098966	Soil			2.10	17.22	15.99	72.3	62	32.7	12.9	369	2.83	5.1	1.0	<0.2	5.1	511.1	0.12	0.15	0.15	18	12.59	0.072
1098967	Soil			1.08	14.42	12.25	56.8	34	25.4	11.2	345	2.28	4.2	0.8	<0.2	3.9	650.4	0.04	0.10	0.12	13	14.61	0.057
1097559	Soil			0.74	19.81	24.75	60.1	188	16.4	7.0	260	2.46	5.6	1.1	<0.2	1.9	40.3	0.13	0.33	0.25	21	1.46	0.099
1097560	Soil			0.69	11.76	23.58	48.8	163	15.5	7.7	185	2.38	4.5	1.3	<0.2	1.9	12.6	0.04	0.23	0.26	30	0.21	0.109
1097561	Soil			1.21	12.72	21.06	82.5	107	10.6	7.0	690	1.93	12.1	4.8	<0.2	1.1	44.1	0.38	0.70	0.23	27	1.34	0.066
1097562	Soil			0.88	27.41	23.36	110.4	135	26.0	10.6	294	3.03	20.5	4.7	1.9	2.6	39.3	0.64	1.05	0.23	38	1.10	0.063
1097563	Soil			0.90	23.59	19.40	124.2	93	20.1	8.4	342	2.85	11.6	7.0	1.4	1.7	42.9	0.33	0.77	0.20	41	1.36	0.090



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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1098190	Soil	2.1	20.2	0.13	36.8	0.001	4	1.00	0.002	0.07	<0.1	4.1	0.25	0.03	<5	1.0	<0.02	3.0	3.23	<0.1	0.04
1098191	Soil	3.6	27.8	0.12	87.5	0.005	3	0.94	0.003	0.09	<0.1	2.7	0.20	0.04	12	1.1	0.09	3.9	3.39	<0.1	0.05
1098192	Soil	2.2	14.7	0.13	92.8	0.001	3	1.03	0.005	0.08	<0.1	2.8	0.09	0.05	6	0.6	0.04	2.6	2.21	<0.1	0.06
1098193	Soil	3.7	22.3	0.15	35.3	0.008	3	1.10	0.003	0.06	<0.1	2.3	0.11	0.04	39	1.3	0.03	3.5	2.01	<0.1	0.03
1098194	Soil	1.9	24.2	0.06	29.3	0.001	2	0.76	0.002	0.05	<0.1	2.7	0.14	0.03	19	1.0	0.04	3.0	1.86	<0.1	0.05
1098195	Soil	3.0	22.0	0.29	82.5	0.002	3	2.19	0.003	0.08	<0.1	6.0	0.12	0.04	24	0.8	<0.02	3.4	3.01	<0.1	0.20
1098196	Soil	15.7	17.8	0.16	117.0	0.002	4	1.23	0.004	0.09	<0.1	4.9	0.13	0.07	28	0.9	<0.02	3.2	1.16	<0.1	0.06
1098197	Soil	4.8	20.7	0.21	103.4	0.006	3	1.31	0.004	0.10	<0.1	2.5	0.12	0.04	22	0.6	0.04	4.1	3.70	<0.1	0.03
1098951	Soil	4.8	13.5	0.09	70.8	0.002	3	0.49	0.003	0.12	<0.1	1.3	0.11	0.12	17	0.7	0.03	2.4	8.33	<0.1	0.02
1098952	Soil	10.6	16.1	0.10	34.7	0.017	2	0.83	0.001	0.06	0.1	1.7	0.18	<0.02	29	0.6	<0.02	5.8	5.89	<0.1	<0.02
1098953	Soil	5.4	15.6	0.08	46.7	0.004	3	0.97	0.003	0.07	<0.1	1.4	0.16	0.04	64	0.9	<0.02	3.8	10.30	<0.1	<0.02
1098954	Soil	14.2	29.2	0.14	81.7	0.005	9	0.84	0.004	0.16	<0.1	2.9	0.34	0.03	66	1.3	0.06	2.9	45.71	<0.1	<0.02
1098955	Soil	13.3	33.0	0.26	449.4	0.002	4	0.97	0.003	0.08	<0.1	3.7	0.11	0.08	94	1.4	0.03	2.9	2.54	<0.1	0.08
1098956	Soil	15.3	42.8	1.36	374.1	0.006	4	1.43	0.004	0.07	<0.1	4.2	0.12	0.06	76	1.6	<0.02	4.9	1.74	<0.1	0.11
1098957	Soil	23.7	45.5	0.99	151.7	0.007	6	1.22	0.006	0.09	<0.1	8.5	0.21	0.07	119	3.1	<0.02	3.9	2.98	<0.1	0.14
1098958	Soil	9.1	25.9	0.42	102.4	0.006	3	1.16	0.003	0.12	<0.1	2.8	0.15	0.03	219	1.0	0.02	4.1	1.75	<0.1	0.04
1098959	Soil	8.1	16.9	0.23	104.0	0.003	5	0.88	0.004	0.10	<0.1	2.5	0.30	0.08	364	1.4	<0.02	2.6	3.54	<0.1	0.07
1098960	Soil	13.3	23.4	0.31	198.2	0.003	4	1.44	0.003	0.10	<0.1	3.4	0.23	0.08	320	1.0	<0.02	4.0	1.64	<0.1	0.16
1098961	Soil	15.0	24.0	0.36	186.0	0.003	3	1.41	0.003	0.10	<0.1	3.4	0.27	0.07	1099	1.2	0.04	3.8	1.57	<0.1	0.15
1098962	Soil	18.7	14.8	0.60	161.2	0.004	6	0.77	0.006	0.06	<0.1	1.7	0.08	0.14	57	1.1	0.03	2.1	1.11	<0.1	0.06
1098963	Soil	12.9	16.4	0.32	136.4	0.005	6	1.13	0.006	0.09	<0.1	2.9	0.14	0.13	71	1.3	0.03	3.2	2.83	<0.1	0.12
1098964	Soil	24.2	22.2	0.39	128.3	0.006	6	1.40	0.003	0.11	<0.1	4.4	0.13	0.13	78	1.3	0.02	4.0	2.46	<0.1	0.08
1098965	Soil	14.3	22.1	0.18	160.2	0.003	9	0.87	0.005	0.18	<0.1	2.9	0.17	0.12	60	1.5	0.05	2.5	1.72	<0.1	0.15
1098966	Soil	13.4	15.5	0.69	154.6	0.002	9	0.70	0.008	0.25	<0.1	4.6	0.24	<0.02	29	0.5	0.02	1.8	2.18	<0.1	0.12
1098967	Soil	12.0	14.6	0.51	154.1	0.002	9	0.61	0.007	0.24	<0.1	3.9	0.14	0.03	21	0.6	0.04	1.5	1.92	<0.1	0.06
1097559	Soil	15.0	19.0	0.30	184.7	0.004	7	1.06	0.005	0.14	<0.1	2.8	0.39	0.19	127	1.0	<0.02	3.2	2.28	<0.1	0.09
1097560	Soil	11.9	24.3	0.27	205.8	0.003	3	1.70	0.002	0.08	<0.1	2.8	0.25	0.07	67	0.9	<0.02	4.8	2.26	<0.1	0.07
1097561	Soil	9.9	10.5	0.11	120.0	0.004	2	0.83	0.004	0.05	<0.1	1.7	0.17	0.07	118	0.9	0.02	3.5	1.28	<0.1	0.06
1097562	Soil	21.3	34.5	0.21	89.1	0.006	3	0.91	0.003	0.07	0.1	4.1	0.22	0.05	223	1.4	<0.02	3.1	1.19	<0.1	0.07
1097563	Soil	20.8	36.0	0.40	125.6	0.006	4	1.06	0.003	0.06	<0.1	3.5	0.13	0.08	155	1.7	<0.02	3.8	1.41	<0.1	0.07



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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 Report Date: September 25, 2011

Page: 5 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1098190	Soil	0.07	8.9	1.4	<0.05	3.3	2.94	6.0	0.05	2	0.4	10.5	<10	<2
1098191	Soil	0.16	13.7	7.6	<0.05	1.6	3.21	9.2	0.05	2	0.5	9.0	<10	<2
1098192	Soil	0.09	9.5	2.1	<0.05	1.9	4.42	5.7	0.05	<1	1.2	13.9	<10	<2
1098193	Soil	0.45	8.1	4.9	<0.05	1.4	2.33	8.6	0.05	<1	0.7	10.2	<10	<2
1098194	Soil	0.07	6.0	1.0	<0.05	3.2	2.53	5.2	0.07	<1	0.6	5.5	<10	<2
1098195	Soil	0.18	9.0	2.2	<0.05	6.6	8.51	11.7	0.04	1	1.6	71.8	<10	2
1098196	Soil	0.24	12.4	1.4	<0.05	2.0	15.17	63.4	0.06	<1	1.6	21.0	<10	<2
1098197	Soil	0.32	14.3	2.0	<0.05	0.8	4.47	14.3	0.04	2	1.0	25.9	<10	<2
1098951	Soil	0.07	9.5	5.5	<0.05	0.4	3.48	14.3	0.03	3	0.6	3.9	<10	<2
1098952	Soil	0.51	10.2	2.6	<0.05	1.5	2.83	24.5	0.02	<1	0.2	3.1	<10	<2
1098953	Soil	0.26	10.2	3.5	<0.05	0.5	3.74	18.1	0.03	2	0.7	6.7	<10	<2
1098954	Soil	0.06	19.7	29.2	<0.05	1.3	14.74	39.4	<0.02	2	1.4	7.8	<10	<2
1098955	Soil	0.23	8.1	2.1	<0.05	2.3	15.04	23.9	0.04	<1	1.3	7.7	<10	<2
1098956	Soil	0.47	9.0	2.9	<0.05	3.7	7.80	36.7	0.03	<1	1.0	33.9	<10	<2
1098957	Soil	0.25	12.7	5.3	<0.05	4.3	20.19	50.3	0.05	<1	1.3	24.7	<10	<2
1098958	Soil	0.43	13.6	2.1	<0.05	1.3	5.46	23.8	0.02	1	0.5	19.3	<10	<2
1098959	Soil	0.34	10.7	1.6	<0.05	2.9	8.80	16.4	0.02	<1	0.9	9.7	<10	<2
1098960	Soil	0.36	13.5	1.2	<0.05	4.7	15.61	24.1	0.03	<1	1.3	14.7	<10	<2
1098961	Soil	0.31	13.7	0.9	<0.05	4.4	16.30	30.1	0.02	<1	1.6	14.1	<10	<2
1098962	Soil	0.19	6.1	2.3	<0.05	1.9	16.34	70.4	<0.02	<1	0.7	13.4	<10	<2
1098963	Soil	0.53	9.1	2.4	<0.05	2.4	17.22	28.8	0.03	<1	0.8	21.2	<10	<2
1098964	Soil	0.39	12.1	1.4	<0.05	2.4	22.88	85.8	0.05	3	1.0	18.8	<10	<2
1098965	Soil	0.37	12.6	2.2	<0.05	6.4	13.88	30.1	0.05	2	1.2	8.4	<10	<2
1098966	Soil	0.18	14.5	1.5	<0.05	8.6	10.63	34.0	0.04	<1	1.2	5.5	<10	<2
1098967	Soil	0.14	13.4	1.3	<0.05	5.3	9.50	29.8	0.03	<1	0.5	4.7	<10	<2
1097559	Soil	0.38	13.0	1.0	<0.05	2.9	12.69	26.4	0.04	2	0.8	13.7	<10	<2
1097560	Soil	0.32	11.3	1.2	<0.05	2.1	7.86	27.9	0.03	<1	0.8	15.5	<10	<2
1097561	Soil	0.34	7.0	1.2	<0.05	2.0	6.04	19.9	0.03	<1	0.4	6.0	<10	<2
1097562	Soil	0.30	8.8	1.5	<0.05	2.3	12.16	42.0	0.04	<1	1.3	9.2	<10	<2
1097563	Soil	0.43	8.7	1.1	<0.05	2.0	11.38	40.7	0.04	<1	0.6	15.8	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	Analyte	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
Unit	MDL	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1097564	Soil	1.20	29.47	30.85	123.7	140	30.5	12.9	548	2.80	12.9	1.4	2.7	5.0	52.8	0.28	1.00	0.27	30	2.88	0.071
1097565	Soil	1.27	30.67	30.76	134.8	174	32.6	10.2	289	2.91	12.0	2.2	1.7	3.3	38.1	0.32	0.80	0.27	30	1.57	0.072
1097566	Soil	1.31	24.59	66.74	289.8	191	22.4	9.8	481	2.78	11.8	3.4	3.2	1.6	34.5	0.34	0.72	0.26	26	1.29	0.091
1097567	Soil	0.56	34.01	19.74	101.2	199	24.2	9.5	359	2.26	9.3	2.6	2.1	1.6	50.5	0.23	0.67	0.21	19	1.45	0.114
1097568	Soil	0.67	38.13	45.26	101.3	656	25.2	10.4	318	2.61	14.1	2.1	<0.2	4.0	46.9	0.10	1.02	0.29	15	1.07	0.201
1097569	Soil	0.42	27.46	36.93	72.9	175	22.4	9.0	219	2.13	7.6	1.4	3.5	3.6	38.9	0.23	0.39	0.27	8	0.96	0.083
1097570	Soil	0.34	33.19	68.06	162.4	220	46.4	19.4	561	3.38	6.2	0.7	3.0	7.7	14.2	0.26	0.56	0.46	17	0.24	0.046
1097571	Soil	0.72	22.49	40.18	140.8	168	28.5	13.3	313	3.50	10.4	0.5	2.7	4.2	11.9	0.22	1.03	0.24	21	0.11	0.050
1097572	Soil	0.59	29.36	61.21	111.7	240	28.8	15.4	851	4.26	13.9	1.1	2.0	3.7	21.4	0.35	1.45	0.29	16	0.33	0.095
1098878	Soil	2.92	9.36	6.85	63.0	73	23.9	4.1	208	0.73	17.0	2.8	1.4	0.8	70.3	0.44	0.47	0.06	25	13.13	0.065
1098879	Soil	6.35	9.12	7.71	58.7	201	25.1	2.9	177	0.79	17.8	6.9	1.2	0.7	79.7	0.39	0.60	0.04	42	12.38	0.172
1098880	Soil	1.75	10.97	9.19	191.6	112	45.3	5.0	369	1.01	11.4	40.1	1.0	0.4	60.9	1.51	0.66	0.09	99	9.14	0.897
1098881	Soil	2.57	10.23	9.84	74.8	71	20.9	4.8	411	1.46	16.2	42.5	2.0	0.8	49.9	0.39	0.69	0.11	94	8.46	0.775
1098882	Soil	3.61	17.49	13.14	137.2	85	27.5	7.5	871	2.13	19.9	2.2	2.5	0.4	18.9	0.53	0.90	0.17	58	4.68	0.129
1098883	Soil	2.28	7.56	7.22	59.6	48	8.9	2.4	747	0.63	8.5	1.1	0.7	<0.1	31.1	0.36	0.35	0.09	15	10.55	0.089
1098884	Soil	3.52	12.24	11.41	81.6	59	23.1	5.3	436	1.53	20.5	2.3	1.4	0.3	36.9	0.41	0.76	0.09	29	9.67	0.108
1098885	Soil	1.27	10.82	4.05	60.5	17	28.6	2.5	461	0.49	10.4	1.0	1.3	0.1	28.6	0.35	0.31	0.03	16	13.77	0.056
1098886	Soil	2.46	26.68	25.01	91.6	108	32.1	13.1	476	3.32	17.3	1.8	1.4	2.7	50.4	0.11	0.59	0.12	28	4.63	0.127
1098887	Soil	2.37	31.72	26.57	96.5	145	34.3	15.7	283	3.77	19.5	1.4	1.0	2.5	34.4	0.24	0.75	0.15	28	1.31	0.083
1098888	Soil	6.57	26.79	24.13	118.6	119	38.4	12.7	279	3.13	67.7	6.1	1.7	2.7	42.7	0.41	1.22	0.13	33	8.34	0.144
1098889	Soil	3.70	20.16	20.70	97.5	105	31.6	11.5	247	3.02	14.6	2.2	1.0	2.0	51.7	0.22	0.46	0.18	24	2.42	0.086
1098890	Soil	7.44	18.91	17.96	88.3	136	28.7	8.6	357	1.99	26.6	8.5	2.1	2.0	60.8	0.34	0.66	0.11	40	8.24	0.201
1098891	Soil	0.75	7.36	5.49	31.6	15	12.6	5.2	194	1.33	2.6	0.4	0.5	1.3	662.6	0.04	0.05	0.05	9	17.99	0.031
1098892	Soil	0.69	9.19	7.58	39.1	20	15.8	7.2	226	1.60	2.4	0.5	0.3	2.4	711.6	0.03	0.06	0.07	8	17.66	0.039
1098893	Soil	0.78	10.90	8.72	48.7	26	20.4	8.5	224	1.98	2.9	0.5	1.6	1.7	589.7	0.05	0.08	0.09	12	12.93	0.050
1098894	Soil	1.60	14.36	14.09	69.1	34	28.6	11.1	344	2.75	3.1	0.5	1.1	1.1	200.4	0.06	0.11	0.13	14	5.35	0.055
1098895	Soil	3.13	26.95	23.56	99.0	270	30.1	10.9	133	2.55	5.6	0.8	1.9	3.3	67.3	0.41	0.55	0.24	20	1.25	0.048
1098896	Soil	1.84	24.49	19.97	110.9	258	31.7	11.5	309	2.76	4.4	1.0	2.0	2.2	52.3	0.67	0.55	0.20	33	1.27	0.065
1098897	Soil	1.78	18.86	20.89	82.1	159	25.2	9.0	318	2.47	4.5	0.8	1.7	1.6	44.2	0.42	0.51	0.18	27	1.02	0.055
1098898	Soil	1.41	19.47	21.70	78.5	144	21.1	8.9	281	2.40	4.9	1.0	0.5	1.9	36.2	0.17	0.40	0.24	25	0.70	0.081



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Project: Scarlet
 Report Date: September 25, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15				
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf			
			ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm				
			0.5	0.5	0.01	0.5	0.001			1	0.01	0.001			0.1	0.02	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1097564	Soil		17.2	26.9	1.29	197.3	0.009	4	1.10	0.006	0.11	0.1	4.7	0.20	<0.02	220	0.8	<0.02	3.4	1.92	<0.1	0.08			
1097565	Soil		17.0	32.0	0.76	147.5	0.006	4	1.20	0.005	0.08	0.1	5.0	0.14	0.05	185	1.1	0.03	3.6	1.60	<0.1	0.14			
1097566	Soil		9.3	21.6	0.36	197.9	0.004	4	1.16	0.005	0.10	<0.1	3.0	0.34	0.08	757	1.0	0.06	3.5	2.16	<0.1	0.08			
1097567	Soil		12.3	27.9	0.45	334.4	0.003	4	0.92	0.003	0.08	<0.1	3.6	0.16	0.11	138	1.7	<0.02	2.8	6.00	<0.1	0.09			
1097568	Soil		8.5	16.8	0.30	193.1	0.002	7	1.15	0.005	0.13	<0.1	5.3	0.29	0.13	255	1.4	0.05	2.9	14.60	<0.1	0.32			
1097569	Soil		6.0	11.1	0.26	69.6	0.001	6	0.50	0.004	0.11	<0.1	2.9	0.09	0.06	134	0.8	0.07	1.4	4.00	<0.1	0.11			
1097570	Soil		16.6	38.7	1.39	70.7	0.003	2	1.88	0.005	0.11	<0.1	4.2	0.08	0.05	61	0.4	0.04	5.5	5.54	<0.1	0.13			
1097571	Soil		8.2	24.0	0.44	113.7	0.001	3	1.44	0.004	0.08	<0.1	2.3	0.09	0.03	37	0.3	0.09	3.8	2.08	<0.1	0.05			
1097572	Soil		7.0	17.8	0.31	80.1	0.002	2	1.30	0.008	0.10	<0.1	3.4	0.13	0.12	79	0.7	0.08	3.0	5.41	<0.1	0.05			
1098878	Soil		6.0	7.2	6.11	41.0	0.003	2	0.23	0.007	0.05	<0.1	1.4	0.32	0.04	37	0.3	0.06	0.5	0.84	<0.1	0.05			
1098879	Soil		6.0	12.1	7.37	35.4	0.003	4	0.26	0.011	0.06	<0.1	1.3	0.35	0.03	30	0.3	0.07	0.5	1.10	<0.1	0.04			
1098880	Soil		9.5	26.5	5.31	60.0	0.006	3	0.86	0.010	0.05	<0.1	0.8	0.19	0.08	54	0.6	0.14	1.4	0.37	<0.1	0.04			
1098881	Soil		14.6	27.1	4.67	80.6	0.009	4	1.20	0.011	0.07	0.2	1.4	0.29	0.08	29	0.6	0.06	2.0	0.77	<0.1	0.08			
1098882	Soil		16.1	22.7	2.10	101.5	0.008	3	1.15	0.010	0.05	0.2	0.9	0.40	0.11	45	1.1	0.08	2.4	0.77	<0.1	0.03			
1098883	Soil		9.6	9.0	7.19	40.0	0.005	7	0.45	0.013	0.03	<0.1	0.5	0.15	0.09	38	0.5	0.04	0.7	0.30	<0.1	0.03			
1098884	Soil		10.4	17.1	6.11	51.9	0.006	3	0.80	0.013	0.04	<0.1	1.0	0.33	0.08	31	0.4	0.08	1.2	0.47	<0.1	0.04			
1098885	Soil		7.9	5.0	8.98	25.5	0.003	2	0.29	0.009	0.02	<0.1	0.5	0.31	0.05	33	0.2	0.06	0.5	0.50	<0.1	0.04			
1098886	Soil		15.4	18.3	2.01	157.7	0.002	9	0.55	0.005	0.17	<0.1	6.5	0.15	0.14	38	0.5	0.06	1.5	1.24	<0.1	0.08			
1098887	Soil		17.8	19.5	0.32	256.5	0.002	9	0.78	0.004	0.19	<0.1	6.2	0.23	0.12	65	0.8	0.05	2.3	1.25	<0.1	0.08			
1098888	Soil		13.6	16.2	5.02	79.8	0.004	4	0.82	0.011	0.16	<0.1	4.4	0.71	0.14	68	0.8	0.09	1.9	1.22	<0.1	0.09			
1098889	Soil		12.7	17.8	0.56	197.5	0.003	11	0.84	0.005	0.24	<0.1	3.5	0.31	0.09	70	0.5	<0.02	2.3	1.67	<0.1	0.07			
1098890	Soil		11.4	14.8	4.06	104.9	0.003	8	0.69	0.008	0.18	<0.1	3.1	0.50	0.04	59	0.7	0.08	1.6	1.41	<0.1	0.06			
1098891	Soil		8.4	9.2	0.37	104.7	0.002	7	0.38	0.006	0.17	<0.1	1.9	0.08	0.08	23	0.2	0.11	1.0	0.88	<0.1	0.03			
1098892	Soil		9.1	9.3	0.74	102.5	0.002	8	0.40	0.008	0.20	<0.1	2.8	0.08	0.07	25	0.4	0.11	1.0	1.15	<0.1	0.06			
1098893	Soil		10.5	11.2	0.40	98.9	0.002	8	0.61	0.007	0.23	<0.1	2.8	0.13	0.06	22	0.3	0.07	1.4	1.24	<0.1	0.07			
1098894	Soil		15.6	15.3	0.24	171.2	0.002	12	0.76	0.004	0.23	<0.1	2.8	0.16	0.08	45	0.5	0.03	1.8	1.61	<0.1	0.05			
1098895	Soil		8.9	17.2	0.17	183.7	0.002	8	0.70	0.006	0.27	<0.1	3.4	0.22	0.21	31	1.2	0.08	2.1	2.59	<0.1	0.08			
1098896	Soil		16.5	19.9	0.19	183.0	0.003	9	0.94	0.004	0.24	<0.1	3.6	0.20	0.09	49	1.3	0.06	2.6	1.78	<0.1	0.14			
1098897	Soil		14.2	18.1	0.14	142.4	0.002	7	0.80	0.003	0.19	<0.1	2.7	0.17	0.07	41	1.2	0.03	2.4	1.29	<0.1	0.09			
1098898	Soil		12.9	19.9	0.19	228.7	0.004	5	1.06	0.005	0.19	<0.1	2.7	0.16	0.08	38	0.6	0.08	3.3	2.16	<0.1	0.07			



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 6 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1097564	Soil	0.30	9.0	0.9	<0.05	2.4	13.85	34.1	0.03	3	0.9	15.5	<10	<2
1097565	Soil	0.44	7.6	1.5	<0.05	3.7	16.92	27.8	0.04	3	1.2	18.3	<10	<2
1097566	Soil	0.47	10.2	0.7	<0.05	2.7	9.54	18.7	0.03	<1	0.9	14.3	<10	<2
1097567	Soil	0.24	11.6	1.2	<0.05	2.9	12.38	24.9	0.04	<1	0.8	12.8	<10	<2
1097568	Soil	0.16	17.5	0.8	<0.05	8.7	23.79	22.0	0.03	<1	1.4	12.1	<10	<2
1097569	Soil	0.11	8.0	1.5	<0.05	4.8	12.47	16.2	0.03	3	0.5	6.9	<10	<2
1097570	Soil	0.18	8.5	1.9	<0.05	5.6	8.24	40.8	0.04	1	1.0	61.1	<10	<2
1097571	Soil	0.17	10.3	2.4	<0.05	1.9	3.70	19.8	0.03	2	1.0	43.1	<10	<2
1097572	Soil	0.12	9.2	1.7	<0.05	2.6	8.53	20.9	0.04	2	1.2	22.6	<10	<2
1098878	Soil	0.10	3.0	0.2	<0.05	1.3	7.93	10.4	<0.02	2	0.3	2.5	<10	<2
1098879	Soil	0.07	3.0	1.0	<0.05	1.3	8.17	10.5	<0.02	1	0.3	2.5	<10	<2
1098880	Soil	0.15	4.1	1.9	<0.05	1.7	12.37	15.2	<0.02	4	0.4	4.6	<10	<2
1098881	Soil	0.26	5.1	1.0	<0.05	2.4	18.14	19.5	<0.02	3	0.6	6.7	<10	<2
1098882	Soil	0.38	6.1	0.9	<0.05	0.8	17.30	23.7	0.02	2	0.6	8.9	<10	<2
1098883	Soil	0.11	2.4	2.1	<0.05	0.7	13.08	9.0	<0.02	2	0.3	2.5	<10	<2
1098884	Soil	0.19	3.1	2.4	<0.05	1.0	13.53	14.4	<0.02	2	0.3	4.5	<10	<2
1098885	Soil	0.07	2.1	0.2	<0.05	1.6	10.93	8.8	<0.02	2	0.3	2.7	<10	<2
1098886	Soil	0.35	7.9	1.2	<0.05	2.7	13.17	33.1	0.06	<1	0.8	5.9	<10	<2
1098887	Soil	0.43	11.4	1.9	<0.05	3.1	16.33	34.5	0.05	3	1.0	8.6	<10	<2
1098888	Soil	0.16	7.7	1.2	<0.05	3.6	15.96	23.5	0.02	2	0.7	7.4	<10	<2
1098889	Soil	0.44	15.9	3.3	<0.05	3.0	13.99	26.5	0.03	6	1.2	7.0	<10	<2
1098890	Soil	0.14	8.6	1.7	<0.05	2.3	13.88	23.3	0.02	2	0.7	6.1	<10	<2
1098891	Soil	0.16	8.1	0.7	<0.05	1.9	5.52	19.0	<0.02	<1	0.5	3.6	<10	<2
1098892	Soil	0.13	9.4	1.2	<0.05	3.4	6.46	20.2	0.02	2	0.7	4.1	<10	<2
1098893	Soil	0.18	11.3	1.2	<0.05	2.8	7.55	22.4	<0.02	<1	0.8	4.8	<10	<2
1098894	Soil	0.40	13.4	1.9	<0.05	3.7	11.45	31.6	<0.02	<1	1.2	6.3	<10	<2
1098895	Soil	0.21	15.6	2.6	<0.05	5.0	8.09	20.3	0.04	<1	1.0	7.8	<10	<2
1098896	Soil	0.53	15.9	1.4	<0.05	5.5	12.78	33.5	<0.02	3	1.3	8.0	<10	<2
1098897	Soil	0.38	14.1	1.1	<0.05	4.3	9.72	28.9	0.02	3	0.8	5.6	<10	<2
1098898	Soil	0.42	17.3	0.9	<0.05	2.7	9.78	28.4	0.03	<1	0.8	10.3	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1098899	Soil			1.17	17.49	19.68	80.0	88	21.4	8.9	163	2.13	4.0	1.1	1.3	2.0	40.6	0.14	0.34	0.22	20	0.83	0.064
1098900	Soil			0.78	22.07	18.51	73.4	122	20.8	8.5	364	2.17	4.2	1.2	2.3	1.9	35.1	0.13	0.35	0.22	24	1.05	0.094
1096715	Soil			0.71	30.79	37.34	89.6	59	20.8	14.6	835	4.42	9.3	0.7	1.5	1.9	9.5	0.16	0.40	0.45	33	0.05	0.065
1096716	Soil			0.47	46.69	55.22	102.8	92	30.2	21.8	1761	4.11	11.8	1.9	1.0	6.4	20.1	0.11	0.33	0.40	27	0.32	0.109
1096717	Soil			0.61	86.77	43.82	94.4	249	29.3	17.4	1468	3.90	9.2	3.2	1.4	4.2	57.5	0.16	0.32	0.41	24	1.16	0.130
1096718	Soil			0.68	40.13	50.76	121.7	169	35.6	18.7	923	4.20	15.7	1.0	1.5	2.5	38.6	0.20	0.46	0.42	18	0.60	0.080
1096719	Soil			0.67	56.98	44.29	112.9	285	48.4	22.2	489	4.35	18.0	0.8	2.9	5.3	51.3	0.07	0.45	0.46	21	0.87	0.026
1096720	Soil			0.67	28.22	24.73	81.2	142	18.1	9.8	321	3.57	12.4	0.4	1.3	1.0	5.4	0.09	0.43	0.37	25	0.02	0.045
1096721	Soil			1.11	29.80	42.06	68.9	295	20.7	8.7	246	5.05	10.6	1.0	1.1	2.6	28.4	0.13	0.52	0.37	29	0.06	0.064
1096722	Soil			0.67	20.46	39.82	89.8	218	30.0	11.8	1164	3.55	15.4	1.4	3.1	3.2	26.3	0.24	0.80	0.26	20	0.69	0.082
1096723	Soil			0.42	16.55	34.19	140.7	268	19.1	6.0	236	1.79	11.1	1.5	1.9	1.0	52.4	0.24	0.58	0.18	10	2.14	0.085
1096724	Soil			0.59	17.18	51.65	188.0	246	22.5	7.1	578	2.73	24.0	1.3	0.8	1.9	24.1	0.46	1.43	0.23	21	1.54	0.094
1096725	Soil			0.61	26.88	47.95	718.5	223	23.6	9.4	3269	5.93	60.9	2.6	1.9	1.9	27.4	2.53	4.07	0.22	19	9.79	0.144
1096726	Soil			0.13	4.16	13.37	7.5	33	8.9	4.8	1337	1.83	39.3	0.9	<0.2	0.5	115.5	0.02	1.89	0.03	4	19.78	0.034
1096727	Soil			0.59	25.82	38.54	79.6	238	22.3	9.1	4650	7.53	68.6	2.1	2.5	1.1	27.1	0.39	3.60	0.21	21	7.57	0.185
1096728	Soil			0.52	15.52	21.23	85.9	139	12.7	5.9	1631	3.00	36.6	0.9	0.8	1.1	29.6	0.33	1.95	0.14	18	9.75	0.123
1096729	Soil			0.89	21.38	18.10	51.8	34	21.7	12.7	194	3.30	24.7	0.6	2.8	3.2	6.2	0.05	1.21	0.36	28	0.07	0.019
1096730	Soil			0.56	25.75	18.46	38.4	23	26.1	19.5	584	3.34	7.8	0.6	0.3	2.0	5.9	0.03	0.48	0.40	25	0.14	0.030
1096731	Soil			0.74	27.64	21.23	62.8	115	25.1	17.2	992	3.55	6.3	0.6	0.4	5.1	6.6	0.10	0.47	0.36	35	0.06	0.033
1096732	Soil			0.61	47.01	51.94	79.2	117	38.0	35.4	1168	4.62	6.7	0.7	<0.2	4.1	13.5	0.04	0.25	0.54	24	0.04	0.043
1096733	Soil			0.53	23.24	20.46	111.4	69	30.5	20.6	878	3.98	3.1	0.5	<0.2	4.6	9.9	0.11	0.24	0.38	36	0.19	0.034
1096734	Soil			0.52	22.17	20.56	64.0	153	23.2	13.4	567	3.62	4.9	0.5	<0.2	3.6	7.6	0.09	0.26	0.32	33	0.11	0.045
1096735	Soil			0.73	27.05	24.81	67.6	75	29.0	14.5	405	4.02	7.6	0.6	<0.2	4.9	7.8	0.04	0.42	0.34	35	0.07	0.026
1096736	Soil			1.62	61.11	121.9	137.1	641	44.7	57.0	3327	5.55	181.5	2.3	0.5	4.3	32.7	0.28	1.53	0.55	31	0.61	0.091
1096737	Soil			0.60	33.71	29.96	130.4	231	32.1	13.4	359	4.07	11.1	1.2	0.3	2.8	81.3	0.18	0.47	0.40	20	1.16	0.087
1096738	Soil			0.72	44.00	72.19	121.3	203	29.6	25.0	2502	4.84	26.4	1.6	0.8	3.1	60.0	0.21	0.73	0.48	30	0.76	0.174
1096739	Soil			0.87	37.06	39.60	105.6	103	36.7	15.7	606	4.69	13.8	1.1	0.3	2.8	15.2	0.15	0.58	0.40	29	0.16	0.078
1096740	Soil			0.71	41.59	23.12	112.6	505	30.3	13.1	255	3.21	8.3	2.3	1.1	2.9	354.4	0.41	0.35	0.37	15	7.16	0.135
1096741	Soil			1.20	50.15	54.13	125.6	1202	69.0	33.5	928	5.44	107.1	1.9	1.2	4.1	67.6	0.12	0.97	0.43	27	0.58	0.115
1096742	Soil			0.66	26.67	32.35	125.1	156	37.8	15.5	665	3.81	7.9	0.9	<0.2	3.8	22.4	0.17	0.40	0.36	19	0.25	0.073



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: September 25, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15			
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf		
			ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm			
			0.5	0.5	0.01	0.5	0.001			1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1098899	Soil		9.1	16.9	0.18	193.4	0.004	9	0.92	0.004	0.20	<0.1	2.6	0.14	0.08	22	0.5	<0.02	2.8	2.01	<0.1	0.12		
1098900	Soil		20.1	22.0	0.34	178.6	0.006	6	1.15	0.005	0.13	<0.1	3.5	0.13	0.08	63	1.1	0.02	3.4	1.92	<0.1	0.13		
1096715	Soil		4.6	27.3	0.37	96.9	0.004	5	1.74	0.004	0.12	<0.1	2.9	0.11	0.03	22	0.4	0.07	6.6	4.60	<0.1	0.07		
1096716	Soil		8.7	26.7	0.59	84.3	0.003	4	1.90	0.007	0.15	<0.1	13.8	0.12	0.05	30	0.7	0.06	5.1	6.04	<0.1	0.15		
1096717	Soil		12.1	24.7	0.47	141.7	0.003	5	1.60	0.007	0.11	<0.1	14.1	0.12	0.08	79	1.1	0.11	4.1	5.73	<0.1	0.10		
1096718	Soil		8.1	23.9	0.38	83.5	0.002	4	1.53	0.006	0.10	<0.1	7.0	0.14	0.06	43	0.6	0.12	4.0	3.29	<0.1	0.07		
1096719	Soil		5.4	29.8	0.55	155.3	0.001	5	1.81	0.007	0.13	<0.1	7.1	0.15	<0.02	62	0.6	0.12	5.5	2.12	<0.1	0.18		
1096720	Soil		3.6	17.0	0.12	77.5	0.003	2	0.92	0.003	0.12	<0.1	2.1	0.10	0.03	41	0.4	0.06	3.8	2.26	<0.1	<0.02		
1096721	Soil		5.6	24.8	0.25	105.1	0.007	2	1.41	0.011	0.12	<0.1	3.2	0.13	0.12	69	0.5	0.04	3.8	2.27	<0.1	0.02		
1096722	Soil		23.0	18.0	0.28	109.3	0.003	2	0.95	0.005	0.08	0.1	5.0	0.10	0.05	223	0.9	0.04	2.4	0.84	0.1	0.06		
1096723	Soil		11.1	10.7	0.28	94.1	0.002	5	0.39	0.007	0.08	<0.1	2.0	0.11	0.09	443	1.0	<0.02	1.1	0.45	<0.1	0.10		
1096724	Soil		11.8	15.1	0.66	113.9	0.003	2	0.85	0.006	0.06	0.1	2.8	0.07	0.04	386	1.0	0.07	2.1	0.49	<0.1	0.06		
1096725	Soil		11.3	12.9	4.68	78.2	0.003	3	0.67	0.012	0.07	0.1	2.0	0.17	0.02	404	0.9	0.14	1.6	0.33	<0.1	0.10		
1096726	Soil		2.1	3.4	9.12	30.2	<0.001	2	0.49	0.005	<0.01	<0.1	0.9	0.65	<0.02	259	0.1	0.02	0.7	0.06	<0.1	0.03		
1096727	Soil		14.1	13.1	3.57	127.5	0.004	7	0.82	0.008	0.07	<0.1	2.0	0.21	0.07	499	1.2	0.10	1.8	0.32	<0.1	0.07		
1096728	Soil		7.4	11.1	4.93	76.8	0.005	4	0.68	0.009	0.05	<0.1	1.5	0.09	<0.02	269	0.6	0.10	1.7	0.36	<0.1	0.03		
1096729	Soil		6.8	17.9	0.27	78.3	0.008	2	1.15	0.002	0.11	<0.1	3.1	0.13	<0.02	60	0.4	0.05	3.4	3.43	<0.1	0.03		
1096730	Soil		5.5	25.7	0.26	162.0	0.012	7	0.93	0.003	0.31	0.2	2.6	0.16	<0.02	30	0.5	0.11	3.2	4.88	<0.1	<0.02		
1096731	Soil		8.5	29.4	0.30	114.5	0.003	4	2.02	<0.001	0.23	<0.1	3.1	0.15	<0.02	32	0.4	0.02	5.7	1.70	<0.1	0.04		
1096732	Soil		5.7	24.6	0.28	140.0	0.002	2	1.67	0.002	0.21	<0.1	4.3	0.12	0.04	24	0.5	<0.02	5.8	2.51	<0.1	0.07		
1096733	Soil		7.6	37.4	0.44	194.1	0.003	3	2.21	<0.001	0.34	<0.1	3.7	0.16	<0.02	15	0.3	0.06	8.2	1.33	<0.1	0.04		
1096734	Soil		8.7	30.0	0.34	161.9	0.004	2	1.72	0.001	0.26	<0.1	2.8	0.14	<0.02	21	0.2	0.04	6.6	1.16	<0.1	0.02		
1096735	Soil		9.6	32.5	0.44	81.1	0.007	3	1.77	0.003	0.19	<0.1	3.4	0.13	<0.02	15	0.3	0.04	6.3	2.24	<0.1	0.03		
1096736	Soil		7.2	27.8	0.60	239.8	0.002	6	2.09	0.004	0.12	<0.1	14.8	0.27	0.06	188	1.1	0.11	5.3	7.37	<0.1	0.21		
1096737	Soil		8.3	17.8	0.38	155.6	0.002	3	1.37	0.005	0.09	<0.1	5.1	0.13	0.07	40	0.6	0.09	3.7	1.71	<0.1	0.16		
1096738	Soil		11.1	26.9	0.42	302.8	0.002	3	2.04	0.003	0.10	<0.1	8.7	0.14	0.09	36	0.8	0.04	5.7	3.70	<0.1	0.18		
1096739	Soil		7.7	26.0	0.42	95.3	0.002	2	1.73	0.003	0.09	<0.1	4.3	0.13	0.04	27	0.8	0.14	5.0	2.45	<0.1	0.07		
1096740	Soil		7.3	14.8	0.28	149.5	0.001	5	0.91	0.005	0.11	<0.1	3.8	0.15	0.07	187	1.1	0.15	2.3	0.66	<0.1	0.17		
1096741	Soil		10.7	28.9	0.46	188.6	0.001	3	2.14	0.003	0.10	<0.1	7.3	0.16	0.04	133	1.2	0.12	4.2	2.88	<0.1	0.29		
1096742	Soil		9.0	16.4	0.22	129.2	0.002	3	1.35	0.004	0.10	<0.1	4.7	0.15	0.04	69	0.6	0.06	3.0	2.51	<0.1	0.07		



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 7 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1098899	Soil	0.47	16.5	0.9	<0.05	3.8	6.72	21.0	0.03	1	0.7	8.6	<10	<2
1098900	Soil	0.46	15.5	0.8	<0.05	2.8	16.65	35.0	0.02	<1	0.9	15.2	<10	<2
1096715	Soil	0.25	18.2	1.4	<0.05	1.5	4.68	11.6	0.04	1	1.4	37.8	<10	<2
1096716	Soil	0.10	15.9	1.7	<0.05	3.8	29.87	32.7	0.06	1	1.9	45.8	<10	<2
1096717	Soil	0.18	13.1	2.2	<0.05	3.4	39.04	26.7	0.06	1	1.8	34.9	<10	<2
1096718	Soil	0.17	10.8	3.0	<0.05	2.1	19.89	28.2	0.04	2	1.2	36.8	<10	<2
1096719	Soil	0.11	9.9	2.7	<0.05	5.5	12.09	12.2	0.06	2	1.1	53.9	<10	<2
1096720	Soil	0.18	18.9	1.8	<0.05	0.7	2.82	8.0	0.02	<1	0.4	7.6	<10	<2
1096721	Soil	0.48	12.3	1.2	<0.05	0.8	3.42	14.0	0.06	<1	0.6	18.9	<10	<2
1096722	Soil	0.20	8.2	1.0	<0.05	2.3	23.97	48.9	0.04	3	1.2	7.3	<10	<2
1096723	Soil	0.16	4.4	1.0	<0.05	1.8	12.95	25.3	0.02	<1	0.4	2.3	<10	<2
1096724	Soil	0.18	4.5	1.1	<0.05	2.2	12.80	26.5	0.04	<1	0.9	5.7	<10	<2
1096725	Soil	0.10	3.0	2.6	<0.05	2.2	16.46	24.2	0.02	<1	0.5	3.7	<10	<2
1096726	Soil	<0.02	0.3	1.3	<0.05	1.3	7.26	5.6	<0.02	<1	0.6	0.7	<10	<2
1096727	Soil	0.11	3.8	2.0	<0.05	1.7	18.01	27.1	0.02	<1	0.5	4.0	<10	<2
1096728	Soil	0.14	3.7	1.4	<0.05	1.3	9.43	14.9	<0.02	<1	0.6	5.1	<10	<2
1096729	Soil	0.42	11.5	2.3	<0.05	1.0	3.30	20.1	0.02	<1	0.8	11.8	<10	<2
1096730	Soil	0.29	25.1	4.3	<0.05	0.2	2.86	15.1	0.03	<1	1.2	7.1	<10	3
1096731	Soil	0.40	17.9	2.2	<0.05	1.4	3.84	22.1	0.03	<1	1.0	29.3	<10	3
1096732	Soil	0.16	15.4	5.8	<0.05	1.7	7.90	15.8	0.02	<1	1.9	27.1	<10	<2
1096733	Soil	0.24	26.2	2.6	<0.05	1.8	3.45	20.3	0.04	<1	1.3	36.0	<10	<2
1096734	Soil	0.50	22.1	2.4	<0.05	1.2	2.66	19.9	0.03	<1	1.3	25.6	<10	<2
1096735	Soil	0.38	17.4	2.6	<0.05	1.4	4.26	24.9	0.03	<1	1.1	35.6	<10	<2
1096736	Soil	0.14	15.0	2.6	<0.05	6.5	35.35	20.7	0.04	<1	2.4	56.3	<10	4
1096737	Soil	0.23	9.9	1.7	<0.05	4.5	16.67	24.0	0.04	<1	1.3	26.0	<10	2
1096738	Soil	0.16	13.7	1.8	<0.05	4.2	33.69	29.0	0.06	1	2.1	40.8	<10	<2
1096739	Soil	0.33	11.4	2.9	<0.05	2.2	9.53	26.4	0.04	<1	1.2	41.1	<10	<2
1096740	Soil	0.15	5.6	3.4	<0.05	4.9	20.88	18.5	0.04	<1	1.5	16.9	10	3
1096741	Soil	0.08	11.2	2.3	<0.05	10.5	36.07	33.9	0.05	3	2.0	53.1	<10	<2
1096742	Soil	0.16	10.8	1.3	<0.05	1.8	13.19	27.7	0.04	<1	1.6	23.5	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1097312	Soil			5.59	8.98	435.4	1949	517	6.9	3.1	960	5.05	20.6	1.5	0.8	0.7	95.0	1.96	5.03	0.09	10	12.11	0.075
1097313	Soil			2.28	16.04	212.0	732.5	294	21.2	9.2	1132	3.56	16.4	1.6	0.8	1.8	27.1	0.74	1.21	0.22	31	1.67	0.135
1097314	Soil			1.26	21.02	54.47	272.1	337	23.4	8.2	371	2.65	21.1	2.8	2.5	2.2	94.0	0.80	1.55	0.21	25	1.42	0.062
1097315	Soil			1.23	30.50	59.68	188.4	403	29.1	10.5	492	3.05	28.5	1.5	5.8	4.0	70.8	0.63	1.51	0.20	30	1.06	0.059
1097316	Soil			0.47	20.13	15.47	91.4	78	26.6	9.0	182	2.22	3.1	2.3	0.8	3.8	49.7	0.15	0.32	0.17	21	0.95	0.063
1097317	Soil			0.33	41.38	17.53	101.6	119	31.0	9.2	229	2.19	3.9	4.8	2.3	2.7	57.8	0.14	0.38	0.26	21	1.60	0.074
1097318	Soil			2.05	18.28	38.58	176.9	117	27.8	11.1	489	3.49	15.9	1.5	<0.2	3.5	21.1	0.42	1.56	0.27	45	0.91	0.058
1097319	Soil			2.16	14.98	26.58	114.4	191	20.6	7.6	554	2.50	14.0	2.2	<0.2	1.3	34.3	0.47	0.83	0.23	53	4.14	0.111
1097320	Soil			1.92	16.09	18.06	85.8	128	21.4	7.2	321	2.09	10.2	1.7	0.6	1.0	64.3	0.42	0.70	0.16	31	5.23	0.097
1097321	Soil			2.50	14.00	23.18	109.9	91	19.6	6.8	297	1.93	13.3	1.2	0.3	1.3	89.3	0.32	0.43	0.13	22	7.84	0.085
1097322	Soil			1.38	24.27	48.82	230.2	101	24.8	10.9	574	2.54	9.5	1.4	<0.2	3.2	74.3	0.42	0.55	0.21	16	4.07	0.074
1098301	Soil			0.67	21.72	39.66	162.2	235	21.2	7.3	2634	5.74	40.3	1.9	1.1	1.6	19.9	0.52	2.18	0.24	27	4.10	0.208
1098302	Soil			0.50	12.13	21.43	47.6	117	12.9	6.1	2048	2.87	23.4	0.6	<0.2	0.7	22.4	0.21	1.41	0.11	17	5.19	0.151
1098303	Soil			0.68	18.39	55.34	187.0	180	20.6	9.6	701	2.37	15.4	0.7	0.5	2.2	25.6	0.29	0.89	0.21	23	6.13	0.122
1098304	Soil			1.74	31.21	22.56	77.5	61	26.8	13.2	1936	3.98	19.9	0.9	1.5	2.7	13.2	0.17	0.82	0.32	35	0.85	0.069
1098305	Soil			0.67	22.49	25.61	62.0	195	14.6	3.0	199	2.91	6.1	0.8	0.6	2.7	10.7	0.16	0.37	0.38	16	0.58	0.097
1098306	Soil			1.01	17.36	21.24	73.4	209	19.2	8.7	426	4.04	7.2	0.8	0.7	3.7	8.4	0.17	0.45	0.30	43	0.08	0.058
1098307	Soil			0.57	12.50	21.51	50.5	129	16.1	6.8	1677	2.57	15.2	0.6	3.5	1.0	20.8	0.34	1.16	0.21	21	4.86	0.099
1098308	Soil			0.67	22.64	19.92	47.4	139	16.7	9.6	388	3.06	9.3	0.5	0.9	2.3	4.7	0.07	0.42	0.35	29	0.04	0.030
1098309	Soil			0.71	8.90	17.05	35.2	57	9.7	4.6	781	3.64	4.6	0.4	1.4	2.1	3.6	0.17	0.28	0.18	23	0.11	0.038
1098310	Soil			0.66	15.34	17.37	45.1	100	11.5	6.5	237	3.08	5.6	0.3	0.7	3.2	3.9	0.07	0.30	0.34	33	0.03	0.027
1098311	Soil			0.96	18.35	22.04	73.5	186	18.8	7.6	269	3.68	6.5	0.4	1.5	3.2	6.4	0.10	0.45	0.35	43	0.05	0.032
1098312	Soil			0.74	32.67	54.19	76.7	233	23.4	13.2	1607	2.50	6.9	1.1	1.5	1.1	100.2	0.19	0.31	0.28	13	1.87	0.097
1098313	Soil			0.58	28.78	31.91	83.9	126	24.0	10.3	654	3.21	7.7	1.1	1.1	2.0	82.3	0.13	0.41	0.34	20	1.37	0.120
1098314	Soil			0.85	27.25	34.72	89.0	118	21.4	12.5	663	4.02	9.8	0.7	0.4	0.8	7.1	0.16	0.54	0.37	29	0.04	0.093
1098315	Soil			0.68	24.71	39.37	100.3	158	19.1	20.1	1510	3.93	8.6	0.7	1.1	0.5	16.1	0.33	0.42	0.40	22	0.19	0.140
1098049	Soil			0.66	19.14	41.38	99.2	191	24.0	8.4	1401	3.50	32.3	1.4	1.7	1.5	10.3	0.38	1.91	0.23	20	0.86	0.098
1098067	Soil			0.52	15.44	35.03	81.3	142	16.5	6.1	456	2.42	14.5	1.3	10.3	2.6	16.8	0.11	0.90	0.22	19	0.63	0.103
1098068	Soil			0.72	14.49	28.13	105.3	104	17.2	6.5	1746	4.83	22.2	1.3	0.8	2.2	10.7	0.31	1.21	0.27	35	0.80	0.125
1098069	Soil			0.58	25.28	47.93	110.4	131	19.7	10.9	2685	4.48	48.9	1.0	1.0	2.3	10.1	0.32	3.13	0.26	19	1.61	0.113



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 25, 2011

Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15						
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf					
			ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm						
			0.5	0.5	0.01	0.5	0.001			1	0.01	0.001	0.01	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.1	0.02
1097312	Soil		3.6	8.3	6.35	40.7	0.002	3	0.31	0.010	0.03	<0.1	1.1	2.97	<0.02	1433	0.7	0.02	1.0	0.50	<0.1	0.03					
1097313	Soil		10.2	22.4	0.93	103.6	0.007	5	1.32	0.008	0.09	0.1	2.6	0.65	0.07	537	0.6	0.03	3.6	7.32	<0.1	0.07					
1097314	Soil		14.8	18.3	0.30	81.7	0.006	4	0.81	0.006	0.09	0.1	3.7	0.26	0.05	634	0.9	<0.02	2.5	3.40	<0.1	0.06					
1097315	Soil		21.7	27.0	0.52	100.8	0.004	5	0.79	0.004	0.12	<0.1	6.6	0.34	0.04	478	1.3	0.04	2.4	5.22	<0.1	0.09					
1097316	Soil		21.6	35.2	1.43	430.6	0.004	5	1.41	0.004	0.09	<0.1	4.7	0.08	0.06	64	1.2	<0.02	4.4	1.60	<0.1	0.12					
1097317	Soil		14.0	29.4	0.80	216.3	0.005	4	1.50	0.005	0.09	<0.1	4.5	0.09	0.07	93	1.2	<0.02	4.4	2.54	<0.1	0.12					
1097318	Soil		15.9	27.9	0.57	147.5	0.004	3	1.56	0.003	0.12	0.1	3.7	0.22	0.03	720	0.4	<0.02	4.3	1.66	<0.1	0.05					
1097319	Soil		17.3	23.6	1.70	125.9	0.006	4	1.26	0.006	0.08	0.1	2.6	0.21	0.07	118	0.5	0.08	3.7	1.18	<0.1	0.05					
1097320	Soil		13.0	19.2	1.95	138.5	0.005	8	0.94	0.008	0.12	<0.1	2.3	0.22	0.09	80	0.7	0.04	2.5	1.04	<0.1	0.08					
1097321	Soil		11.4	16.2	3.40	103.6	0.004	8	0.71	0.009	0.13	<0.1	2.4	0.25	0.05	707	0.6	0.05	2.0	1.15	<0.1	0.04					
1097322	Soil		9.7	17.1	1.92	99.1	0.002	6	0.79	0.005	0.15	<0.1	2.9	0.34	0.04	846	0.6	0.05	2.2	3.05	<0.1	0.06					
1098301	Soil		16.3	17.9	1.94	149.6	0.004	5	1.07	0.006	0.08	0.1	2.6	0.15	0.11	284	0.8	0.07	2.6	0.33	<0.1	0.10					
1098302	Soil		7.2	11.2	2.60	89.0	0.003	5	0.73	0.006	0.04	<0.1	1.2	0.09	0.06	109	0.8	0.04	1.6	0.26	<0.1	0.05					
1098303	Soil		11.3	15.1	3.29	71.8	0.004	4	0.86	0.010	0.09	0.1	3.0	0.10	0.04	269	0.7	0.06	2.2	0.73	<0.1	0.07					
1098304	Soil		7.8	22.1	0.59	161.1	0.007	4	1.18	0.004	0.19	0.1	3.4	0.16	0.03	46	0.3	0.03	3.8	1.59	<0.1	0.02					
1098305	Soil		6.2	15.4	0.23	117.6	0.002	2	1.04	0.005	0.09	<0.1	3.6	0.10	0.07	55	0.6	0.04	3.2	1.31	<0.1	0.16					
1098306	Soil		10.1	29.8	0.30	90.6	0.006	3	1.70	0.002	0.09	<0.1	2.4	0.08	<0.02	24	0.4	<0.02	6.2	1.05	<0.1	0.05					
1098307	Soil		8.5	13.8	2.70	79.8	0.007	3	0.93	0.006	0.05	<0.1	1.4	0.11	<0.02	146	0.4	0.03	2.1	0.43	<0.1	0.03					
1098308	Soil		6.9	16.4	0.14	99.9	0.005	2	1.03	0.001	0.17	<0.1	1.7	0.11	<0.02	25	0.1	0.03	4.7	0.76	<0.1	<0.02					
1098309	Soil		4.5	10.5	0.08	85.4	0.003	2	0.68	0.002	0.08	<0.1	1.1	0.07	<0.02	23	0.1	0.03	2.6	0.46	<0.1	<0.02					
1098310	Soil		6.4	18.1	0.16	87.0	0.003	1	1.39	<0.001	0.13	<0.1	1.8	0.12	<0.02	25	0.1	0.04	6.0	1.10	<0.1	0.02					
1098311	Soil		7.9	28.6	0.32	100.1	0.005	1	1.71	0.002	0.12	<0.1	2.1	0.10	<0.02	24	0.1	0.02	6.6	1.04	<0.1	0.02					
1098312	Soil		5.7	18.9	0.40	102.2	0.003	6	1.06	0.011	0.08	<0.1	4.8	0.09	0.12	103	0.4	0.05	3.1	1.97	<0.1	0.06					
1098313	Soil		8.6	22.0	0.37	102.7	0.003	4	1.50	0.006	0.09	<0.1	4.0	0.09	0.12	28	0.3	0.03	4.4	1.79	<0.1	0.08					
1098314	Soil		4.3	23.3	0.28	78.8	0.004	2	1.62	<0.001	0.11	<0.1	1.2	0.11	0.06	30	0.3	0.07	4.8	2.58	<0.1	0.04					
1098315	Soil		3.5	19.9	0.24	133.0	0.003	2	1.17	0.003	0.11	<0.1	0.7	0.10	0.09	24	0.3	0.05	3.4	2.19	<0.1	0.02					
1098049	Soil		13.3	15.0	0.41	88.0	0.004	2	0.74	0.003	0.07	0.1	2.1	0.12	0.04	173	0.4	0.04	1.9	0.41	<0.1	0.02					
1098067	Soil		13.6	15.3	0.36	75.7	0.002	2	1.50	<0.001	0.06	<0.1	2.6	0.07	0.05	180	0.2	0.05	2.8	0.29	<0.1	0.07					
1098068	Soil		16.2	22.9	0.40	161.6	0.008	3	1.60	0.003	0.09	<0.1	3.0	0.13	0.07	94	0.3	0.07	3.8	0.75	<0.1	0.04					
1098069	Soil		12.7	12.8	0.78	142.3	0.004	5	0.87	0.006	0.10	<0.1	3.1	0.15	0.07	233	0.5	0.07	2.2	0.32	<0.1	0.08					



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1097312	Soil	0.06	2.9	2.0	<0.05	1.0	5.48	6.9	<0.02	<1	0.4	3.2	<10	<2
1097313	Soil	0.37	11.8	5.9	<0.05	2.0	10.85	20.6	<0.02	<1	1.2	13.7	<10	<2
1097314	Soil	0.30	10.4	1.6	<0.05	2.3	12.10	27.4	<0.02	2	0.7	8.4	<10	<2
1097315	Soil	0.19	10.6	2.2	<0.05	2.7	16.23	39.9	0.04	<1	1.2	11.1	<10	<2
1097316	Soil	0.36	8.1	2.8	<0.05	4.8	14.37	42.9	0.03	<1	0.8	29.6	<10	<2
1097317	Soil	0.50	8.3	1.7	<0.05	5.0	16.75	25.8	0.03	<1	1.3	31.7	<10	<2
1097318	Soil	0.44	13.2	3.0	<0.05	2.2	10.63	34.3	0.02	<1	1.0	17.7	<10	<2
1097319	Soil	0.57	9.0	1.1	<0.05	1.8	16.55	30.6	0.03	<1	0.7	10.7	<10	<2
1097320	Soil	0.48	9.5	1.9	<0.05	2.5	12.60	23.3	0.02	1	0.9	8.2	<10	2
1097321	Soil	0.30	8.4	1.6	<0.05	2.2	11.17	23.4	<0.02	3	0.8	6.9	<10	<2
1097322	Soil	0.17	10.4	4.5	<0.05	3.2	9.21	22.7	<0.02	<1	1.1	14.0	<10	<2
1098301	Soil	0.26	4.4	2.6	<0.05	2.3	24.83	26.2	0.02	2	0.9	4.8	<10	<2
1098302	Soil	0.11	3.2	2.0	<0.05	1.1	13.98	16.2	0.02	<1	0.4	3.7	<10	<2
1098303	Soil	0.27	4.7	2.7	<0.05	1.8	10.46	20.0	<0.02	<1	0.6	7.0	<10	<2
1098304	Soil	0.38	14.8	5.0	<0.05	0.7	4.49	22.2	<0.02	<1	1.4	10.1	<10	<2
1098305	Soil	0.28	8.9	1.9	<0.05	3.5	7.48	12.2	0.04	<1	0.7	11.2	<10	<2
1098306	Soil	0.83	11.8	3.1	<0.05	2.0	3.13	23.7	<0.02	2	0.7	29.1	<10	<2
1098307	Soil	0.20	4.3	1.4	<0.05	0.8	8.07	17.5	0.03	<1	0.6	6.6	<10	<2
1098308	Soil	0.51	12.9	1.7	<0.05	0.3	2.53	15.4	0.02	<1	0.5	6.3	<10	<2
1098309	Soil	0.34	8.4	1.8	<0.05	0.4	1.84	11.0	0.03	<1	0.3	3.5	<10	<2
1098310	Soil	0.32	15.4	1.3	<0.05	0.8	2.15	13.9	0.02	<1	0.4	12.2	<10	<2
1098311	Soil	0.53	12.5	3.4	<0.05	1.0	2.48	16.6	0.03	<1	0.7	31.7	<10	<2
1098312	Soil	0.27	5.7	6.1	<0.05	2.5	25.23	13.5	0.04	<1	1.2	28.8	<10	<2
1098313	Soil	0.37	10.1	3.0	<0.05	2.4	15.77	25.4	0.03	<1	1.0	34.0	<10	<2
1098314	Soil	0.29	11.6	1.5	<0.05	1.1	3.74	11.7	0.04	<1	0.8	24.8	<10	<2
1098315	Soil	0.15	9.3	2.7	<0.05	0.7	3.56	10.0	0.04	<1	0.7	14.9	<10	<2
1098049	Soil	0.14	4.5	1.1	<0.05	0.7	13.27	30.9	0.02	<1	0.7	4.5	<10	<2
1098067	Soil	0.24	4.1	2.4	<0.05	2.4	14.04	30.9	0.03	<1	0.8	5.6	<10	<2
1098068	Soil	0.44	9.5	2.7	<0.05	1.8	17.81	21.7	0.03	<1	0.9	9.5	<10	<2
1098069	Soil	0.19	5.0	2.1	<0.05	2.3	14.16	28.2	<0.02	<1	0.7	4.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method Analyte	Unit	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1098070	Soil	0.61	19.34	22.42	77.8	94	18.7	9.3	855	2.79	15.8	0.5	0.5	1.9	11.5	0.17	0.87	0.30	24	1.96	0.085
1098071	Soil	0.80	25.20	31.50	93.2	288	21.6	11.6	807	3.82	6.4	1.0	1.0	1.5	10.6	0.31	0.31	0.44	35	0.19	0.104
1098072	Soil	0.79	22.51	25.25	67.2	55	25.7	10.7	589	3.32	5.1	0.6	1.3	4.0	16.0	0.08	0.33	0.29	31	0.38	0.031
1098073	Soil	0.50	14.21	17.74	38.7	22	13.5	13.6	635	2.96	13.5	0.5	0.3	0.9	4.7	0.10	0.67	0.31	22	0.09	0.052
1098074	Soil	0.65	22.35	21.10	59.2	192	23.3	10.7	399	3.38	7.6	0.5	0.7	4.3	5.1	0.06	0.38	0.32	31	0.03	0.026
1098075	Soil	0.92	20.42	26.83	56.2	161	22.0	10.5	459	3.73	6.6	0.6	1.3	4.6	4.9	0.18	0.39	0.35	34	0.04	0.042
1098076	Soil	0.75	34.81	44.60	117.6	269	25.5	22.2	1659	4.29	5.6	0.5	0.6	3.1	9.5	0.14	0.27	0.45	36	0.11	0.063
1098077	Soil	0.59	40.68	49.64	101.1	237	32.8	17.0	750	4.19	14.1	1.1	1.2	3.5	52.2	0.11	0.50	0.39	23	0.75	0.066
1098078	Soil	0.41	34.17	49.34	90.8	163	26.4	16.0	1439	3.49	13.1	1.8	0.7	2.5	65.4	0.14	0.54	0.39	19	1.39	0.153
1098079	Soil	0.75	28.27	24.63	106.5	167	21.2	10.1	609	3.55	7.7	0.7	0.3	0.9	80.1	0.26	0.45	0.38	27	1.09	0.158
1098080	Soil	0.77	22.56	36.20	82.7	123	15.8	11.1	1776	3.77	6.5	0.6	0.4	0.5	8.4	0.28	0.40	0.26	26	0.11	0.126
1098081	Soil	0.57	18.95	45.19	41.7	207	5.2	2.2	71	6.18	7.9	0.3	<0.2	6.9	10.7	0.02	0.25	0.71	15	0.04	0.077
1097953	Soil	0.50	21.22	27.58	101.9	69	28.1	11.6	386	3.65	6.0	0.7	1.1	3.9	12.0	0.10	0.30	0.41	18	0.08	0.041
1097954	Soil	0.51	17.20	30.90	109.3	473	22.2	7.2	1033	2.62	5.6	1.5	1.0	0.7	93.1	0.30	0.31	0.26	20	2.91	0.209
1097955	Soil	0.78	17.70	21.14	71.6	218	23.6	8.7	426	2.70	7.7	1.3	1.4	2.3	33.4	0.15	0.51	0.23	31	0.67	0.072
1097956	Soil	0.90	21.49	26.82	91.8	334	28.6	10.0	443	2.76	9.9	1.0	2.5	2.6	51.4	0.29	0.75	0.27	28	2.64	0.096
1097957	Soil	0.64	19.09	35.91	93.3	161	27.0	10.3	487	2.90	11.1	1.3	0.3	2.3	54.9	0.26	0.80	0.30	27	1.39	0.065
1097958	Soil	0.57	18.55	34.38	37.5	231	27.8	10.4	1101	2.29	24.9	1.2	1.9	2.2	47.1	0.12	2.34	0.22	15	5.59	0.098
1097959	Soil	0.61	27.34	57.97	118.5	312	30.6	17.8	2158	2.91	16.8	1.5	0.8	1.4	107.4	0.55	1.53	0.27	16	9.14	0.156
1097960	Soil	0.61	17.53	23.99	52.6	234	15.5	7.0	911	2.33	7.3	2.0	0.8	0.6	108.1	0.39	0.73	0.22	27	3.40	0.201
1097961	Soil	0.55	26.24	27.27	65.1	24	21.6	14.6	501	3.37	7.6	0.5	0.4	3.2	8.6	0.10	0.56	0.33	24	0.31	0.031
1097962	Soil	0.87	29.18	30.48	134.5	185	31.3	13.0	656	3.04	8.8	1.5	2.7	2.9	67.7	0.35	0.61	0.29	27	3.60	0.073
1097963	Soil	0.74	26.56	40.78	92.5	78	27.2	15.5	700	4.02	6.5	0.9	0.6	5.8	15.3	0.12	0.34	0.38	25	0.38	0.036
1097964	Soil	0.72	26.19	37.39	48.2	62	28.1	18.0	1391	3.53	5.3	1.3	2.1	4.7	21.5	0.17	0.46	0.36	25	1.05	0.045
1097965	Soil	0.67	21.09	23.69	56.3	130	18.0	9.0	326	3.67	5.5	0.5	1.4	3.6	5.2	0.09	0.34	0.33	33	0.05	0.040
1097966	Soil	0.76	24.63	24.43	88.1	56	33.5	15.8	378	3.81	7.4	0.7	1.8	4.7	6.1	0.11	0.42	0.29	31	0.04	0.034
1097967	Soil	1.01	19.67	26.97	70.5	118	19.6	11.2	382	3.88	6.1	0.5	1.0	3.6	5.4	0.08	0.47	0.31	48	0.05	0.038
1097968	Soil	0.81	23.08	16.37	55.0	85	8.4	9.0	643	2.69	3.4	0.5	1.0	3.8	5.6	0.18	0.32	0.33	47	0.03	0.022
1097969	Soil	0.66	12.41	14.46	96.9	35	17.6	7.2	218	3.07	5.4	0.5	1.3	3.4	4.7	0.07	0.30	0.22	34	0.03	0.019
1097970	Soil	0.65	13.67	17.10	68.1	117	16.2	6.1	276	2.57	3.6	0.6	0.7	3.4	8.3	0.07	0.20	0.26	37	0.14	0.028



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1098070	Soil	10.2	16.6	1.12	117.8	0.005	6	1.03	0.005	0.16	<0.1	2.8	0.12	0.04	77	0.2	0.03	2.8	1.63	<0.1	0.06
1098071	Soil	9.5	30.9	0.25	238.9	0.004	3	1.72	0.003	0.18	<0.1	1.8	0.15	0.05	36	0.2	0.04	7.1	1.69	<0.1	0.04
1098072	Soil	9.0	29.6	0.42	142.1	0.003	<1	1.75	0.004	0.09	<0.1	3.3	0.09	<0.02	39	0.1	0.03	5.4	0.98	<0.1	0.05
1098073	Soil	4.6	12.9	0.12	164.0	0.005	3	0.84	0.003	0.18	0.1	1.7	0.11	0.03	43	0.2	0.07	2.9	3.04	<0.1	<0.02
1098074	Soil	7.7	24.3	0.32	90.2	0.004	2	1.61	0.001	0.15	<0.1	2.4	0.13	<0.02	40	0.2	0.03	5.4	1.23	<0.1	0.03
1098075	Soil	9.6	27.6	0.29	117.7	0.006	2	1.68	0.002	0.21	<0.1	2.4	0.13	<0.02	29	0.3	0.03	5.7	1.41	<0.1	<0.02
1098076	Soil	6.7	32.1	0.28	159.7	0.002	1	2.00	0.004	0.16	<0.1	3.1	0.12	0.03	47	0.2	0.03	7.8	1.62	<0.1	0.03
1098077	Soil	11.1	23.9	0.53	128.0	0.003	4	1.66	0.005	0.08	<0.1	7.7	0.12	0.06	63	0.3	0.05	4.8	3.49	<0.1	0.11
1098078	Soil	15.1	21.7	0.41	130.9	0.003	6	1.57	0.005	0.13	<0.1	7.8	0.09	0.13	65	0.4	0.06	4.2	2.31	<0.1	0.09
1098079	Soil	3.8	22.2	0.28	115.8	0.005	3	1.19	0.004	0.12	<0.1	1.7	0.09	0.09	15	0.4	0.07	4.9	1.78	<0.1	0.04
1098080	Soil	3.0	20.5	0.20	124.6	0.004	2	1.18	0.004	0.09	<0.1	0.7	0.11	0.09	59	0.4	0.03	4.1	3.27	<0.1	<0.02
1098081	Soil	2.8	16.3	0.05	77.5	<0.001	2	0.67	0.004	0.09	<0.1	3.3	0.24	0.04	37	0.5	0.04	3.6	3.35	<0.1	<0.02
1097953	Soil	6.8	19.7	0.29	91.9	0.004	3	1.37	0.003	0.12	<0.1	2.9	0.14	0.02	24	0.2	<0.02	4.0	2.47	<0.1	0.03
1097954	Soil	11.7	16.4	0.15	204.4	0.003	4	1.13	0.010	0.09	<0.1	1.3	0.08	0.11	196	0.6	<0.02	3.1	0.50	<0.1	0.03
1097955	Soil	17.8	20.7	0.31	133.0	0.006	2	1.38	0.004	0.07	<0.1	3.0	0.12	0.03	187	0.3	0.02	3.5	0.78	<0.1	0.03
1097956	Soil	15.2	21.0	1.18	138.9	0.012	5	1.11	0.009	0.12	0.1	3.1	0.18	0.04	219	0.5	<0.02	3.1	0.94	<0.1	0.06
1097957	Soil	14.6	20.7	0.25	123.4	0.003	3	1.42	0.006	0.10	<0.1	3.2	0.13	0.04	71	0.7	0.03	3.7	0.69	<0.1	0.04
1097958	Soil	10.0	12.5	2.33	64.0	0.001	4	0.78	0.004	0.09	<0.1	2.4	0.08	0.03	93	0.5	0.04	1.8	0.25	<0.1	0.11
1097959	Soil	24.2	15.0	0.49	124.2	0.002	4	1.28	0.008	0.10	<0.1	1.8	0.08	0.07	168	0.8	0.06	2.6	0.24	<0.1	0.08
1097960	Soil	19.5	18.4	0.36	113.1	0.007	3	1.40	0.009	0.06	<0.1	1.3	0.07	0.14	156	0.6	0.06	3.1	0.63	<0.1	0.03
1097961	Soil	6.6	21.7	0.32	63.3	0.003	2	1.50	0.003	0.12	<0.1	2.6	0.10	<0.02	42	0.2	0.05	5.0	1.16	<0.1	0.03
1097962	Soil	13.0	22.0	0.45	129.6	0.003	5	1.35	0.008	0.19	<0.1	3.2	0.12	0.05	87	0.3	0.02	3.8	0.61	<0.1	0.06
1097963	Soil	11.6	22.7	0.28	141.5	0.005	4	1.60	0.003	0.23	<0.1	3.9	0.14	0.04	29	0.2	0.02	4.7	1.80	<0.1	0.04
1097964	Soil	14.2	23.4	0.24	172.3	0.002	3	1.38	0.003	0.18	<0.1	4.9	0.17	0.04	33	0.2	0.03	4.7	0.83	<0.1	0.06
1097965	Soil	7.9	25.4	0.23	83.3	0.004	3	1.40	0.002	0.15	<0.1	2.5	0.16	<0.02	33	0.1	0.02	6.2	1.41	<0.1	<0.02
1097966	Soil	10.4	33.6	0.69	76.1	0.005	2	1.92	0.002	0.09	<0.1	2.6	0.13	<0.02	33	0.2	0.04	5.7	2.33	<0.1	0.07
1097967	Soil	8.3	31.7	0.34	103.2	0.005	1	1.95	0.003	0.08	0.1	2.5	0.16	<0.02	29	0.2	0.04	7.2	2.29	<0.1	0.03
1097968	Soil	9.1	19.6	0.09	112.7	0.003	<1	1.39	0.003	0.07	<0.1	1.9	0.13	<0.02	31	0.2	0.03	7.5	0.98	<0.1	0.03
1097969	Soil	8.8	25.5	0.46	71.8	0.005	1	1.51	0.001	0.07	<0.1	1.8	0.12	<0.02	15	0.1	0.04	6.0	1.38	<0.1	0.05
1097970	Soil	9.3	26.9	0.37	141.7	0.002	<1	1.92	0.003	0.07	<0.1	2.4	0.16	<0.02	20	<0.1	0.02	6.8	1.33	<0.1	0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 25, 2011

Page: 9 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1098070	Soil	0.31	8.7	1.6	<0.05	1.7	10.88	19.0	0.02	<1	0.9	8.0	<10	<2
1098071	Soil	0.41	20.7	5.5	<0.05	0.8	7.31	23.3	0.04	<1	1.0	9.7	<10	<2
1098072	Soil	0.39	10.3	5.5	<0.05	1.6	6.52	20.3	0.03	<1	0.8	25.7	<10	<2
1098073	Soil	0.25	14.3	1.8	<0.05	0.1	2.35	12.0	0.03	<1	1.2	6.1	<10	<2
1098074	Soil	0.41	13.5	1.3	<0.05	1.2	3.25	20.1	0.03	<1	0.8	22.4	<10	<2
1098075	Soil	0.56	16.9	4.0	<0.05	0.9	3.09	22.6	0.04	<1	0.8	23.5	<10	<2
1098076	Soil	0.39	16.0	4.3	<0.05	1.3	5.72	18.6	0.05	<1	1.4	31.0	<10	<2
1098077	Soil	0.22	7.9	1.4	<0.05	3.7	25.31	25.7	0.04	<1	1.1	44.4	<10	<2
1098078	Soil	0.25	7.8	1.0	<0.05	2.9	35.49	36.9	0.05	<1	1.6	36.0	<10	<2
1098079	Soil	0.34	16.3	2.2	<0.05	0.9	3.58	11.4	0.03	<1	0.6	19.8	<10	<2
1098080	Soil	0.20	12.9	2.6	<0.05	0.4	2.72	8.7	0.03	<1	0.7	14.3	<10	<2
1098081	Soil	0.02	10.5	1.9	<0.05	1.5	1.80	7.5	0.07	<1	0.4	4.7	<10	<2
1097953	Soil	0.34	12.3	1.3	<0.05	1.3	5.34	20.3	0.03	<1	1.0	28.8	<10	<2
1097954	Soil	0.31	7.0	1.1	<0.05	1.3	13.01	23.3	0.02	<1	1.0	9.6	<10	<2
1097955	Soil	0.43	6.9	0.9	<0.05	1.6	13.63	47.3	0.03	<1	0.9	13.4	<10	<2
1097956	Soil	0.51	8.1	2.7	<0.05	1.8	13.52	33.3	0.03	<1	0.7	12.7	<10	<2
1097957	Soil	0.47	8.1	0.6	<0.05	1.3	11.86	39.4	0.03	<1	1.0	10.0	<10	<2
1097958	Soil	0.15	4.6	2.9	<0.05	4.0	15.87	24.7	0.02	<1	0.6	4.0	<10	<2
1097959	Soil	0.18	5.8	9.3	<0.05	2.1	27.43	44.2	0.04	<1	1.1	5.5	<10	<2
1097960	Soil	0.61	7.9	1.6	<0.05	0.9	14.23	30.4	0.03	<1	0.9	8.0	<10	<2
1097961	Soil	0.42	12.1	2.9	<0.05	1.0	3.16	17.4	0.03	<1	0.9	21.3	<10	<2
1097962	Soil	0.45	10.0	2.3	<0.05	2.1	10.25	30.7	0.03	<1	1.0	17.2	<10	<2
1097963	Soil	0.48	16.2	1.8	<0.05	1.2	7.89	31.5	0.04	<1	1.2	19.4	<10	<2
1097964	Soil	0.37	16.0	5.4	<0.05	1.8	16.97	42.5	0.05	2	1.4	15.1	<10	<2
1097965	Soil	0.62	19.0	1.9	<0.05	0.9	2.98	19.1	0.04	2	0.6	14.6	<10	<2
1097966	Soil	0.39	12.4	1.8	<0.05	2.7	3.51	24.4	0.04	2	1.1	42.1	<10	<2
1097967	Soil	0.91	16.9	4.5	<0.05	1.4	3.30	18.7	0.04	1	1.1	39.0	<10	<2
1097968	Soil	0.50	15.4	1.3	<0.05	1.6	2.65	19.7	0.03	3	0.5	7.6	<10	<2
1097969	Soil	0.35	14.5	2.3	<0.05	2.5	2.03	19.1	0.03	2	0.4	35.1	<10	<2
1097970	Soil	0.47	13.5	1.9	<0.05	1.0	3.24	20.1	0.03	2	0.7	29.9	<10	<2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

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Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: September 25, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1097971	Soil			0.99	43.77	75.01	104.6	129	28.1	24.8	899	4.55	20.1	1.4	1.0	4.4	9.5	0.07	0.51	0.38	20	0.03	0.046
1097972	Soil			1.29	30.54	62.34	44.5	345	7.7	2.8	87	7.11	14.9	0.5	1.2	5.7	6.2	0.04	0.76	0.57	27	0.01	0.068
1097973	Soil			1.28	17.21	121.7	50.0	281	11.2	4.0	60	4.26	23.9	1.8	0.8	6.0	216.5	0.05	1.16	0.44	13	0.04	0.123
1097974	Soil			1.39	41.14	79.50	259.8	282	151.5	47.3	5148	5.31	6.0	1.0	1.1	8.2	19.0	0.60	0.41	0.40	14	0.06	0.042
1097975	Soil			0.88	52.11	63.24	264.6	235	55.6	21.5	240	9.38	9.6	0.7	0.6	6.0	13.3	<0.01	0.32	0.60	23	0.02	0.072
1097976	Soil			0.78	31.26	55.04	101.5	252	30.8	16.9	919	5.08	9.3	1.0	0.7	2.4	24.8	0.05	0.38	0.32	17	0.18	0.091
1097977	Soil			0.51	22.05	32.09	104.9	96	30.1	12.1	444	4.45	4.5	0.6	0.6	3.0	8.0	0.07	0.23	0.36	16	0.03	0.067
1097978	Soil			0.96	42.04	72.58	145.7	181	33.6	12.4	601	6.94	9.5	1.0	1.2	5.0	31.5	0.08	0.47	0.46	22	0.01	0.101
1097979	Soil			1.01	19.67	28.37	102.7	171	19.4	9.6	734	3.65	6.4	0.6	1.8	0.3	18.4	0.18	0.53	0.39	27	0.04	0.076
1097980	Soil			1.09	18.38	26.73	102.5	201	17.1	10.1	924	2.93	5.3	0.6	0.7	0.2	13.2	0.38	0.56	0.33	28	0.04	0.082
1097981	Soil			0.45	27.99	38.19	116.3	183	39.9	15.7	899	4.41	7.1	0.9	1.3	7.5	57.2	0.15	0.20	0.41	14	0.39	0.053
1097982	Soil			0.95	23.33	29.83	165.2	104	36.7	13.5	512	4.16	6.0	0.8	0.8	6.3	16.4	0.16	0.24	0.35	19	0.11	0.040
1097983	Soil			0.67	15.65	23.89	77.2	92	22.7	8.1	370	2.77	8.0	1.0	2.9	2.5	28.5	0.12	0.50	0.24	22	0.61	0.061
1097984	Soil			0.60	18.01	33.68	117.5	263	23.3	7.1	475	2.95	6.2	1.0	0.7	1.4	68.4	0.28	0.39	0.23	16	2.05	0.107
1097985	Soil			0.38	15.26	28.63	69.8	176	13.5	5.1	483	2.04	2.1	1.5	0.7	0.6	105.1	0.55	0.21	0.15	16	2.89	0.214
1097986	Soil			0.51	15.21	21.41	42.0	140	15.0	6.3	780	2.10	2.8	1.6	0.6	0.6	77.7	0.32	0.27	0.17	20	2.20	0.147
1097987	Soil			0.55	19.04	34.40	95.9	145	17.9	7.5	2319	4.53	11.9	1.4	1.0	0.8	56.8	0.50	1.13	0.18	22	7.32	0.144
1097988	Soil			0.72	19.47	24.15	99.2	171	22.4	9.3	1943	3.62	11.3	1.0	1.3	0.9	37.7	0.64	1.09	0.19	31	5.19	0.120
1097989	Soil			0.56	15.18	30.14	67.3	87	20.5	9.7	1910	4.00	12.0	1.2	1.4	3.4	18.5	0.18	0.94	0.22	28	4.42	0.080
1097990	Soil			0.71	14.26	21.54	64.3	14	22.3	10.3	391	3.67	6.5	0.5	0.5	3.4	6.6	0.07	0.45	0.24	36	0.13	0.022
1097991	Soil			0.44	21.45	24.85	70.9	17	26.5	14.2	547	3.71	4.9	0.5	0.7	4.4	9.6	0.04	0.24	0.31	30	0.17	0.021
1097992	Soil			0.66	17.49	20.25	58.9	46	22.3	10.8	1043	3.55	7.8	0.9	0.8	3.8	10.3	0.17	0.42	0.24	32	0.46	0.032
1097575	Soil			1.15	23.06	40.14	81.2	207	16.9	16.0	2114	4.30	10.3	0.7	4.0	0.2	9.6	0.22	0.71	0.23	36	0.09	0.125
1097576	Soil			1.20	25.76	42.11	92.6	152	24.8	18.8	1228	4.82	13.1	0.6	1.3	1.2	14.5	0.16	0.80	0.27	36	0.10	0.064
1097577	Soil			1.09	33.84	114.0	63.3	298	20.7	13.1	558	5.22	20.2	1.0	2.2	3.9	53.8	0.05	0.79	0.43	19	0.16	0.063
1097578	Soil			1.30	82.24	175.4	337.8	188	124.9	90.3	2294	6.59	28.8	2.2	1.4	5.1	15.8	0.15	0.88	0.39	25	0.07	0.057
1097579	Soil			0.69	35.13	38.49	120.8	174	37.1	17.5	612	3.96	11.1	1.2	1.4	3.5	40.6	0.15	0.47	0.34	21	0.35	0.063
1097580	Soil			0.70	22.36	30.96	119.7	75	26.1	12.3	762	3.62	8.0	0.7	2.7	2.9	22.3	0.14	0.54	0.33	23	0.49	0.077
1097581	Soil			0.68	16.48	28.76	100.9	24	21.9	12.2	774	4.02	8.3	0.7	1.1	3.3	10.3	0.18	0.89	0.29	36	0.11	0.042
1097582	Soil			0.37	13.70	33.08	166.6	71	19.7	7.9	917	2.47	4.2	0.7	1.4	1.9	36.5	0.66	0.43	0.26	22	0.99	0.060



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
			ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
			0.5	0.5	0.01	0.5	0.001			1	0.01	0.001	0.01	0.01	0.1	0.01	0.02	0.02	0.02	0.1	0.02	
1097971	Soil		3.9	19.0	0.28	88.5	0.003	3	1.36	0.004	0.11	<0.1	6.4	0.20	0.03	31	0.3	0.08	3.5	7.39	<0.1	0.04
1097972	Soil		3.2	25.1	0.11	50.4	0.003	2	0.85	0.003	0.08	<0.1	2.6	0.64	0.04	55	1.3	0.07	5.1	4.26	<0.1	0.08
1097973	Soil		5.9	11.6	0.09	199.0	<0.001	1	0.88	0.086	0.22	<0.1	6.0	0.29	0.75	49	0.4	0.10	2.6	2.96	<0.1	0.08
1097974	Soil		4.6	15.5	0.30	180.6	0.001	2	1.07	0.004	0.08	<0.1	5.6	0.69	0.03	130	0.6	0.03	2.7	2.82	<0.1	0.07
1097975	Soil		2.1	34.4	0.18	133.1	<0.001	2	1.25	0.002	0.06	<0.1	4.8	0.22	0.07	49	0.7	0.06	5.7	3.04	<0.1	0.09
1097976	Soil		5.0	19.2	0.20	250.4	0.001	2	1.21	0.006	0.09	<0.1	2.6	0.17	0.06	23	0.3	0.03	3.0	3.17	<0.1	0.04
1097977	Soil		3.3	20.3	0.29	106.8	0.002	2	1.52	0.003	0.09	<0.1	2.6	0.17	0.03	30	0.3	0.02	4.1	2.54	<0.1	0.06
1097978	Soil		3.7	23.5	0.14	71.5	0.002	2	2.13	0.016	0.10	<0.1	4.1	0.29	0.16	34	0.6	0.05	4.3	2.61	<0.1	0.12
1097979	Soil		5.7	19.3	0.13	114.0	0.005	2	1.09	0.007	0.11	<0.1	0.7	0.16	0.07	36	0.4	0.05	4.5	1.63	<0.1	<0.02
1097980	Soil		6.3	17.1	0.12	129.1	0.004	<1	0.93	0.005	0.09	<0.1	0.5	0.15	0.07	30	0.3	0.04	4.0	1.81	<0.1	<0.02
1097981	Soil		11.5	21.2	0.32	164.2	0.003	3	1.39	0.005	0.12	<0.1	7.7	0.24	0.04	56	0.4	0.03	4.1	2.96	<0.1	0.07
1097982	Soil		17.1	19.9	0.22	138.7	0.002	3	1.52	0.003	0.11	<0.1	6.6	0.27	0.02	55	0.4	0.03	4.3	2.38	<0.1	0.07
1097983	Soil		10.8	17.5	0.26	93.6	0.007	3	0.96	0.004	0.09	<0.1	3.1	0.12	0.03	107	0.4	0.03	2.9	0.79	<0.1	0.04
1097984	Soil		16.2	11.3	0.29	108.7	0.003	3	0.83	0.004	0.08	<0.1	2.4	0.13	0.06	139	0.4	0.04	2.0	0.53	<0.1	0.04
1097985	Soil		14.6	9.7	0.10	136.1	0.003	6	0.71	0.005	0.07	<0.1	1.0	0.11	0.14	143	0.5	<0.02	1.7	0.38	<0.1	0.03
1097986	Soil		15.2	12.2	0.11	136.4	0.003	5	0.84	0.005	0.07	<0.1	1.3	0.10	0.12	196	0.5	0.05	2.0	0.33	<0.1	0.03
1097987	Soil		14.4	14.3	3.02	88.5	0.004	5	1.01	0.008	0.07	<0.1	1.7	0.11	0.07	172	0.4	0.06	2.4	0.42	<0.1	0.03
1097988	Soil		14.8	20.3	1.97	116.7	0.009	3	1.29	0.008	0.07	0.1	2.1	0.12	0.06	139	0.4	0.04	3.3	0.70	<0.1	0.02
1097989	Soil		13.2	23.0	2.44	101.2	0.005	2	1.39	0.007	0.07	<0.1	3.6	0.14	0.03	124	0.3	0.04	4.0	0.73	<0.1	0.06
1097990	Soil		7.3	28.2	0.41	97.4	0.004	<1	1.79	0.003	0.08	<0.1	2.3	0.13	<0.02	21	0.1	0.04	5.9	0.94	<0.1	0.03
1097991	Soil		7.4	30.2	0.48	111.2	0.004	<1	1.83	0.003	0.10	<0.1	3.4	0.12	<0.02	24	0.1	0.03	6.8	1.11	<0.1	0.03
1097992	Soil		10.1	25.2	0.43	109.2	0.004	2	1.68	0.004	0.12	<0.1	3.8	0.13	<0.02	39	0.2	0.05	5.3	0.77	<0.1	0.05
1097575	Soil		5.6	22.6	0.20	137.8	0.008	2	1.20	0.004	0.09	<0.1	0.7	0.17	0.10	57	0.5	0.05	4.5	4.13	<0.1	<0.02
1097576	Soil		6.1	25.3	0.42	107.2	0.011	1	1.42	0.004	0.09	0.1	1.8	0.14	0.04	37	0.3	0.05	4.6	4.04	<0.1	<0.02
1097577	Soil		3.2	20.6	0.22	147.6	0.002	1	1.11	0.014	0.13	<0.1	4.8	0.42	0.15	97	0.7	0.07	3.7	3.95	<0.1	0.04
1097578	Soil		3.3	21.9	0.34	165.5	0.002	2	2.17	0.002	0.10	<0.1	8.5	0.19	0.02	39	0.3	0.09	4.0	6.85	<0.1	0.07
1097579	Soil		7.3	19.8	0.35	121.8	0.004	3	1.34	0.006	0.10	<0.1	4.9	0.16	0.03	47	0.3	0.06	3.7	2.58	<0.1	0.06
1097580	Soil		9.2	19.4	0.30	163.3	0.004	3	1.10	0.005	0.12	<0.1	3.3	0.17	0.04	75	0.3	0.04	4.1	1.50	<0.1	0.03
1097581	Soil		7.3	26.4	0.36	117.7	0.004	2	1.66	0.002	0.07	<0.1	2.6	0.13	<0.02	35	0.2	0.05	5.8	1.25	<0.1	0.03
1097582	Soil		11.0	15.2	0.15	132.5	0.003	5	1.12	0.004	0.07	<0.1	2.4	0.11	0.03	53	0.2	0.03	3.1	0.67	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 10 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1097971	Soil	0.10	14.8	0.8	<0.05	2.6	7.69	10.4	0.06	2	1.3	33.3	<10	<2
1097972	Soil	0.12	12.8	1.4	<0.05	5.9	1.91	7.9	0.08	2	0.3	7.9	<10	<2
1097973	Soil	<0.02	21.7	2.2	<0.05	6.3	4.35	22.0	0.08	3	0.8	12.5	<10	<2
1097974	Soil	0.05	7.5	1.8	<0.05	5.4	18.78	20.2	0.05	3	1.4	42.5	<10	<2
1097975	Soil	<0.02	8.1	2.0	<0.05	4.8	3.73	6.0	0.11	3	0.6	24.8	<10	<2
1097976	Soil	0.06	11.5	3.7	<0.05	1.9	7.79	13.5	0.04	2	0.9	21.9	<10	<2
1097977	Soil	0.30	11.8	1.0	<0.05	1.9	4.84	12.8	0.04	2	1.2	36.3	<10	<2
1097978	Soil	0.18	13.1	3.2	<0.05	4.3	4.26	10.1	0.07	2	1.2	18.3	<10	<2
1097979	Soil	0.18	15.3	2.1	<0.05	0.2	2.77	13.9	0.03	2	0.7	10.3	<10	<2
1097980	Soil	0.15	13.9	1.1	<0.05	0.1	2.72	14.3	0.04	2	0.5	7.4	<10	<2
1097981	Soil	0.20	12.6	2.3	<0.05	3.0	22.02	40.2	0.06	2	1.4	45.4	<10	<2
1097982	Soil	0.18	16.4	1.9	<0.05	2.2	22.07	65.8	0.05	2	1.3	31.4	<10	<2
1097983	Soil	0.33	9.2	1.4	<0.05	1.4	9.20	49.1	0.03	2	0.8	12.1	<10	<2
1097984	Soil	0.21	7.2	1.1	<0.05	1.5	17.57	36.2	0.03	2	0.9	5.4	<10	<2
1097985	Soil	0.19	6.4	0.4	<0.05	1.4	14.82	31.6	0.03	2	0.7	4.1	<10	<2
1097986	Soil	0.22	6.7	0.5	<0.05	1.0	12.92	37.6	0.03	2	0.8	4.8	<10	<2
1097987	Soil	0.14	5.8	2.4	<0.05	0.8	16.42	25.8	0.02	2	0.7	7.0	<10	<2
1097988	Soil	0.31	7.8	1.2	<0.05	0.7	19.17	29.8	0.03	2	0.7	11.1	<10	<2
1097989	Soil	0.43	10.1	1.3	<0.05	1.7	12.64	28.3	0.03	2	0.9	16.9	<10	<2
1097990	Soil	0.48	12.0	1.3	<0.05	1.3	2.73	18.0	0.03	1	0.8	31.4	<10	<2
1097991	Soil	0.32	13.8	1.7	<0.05	1.4	4.72	19.6	0.04	2	1.0	31.4	<10	<2
1097992	Soil	0.45	13.4	1.4	<0.05	1.9	6.37	29.4	0.04	2	0.9	17.4	<10	<2
1097575	Soil	0.28	12.4	3.2	<0.05	0.2	3.73	13.1	0.03	1	0.8	14.6	<10	<2
1097576	Soil	0.34	11.3	2.1	<0.05	0.2	3.67	15.9	0.03	1	0.8	41.4	<10	<2
1097577	Soil	0.08	11.9	2.3	<0.05	2.2	7.22	10.1	0.07	3	0.9	22.8	<10	<2
1097578	Soil	0.05	11.0	0.5	<0.05	4.0	22.60	11.7	0.06	1	3.4	70.9	<10	<2
1097579	Soil	0.16	9.5	1.1	<0.05	2.0	13.03	19.6	0.05	1	1.1	40.0	<10	<2
1097580	Soil	0.34	13.0	1.5	<0.05	0.8	6.78	28.0	0.04	2	0.9	17.5	<10	<2
1097581	Soil	0.41	10.2	2.3	<0.05	1.1	3.14	20.0	0.03	1	0.8	25.2	<10	<2
1097582	Soil	0.36	6.9	0.9	<0.05	2.3	7.44	28.9	0.03	<1	0.8	8.3	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15		
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%		
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1097583	Soil	0.60	21.58	30.23	78.6	207	22.0	8.9	525	2.60	8.7	2.6	1.8	0.7	118.0	0.26	0.76	0.28	26	2.75	0.146	
1097584	Soil	0.63	19.44	30.93	73.2	205	16.4	7.8	1288	2.59	6.9	2.1	0.6	0.3	144.0	0.72	0.66	0.29	20	5.81	0.206	
1097585	Soil	0.73	20.57	36.63	70.4	87	23.4	10.5	600	3.29	10.0	0.9	0.9	2.5	35.0	0.28	0.90	0.35	31	1.14	0.064	
1097586	Soil	0.81	15.21	27.34	75.9	107	21.8	11.8	756	3.60	8.0	0.7	0.4	1.8	21.9	0.21	0.57	0.34	38	0.44	0.054	
1097587	Soil	0.54	20.12	34.57	256.3	76	23.4	11.0	594	3.49	9.9	0.8	0.7	3.7	24.4	0.43	0.64	0.35	35	1.27	0.095	
1097588	Soil	0.71	19.64	28.58	98.6	142	20.7	7.9	858	3.38	10.4	2.1	1.0	1.0	90.3	0.30	0.79	0.29	34	1.73	0.187	
1097589	Soil	0.67	9.47	21.14	83.6	88	11.9	7.4	2761	3.99	9.0	1.2	0.4	0.7	13.4	0.50	0.52	0.28	39	0.98	0.140	
1097590	Soil	0.67	11.37	27.57	58.7	120	12.4	6.6	4458	4.36	10.5	1.0	0.8	0.6	18.8	0.59	0.96	0.19	28	3.80	0.154	
1097591	Soil	0.82	15.16	30.32	132.9	119	24.7	11.9	3407	5.74	20.5	0.7	1.5	3.2	8.7	0.35	1.74	0.29	49	1.59	0.097	
1097592	Soil	0.28	24.79	6.87	23.4	22	12.7	7.3	118	1.86	2.6	0.5	<0.2	2.2	3.3	0.03	0.29	0.31	16	0.07	0.028	
1097593	Soil	0.35	15.28	11.72	36.0	45	15.2	9.5	1096	2.65	5.4	0.5	0.4	2.5	6.5	0.06	0.28	0.31	22	0.29	0.047	
1097594	Soil	1.33	29.68	18.79	86.6	61	27.0	11.9	220	3.77	11.7	0.8	0.6	2.7	5.2	0.13	0.73	0.37	36	0.12	0.036	
1097595	Soil	0.80	25.12	18.49	67.9	96	21.2	10.7	548	3.71	5.4	0.6	0.5	3.4	7.0	0.17	0.38	0.36	40	0.11	0.038	
1097596	Soil	0.98	19.75	24.80	68.8	147	19.0	8.5	242	3.55	5.8	0.5	0.6	3.0	6.2	0.15	0.46	0.35	44	0.08	0.054	
1098082	Soil	0.93	24.99	36.48	90.5	152	22.6	12.7	1099	4.23	13.1	0.8	0.7	0.5	14.1	0.18	0.66	0.33	31	0.17	0.100	
1098083	Soil	0.70	32.77	42.47	127.1	232	37.6	16.8	931	4.33	8.1	1.4	1.4	4.8	54.8	0.16	0.48	0.41	17	0.61	0.057	
1098084	Soil	0.70	27.84	37.00	107.2	109	30.4	17.4	1529	4.81	9.0	1.0	0.8	2.5	22.7	0.13	0.60	0.38	29	0.24	0.069	
1098085	Soil	0.79	23.71	44.46	261.1	136	27.6	9.9	2476	6.34	21.2	1.9	1.1	2.8	37.0	0.63	1.74	0.33	39	1.92	0.131	
1098086	Soil	0.83	22.79	36.41	157.4	218	25.0	10.3	2603	6.04	28.1	1.9	10.6	2.7	20.2	0.51	1.95	0.28	39	1.99	0.192	
1098087	Soil	0.88	14.24	28.51	81.7	139	23.8	9.8	2676	4.78	17.1	0.9	1.8	3.4	10.4	0.30	1.13	0.23	42	1.40	0.055	
1098088	Soil	0.54	22.27	6.66	27.3	72	10.9	5.2	181	1.96	3.3	0.4	0.2	0.3	3.2	0.20	0.30	0.33	24	0.11	0.086	
1098089	Soil	0.59	20.30	29.36	86.2	207	18.6	16.5	1138	3.48	4.4	0.4	0.3	2.6	8.9	0.17	0.21	0.37	38	0.07	0.066	
1098090	Soil	1.14	28.66	74.05	123.1	334	29.2	39.0	4400	4.97	17.5	0.9	0.8	1.5	11.2	0.22	0.80	0.35	43	0.08	0.145	
1098091	Soil	1.02	21.57	29.80	98.7	89	25.7	12.2	419	3.99	9.6	0.6	1.4	1.3	7.7	0.17	0.67	0.29	34	0.04	0.054	
1098092	Soil	1.19	20.65	41.20	92.0	194	12.9	12.3	1246	4.31	6.5	0.7	1.6	0.2	6.4	0.35	0.62	0.40	41	0.04	0.191	
1098093	Soil	0.79	24.64	42.23	64.0	192	12.8	5.9	306	4.08	7.9	0.7	1.2	2.7	12.3	0.07	0.42	0.40	20	0.03	0.060	
1098094	Soil	0.67	28.09	33.32	144.6	131	36.9	15.2	760	4.42	8.0	0.7	0.8	5.7	35.1	0.17	0.24	0.42	16	0.32	0.038	
1098095	Soil	0.84	13.63	16.26	84.2	221	10.0	6.9	571	3.08	6.7	0.9	0.5	0.4	9.3	0.19	0.48	0.32	40	0.06	0.114	
1098096	Soil	0.72	28.43	29.61	116.5	137	18.8	7.4	385	4.55	7.1	0.5	0.6	1.3	9.6	0.22	0.42	0.43	21	0.05	0.069	
1098097	Soil	0.62	18.64	38.41	128.3	156	23.0	9.7	1292	4.25	10.3	1.8	0.7	1.7	45.1	0.35	0.74	0.30	28	1.77	0.134	



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097583	Soil	13.9	20.4	0.33	122.7	0.004	4	1.29	0.005	0.05	<0.1	1.5	0.09	0.12	232	0.4	0.06	3.7	0.59	<0.1	0.04
1097584	Soil	18.0	15.7	1.13	102.5	0.003	5	1.02	0.006	0.05	<0.1	1.0	0.06	0.16	157	0.5	0.10	2.4	0.61	<0.1	<0.02
1097585	Soil	20.4	22.3	0.29	140.8	0.004	3	1.40	0.003	0.09	0.1	4.3	0.14	0.05	69	0.2	0.08	4.0	0.74	<0.1	0.05
1097586	Soil	6.8	26.6	0.38	142.7	0.008	2	1.58	0.005	0.11	0.1	2.3	0.10	0.03	32	0.2	0.05	5.3	0.95	<0.1	0.02
1097587	Soil	18.1	29.6	0.49	131.1	0.002	3	2.00	0.005	0.12	<0.1	5.0	0.13	0.04	280	0.2	0.04	6.2	0.73	<0.1	0.12
1097588	Soil	22.3	25.3	0.44	166.3	0.006	4	1.58	0.005	0.07	0.1	1.9	0.10	0.10	145	0.4	0.04	4.1	0.73	<0.1	0.04
1097589	Soil	9.7	22.2	0.32	208.3	0.008	1	1.82	0.005	0.04	<0.1	1.9	0.12	0.09	82	0.2	0.05	5.0	0.82	<0.1	0.03
1097590	Soil	11.3	16.4	1.93	147.9	0.007	3	1.28	0.014	0.04	<0.1	1.5	0.13	0.09	173	0.5	0.05	3.0	0.58	<0.1	0.04
1097591	Soil	19.7	27.0	1.06	143.4	0.006	4	1.75	0.003	0.08	0.1	4.4	0.15	0.04	170	0.3	0.07	4.5	0.48	<0.1	0.10
1097592	Soil	7.7	12.5	0.17	45.5	0.003	3	0.82	<0.001	0.18	<0.1	2.0	0.11	<0.02	20	<0.1	0.05	3.0	1.06	<0.1	<0.02
1097593	Soil	6.1	16.3	0.24	95.3	0.003	3	1.15	0.002	0.19	<0.1	2.7	0.09	0.02	28	<0.1	0.05	4.0	0.35	<0.1	0.04
1097594	Soil	7.0	23.8	0.32	70.0	0.004	2	1.32	0.002	0.11	<0.1	2.4	0.10	<0.02	23	0.2	0.05	5.4	0.74	<0.1	<0.02
1097595	Soil	7.4	29.0	0.30	142.9	0.003	1	1.76	0.002	0.18	<0.1	2.7	0.14	<0.02	20	0.1	0.02	7.4	1.04	<0.1	<0.02
1097596	Soil	8.7	28.1	0.26	106.7	0.006	2	1.53	0.002	0.20	<0.1	2.3	0.16	0.02	43	0.2	0.04	7.4	1.02	<0.1	<0.02
1098082	Soil	5.7	23.3	0.31	93.5	0.006	3	1.36	0.003	0.09	<0.1	1.3	0.12	0.07	37	0.3	0.07	4.3	3.15	<0.1	<0.02
1098083	Soil	11.2	18.2	0.27	155.6	0.003	3	1.11	0.004	0.12	<0.1	5.4	0.22	0.05	138	0.5	0.02	3.0	1.83	<0.1	0.10
1098084	Soil	7.2	27.4	0.34	113.4	0.004	2	1.79	0.003	0.11	<0.1	3.1	0.15	0.04	49	0.3	0.03	5.6	1.80	<0.1	0.03
1098085	Soil	22.6	29.7	0.96	127.5	0.006	3	1.80	0.003	0.08	0.1	4.3	0.15	0.07	194	0.4	0.10	4.7	0.70	<0.1	0.10
1098086	Soil	18.1	24.4	1.06	162.6	0.009	3	1.53	0.005	0.07	0.1	3.9	0.17	0.06	343	0.4	0.08	4.1	0.60	<0.1	0.06
1098087	Soil	14.5	28.0	1.17	106.7	0.008	2	1.80	0.003	0.06	0.1	4.2	0.18	0.04	122	0.4	0.03	4.4	0.89	<0.1	0.08
1098088	Soil	4.0	12.4	0.08	70.8	0.004	5	0.70	0.002	0.19	<0.1	0.8	0.09	0.05	38	0.2	0.06	3.7	2.47	<0.1	<0.02
1098089	Soil	6.4	26.8	0.20	228.2	0.003	2	1.90	0.001	0.23	<0.1	2.4	0.17	0.03	41	0.2	0.03	7.8	1.17	<0.1	0.03
1098090	Soil	6.4	24.3	0.32	236.0	0.010	3	1.65	0.002	0.11	<0.1	2.9	0.22	0.05	75	0.4	0.06	5.1	5.90	<0.1	<0.02
1098091	Soil	6.7	23.1	0.27	61.9	0.009	3	1.47	0.003	0.07	0.1	1.9	0.11	0.03	53	0.3	0.06	4.5	2.22	<0.1	<0.02
1098092	Soil	4.1	25.1	0.09	85.2	0.004	2	1.33	0.004	0.08	<0.1	0.4	0.10	0.11	94	0.5	0.05	5.6	2.76	<0.1	0.02
1098093	Soil	4.6	18.9	0.17	70.9	0.002	3	1.05	0.007	0.09	<0.1	2.6	0.19	0.07	36	0.4	0.04	3.6	2.62	<0.1	0.04
1098094	Soil	8.7	19.7	0.28	104.4	0.002	3	1.32	0.004	0.10	<0.1	5.3	0.20	<0.02	42	0.4	<0.02	4.0	2.55	<0.1	0.05
1098095	Soil	8.1	18.8	0.14	91.0	0.005	2	1.30	0.002	0.07	0.1	0.9	0.17	0.05	72	0.2	0.02	6.2	1.83	<0.1	<0.02
1098096	Soil	6.2	19.0	0.12	74.7	0.004	2	0.90	0.002	0.12	<0.1	1.5	0.16	0.04	32	0.3	0.03	3.9	1.59	<0.1	<0.02
1098097	Soil	14.3	24.9	0.61	137.9	0.005	3	1.52	0.004	0.07	<0.1	3.1	0.13	0.09	153	0.5	0.05	4.2	0.99	<0.1	0.05



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Project: Scarlet
 Report Date: September 25, 2011

Page: 11 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1097583	Soil	0.53	6.7	1.7	<0.05	1.2	15.09	24.6	0.03	<1	0.9	12.4	<10	<2
1097584	Soil	0.32	8.5	0.8	<0.05	0.7	17.40	31.5	0.03	<1	1.0	5.9	<10	<2
1097585	Soil	0.55	11.3	1.4	<0.05	1.4	15.09	49.7	0.04	<1	1.1	11.6	<10	<2
1097586	Soil	0.66	14.3	1.1	<0.05	0.6	3.93	20.8	0.03	<1	0.9	21.8	<10	<2
1097587	Soil	0.44	11.5	1.2	<0.05	3.3	20.08	35.1	0.04	<1	1.4	16.4	<10	<2
1097588	Soil	0.45	9.4	0.9	<0.05	1.1	19.93	34.0	0.04	<1	1.0	12.0	<10	<2
1097589	Soil	0.50	5.9	1.1	<0.05	0.8	9.28	20.8	0.04	<1	0.9	11.7	<10	<2
1097590	Soil	0.26	5.4	0.4	<0.05	1.1	11.09	23.2	0.03	<1	1.2	6.7	<10	<2
1097591	Soil	0.37	10.0	0.8	<0.05	2.9	16.35	42.8	0.04	<1	0.9	11.0	<10	<2
1097592	Soil	0.31	14.9	0.7	<0.05	0.5	1.97	20.6	0.02	<1	0.6	6.4	<10	<2
1097593	Soil	0.28	12.3	0.7	<0.05	1.2	3.94	20.2	0.03	<1	0.8	8.7	<10	<2
1097594	Soil	0.60	11.6	1.9	<0.05	0.8	2.92	16.0	0.04	<1	0.5	20.4	<10	<2
1097595	Soil	0.44	17.9	1.2	<0.05	0.7	3.60	17.3	0.03	<1	0.8	25.3	<10	<2
1097596	Soil	0.82	21.0	3.4	<0.05	0.6	2.97	20.0	0.03	<1	0.6	18.7	<10	<2
1098082	Soil	0.25	10.6	1.5	<0.05	0.2	5.90	15.5	0.04	<1	0.9	30.4	<10	<2
1098083	Soil	0.24	10.7	2.8	<0.05	3.6	17.29	32.9	0.05	<1	1.2	25.1	<10	<2
1098084	Soil	0.32	16.4	1.5	<0.05	0.9	10.39	20.9	0.04	<1	1.3	28.0	<10	<2
1098085	Soil	0.40	10.4	1.6	<0.05	2.8	26.11	34.3	0.03	<1	1.2	14.3	<10	<2
1098086	Soil	0.38	7.2	0.8	<0.05	1.7	20.02	32.4	0.03	<1	0.9	12.1	<10	<2
1098087	Soil	0.40	7.9	1.1	<0.05	2.6	14.51	30.5	0.03	<1	1.3	14.4	<10	<2
1098088	Soil	0.39	19.5	1.3	<0.05	0.2	1.58	9.0	<0.02	<1	0.3	1.4	<10	<2
1098089	Soil	0.56	20.9	2.9	<0.05	0.8	2.87	15.3	0.03	<1	0.8	15.4	<10	<2
1098090	Soil	0.24	21.3	1.3	<0.05	0.3	7.17	20.9	0.04	<1	1.2	40.2	<10	<2
1098091	Soil	0.46	10.3	1.0	<0.05	0.4	3.89	18.9	0.03	<1	0.7	27.0	<10	<2
1098092	Soil	0.24	14.4	4.1	<0.05	0.6	2.57	9.1	0.03	<1	0.5	5.0	<10	<2
1098093	Soil	0.13	11.0	0.8	<0.05	1.3	3.57	12.0	0.05	<1	0.6	16.3	<10	<2
1098094	Soil	0.17	12.9	0.9	<0.05	2.1	13.73	34.2	0.05	<1	1.1	29.5	<10	<2
1098095	Soil	0.36	15.5	1.3	<0.05	0.2	3.18	19.2	0.03	<1	0.5	12.5	<10	<2
1098096	Soil	0.20	13.8	0.6	<0.05	0.5	3.96	16.9	0.05	<1	0.6	6.8	<10	<2
1098097	Soil	0.37	9.6	1.0	<0.05	1.6	15.17	31.6	0.03	<1	1.2	15.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1098901	Soil	0.69	27.98	49.93	289.1	238	28.3	11.8	4201	6.75	34.3	2.8	1.7	2.9	19.1	0.73	2.96	0.27	30	5.86	0.263
1098902	Soil	0.71	28.80	79.45	170.2	409	29.5	12.2	1270	3.61	19.4	4.0	3.5	6.3	48.8	0.33	2.29	0.32	32	4.48	0.280
1098903	Soil	0.76	15.99	26.96	147.0	125	23.0	8.7	1225	4.24	14.4	1.6	1.2	3.5	10.5	0.29	0.91	0.28	43	0.56	0.088
1098904	Soil	0.36	11.13	37.83	162.9	221	13.2	6.7	3572	3.70	10.7	0.9	0.5	1.3	23.2	0.36	1.12	0.18	29	5.64	0.120
1098905	Soil	0.53	17.91	48.90	138.8	203	20.2	10.3	3149	4.70	18.0	0.9	1.0	3.0	16.3	0.44	1.89	0.25	32	2.79	0.113
1098906	Soil	0.37	9.50	16.22	153.1	78	10.1	9.3	2236	4.39	17.1	0.8	1.2	1.1	11.5	0.34	0.79	0.16	15	5.04	0.130
1098907	Soil	0.76	33.54	60.01	112.1	118	35.8	43.8	2056	5.44	8.4	0.7	0.8	5.1	12.6	0.09	0.19	0.48	27	0.23	0.058
1098908	Soil	0.73	26.19	24.52	86.8	56	28.7	13.6	357	4.25	8.6	0.5	0.8	3.9	6.3	0.08	0.36	0.40	32	0.05	0.025
1098909	Soil	0.44	31.13	39.47	97.7	149	24.8	17.8	707	3.92	4.7	0.5	<0.2	3.0	13.8	0.12	0.11	0.45	30	0.15	0.043
1098910	Soil	0.48	33.19	28.41	109.3	28	30.0	20.1	657	4.40	5.0	0.4	0.9	3.2	6.0	0.07	0.14	0.47	33	0.04	0.036
1098911	Soil	1.02	25.27	30.51	103.0	55	36.8	16.7	462	3.20	12.7	0.7	1.3	3.5	12.0	0.18	0.75	0.29	28	0.11	0.058
1098912	Soil	1.40	23.52	24.00	96.5	89	20.9	13.2	756	3.82	10.5	0.7	0.9	0.3	6.9	0.21	0.85	0.31	42	0.04	0.061
1098913	Soil	1.04	34.32	66.81	114.4	222	30.7	17.2	625	3.96	18.5	0.8	0.5	1.2	12.0	0.13	0.68	0.39	24	0.05	0.065
1098914	Soil	1.13	28.05	32.23	115.1	115	22.6	12.6	835	4.20	12.5	0.6	0.5	0.7	8.2	0.22	0.67	0.40	34	0.04	0.073
1098915	Soil	0.74	28.41	38.09	53.1	266	10.8	4.9	182	4.18	8.7	0.7	1.0	3.1	11.6	0.07	0.36	0.43	18	0.03	0.049
1098916	Soil	0.96	22.09	22.87	119.9	157	23.2	10.2	509	3.75	7.5	0.6	0.7	0.5	6.1	0.23	0.42	0.40	24	0.03	0.088
1098917	Soil	0.46	17.33	23.67	79.9	70	18.4	11.2	782	3.56	5.2	0.6	0.4	0.6	5.2	0.09	0.23	0.44	21	0.02	0.095
1098918	Soil	0.73	22.97	38.13	133.4	165	21.9	24.4	2875	3.44	6.3	0.7	0.3	0.5	10.3	0.48	0.41	0.44	21	0.06	0.124
1098919	Soil	0.40	14.51	29.56	86.2	60	22.5	9.6	194	2.83	9.7	0.7	0.2	2.2	2.2	0.08	1.29	0.34	6	0.03	0.026
1098920	Soil	0.62	20.53	33.57	94.4	222	28.7	11.7	334	2.54	9.5	1.1	1.0	2.9	51.0	0.16	0.39	0.28	10	1.44	0.124



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1098901	Soil	20.2	20.8	2.90	161.1	0.004	6	1.57	0.008	0.11	<0.1	3.6	0.12	0.09	118	0.6	0.13	3.6	0.33	<0.1	0.17
1098902	Soil	58.3	27.3	1.58	122.1	0.003	4	1.94	0.005	0.16	<0.1	6.2	0.15	0.04	535	0.2	0.11	4.4	0.31	<0.1	0.19
1098903	Soil	20.7	30.6	0.55	122.9	0.006	3	1.97	0.004	0.08	0.1	4.9	0.17	0.04	81	0.3	0.04	5.2	1.22	<0.1	0.09
1098904	Soil	18.1	17.2	3.02	141.7	0.004	4	1.33	0.007	0.05	<0.1	2.6	0.09	0.05	162	0.4	0.04	3.3	0.49	<0.1	0.07
1098905	Soil	21.5	20.0	1.58	135.6	0.003	5	1.43	0.004	0.13	<0.1	4.5	0.14	0.05	83	0.4	0.05	3.6	0.31	<0.1	0.12
1098906	Soil	7.1	11.2	3.00	89.6	0.003	6	0.85	0.007	0.05	<0.1	1.3	0.09	0.09	126	0.3	0.03	1.8	0.20	<0.1	0.07
1098907	Soil	9.0	34.6	0.38	243.6	0.005	4	1.75	0.003	0.22	<0.1	4.9	0.25	0.03	33	0.2	<0.02	6.1	5.06	<0.1	0.05
1098908	Soil	7.8	33.7	0.47	72.6	0.005	2	1.70	0.002	0.11	<0.1	3.0	0.09	<0.02	15	0.2	0.04	6.5	1.57	<0.1	0.04
1098909	Soil	4.8	34.6	0.40	154.7	0.002	1	1.86	0.004	0.16	<0.1	3.3	0.08	0.02	20	0.2	0.02	7.4	1.02	<0.1	0.04
1098910	Soil	4.5	40.2	0.44	136.5	0.002	<1	1.96	0.004	0.13	<0.1	3.6	0.08	<0.02	16	<0.1	0.04	8.3	1.25	<0.1	0.04
1098911	Soil	8.5	21.2	0.40	88.4	0.017	<1	1.37	0.005	0.07	0.1	2.7	0.12	0.02	14	0.2	0.03	3.5	2.27	<0.1	0.04
1098912	Soil	6.8	25.5	0.20	93.5	0.010	1	1.63	0.002	0.06	0.1	0.7	0.12	0.04	35	0.5	0.03	5.0	2.99	<0.1	<0.02
1098913	Soil	4.0	22.1	0.24	156.7	0.005	3	1.48	0.004	0.08	<0.1	2.3	0.12	0.05	33	0.2	0.06	3.9	3.97	<0.1	0.03
1098914	Soil	5.4	22.7	0.21	87.8	0.008	3	1.38	0.003	0.08	<0.1	1.5	0.10	0.04	19	0.4	0.09	4.9	3.27	<0.1	<0.02
1098915	Soil	4.5	21.0	0.17	77.6	0.003	3	0.99	0.006	0.08	<0.1	2.8	0.13	0.05	27	0.4	<0.02	3.6	2.23	<0.1	0.02
1098916	Soil	4.3	19.0	0.15	72.1	0.005	2	1.05	0.004	0.09	<0.1	1.0	0.12	0.05	27	0.5	0.05	4.5	2.09	<0.1	<0.02
1098917	Soil	3.8	19.8	0.12	103.4	0.002	2	1.37	0.002	0.09	<0.1	0.8	0.19	0.04	27	0.3	<0.02	5.4	2.25	<0.1	0.03
1098918	Soil	4.6	18.2	0.12	184.2	0.005	3	0.98	0.003	0.11	<0.1	0.9	0.17	0.09	28	0.3	<0.02	4.4	2.06	<0.1	<0.02
1098919	Soil	5.4	6.2	0.04	24.3	0.001	1	0.37	<0.001	0.09	<0.1	2.0	0.25	<0.02	338	0.3	0.03	1.4	1.00	<0.1	<0.02
1098920	Soil	12.1	9.3	0.07	97.2	0.003	4	0.53	0.003	0.09	<0.1	3.3	0.21	0.05	265	0.5	0.04	1.0	0.84	<0.1	0.08



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 12 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001192.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1098901	Soil	0.21	6.2	1.3	<0.05	5.2	30.95	42.1	0.03	<1	0.9	6.1	<10	<2
1098902	Soil	0.26	8.1	1.7	<0.05	5.4	60.81	83.1	0.04	<1	0.8	7.2	<10	<2
1098903	Soil	0.48	12.2	1.1	<0.05	2.6	20.64	31.9	0.03	<1	1.2	16.8	<10	<2
1098904	Soil	0.17	6.1	0.8	<0.05	2.0	13.90	31.5	0.03	<1	1.1	6.8	<10	<2
1098905	Soil	0.24	8.4	0.8	<0.05	3.6	17.09	38.5	0.04	<1	1.3	8.3	<10	<2
1098906	Soil	0.11	3.6	1.9	<0.05	2.3	9.34	17.6	<0.02	<1	0.4	3.3	<10	<2
1098907	Soil	0.31	25.7	3.3	<0.05	1.4	6.96	31.6	0.04	<1	1.7	32.7	<10	<2
1098908	Soil	0.33	12.8	2.1	<0.05	2.2	3.66	17.7	0.02	1	1.1	39.9	<10	<2
1098909	Soil	0.25	11.1	2.1	<0.05	1.4	4.20	13.5	0.04	<1	1.4	36.1	<10	<2
1098910	Soil	0.17	13.2	1.3	<0.05	1.5	4.53	12.1	0.05	<1	1.6	36.7	<10	<2
1098911	Soil	0.36	6.4	0.9	<0.05	2.2	6.08	20.7	0.03	<1	0.7	25.7	<10	<2
1098912	Soil	0.37	12.1	1.0	<0.05	0.1	3.21	15.4	<0.02	<1	0.5	20.5	<10	<2
1098913	Soil	0.25	11.7	6.5	<0.05	1.1	5.34	9.9	<0.02	<1	1.3	33.9	<10	<2
1098914	Soil	0.35	14.6	1.0	<0.05	0.3	3.81	11.9	0.03	<1	0.6	24.3	<10	<2
1098915	Soil	0.13	9.8	0.8	<0.05	1.1	3.27	11.2	0.04	<1	0.5	16.1	<10	<2
1098916	Soil	0.23	14.1	0.8	<0.05	0.3	3.66	12.1	0.02	<1	0.7	12.7	<10	<2
1098917	Soil	0.14	20.5	1.0	<0.05	0.9	3.80	10.8	0.03	<1	1.0	16.0	<10	<2
1098918	Soil	0.16	16.2	5.6	<0.05	0.4	3.36	13.7	0.03	<1	0.7	8.8	<10	<2
1098919	Soil	0.05	7.2	1.4	<0.05	0.2	4.07	18.8	0.03	<1	0.7	1.0	<10	<2
1098920	Soil	0.11	5.9	1.2	<0.05	2.4	18.46	37.7	<0.02	2	0.8	3.2	<10	<2



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: September 25, 2011

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001192.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
1097926	Soil	0.52	27.79	32.00	130.5	226	36.4	14.3	668	4.22	7.9	0.6	2.0	6.9	37.4	0.16	0.27	0.43	15	0.39	0.053
REP 1097926	QC	0.53	27.74	32.64	130.6	217	36.4	14.5	663	4.25	8.0	0.6	1.5	6.9	36.4	0.14	0.27	0.43	15	0.40	0.052
1098444	Soil	2.19	10.40	14.49	82.5	81	18.5	6.7	428	1.79	8.8	2.2	1.0	0.8	48.3	0.58	0.46	0.11	31	9.55	0.113
REP 1098444	QC	2.18	10.27	14.50	81.1	79	18.1	6.6	422	1.73	8.8	2.1	0.5	0.7	47.6	0.56	0.47	0.11	31	9.57	0.113
1098170	Soil	0.72	16.87	27.47	100.2	38	25.8	9.7	348	2.94	12.5	0.9	1.1	3.0	12.0	0.11	0.99	0.22	33	0.17	0.048
REP 1098170	QC	0.80	18.41	30.60	105.5	41	28.6	10.9	374	3.25	13.3	1.0	1.5	3.5	12.9	0.11	1.09	0.25	36	0.19	0.051
1098180	Soil	0.51	23.92	24.53	53.4	34	21.9	12.4	255	3.72	11.1	0.4	0.4	5.1	7.8	0.06	0.39	0.32	25	0.24	0.017
REP 1098180	QC	0.52	24.92	25.23	57.3	33	23.0	13.1	265	3.87	11.5	0.5	0.5	5.4	8.1	0.05	0.42	0.35	26	0.25	0.018
1098196	Soil	0.32	20.92	32.04	100.4	82	25.1	11.4	738	4.42	6.3	1.0	<0.2	3.7	91.8	0.24	0.14	0.46	14	1.43	0.098
REP 1098196	QC	0.33	20.43	30.98	95.7	88	25.3	11.0	718	4.50	5.6	1.0	<0.2	3.5	86.2	0.26	0.13	0.42	14	1.27	0.095
1098961	Soil	2.16	23.44	80.00	227.8	366	25.4	12.2	797	3.11	11.1	3.0	<0.2	1.9	21.2	0.81	0.73	0.25	30	0.90	0.110
REP 1098961	QC	2.24	22.97	80.86	228.1	362	26.6	12.2	795	3.11	11.2	2.9	<0.2	1.9	23.0	0.81	0.75	0.26	32	0.90	0.110
1098889	Soil	3.70	20.16	20.70	97.5	105	31.6	11.5	247	3.02	14.6	2.2	1.0	2.0	51.7	0.22	0.46	0.18	24	2.42	0.086
REP 1098889	QC	3.72	20.12	20.97	104.5	113	32.3	11.8	247	3.02	15.0	2.2	1.1	2.0	53.5	0.23	0.46	0.17	24	2.47	0.089
1098898	Soil	1.41	19.47	21.70	78.5	144	21.1	8.9	281	2.40	4.9	1.0	0.5	1.9	36.2	0.17	0.40	0.24	25	0.70	0.081
REP 1098898	QC	1.41	19.53	21.87	78.7	148	21.4	9.1	282	2.42	5.2	1.1	2.3	1.8	37.0	0.15	0.39	0.23	25	0.72	0.080
1096735	Soil	0.73	27.05	24.81	67.6	75	29.0	14.5	405	4.02	7.6	0.6	<0.2	4.9	7.8	0.04	0.42	0.34	35	0.07	0.026
REP 1096735	QC	0.75	26.81	24.91	69.3	82	28.7	14.1	398	3.99	7.3	0.6	0.8	5.0	7.9	0.05	0.40	0.35	35	0.07	0.029
1098306	Soil	1.01	17.36	21.24	73.4	209	19.2	8.7	426	4.04	7.2	0.8	0.7	3.7	8.4	0.17	0.45	0.30	43	0.08	0.058
REP 1098306	QC	1.01	17.74	22.78	74.0	206	19.6	9.0	422	4.09	7.3	0.8	0.5	3.8	8.6	0.15	0.48	0.31	43	0.09	0.060
1098307	Soil	0.57	12.50	21.51	50.5	129	16.1	6.8	1677	2.57	15.2	0.6	3.5	1.0	20.8	0.34	1.16	0.21	21	4.86	0.099
REP 1098307	QC	0.65	13.40	22.39	53.0	136	17.3	7.0	1737	2.66	16.3	0.6	3.4	1.0	22.5	0.34	1.27	0.19	22	5.29	0.103
1097954	Soil	0.51	17.20	30.90	109.3	473	22.2	7.2	1033	2.62	5.6	1.5	1.0	0.7	93.1	0.30	0.31	0.26	20	2.91	0.209
REP 1097954	QC	0.52	17.96	32.27	110.3	501	22.9	7.3	1075	2.67	5.8	1.6	1.1	0.8	95.0	0.33	0.33	0.25	20	2.93	0.207
1097979	Soil	1.01	19.67	28.37	102.7	171	19.4	9.6	734	3.65	6.4	0.6	1.8	0.3	18.4	0.18	0.53	0.39	27	0.04	0.076
REP 1097979	QC	0.96	19.00	28.30	101.5	170	18.5	9.4	733	3.62	6.0	0.6	1.0	0.3	18.0	0.20	0.52	0.37	27	0.03	0.075
1097580	Soil	0.70	22.36	30.96	119.7	75	26.1	12.3	762	3.62	8.0	0.7	2.7	2.9	22.3	0.14	0.54	0.33	23	0.49	0.077
REP 1097580	QC	0.64	20.84	28.21	111.0	65	23.3	11.2	692	3.50	7.1	0.7	1.4	2.8	19.8	0.16	0.50	0.29	22	0.47	0.069

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001192.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
1097926	Soil	10.8	17.1	0.31	233.9	0.003	3	1.22	0.004	0.09	<0.1	7.5	0.17	<0.02	39	0.3	0.02	3.5	2.30	<0.1	0.06
REP 1097926	QC	11.0	17.1	0.31	234.8	0.003	3	1.24	0.004	0.09	<0.1	7.5	0.17	<0.02	32	0.3	<0.02	3.4	2.40	<0.1	0.07
1098444	Soil	12.2	15.6	4.48	74.8	0.005	6	0.83	0.008	0.10	<0.1	1.8	0.17	0.03	37	0.3	0.03	1.9	0.70	<0.1	0.03
REP 1098444	QC	12.2	16.3	4.51	74.2	0.005	6	0.82	0.008	0.10	<0.1	1.8	0.17	0.04	43	0.3	0.03	1.8	0.70	<0.1	0.03
1098170	Soil	8.5	21.7	0.34	66.2	0.005	3	1.57	0.002	0.08	0.1	2.3	0.11	<0.02	35	0.1	0.05	3.8	1.00	<0.1	0.03
REP 1098170	QC	9.5	23.4	0.37	73.0	0.006	2	1.68	0.002	0.08	0.1	2.6	0.12	<0.02	45	0.2	0.03	4.0	1.09	<0.1	0.03
1098180	Soil	8.3	18.8	0.19	50.5	0.002	3	1.40	<0.001	0.18	<0.1	3.0	0.15	<0.02	23	<0.1	<0.02	4.7	1.19	<0.1	0.03
REP 1098180	QC	8.5	19.6	0.20	51.4	0.003	2	1.38	<0.001	0.17	<0.1	3.1	0.15	<0.02	25	<0.1	0.02	4.9	1.20	<0.1	0.03
1098196	Soil	15.7	17.8	0.16	117.0	0.002	4	1.23	0.004	0.09	<0.1	4.9	0.13	0.07	28	0.9	<0.02	3.2	1.16	<0.1	0.06
REP 1098196	QC	15.5	17.1	0.16	116.5	0.002	3	1.12	0.005	0.08	<0.1	4.8	0.12	0.06	30	1.0	<0.02	3.2	1.11	<0.1	0.06
1098961	Soil	15.0	24.0	0.36	186.0	0.003	3	1.41	0.003	0.10	<0.1	3.4	0.27	0.07	1099	1.2	0.04	3.8	1.57	<0.1	0.15
REP 1098961	QC	15.7	24.6	0.37	191.5	0.003	6	1.44	0.003	0.11	<0.1	3.6	0.28	0.07	1124	1.0	<0.02	3.9	1.72	<0.1	0.14
1098889	Soil	12.7	17.8	0.56	197.5	0.003	11	0.84	0.005	0.24	<0.1	3.5	0.31	0.09	70	0.5	<0.02	2.3	1.67	<0.1	0.07
REP 1098889	QC	12.8	17.4	0.57	198.9	0.003	11	0.87	0.005	0.25	<0.1	3.7	0.32	0.09	68	0.7	<0.02	2.4	1.84	<0.1	0.11
1098898	Soil	12.9	19.9	0.19	228.7	0.004	5	1.06	0.005	0.19	<0.1	2.7	0.16	0.08	38	0.6	0.08	3.3	2.16	<0.1	0.07
REP 1098898	QC	13.4	20.2	0.20	238.4	0.004	7	1.07	0.005	0.19	<0.1	2.9	0.18	0.08	28	0.7	0.07	3.4	2.30	<0.1	0.09
1096735	Soil	9.6	32.5	0.44	81.1	0.007	3	1.77	0.003	0.19	<0.1	3.4	0.13	<0.02	15	0.3	0.04	6.3	2.24	<0.1	0.03
REP 1096735	QC	9.7	32.6	0.45	87.7	0.007	3	1.75	0.003	0.18	<0.1	3.5	0.14	<0.02	18	0.2	0.04	6.1	2.29	<0.1	0.03
1098306	Soil	10.1	29.8	0.30	90.6	0.006	3	1.70	0.002	0.09	<0.1	2.4	0.08	<0.02	24	0.4	<0.02	6.2	1.05	<0.1	0.05
REP 1098306	QC	10.4	29.4	0.32	96.4	0.006	2	1.70	0.002	0.09	<0.1	2.3	0.09	<0.02	33	0.3	<0.02	6.3	1.04	<0.1	0.07
1098307	Soil	8.5	13.8	2.70	79.8	0.007	3	0.93	0.006	0.05	<0.1	1.4	0.11	<0.02	146	0.4	0.03	2.1	0.43	<0.1	0.03
REP 1098307	QC	9.3	15.3	2.80	89.4	0.008	3	0.96	0.007	0.05	0.1	1.4	0.12	0.04	170	0.4	0.03	2.3	0.48	<0.1	0.04
1097954	Soil	11.7	16.4	0.15	204.4	0.003	4	1.13	0.010	0.09	<0.1	1.3	0.08	0.11	196	0.6	<0.02	3.1	0.50	<0.1	0.03
REP 1097954	QC	12.1	16.4	0.14	212.2	0.003	3	1.18	0.010	0.09	<0.1	1.3	0.08	0.11	229	0.7	<0.02	2.9	0.47	<0.1	0.04
1097979	Soil	5.7	19.3	0.13	114.0	0.005	2	1.09	0.007	0.11	<0.1	0.7	0.16	0.07	36	0.4	0.05	4.5	1.63	<0.1	<0.02
REP 1097979	QC	5.5	19.0	0.13	112.8	0.005	1	1.09	0.007	0.11	<0.1	0.7	0.15	0.07	34	0.4	0.06	4.3	1.59	<0.1	<0.02
1097580	Soil	9.2	19.4	0.30	163.3	0.004	3	1.10	0.005	0.12	<0.1	3.3	0.17	0.04	75	0.3	0.04	4.1	1.50	<0.1	0.03
REP 1097580	QC	8.0	17.2	0.27	149.3	0.003	2	1.05	0.005	0.11	<0.1	3.1	0.15	0.03	68	0.2	0.05	3.7	1.30	<0.1	0.03

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 1 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001192.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
1097926	Soil	0.16	9.8	1.2	<0.05	2.8	20.22	26.8	0.06	<1	1.3	30.9	<10	<2
REP 1097926	QC	0.18	10.0	1.2	<0.05	2.7	20.31	26.8	0.05	<1	1.3	30.9	<10	<2
1098444	Soil	0.28	8.2	1.9	<0.05	1.3	11.67	25.1	0.02	<1	0.6	6.2	<10	<2
REP 1098444	QC	0.29	8.0	2.0	<0.05	1.4	11.72	24.6	0.02	<1	0.6	6.1	<10	<2
1098170	Soil	0.30	7.8	0.7	<0.05	1.0	5.39	35.8	0.03	<1	0.9	17.7	<10	<2
REP 1098170	QC	0.34	8.4	1.5	<0.05	0.9	5.84	39.1	0.04	<1	1.0	20.0	<10	<2
1098180	Soil	0.27	16.7	1.0	<0.05	1.5	4.33	21.8	0.03	<1	0.7	12.0	<10	<2
REP 1098180	QC	0.30	17.1	1.1	<0.05	1.6	4.51	22.1	0.03	<1	0.9	12.2	<10	<2
1098196	Soil	0.24	12.4	1.4	<0.05	2.0	15.17	63.4	0.06	<1	1.6	21.0	<10	<2
REP 1098196	QC	0.23	12.6	1.5	<0.05	1.9	14.91	61.7	0.07	<1	1.6	20.4	<10	<2
1098961	Soil	0.31	13.7	0.9	<0.05	4.4	16.30	30.1	0.02	<1	1.6	14.1	<10	<2
REP 1098961	QC	0.32	15.3	0.9	<0.05	4.1	16.75	31.7	0.03	<1	1.4	14.3	<10	<2
1098889	Soil	0.44	15.9	3.3	<0.05	3.0	13.99	26.5	0.03	6	1.2	7.0	<10	<2
REP 1098889	QC	0.46	17.2	3.0	<0.05	3.1	14.02	26.8	0.04	1	0.8	7.2	<10	<2
1098898	Soil	0.42	17.3	0.9	<0.05	2.7	9.78	28.4	0.03	<1	0.8	10.3	<10	<2
REP 1098898	QC	0.47	18.6	1.0	<0.05	2.6	9.88	28.9	0.03	4	1.0	10.1	<10	<2
1096735	Soil	0.38	17.4	2.6	<0.05	1.4	4.26	24.9	0.03	<1	1.1	35.6	<10	<2
REP 1096735	QC	0.40	17.9	2.6	<0.05	1.5	4.32	25.3	0.03	<1	0.9	34.7	<10	<2
1098306	Soil	0.83	11.8	3.1	<0.05	2.0	3.13	23.7	<0.02	2	0.7	29.1	<10	<2
REP 1098306	QC	0.83	11.4	3.5	<0.05	1.9	3.16	23.8	<0.02	<1	0.6	30.9	<10	<2
1098307	Soil	0.20	4.3	1.4	<0.05	0.8	8.07	17.5	0.03	<1	0.6	6.6	<10	<2
REP 1098307	QC	0.21	4.7	1.5	<0.05	0.9	8.98	18.4	0.03	<1	0.6	7.4	<10	<2
1097954	Soil	0.31	7.0	1.1	<0.05	1.3	13.01	23.3	0.02	<1	1.0	9.6	<10	<2
REP 1097954	QC	0.32	6.8	1.2	<0.05	1.5	13.21	24.3	0.03	<1	1.1	9.6	<10	<2
1097979	Soil	0.18	15.3	2.1	<0.05	0.2	2.77	13.9	0.03	2	0.7	10.3	<10	<2
REP 1097979	QC	0.17	15.1	1.8	<0.05	0.3	2.69	13.2	0.03	2	0.6	9.9	<10	<2
1097580	Soil	0.34	13.0	1.5	<0.05	0.8	6.78	28.0	0.04	2	0.9	17.5	<10	<2
REP 1097580	QC	0.30	11.8	1.0	<0.05	0.8	6.18	25.1	0.03	1	0.8	16.0	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: **Scarlet**
Report Date: **September 25, 2011**

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001192.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
1097590	Soil	0.67	11.37	27.57	58.7	120	12.4	6.6	4458	4.36	10.5	1.0	0.8	0.6	18.8	0.59	0.96	0.19	28	3.80	0.154
REP 1097590	QC	0.67	11.79	28.25	60.4	125	13.2	6.9	4704	4.59	11.0	1.1	0.6	0.7	19.1	0.62	0.98	0.18	30	3.99	0.162
1098097	Soil	0.62	18.64	38.41	128.3	156	23.0	9.7	1292	4.25	10.3	1.8	0.7	1.7	45.1	0.35	0.74	0.30	28	1.77	0.134
REP 1098097	QC	0.59	17.78	36.36	125.1	149	22.2	9.3	1249	4.07	9.5	1.7	0.8	1.6	41.6	0.32	0.68	0.28	27	1.69	0.130
1098912	Soil	1.40	23.52	24.00	96.5	89	20.9	13.2	756	3.82	10.5	0.7	0.9	0.3	6.9	0.21	0.85	0.31	42	0.04	0.061
REP 1098912	QC	1.39	23.30	23.38	98.0	83	20.5	13.0	728	3.73	10.6	0.7	0.4	0.3	6.8	0.22	0.81	0.31	41	0.04	0.059
Reference Materials																					
STD DS8	Standard	12.62	115.7	125.4	323.5	1815	39.0	7.6	609	2.51	27.2	2.6	113.2	6.5	56.7	2.43	5.23	6.23	42	0.71	0.079
STD DS8	Standard	12.76	105.8	128.1	326.1	1941	37.0	7.2	626	2.47	27.3	2.7	118.8	6.5	66.1	2.33	5.84	6.71	42	0.73	0.087
STD DS8	Standard	11.99	104.8	126.7	321.5	1874	36.4	7.1	604	2.42	27.0	2.5	109.7	6.2	60.5	2.24	5.55	6.46	41	0.70	0.082
STD DS8	Standard	13.11	111.2	125.4	301.8	1725	38.1	7.5	589	2.45	24.5	2.8	105.5	6.9	57.1	2.08	5.10	6.02	40	0.70	0.076
STD DS8	Standard	12.93	105.6	130.9	315.9	1866	38.1	7.2	611	2.47	25.9	2.8	118.5	6.7	63.7	2.23	5.53	6.32	41	0.70	0.083
STD DS8	Standard	12.95	104.9	123.2	305.4	1743	37.1	6.8	629	2.42	23.4	2.7	112.5	6.5	65.0	2.20	5.18	6.33	40	0.72	0.077
STD DS8	Standard	12.26	106.9	134.8	322.0	1934	37.3	7.2	612	2.52	27.0	2.8	121.3	6.4	64.9	2.34	5.73	6.61	42	0.70	0.086
STD DS8	Standard	12.79	105.4	115.9	287.8	1671	37.1	7.3	561	2.22	23.6	2.6	113.3	6.7	59.5	2.17	5.11	6.12	38	0.67	0.069
STD DS8	Standard	12.99	113.0	116.4	327.0	1775	39.2	7.8	643	2.58	27.4	2.6	111.8	6.4	70.0	2.37	6.07	6.27	44	0.73	0.080
STD DS8	Standard	12.77	108.3	119.6	306.6	1656	37.1	7.1	604	2.43	26.6	2.6	111.2	6.4	61.9	2.34	5.00	6.60	40	0.70	0.079
STD DS8	Standard	12.38	108.1	123.6	311.4	1785	35.5	7.4	587	2.42	26.2	2.7	112.9	6.2	58.4	2.35	5.35	6.79	39	0.68	0.078
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: **Scarlet**
 Report Date: **September 25, 2011**

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001192.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
1097590	Soil	11.3	16.4	1.93	147.9	0.007	3	1.28	0.014	0.04	<0.1	1.5	0.13	0.09	173	0.5	0.05	3.0	0.58	<0.1	0.04
REP 1097590	QC	11.7	17.6	2.00	155.3	0.007	3	1.40	0.015	0.04	<0.1	1.7	0.13	0.10	169	0.5	0.05	3.3	0.63	<0.1	0.04
1098097	Soil	14.3	24.9	0.61	137.9	0.005	3	1.52	0.004	0.07	<0.1	3.1	0.13	0.09	153	0.5	0.05	4.2	0.99	<0.1	0.05
REP 1098097	QC	13.6	23.0	0.59	131.1	0.004	3	1.44	0.004	0.07	<0.1	3.0	0.12	0.09	150	0.3	0.03	3.9	0.92	<0.1	0.05
1098912	Soil	6.8	25.5	0.20	93.5	0.010	1	1.63	0.002	0.06	0.1	0.7	0.12	0.04	35	0.5	0.03	5.0	2.99	<0.1	<0.02
REP 1098912	QC	6.8	24.8	0.20	87.7	0.011	1	1.59	0.002	0.06	0.1	0.7	0.11	0.04	39	0.4	0.03	5.0	3.01	<0.1	<0.02
Reference Materials																					
STD DS8	Standard	11.9	123.3	0.61	256.1	0.097	4	1.02	0.121	0.45	3.3	2.3	5.39	0.17	198	5.8	4.94	4.7	2.51	<0.1	0.07
STD DS8	Standard	14.7	123.8	0.63	286.4	0.108	3	0.98	0.103	0.44	3.2	2.3	5.85	0.17	210	5.3	5.47	5.0	2.61	<0.1	0.08
STD DS8	Standard	13.0	117.7	0.62	269.5	0.101	3	0.93	0.089	0.42	3.3	2.1	5.64	0.17	206	5.5	5.34	5.0	2.54	0.1	0.08
STD DS8	Standard	14.6	120.0	0.60	251.4	0.104	2	0.91	0.091	0.42	3.2	2.2	5.38	0.16	178	5.2	4.80	4.6	2.39	0.1	0.09
STD DS8	Standard	14.1	124.2	0.60	270.7	0.104	2	0.92	0.090	0.41	3.1	2.1	5.72	0.16	212	5.5	5.25	4.9	2.52	0.1	0.07
STD DS8	Standard	15.2	116.4	0.61	281.2	0.115	3	1.01	0.114	0.44	3.1	2.0	5.42	0.15	210	5.3	5.30	4.8	2.48	<0.1	0.07
STD DS8	Standard	13.4	124.0	0.61	266.9	0.101	3	0.92	0.090	0.41	3.2	2.2	6.00	0.17	223	5.8	5.26	4.8	2.55	<0.1	0.08
STD DS8	Standard	15.6	115.2	0.57	257.9	0.114	2	0.89	0.094	0.40	3.0	2.2	5.04	0.15	199	4.7	4.68	4.2	2.28	0.2	0.09
STD DS8	Standard	15.4	128.1	0.62	297.4	0.118	3	1.02	0.109	0.44	3.0	2.2	5.34	0.17	199	5.3	5.08	4.7	2.50	<0.1	0.09
STD DS8	Standard	13.6	117.5	0.59	271.4	0.108	3	0.87	0.082	0.40	3.0	1.8	5.27	0.17	194	5.0	5.30	4.4	2.41	0.2	0.09
STD DS8	Standard	14.0	116.2	0.60	254.7	0.099	2	0.93	0.099	0.43	3.0	2.1	5.60	0.16	201	5.1	5.05	4.6	2.51	<0.1	0.07
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 25, 2011

Page: 2 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001192.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
1097590	Soil	0.26	5.4	0.4	<0.05	1.1	11.09	23.2	0.03	<1	1.2	6.7	<10	<2
REP 1097590	QC	0.27	5.9	0.5	<0.05	1.1	11.43	24.5	0.03	<1	1.1	7.2	<10	<2
1098097	Soil	0.37	9.6	1.0	<0.05	1.6	15.17	31.6	0.03	<1	1.2	15.4	<10	<2
REP 1098097	QC	0.35	9.3	1.0	<0.05	1.4	14.24	30.0	0.03	<1	1.2	14.8	<10	<2
1098912	Soil	0.37	12.1	1.0	<0.05	0.1	3.21	15.4	<0.02	<1	0.5	20.5	<10	<2
REP 1098912	QC	0.39	12.1	0.9	<0.05	0.1	3.25	15.5	0.03	<1	0.7	20.4	<10	<2
Reference Materials														
STD DS8	Standard	1.24	41.0	6.4	<0.05	1.9	4.99	23.2	2.22	51	4.7	27.8	114	366
STD DS8	Standard	1.49	39.3	6.7	<0.05	1.7	6.00	28.9	2.25	61	5.4	29.6	114	374
STD DS8	Standard	1.23	40.6	6.6	<0.05	1.8	5.43	25.1	2.29	57	5.2	28.5	111	358
STD DS8	Standard	1.38	37.7	6.3	<0.05	2.0	5.59	26.7	2.16	53	4.9	25.8	117	345
STD DS8	Standard	1.38	40.0	6.5	<0.05	1.9	5.78	27.3	2.21	66	5.2	27.5	104	354
STD DS8	Standard	1.35	36.5	6.1	<0.05	1.6	5.98	27.2	2.10	61	5.0	26.0	108	338
STD DS8	Standard	1.25	39.8	6.9	<0.05	1.7	5.48	25.5	2.23	61	5.0	29.2	116	373
STD DS8	Standard	1.29	34.3	6.1	<0.05	1.9	6.10	27.9	2.06	53	5.7	23.6	119	333
STD DS8	Standard	1.49	38.7	7.1	<0.05	2.2	6.37	29.7	2.41	54	5.2	27.4	103	333
STD DS8	Standard	1.20	37.8	6.5	<0.05	2.0	5.41	25.0	2.16	58	4.6	27.0	101	330
STD DS8	Standard	1.10	39.2	6.4	<0.05	1.2	5.42	24.2	2.31	65	5.0	27.0	105	341
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: September 25, 2011

Page: 3 of 3 **Part** 1

QUALITY CONTROL REPORT

WHI11001192.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001192.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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Page: 3 of 3 **Part** 3

QUALITY CONTROL REPORT

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		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 20, 2011
Report Date: October 05, 2011
Page: 1 of 5

CERTIFICATE OF ANALYSIS

WHI11001193.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-22
P.O. Number
Number of Samples: 106

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	106	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	106	Dry at 60C			WHI
1F05	106	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
RJSV	106	Saving all or part of Soil Reject			WHI

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: David Clark
database backup
Simon Ridgway
Scott Turton



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 05, 2011

Page: 2 of 5 Part 1

CERTIFICATE OF ANALYSIS

WHI11001193.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1098921	Soil			0.37	17.65	33.61	64.5	276	22.2	7.2	251	2.06	4.7	1.0	1.1	2.5	42.6	0.16	0.18	0.29	15	1.08	0.086
1098922	Soil			0.47	18.80	48.14	87.5	113	17.5	6.9	641	2.04	9.6	1.8	0.9	1.0	84.3	0.32	0.83	0.32	19	3.79	0.157
1098923	Soil			0.68	22.53	49.87	106.4	203	21.4	8.6	945	2.69	25.2	3.2	2.6	1.9	17.9	0.15	2.86	0.25	18	3.34	0.208
1098924	Soil			0.61	24.01	44.24	102.5	191	21.9	9.5	1194	3.90	22.7	1.2	2.5	2.1	28.0	0.34	1.97	0.29	24	2.43	0.129
1098925	Soil			0.21	10.62	18.72	47.9	107	6.8	3.5	622	1.04	9.5	2.1	1.3	0.6	34.4	0.11	1.33	0.10	5	11.95	0.170
1098926	Soil			0.48	21.02	44.40	50.2	240	20.2	8.9	1750	3.67	21.4	1.3	3.4	1.6	21.1	0.17	2.51	0.23	16	6.44	0.146
1098927	Soil			0.56	11.89	37.67	70.3	113	12.3	5.8	1458	2.89	15.2	0.7	1.3	1.0	37.8	0.25	0.89	0.15	15	6.99	0.098
1098928	Soil			0.67	17.29	28.89	72.6	125	22.1	10.4	1370	3.66	16.8	0.7	1.9	2.5	15.5	0.22	0.98	0.27	26	2.39	0.076
1098929	Soil			0.25	27.43	10.56	23.8	25	17.0	13.4	445	1.95	3.7	0.6	<0.2	2.9	8.1	0.06	0.38	0.37	10	1.01	0.029
1098316	Soil			0.99	20.37	26.03	63.0	174	14.6	9.8	748	3.51	8.8	0.6	0.7	0.5	5.6	0.15	0.63	0.30	35	0.04	0.055
1098317	Soil			0.47	36.86	29.27	92.3	93	35.4	16.0	425	3.26	10.4	0.8	0.5	3.8	46.2	0.06	0.33	0.36	15	0.67	0.031
1098318	Soil			0.61	18.88	29.23	84.0	46	20.2	11.7	924	3.13	7.0	0.7	1.4	1.9	6.5	0.14	0.52	0.26	22	0.05	0.052
1098319	Soil			0.24	6.28	12.23	175.8	49	7.9	3.3	3009	2.21	5.2	1.0	<0.2	0.3	28.7	0.88	0.58	0.07	8	11.32	0.115
1098320	Soil			0.67	32.17	82.17	154.8	182	30.5	9.7	504	2.51	16.9	1.8	2.1	1.5	85.4	0.32	1.30	0.32	17	2.96	0.154
1098321	Soil			0.68	16.79	31.15	106.3	167	17.5	7.3	949	2.73	9.2	1.3	1.4	1.0	47.4	0.34	0.81	0.23	22	4.29	0.106
1098322	Soil			0.40	11.87	33.15	66.2	95	17.0	8.6	4114	4.92	19.1	1.7	1.0	1.5	19.4	0.21	1.19	0.19	29	4.31	0.099
1098323	Soil			0.77	16.85	20.45	67.7	130	21.2	8.0	1092	3.43	10.9	1.1	0.6	2.1	11.5	0.25	0.70	0.25	31	1.48	0.067
1098324	Soil			0.87	15.43	23.39	96.5	104	18.4	8.7	1215	2.88	7.7	1.3	0.8	1.8	23.9	0.45	0.50	0.25	38	2.59	0.064
1098325	Soil			0.50	26.47	17.78	53.1	126	18.1	14.9	866	3.10	3.3	0.6	<0.2	2.6	7.0	0.10	0.19	0.37	30	0.17	0.040
1098326	Soil			0.67	31.97	38.75	89.0	241	34.3	17.4	845	3.59	12.0	1.0	1.9	3.2	26.7	0.14	0.45	0.33	19	1.11	0.065
1098198	Soil			0.32	14.22	13.19	66.5	167	15.2	3.7	195	1.38	2.9	1.5	0.2	0.6	137.9	0.37	0.15	0.18	9	2.99	0.160
1098199	Soil			0.55	19.05	33.98	81.5	113	26.6	8.5	198	2.94	6.6	1.1	0.5	4.3	11.6	0.06	0.27	0.49	15	0.18	0.049
1098200	Soil			0.68	18.89	27.88	20.4	31	19.8	5.4	122	2.12	27.6	0.5	0.7	1.1	5.9	0.07	2.56	0.32	9	0.14	0.028
1098201	Soil			0.60	24.33	42.96	52.4	112	13.7	6.4	126	4.04	8.9	0.6	0.6	2.0	30.6	0.03	0.29	0.44	13	0.05	0.030
1098202	Soil			0.75	35.34	50.60	80.4	133	28.1	14.1	250	4.57	11.8	0.9	0.4	3.4	30.6	0.05	0.60	0.48	14	0.10	0.031
1098203	Soil			0.67	33.33	42.34	98.3	331	33.0	16.1	412	3.90	8.2	0.7	1.2	2.3	79.8	0.11	0.37	0.43	11	0.64	0.048
1098204	Soil			0.61	32.53	43.19	86.8	534	33.8	17.8	387	4.02	8.6	0.8	0.4	3.8	30.9	0.06	0.40	0.42	9	0.23	0.019
1098205	Soil			0.79	35.10	48.10	106.7	363	38.9	23.8	460	3.80	10.1	0.5	1.0	3.5	36.6	0.11	0.52	0.45	9	0.45	0.026
1098206	Soil			0.60	34.31	41.72	102.1	182	39.1	19.4	563	3.57	6.3	0.7	0.8	3.2	72.6	0.12	0.27	0.39	9	1.12	0.049
1098207	Soil			0.48	35.88	42.66	99.9	239	32.8	13.3	338	3.90	7.1	0.5	1.0	3.0	55.5	0.10	0.27	0.42	11	0.68	0.038



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 2 of 5 Part 2

CERTIFICATE OF ANALYSIS

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Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1098921	Soil	21.4	13.3	0.08	78.1	0.001	2	0.68	0.002	0.05	<0.1	2.5	0.06	0.06	279	0.4	<0.02	1.4	0.10	<0.1	0.12
1098922	Soil	34.2	16.1	0.16	91.9	0.003	3	0.95	0.003	0.06	<0.1	2.1	0.06	0.07	118	0.2	0.06	1.9	0.18	<0.1	0.05
1098923	Soil	12.2	15.8	1.48	47.2	0.002	2	0.66	0.003	0.03	<0.1	2.3	0.05	0.05	341	0.3	0.08	1.4	0.08	<0.1	0.04
1098924	Soil	21.5	18.1	1.10	66.1	0.003	2	1.02	0.002	0.04	<0.1	3.0	0.06	0.07	190	0.3	0.07	2.1	0.10	<0.1	0.07
1098925	Soil	4.6	5.0	6.57	25.9	0.001	4	0.24	0.010	0.02	<0.1	0.7	0.05	0.02	60	0.4	0.03	0.5	0.08	<0.1	0.05
1098926	Soil	8.7	13.4	3.65	57.2	0.003	3	0.82	0.006	0.05	<0.1	2.1	0.11	0.04	316	0.4	0.04	1.7	0.15	<0.1	0.06
1098927	Soil	6.8	11.1	3.83	75.4	0.004	2	0.72	0.005	0.04	<0.1	1.4	0.12	0.03	71	0.3	0.03	1.7	0.21	<0.1	0.04
1098928	Soil	10.5	20.3	1.50	79.2	0.004	3	1.27	0.003	0.05	<0.1	2.9	0.11	0.04	104	0.3	0.02	3.2	0.36	<0.1	0.04
1098929	Soil	6.7	10.8	0.34	70.2	0.004	4	0.60	0.002	0.23	<0.1	3.7	0.13	0.03	30	<0.1	0.06	2.0	1.95	<0.1	0.05
1098316	Soil	5.7	19.3	0.16	64.6	0.012	<1	0.94	<0.001	0.06	0.1	1.0	0.08	0.03	64	0.3	0.03	4.2	1.95	<0.1	<0.02
1098317	Soil	4.5	20.3	0.42	75.5	0.003	2	1.17	0.004	0.08	<0.1	4.2	0.07	<0.02	17	0.3	0.07	3.6	1.47	<0.1	0.04
1098318	Soil	6.0	19.2	0.29	57.2	0.004	1	1.00	0.001	0.05	0.1	1.9	0.08	0.02	36	0.2	0.05	3.4	0.94	<0.1	<0.02
1098319	Soil	3.4	6.9	6.80	142.1	0.003	5	0.39	0.007	0.03	<0.1	0.6	0.08	0.04	38	0.4	<0.02	1.1	0.31	<0.1	0.02
1098320	Soil	16.2	12.9	0.23	73.0	0.003	3	0.85	0.003	0.07	<0.1	1.6	0.08	0.09	106	0.5	0.12	2.0	0.12	<0.1	0.07
1098321	Soil	14.1	17.6	1.72	80.5	0.006	2	1.03	0.004	0.05	<0.1	1.9	0.06	0.07	171	0.4	0.03	2.4	0.28	<0.1	<0.02
1098322	Soil	13.8	20.5	2.46	130.7	0.005	1	1.28	0.003	0.03	<0.1	2.9	0.20	0.05	319	0.5	0.04	2.9	0.37	<0.1	0.06
1098323	Soil	13.4	24.2	1.02	103.7	0.009	1	1.33	0.002	0.06	<0.1	3.0	0.12	0.05	73	0.2	0.03	3.7	0.73	<0.1	0.03
1098324	Soil	18.7	25.0	0.64	106.1	0.006	2	1.25	0.003	0.09	<0.1	2.6	0.09	0.05	53	0.3	0.04	3.3	0.34	<0.1	0.04
1098325	Soil	6.1	22.5	0.23	140.0	0.003	<1	1.23	<0.001	0.19	<0.1	2.2	0.10	0.02	22	<0.1	0.04	6.0	0.47	<0.1	<0.02
1098326	Soil	8.1	19.5	0.78	108.9	0.003	2	1.14	0.003	0.09	<0.1	5.4	0.11	0.04	41	0.3	0.07	2.9	1.44	<0.1	0.08
1098198	Soil	14.1	8.1	0.07	127.3	0.002	3	0.50	0.004	0.04	<0.1	0.8	0.07	0.08	224	0.5	0.04	1.0	0.30	<0.1	0.02
1098199	Soil	17.2	14.5	0.20	85.3	0.002	1	1.18	<0.001	0.08	<0.1	4.3	0.15	0.02	50	0.3	0.02	2.5	0.76	<0.1	0.06
1098200	Soil	2.1	7.0	0.04	50.0	0.001	<1	0.29	0.001	0.06	<0.1	1.2	0.07	<0.02	46	0.3	0.05	1.2	0.37	<0.1	<0.02
1098201	Soil	3.0	15.0	0.12	74.4	<0.001	<1	0.79	0.005	0.07	<0.1	2.2	0.24	0.07	50	0.3	0.07	2.7	1.59	<0.1	0.03
1098202	Soil	3.5	17.9	0.22	59.5	0.003	1	0.91	0.004	0.07	<0.1	3.9	0.21	0.06	31	0.3	0.07	2.7	2.92	<0.1	0.02
1098203	Soil	3.7	13.7	0.23	84.4	0.001	2	0.75	0.004	0.07	<0.1	4.2	0.16	0.05	58	0.3	0.05	2.2	2.02	<0.1	0.04
1098204	Soil	2.7	12.3	0.22	62.6	0.001	2	0.73	0.002	0.06	<0.1	4.8	0.15	<0.02	55	0.3	0.04	2.0	1.89	<0.1	0.06
1098205	Soil	2.7	12.2	0.21	95.5	0.001	2	0.66	0.002	0.07	<0.1	4.5	0.15	0.04	28	0.2	0.04	1.9	2.88	<0.1	0.05
1098206	Soil	2.7	12.5	0.24	73.3	0.001	2	0.67	0.003	0.07	<0.1	4.3	0.18	0.06	42	0.3	0.04	1.9	1.81	<0.1	0.06
1098207	Soil	2.9	13.4	0.23	71.0	<0.001	2	0.74	0.003	0.07	<0.1	5.1	0.18	0.04	40	0.3	0.06	2.1	1.92	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 05, 2011

Page: 2 of 5 Part 3

CERTIFICATE OF ANALYSIS

WHI11001193.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1098921	Soil	0.13	3.5	0.6	<0.05	4.7	19.28	41.9	0.03	<1	0.9	3.1	<10	<2
1098922	Soil	0.23	4.1	6.4	<0.05	1.3	29.79	51.9	0.04	<1	1.0	4.0	<10	<2
1098923	Soil	0.10	2.0	0.8	<0.05	2.0	19.46	23.5	<0.02	<1	0.5	2.4	<10	2
1098924	Soil	0.20	3.0	1.1	<0.05	2.6	24.53	34.1	0.03	<1	0.9	5.1	<10	<2
1098925	Soil	0.03	1.2	0.4	<0.05	1.4	8.71	9.4	<0.02	<1	0.2	0.9	<10	<2
1098926	Soil	0.15	3.0	1.3	<0.05	2.1	11.48	16.1	<0.02	<1	0.6	5.4	<10	<2
1098927	Soil	0.16	2.9	0.8	<0.05	1.3	9.04	13.4	<0.02	<1	0.5	5.7	<10	<2
1098928	Soil	0.31	5.2	2.0	<0.05	2.1	11.10	21.3	0.02	<1	1.0	12.5	<10	<2
1098929	Soil	0.28	13.1	0.9	<0.05	1.6	7.50	16.7	0.02	<1	0.9	3.5	<10	<2
1098316	Soil	0.44	9.1	3.5	<0.05	0.2	2.44	12.0	0.04	<1	0.4	10.0	<10	<2
1098317	Soil	0.06	5.8	0.9	<0.05	3.1	8.78	12.6	0.03	1	0.8	42.5	<10	<2
1098318	Soil	0.24	7.8	1.6	<0.05	0.5	4.35	19.8	0.03	<1	0.7	17.4	<10	<2
1098319	Soil	0.06	4.3	0.4	<0.05	0.8	5.02	8.8	<0.02	1	0.3	2.5	<10	<2
1098320	Soil	0.27	3.1	1.1	<0.05	2.2	17.28	26.4	<0.02	<1	0.8	4.9	<10	3
1098321	Soil	0.28	4.5	0.8	<0.05	1.3	15.58	22.9	0.03	<1	0.7	8.3	<10	<2
1098322	Soil	0.22	3.8	2.1	<0.05	1.9	14.93	24.9	<0.02	<1	1.6	6.4	<10	<2
1098323	Soil	0.49	8.7	0.6	<0.05	1.3	13.09	20.8	<0.02	<1	0.9	13.9	<10	<2
1098324	Soil	0.46	6.7	2.0	<0.05	1.6	13.82	34.2	0.03	<1	1.0	8.0	<10	<2
1098325	Soil	0.51	13.2	1.1	<0.05	0.5	3.41	11.7	0.02	<1	0.9	8.2	<10	<2
1098326	Soil	0.18	6.3	1.8	<0.05	3.5	17.71	19.9	0.04	<1	1.1	26.6	<10	<2
1098198	Soil	0.12	4.5	0.8	<0.05	1.3	12.18	27.8	<0.02	<1	0.6	4.3	<10	<2
1098199	Soil	0.19	9.1	1.8	<0.05	1.6	17.05	75.2	0.03	<1	1.2	10.8	<10	<2
1098200	Soil	0.08	5.7	1.4	<0.05	0.2	2.92	5.0	<0.02	<1	0.3	0.8	<10	<2
1098201	Soil	0.09	6.2	1.2	<0.05	0.9	3.81	7.6	0.05	<1	0.8	18.9	<10	<2
1098202	Soil	0.12	7.3	0.7	<0.05	1.9	6.62	9.7	0.05	<1	1.1	33.3	<10	<2
1098203	Soil	0.07	6.6	1.7	<0.05	1.7	13.29	9.3	0.03	<1	1.1	23.5	<10	<2
1098204	Soil	0.07	5.1	0.6	<0.05	2.2	11.56	6.5	0.04	<1	0.8	23.9	<10	<2
1098205	Soil	0.04	5.8	2.4	<0.05	2.3	9.08	8.1	0.05	<1	0.8	24.7	<10	<2
1098206	Soil	0.07	4.8	1.5	<0.05	2.8	10.10	9.3	0.03	<1	0.9	24.1	<10	<2
1098207	Soil	0.05	6.2	2.5	<0.05	2.2	12.14	8.6	0.04	<1	0.9	23.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 05, 2011

Page: 3 of 5 Part 1

CERTIFICATE OF ANALYSIS

WHI11001193.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1098208	Soil			0.84	35.51	40.57	103.9	236	38.2	17.3	335	3.70	7.1	0.7	0.4	5.5	259.3	0.07	0.25	0.46	10	5.01	0.033
1098209	Soil			0.50	49.13	54.61	123.8	211	40.3	18.8	402	5.97	10.4	4.9	0.8	6.4	73.4	0.06	0.29	0.43	14	0.63	0.030
1098210	Soil			0.65	41.69	41.29	143.7	213	44.1	23.5	383	3.25	5.3	0.6	0.4	5.5	36.4	0.13	0.37	0.42	9	0.37	0.030
1098211	Soil			0.47	30.60	39.46	84.6	242	33.0	15.7	323	3.32	6.4	0.6	0.5	4.4	293.9	0.06	0.21	0.38	10	5.40	0.041
1098212	Soil			0.47	33.84	41.93	88.8	214	28.6	16.2	456	3.75	6.2	0.6	0.5	2.7	50.9	0.07	0.28	0.36	10	0.65	0.053
1098213	Soil			0.44	31.47	40.49	87.9	220	26.8	12.7	360	3.83	6.9	0.6	0.5	2.5	63.6	0.07	0.26	0.37	11	0.82	0.053
1098214	Soil			0.94	50.10	66.36	160.2	340	58.8	26.1	675	6.64	12.8	0.9	2.4	5.6	34.8	0.16	0.44	0.55	15	0.31	0.070
1098215	Soil			0.87	43.57	57.23	165.7	301	52.4	24.7	617	5.25	10.6	0.7	1.8	4.5	57.7	0.14	0.46	0.55	12	0.68	0.057
1098216	Soil			1.13	42.54	62.54	127.8	647	46.9	33.3	803	5.05	14.9	0.9	1.1	3.7	22.6	0.13	0.79	0.52	13	0.20	0.039
1098217	Soil			1.10	59.88	66.29	132.1	337	61.8	29.0	463	5.61	17.6	1.3	1.9	1.9	90.0	0.15	0.72	0.41	13	1.75	0.090
1098218	Soil			1.51	55.39	81.12	122.2	365	48.4	52.3	1424	4.84	37.5	1.8	1.5	4.8	37.1	0.15	0.97	0.58	20	0.61	0.143
1098219	Soil			0.83	41.01	48.64	126.3	229	41.3	19.9	481	4.23	11.9	0.9	1.2	4.7	50.2	0.12	0.54	0.42	12	0.96	0.061
1098220	Soil			0.97	71.10	66.70	203.7	304	124.6	55.2	615	5.78	22.4	1.1	1.4	4.7	426.7	0.11	0.86	0.53	6	3.28	0.035
1096601	Soil			0.51	26.63	11.30	32.4	15	11.6	9.6	93	2.86	2.4	0.4	<0.2	1.3	3.0	0.06	0.34	0.34	18	0.03	0.024
1096602	Soil			0.37	12.78	15.09	26.6	22	13.0	9.7	137	3.02	2.8	0.5	0.3	4.0	4.7	0.04	0.34	0.39	18	0.05	0.023
1096603	Soil			0.64	9.90	12.47	47.2	44	18.8	9.1	896	3.71	5.0	0.6	0.3	1.9	7.8	0.06	0.41	0.31	33	0.16	0.029
1096604	Soil			0.77	24.73	24.78	76.7	67	30.9	12.8	307	3.96	7.3	0.6	0.6	5.3	6.7	0.07	0.53	0.33	34	0.04	0.024
1096605	Soil			0.86	21.45	16.65	55.3	149	22.8	11.5	390	3.17	6.3	0.5	1.4	1.9	9.1	0.11	0.44	0.31	32	0.29	0.045
1096606	Soil			0.93	14.40	18.70	69.3	77	24.2	9.4	296	3.45	8.4	0.6	1.1	4.1	7.1	0.19	0.49	0.26	42	0.06	0.028
1096607	Soil			0.51	20.36	20.90	53.0	53	23.2	10.9	420	2.80	6.0	0.7	1.0	3.6	22.7	0.06	0.31	0.29	25	0.39	0.028
1096608	Soil			1.06	42.00	56.00	128.9	94	43.3	16.0	514	4.47	12.9	1.4	2.0	3.6	23.0	0.18	0.58	0.36	26	0.04	0.056
1096609	Soil			0.92	28.76	49.61	65.1	129	14.1	7.7	347	4.30	9.2	0.7	0.8	2.4	11.6	0.09	0.44	0.50	22	0.02	0.066
1096610	Soil			1.65	46.73	93.64	121.4	78	28.7	22.9	712	4.86	30.9	1.1	0.8	3.2	12.3	0.06	0.61	0.38	21	0.03	0.032
1096611	Soil			0.66	29.09	44.70	67.9	163	16.2	7.5	250	4.15	7.5	0.8	<0.2	4.5	12.5	0.05	0.34	0.44	17	0.02	0.049
1096612	Soil			0.56	22.96	44.21	60.8	71	17.0	7.6	266	4.24	7.5	0.9	0.6	4.7	15.0	0.05	0.30	0.45	16	0.02	0.034
1096613	Soil			0.92	35.78	34.09	146.1	295	47.3	16.2	1176	4.91	8.5	0.8	0.5	9.9	34.4	0.22	0.25	0.44	13	0.25	0.020
1096614	Soil			0.48	34.81	45.26	160.9	189	57.8	24.3	1766	5.72	7.6	0.9	<0.2	10.2	44.1	0.14	0.19	0.48	14	0.38	0.063
1096615	Soil			0.43	26.84	39.28	124.3	92	39.4	21.3	951	5.59	5.5	0.9	<0.2	4.4	7.1	0.09	0.18	0.48	14	0.03	0.060
1096616	Soil			0.79	75.44	60.43	132.4	328	47.0	17.1	391	9.75	9.3	1.0	1.0	15.4	6.9	0.13	0.37	0.51	18	0.01	0.081
1096617	Soil			0.55	26.98	60.02	148.1	259	31.9	11.0	539	3.03	7.9	1.0	0.8	1.3	62.0	0.17	0.35	0.36	12	1.92	0.121



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: October 05, 2011

Page: 3 of 5 Part 2

CERTIFICATE OF ANALYSIS

WHI11001193.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1098208	Soil	2.6	10.7	0.27	91.6	0.001	2	0.70	0.004	0.09	<0.1	4.2	0.20	0.05	41	0.4	0.04	1.9	1.78	<0.1	0.04
1098209	Soil	2.8	18.4	0.28	160.7	0.002	3	1.29	0.007	0.11	<0.1	6.6	0.31	0.10	67	0.5	0.03	2.8	3.78	<0.1	0.08
1098210	Soil	1.5	14.1	0.22	52.7	<0.001	2	0.61	0.002	0.08	<0.1	4.8	0.10	0.02	37	0.2	0.04	1.6	2.64	<0.1	0.06
1098211	Soil	2.9	10.5	0.27	93.4	<0.001	3	0.69	0.003	0.09	<0.1	4.3	0.19	0.04	40	0.3	0.03	1.8	2.02	<0.1	0.05
1098212	Soil	3.1	11.7	0.17	72.1	<0.001	2	0.69	0.002	0.08	<0.1	4.7	0.15	0.06	45	0.3	0.07	1.8	1.68	<0.1	0.07
1098213	Soil	3.2	12.3	0.18	86.0	<0.001	2	0.69	0.003	0.08	<0.1	4.3	0.18	0.07	48	0.5	0.04	1.8	1.97	<0.1	0.06
1098214	Soil	4.0	18.0	0.24	108.1	0.001	5	0.97	0.005	0.10	<0.1	8.0	0.33	0.06	32	0.5	0.12	2.4	4.80	<0.1	0.07
1098215	Soil	3.8	16.5	0.26	131.5	0.001	4	0.96	0.003	0.12	<0.1	7.7	0.34	0.06	40	0.4	0.05	2.6	3.68	<0.1	0.14
1098216	Soil	3.1	15.1	0.26	95.3	0.001	2	0.88	0.002	0.08	<0.1	6.1	0.14	0.02	30	0.3	0.06	2.3	4.01	<0.1	0.07
1098217	Soil	9.3	13.9	0.28	202.7	0.002	4	0.90	0.005	0.07	<0.1	5.0	0.17	0.10	56	0.6	0.08	1.9	1.72	<0.1	0.08
1098218	Soil	7.8	21.0	0.33	189.3	0.002	3	1.57	0.002	0.11	<0.1	9.0	0.21	0.07	55	0.3	0.13	3.8	5.72	<0.1	0.10
1098219	Soil	4.6	14.2	0.42	92.7	0.001	3	0.81	0.004	0.10	<0.1	5.9	0.17	0.06	60	0.4	0.04	2.1	2.76	<0.1	0.07
1098220	Soil	3.3	5.8	0.14	168.2	<0.001	3	0.68	0.004	0.07	<0.1	5.4	0.19	0.07	77	0.6	0.09	0.8	1.88	<0.1	0.09
1096601	Soil	5.7	11.4	0.09	57.5	0.008	3	0.59	<0.001	0.19	<0.1	2.2	0.10	<0.02	12	0.1	0.09	2.8	2.66	<0.1	<0.02
1096602	Soil	5.6	17.8	0.15	67.2	0.017	5	0.73	0.002	0.24	0.2	2.5	0.12	<0.02	20	0.1	0.06	2.1	2.94	<0.1	0.02
1096603	Soil	8.6	23.1	0.29	167.9	0.014	4	1.05	0.002	0.21	0.2	2.3	0.12	<0.02	21	0.2	0.02	3.9	1.53	<0.1	<0.02
1096604	Soil	11.7	32.5	0.48	70.8	0.009	1	1.91	0.003	0.10	<0.1	3.2	0.11	<0.02	31	0.2	0.02	5.8	1.54	<0.1	0.03
1096605	Soil	8.4	25.1	0.40	150.6	0.011	3	1.28	0.004	0.22	<0.1	2.3	0.11	0.03	17	0.2	0.04	4.8	1.40	<0.1	0.02
1096606	Soil	11.0	31.3	0.44	111.0	0.010	2	1.87	0.003	0.09	0.2	2.6	0.12	<0.02	34	0.3	0.03	5.4	1.45	<0.1	0.03
1096607	Soil	10.3	22.4	0.39	138.4	0.006	3	1.13	0.004	0.14	<0.1	3.1	0.09	0.02	27	0.3	<0.02	3.8	1.26	<0.1	0.02
1096608	Soil	6.3	23.1	0.27	188.9	0.010	2	1.62	0.012	0.11	<0.1	5.1	0.22	0.10	28	0.4	0.07	3.4	4.17	<0.1	0.02
1096609	Soil	5.3	23.4	0.21	92.5	0.003	3	1.26	0.006	0.11	<0.1	2.8	0.22	0.05	16	0.4	0.05	4.1	3.73	<0.1	<0.02
1096610	Soil	4.5	21.3	0.28	183.3	0.004	2	1.34	0.005	0.09	<0.1	5.2	0.13	0.04	16	0.4	0.10	3.9	7.82	<0.1	0.03
1096611	Soil	4.9	19.5	0.19	77.6	0.001	2	1.14	0.004	0.10	<0.1	4.4	0.19	0.04	16	0.4	0.04	3.6	3.20	<0.1	<0.02
1096612	Soil	6.4	18.9	0.20	121.0	0.001	1	1.05	0.007	0.09	<0.1	3.5	0.21	0.05	15	0.2	0.02	3.8	2.73	<0.1	0.04
1096613	Soil	18.5	18.7	0.27	144.8	0.003	3	1.06	0.005	0.10	<0.1	11.1	0.23	0.03	150	0.3	0.03	3.1	2.38	<0.1	0.07
1096614	Soil	17.9	20.5	0.28	270.0	0.002	3	1.36	0.004	0.13	<0.1	9.1	0.26	0.03	73	0.2	0.03	4.0	2.88	<0.1	0.07
1096615	Soil	5.7	25.9	0.33	102.0	0.002	2	1.82	<0.001	0.10	<0.1	3.9	0.11	0.04	34	0.3	0.02	4.5	2.10	<0.1	0.07
1096616	Soil	6.6	40.1	0.09	37.0	0.002	2	2.72	<0.001	0.09	<0.1	7.1	0.35	0.09	146	0.9	0.03	4.2	2.51	<0.1	0.18
1096617	Soil	14.4	11.8	0.27	151.6	0.002	4	0.82	0.005	0.10	<0.1	2.9	0.15	0.08	165	0.7	<0.02	2.1	0.84	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 05, 2011

Page: 3 of 5 Part 3

CERTIFICATE OF ANALYSIS

WHI11001193.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1098208	Soil	0.09	5.9	1.3	<0.05	2.8	10.29	9.6	0.06	<1	0.8	20.9	<10	<2
1098209	Soil	0.06	9.6	3.5	<0.05	4.8	17.70	12.1	0.05	1	1.4	22.3	<10	<2
1098210	Soil	0.02	6.3	1.4	<0.05	3.4	9.84	5.1	0.04	<1	0.9	20.8	<10	<2
1098211	Soil	0.03	5.6	3.8	<0.05	2.2	10.04	10.4	0.05	<1	0.8	21.5	<10	<2
1098212	Soil	0.06	5.1	0.8	<0.05	2.5	9.36	9.7	0.04	<1	0.8	18.3	<10	<2
1098213	Soil	0.05	5.5	2.2	<0.05	2.6	10.44	10.0	0.04	<1	0.7	18.1	<10	<2
1098214	Soil	0.04	8.9	1.4	<0.05	4.0	13.33	12.6	0.09	2	1.1	32.4	<10	<2
1098215	Soil	0.09	9.8	2.3	<0.05	3.9	14.44	12.3	0.07	<1	1.3	35.1	<10	<2
1098216	Soil	0.04	7.1	1.1	<0.05	3.4	12.06	9.8	0.03	<1	1.1	35.9	<10	<2
1098217	Soil	0.11	6.5	4.8	<0.05	2.4	25.56	28.9	0.07	<1	1.2	26.0	<10	<2
1098218	Soil	0.14	14.1	1.0	<0.05	2.5	32.11	25.4	0.07	<1	2.1	43.1	<10	<2
1098219	Soil	0.06	7.9	3.5	<0.05	2.5	12.77	13.1	0.06	2	1.1	26.8	<10	<2
1098220	Soil	0.02	5.0	0.7	<0.05	5.8	18.51	11.0	0.04	<1	1.0	14.1	12	<2
1096601	Soil	0.22	18.2	2.1	<0.05	<0.1	1.83	11.2	0.04	2	0.4	1.6	<10	<2
1096602	Soil	0.56	18.5	4.4	<0.05	0.6	2.16	12.1	0.03	<1	0.7	4.9	<10	<2
1096603	Soil	0.54	21.1	1.1	<0.05	<0.1	2.78	18.7	0.04	<1	0.6	9.8	<10	<2
1096604	Soil	0.70	11.8	1.1	<0.05	1.9	3.79	24.3	0.04	<1	0.9	37.9	<10	<2
1096605	Soil	0.59	15.8	1.7	<0.05	0.3	3.04	17.1	0.03	<1	0.6	19.2	<10	<2
1096606	Soil	0.93	13.8	2.2	<0.05	0.9	2.98	22.1	0.03	<1	0.6	34.8	<10	<2
1096607	Soil	0.40	12.4	0.7	<0.05	0.8	6.03	22.5	0.02	<1	0.7	26.0	<10	<2
1096608	Soil	0.30	11.5	2.2	<0.05	1.3	6.92	15.3	0.05	2	1.4	30.4	<10	<2
1096609	Soil	0.13	14.7	1.2	<0.05	0.7	3.53	11.9	0.04	<1	0.6	19.2	<10	<2
1096610	Soil	0.09	12.3	1.1	<0.05	1.5	7.52	10.3	0.06	<1	1.4	34.0	<10	<2
1096611	Soil	0.07	11.1	0.6	<0.05	1.6	4.85	12.3	0.05	<1	0.7	17.3	<10	<2
1096612	Soil	0.08	10.8	2.8	<0.05	1.8	5.87	18.3	0.05	<1	0.8	16.9	<10	<2
1096613	Soil	0.08	8.5	0.9	<0.05	4.7	30.45	57.4	0.05	<1	1.1	26.2	<10	<2
1096614	Soil	0.06	12.2	2.7	<0.05	4.5	28.04	60.5	0.06	<1	1.5	32.7	<10	<2
1096615	Soil	0.37	9.7	0.8	<0.05	2.0	7.56	25.6	0.08	1	1.7	48.4	<10	<2
1096616	Soil	0.20	11.9	1.7	<0.05	6.9	5.93	18.4	0.10	2	1.0	12.3	<10	<2
1096617	Soil	0.16	8.7	0.7	<0.05	1.3	18.50	34.3	0.04	1	0.9	8.3	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 4 of 5 Part 1

CERTIFICATE OF ANALYSIS

WHI11001193.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1096618	Soil			0.29	12.13	17.71	32.3	146	14.5	5.3	246	1.62	3.7	0.8	0.3	1.3	59.2	0.06	0.15	0.19	9	1.42	0.067
1096619	Soil			0.48	17.45	28.23	63.9	190	20.6	7.1	346	2.43	5.3	1.0	<0.2	2.5	37.0	0.24	0.34	0.25	19	1.04	0.075
1096620	Soil			0.37	17.08	33.60	257.2	140	12.3	5.8	4155	5.43	16.1	2.5	0.7	0.6	28.9	1.49	1.67	0.10	12	9.65	0.125
1096621	Soil			0.74	24.53	37.15	71.3	236	24.8	11.6	3726	6.14	17.2	1.6	1.2	1.9	24.0	0.31	2.03	0.25	29	3.69	0.152
1096622	Soil			0.56	13.53	20.72	51.6	175	14.1	6.7	1395	2.90	8.5	1.1	1.7	0.8	33.5	0.27	0.79	0.14	23	7.67	0.121
1096623	Soil			0.61	21.59	39.65	67.1	114	26.2	13.3	1868	4.79	15.6	1.6	0.6	5.3	9.2	0.08	0.98	0.33	32	0.42	0.054
1096624	Soil			0.88	29.67	41.81	112.7	167	31.5	13.7	2224	5.59	17.3	1.6	1.6	4.7	10.2	0.17	1.29	0.33	35	0.64	0.068
1096743	Soil			0.38	22.19	63.77	57.0	197	28.3	10.1	228	2.25	8.6	1.0	<0.2	5.7	36.5	0.07	0.33	0.29	8	1.43	0.048
1096744	Soil			0.43	20.84	38.54	205.4	152	17.4	8.7	2062	3.40	38.6	2.3	2.4	1.6	35.2	0.45	2.38	0.14	17	9.55	0.095
1096745	Soil			0.46	20.36	38.08	93.5	238	17.7	8.0	2322	3.98	26.4	1.6	3.0	1.1	28.8	0.34	2.22	0.17	19	6.84	0.140
1096746	Soil			0.19	6.64	18.43	14.9	81	8.5	5.8	1619	1.90	20.8	1.2	0.5	0.3	67.7	0.15	0.98	0.05	7	12.20	0.096
1096747	Soil			0.46	12.54	19.99	55.2	140	11.2	6.6	3435	4.35	20.6	0.9	0.8	0.6	9.6	0.36	1.28	0.22	18	1.82	0.132
1096748	Soil			0.60	12.66	33.69	91.1	96	11.6	5.8	2589	3.11	20.6	0.8	2.7	0.5	25.3	0.41	1.54	0.15	17	5.07	0.107
1096749	Soil			0.37	11.58	16.96	64.2	116	9.7	5.9	3291	3.16	13.4	0.8	1.4	0.4	18.8	0.67	0.79	0.14	14	4.41	0.131
1096750	Soil			0.31	12.24	20.43	33.3	68	9.6	8.9	3142	3.80	31.5	0.6	1.4	1.1	18.9	0.14	1.09	0.17	14	5.15	0.220
1098968	Soil			1.15	40.45	53.53	122.1	292	49.6	26.3	667	4.14	27.8	1.6	1.4	5.1	40.5	0.16	0.53	0.44	9	0.33	0.063
1098969	Soil			0.87	43.88	61.83	123.4	203	50.7	31.6	769	4.34	12.9	1.4	0.9	4.3	27.0	0.13	0.46	0.40	15	0.22	0.056
1098970	Soil			0.68	33.98	48.30	97.2	817	29.4	19.0	586	3.74	7.4	0.8	0.8	2.7	16.1	0.13	0.36	0.37	13	0.18	0.074
1098971	Soil			1.07	33.87	32.67	57.1	320	9.5	4.2	169	4.23	9.1	0.6	1.0	1.9	9.1	0.08	0.54	0.47	26	0.02	0.057
1098972	Soil			1.54	38.61	88.85	96.0	178	30.2	24.9	1207	4.51	12.1	1.4	1.9	1.0	30.9	0.21	0.51	0.52	22	0.56	0.185
1098973	Soil			0.57	28.50	73.74	82.2	267	19.1	20.0	1095	3.42	8.0	1.0	0.4	0.8	19.8	0.46	0.38	0.35	13	0.25	0.110
1098974	Soil			1.02	32.59	52.45	41.1	297	6.5	2.5	67	5.50	12.0	0.6	1.0	3.5	13.0	0.08	0.51	0.68	19	0.02	0.063
1098975	Soil			0.97	66.52	54.28	49.3	315	6.9	6.1	201	7.79	15.5	1.1	0.7	6.9	20.8	0.03	0.56	0.53	21	0.01	0.092
1098976	Soil			0.82	33.34	79.99	108.4	814	15.2	5.8	207	4.13	8.8	1.0	1.9	2.0	9.1	0.33	0.42	0.34	14	0.06	0.116
1098977	Soil			1.25	19.91	25.63	62.3	140	12.3	4.9	76	2.79	7.0	0.4	0.8	0.7	4.4	0.04	0.47	0.31	28	0.02	0.055
1098978	Soil			0.79	27.38	41.64	128.9	85	39.2	21.8	892	4.21	7.7	0.9	0.8	3.9	9.8	0.22	0.52	0.43	22	0.04	0.058
1098979	Soil			0.61	16.61	19.56	79.8	111	16.2	8.7	342	2.68	5.8	0.5	<0.2	1.2	4.7	0.12	0.38	0.38	19	0.04	0.036
1098980	Soil			0.66	18.86	45.44	90.7	163	24.5	15.8	1497	3.26	5.6	0.9	0.8	1.7	14.3	0.25	0.37	0.38	17	0.18	0.085
1098981	Soil			0.56	14.62	18.71	55.7	184	16.8	6.7	394	2.09	5.2	1.3	0.5	1.8	52.5	0.22	0.33	0.25	18	1.07	0.083
1098982	Soil			0.74	46.00	80.26	98.8	156	37.2	15.2	852	3.26	30.8	2.1	2.1	3.0	112.6	0.27	3.05	0.39	15	3.57	0.175



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: October 05, 2011

Page: 4 of 5 Part 2

CERTIFICATE OF ANALYSIS

WHI11001193.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1096618	Soil	14.6	8.3	0.07	202.1	0.001	4	0.48	0.002	0.08	<0.1	1.6	0.11	0.06	246	0.3	0.02	1.1	0.30	<0.1	0.04
1096619	Soil	15.9	16.0	0.15	139.5	0.003	4	0.92	0.002	0.11	<0.1	3.3	0.10	0.05	148	0.3	0.03	2.5	0.27	<0.1	0.07
1096620	Soil	9.5	9.1	5.79	63.1	0.003	5	0.49	0.010	0.04	<0.1	1.2	0.10	0.06	142	0.5	0.07	1.3	0.23	<0.1	0.04
1096621	Soil	17.1	21.0	1.98	142.5	0.006	5	1.42	0.007	0.08	<0.1	3.0	0.12	0.07	109	0.4	0.05	3.3	0.56	<0.1	0.08
1096622	Soil	11.8	15.9	4.98	77.0	0.006	3	1.05	0.009	0.06	<0.1	1.8	0.09	0.05	123	0.4	0.02	2.2	0.46	<0.1	<0.02
1096623	Soil	23.2	31.1	0.47	108.2	0.002	2	1.95	0.002	0.10	<0.1	7.0	0.18	0.03	141	0.3	0.04	5.1	1.00	<0.1	0.10
1096624	Soil	25.4	34.0	0.65	140.1	0.005	2	1.81	0.003	0.12	<0.1	6.2	0.17	0.03	195	0.2	0.04	5.3	0.66	<0.1	0.09
1096743	Soil	9.4	9.8	0.09	53.8	0.001	5	0.41	0.002	0.15	<0.1	4.1	0.14	0.04	797	0.2	0.03	1.4	1.65	<0.1	0.06
1096744	Soil	9.7	10.9	7.20	71.3	0.004	2	0.74	0.013	0.04	<0.1	2.7	0.12	0.02	263	0.5	0.07	1.3	0.26	<0.1	0.06
1096745	Soil	13.6	13.6	4.36	92.4	0.004	4	0.78	0.008	0.06	<0.1	1.9	0.12	0.06	495	0.5	0.07	1.6	0.26	<0.1	0.06
1096746	Soil	6.6	5.2	8.84	78.7	0.002	3	0.25	0.009	0.02	<0.1	1.0	0.21	0.02	221	0.4	0.02	0.5	0.12	<0.1	0.02
1096747	Soil	9.4	12.7	0.87	152.4	0.004	4	0.89	0.003	0.06	<0.1	1.2	0.13	0.08	98	0.4	0.03	2.1	0.40	<0.1	0.03
1096748	Soil	8.4	11.0	3.04	103.6	0.004	4	0.74	0.008	0.03	<0.1	1.0	0.18	0.04	127	0.4	0.04	1.4	0.30	<0.1	0.02
1096749	Soil	9.4	9.7	2.53	143.8	0.004	3	0.71	0.006	0.03	<0.1	0.9	0.09	0.09	166	0.5	0.03	1.3	0.28	<0.1	0.03
1096750	Soil	8.6	9.9	2.85	108.3	0.003	5	0.67	0.007	0.06	<0.1	1.2	0.17	0.06	111	0.4	<0.02	1.4	0.23	<0.1	0.05
1098968	Soil	6.1	9.9	0.13	266.4	0.001	3	0.95	0.032	0.08	<0.1	5.4	0.38	0.13	36	0.6	0.07	1.5	2.42	<0.1	0.12
1098969	Soil	5.3	16.9	0.24	223.1	0.003	2	1.02	0.009	0.09	<0.1	5.8	0.16	0.05	37	0.3	0.05	2.7	3.11	<0.1	0.07
1098970	Soil	3.0	15.4	0.20	110.3	0.002	2	0.90	0.006	0.09	<0.1	3.6	0.15	0.07	31	0.3	0.04	2.4	3.01	<0.1	0.05
1098971	Soil	5.3	20.9	0.12	50.3	0.004	2	0.86	0.004	0.07	<0.1	1.7	0.13	0.04	14	0.4	0.04	3.9	1.75	<0.1	<0.02
1098972	Soil	6.6	33.7	0.35	218.9	0.005	4	1.58	0.008	0.12	<0.1	2.3	0.12	0.09	38	0.5	0.06	3.8	4.73	<0.1	0.04
1098973	Soil	2.8	19.2	0.16	148.1	0.003	4	0.95	0.009	0.09	<0.1	1.8	0.12	0.12	52	0.4	0.06	2.3	2.87	<0.1	0.03
1098974	Soil	4.3	24.9	0.16	72.3	0.001	2	1.06	0.004	0.08	<0.1	3.2	0.21	0.03	32	0.7	0.05	4.0	2.94	<0.1	0.02
1098975	Soil	3.5	29.5	0.13	63.8	0.002	2	1.17	0.006	0.07	<0.1	6.7	0.24	0.13	21	0.6	0.03	4.0	3.07	<0.1	0.04
1098976	Soil	3.1	23.0	0.15	123.0	0.003	3	1.19	0.008	0.09	<0.1	3.4	0.19	0.09	101	0.5	<0.02	2.5	3.99	<0.1	0.06
1098977	Soil	4.2	16.2	0.05	40.4	0.002	2	0.71	0.006	0.07	<0.1	1.1	0.11	0.03	25	0.3	0.04	3.5	1.54	<0.1	<0.02
1098978	Soil	6.6	24.5	0.37	119.4	0.006	3	1.61	0.006	0.11	<0.1	4.1	0.14	0.04	16	0.3	<0.02	4.0	2.94	<0.1	0.05
1098979	Soil	4.9	12.4	0.10	60.2	0.004	2	0.70	0.003	0.09	<0.1	1.4	0.11	0.02	21	0.2	<0.02	3.8	1.02	<0.1	<0.02
1098980	Soil	9.4	18.7	0.21	131.6	0.004	3	1.16	0.005	0.11	<0.1	2.4	0.16	0.06	56	0.3	0.04	3.2	1.70	<0.1	0.03
1098981	Soil	16.4	14.0	0.16	157.9	0.004	4	0.93	0.005	0.07	<0.1	2.4	0.12	0.07	164	0.4	0.02	2.2	0.41	<0.1	0.06
1098982	Soil	19.4	14.4	0.23	95.2	0.002	7	1.00	0.008	0.16	<0.1	2.5	0.11	0.11	228	0.6	0.16	2.5	0.18	<0.1	0.18



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 05, 2011

Page: 4 of 5 Part 3

CERTIFICATE OF ANALYSIS

WHI11001193.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1096618	Soil	0.11	5.4	0.5	<0.05	1.9	12.76	34.1	0.03	<1	0.6	4.1	<10	<2
1096619	Soil	0.29	8.1	1.3	<0.05	1.9	13.50	37.1	0.03	<1	0.8	5.4	<10	<2
1096620	Soil	0.08	2.7	2.8	<0.05	1.0	13.57	16.2	<0.02	<1	0.4	2.3	<10	<2
1096621	Soil	0.30	8.4	0.8	<0.05	2.1	18.93	31.7	0.04	<1	0.8	9.2	<10	<2
1096622	Soil	0.22	5.4	2.5	<0.05	0.7	13.96	20.7	0.02	<1	0.5	8.0	<10	<2
1096623	Soil	0.33	11.6	1.4	<0.05	2.9	25.21	42.7	0.04	<1	1.1	18.2	<10	<2
1096624	Soil	0.39	10.3	5.0	<0.05	2.7	27.08	34.4	0.04	<1	1.2	17.9	<10	<2
1096743	Soil	0.13	7.3	0.7	<0.05	2.2	13.56	22.1	0.03	<1	1.0	2.1	<10	<2
1096744	Soil	0.10	2.8	1.5	<0.05	1.6	12.56	17.3	<0.02	<1	0.3	3.7	<10	<2
1096745	Soil	0.17	4.3	0.7	<0.05	1.7	17.26	22.1	<0.02	2	0.4	3.9	<10	<2
1096746	Soil	0.03	1.7	4.1	<0.05	1.0	12.25	10.8	<0.02	<1	0.4	1.6	<10	<2
1096747	Soil	0.12	5.0	0.4	<0.05	0.7	11.66	19.0	<0.02	<1	0.5	4.4	<10	<2
1096748	Soil	0.13	2.7	2.5	<0.05	0.7	9.58	16.3	0.04	<1	0.7	4.5	<10	<2
1096749	Soil	0.10	3.7	0.3	<0.05	0.7	10.62	17.2	0.02	<1	0.7	3.0	<10	<2
1096750	Soil	0.07	2.9	2.2	<0.05	1.5	12.18	18.5	<0.02	<1	0.6	3.7	<10	<2
1098968	Soil	0.05	7.2	0.8	<0.05	5.1	18.16	17.6	0.05	1	1.0	14.7	10	<2
1098969	Soil	0.10	8.6	3.8	<0.05	2.7	16.82	14.9	0.05	1	1.2	30.3	<10	<2
1098970	Soil	0.13	9.7	1.1	<0.05	1.3	8.00	7.8	0.05	<1	1.0	25.5	<10	<2
1098971	Soil	0.23	10.8	0.8	<0.05	0.3	2.18	10.4	0.04	<1	0.5	10.9	<10	<2
1098972	Soil	0.16	15.2	16.6	<0.05	1.1	14.56	18.0	0.06	<1	1.7	30.7	<10	<2
1098973	Soil	0.18	9.1	11.0	<0.05	1.0	5.69	6.6	0.04	<1	1.0	15.0	<10	<2
1098974	Soil	0.09	9.6	2.5	<0.05	1.2	2.41	10.0	0.07	<1	0.5	14.1	<10	<2
1098975	Soil	0.15	9.2	1.4	<0.05	1.8	1.92	8.3	0.11	<1	0.6	11.6	<10	<2
1098976	Soil	0.18	11.5	12.1	<0.05	2.0	3.81	7.1	0.05	<1	0.6	11.0	<10	<2
1098977	Soil	0.23	9.9	8.7	<0.05	0.3	1.89	7.8	0.03	<1	0.2	2.8	<10	<2
1098978	Soil	0.36	13.0	3.4	<0.05	1.5	6.73	20.9	0.05	<1	1.1	41.9	<10	<2
1098979	Soil	0.34	12.7	2.3	<0.05	0.1	2.13	10.5	0.03	<1	0.4	6.5	<10	<2
1098980	Soil	0.29	11.7	7.4	<0.05	0.9	9.38	33.0	0.04	<1	1.0	22.5	<10	<2
1098981	Soil	0.34	7.5	0.6	<0.05	1.9	12.94	40.1	0.03	<1	0.8	9.0	<10	<2
1098982	Soil	0.29	5.4	11.7	<0.05	5.1	24.16	30.2	0.03	<1	1.0	4.1	<10	<2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 05, 2011

Page: 5 of 5 Part 1

CERTIFICATE OF ANALYSIS

WHI11001193.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1098983	Soil	0.62	33.26	61.51	69.7	217	28.8	14.5	975	2.90	20.7	1.6	1.4	3.6	153.5	0.28	2.54	0.37	22	5.52	0.136
1098984	Soil	0.75	19.87	39.54	184.3	65	26.8	17.6	2988	5.48	18.3	1.4	0.4	5.0	8.9	0.55	1.14	0.35	38	0.46	0.064
1098985	Soil	0.47	15.64	26.10	60.5	156	14.4	8.2	1042	2.90	8.5	1.1	<0.2	1.4	14.2	0.44	0.59	0.24	21	1.98	0.108
1098986	Soil	0.66	18.30	13.33	39.9	13	10.0	6.0	108	2.63	7.5	0.5	0.3	1.9	3.3	0.05	0.57	0.37	31	0.02	0.028
1098987	Soil	0.18	10.52	8.37	17.2	11	6.4	4.8	24	1.85	1.1	0.3	<0.2	2.5	2.3	0.02	0.20	0.33	18	0.03	0.017
1098988	Soil	0.88	13.43	20.27	132.7	36	19.2	11.6	1203	3.29	6.7	1.0	0.6	4.2	11.8	0.31	0.38	0.31	42	0.31	0.039
1098989	Soil	0.51	19.60	29.68	96.7	38	16.0	13.8	499	3.47	5.2	0.5	0.3	6.6	7.8	0.08	0.15	0.44	29	0.02	0.036
1098990	Soil	0.83	17.64	19.07	79.0	56	15.5	9.0	245	2.97	5.7	0.5	0.3	4.5	8.6	0.12	0.28	0.32	34	0.10	0.029
1098991	Soil	0.74	16.00	18.48	56.3	163	13.4	11.4	833	2.91	5.6	0.4	<0.2	2.8	5.6	0.07	0.27	0.36	34	0.05	0.037
1098992	Soil	0.55	34.99	65.22	92.9	67	26.6	34.3	1215	3.82	5.8	0.8	0.7	3.8	11.9	0.05	0.21	0.56	30	0.09	0.044
1098993	Soil	0.55	23.28	32.84	105.6	135	26.2	24.7	2007	3.80	4.8	0.5	4.2	4.1	11.4	0.08	0.16	0.44	39	0.17	0.041
1098994	Soil	1.16	28.90	39.41	96.3	70	19.7	22.0	2340	4.13	10.8	0.8	1.1	0.4	8.6	0.17	0.72	0.36	36	0.04	0.121
1098995	Soil	1.06	31.70	56.29	126.2	82	28.5	21.4	788	4.25	16.6	0.8	1.0	2.3	7.4	0.16	0.60	0.39	35	0.04	0.059
1098996	Soil	0.90	19.26	26.25	62.7	114	6.5	3.0	67	3.92	7.3	0.3	0.5	2.2	3.4	0.03	0.34	0.46	20	<0.01	0.047
1098997	Soil	0.75	23.24	31.62	86.5	133	23.0	11.4	366	3.49	7.4	0.6	0.3	3.3	10.7	0.07	0.38	0.40	22	0.04	0.045
1098998	Soil	0.54	23.86	34.98	83.7	75	27.4	14.1	592	3.99	7.5	1.1	0.4	3.4	34.3	0.06	0.33	0.39	18	0.37	0.059



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 05, 2011

Page: 5 of 5 Part 2

CERTIFICATE OF ANALYSIS

WHI11001193.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1098983	Soil	29.6	19.3	0.22	129.6	0.003	6	1.38	0.009	0.20	<0.1	3.7	0.13	0.07	164	0.4	0.09	3.5	0.30	<0.1	0.15
1098984	Soil	17.4	30.7	0.49	201.5	0.005	2	2.12	0.006	0.15	<0.1	5.0	0.18	0.03	68	0.3	0.03	5.7	0.92	<0.1	0.08
1098985	Soil	11.6	17.3	0.78	100.6	0.004	2	1.14	0.007	0.07	<0.1	2.6	0.06	0.08	147	0.3	0.03	2.8	0.30	<0.1	0.06
1098986	Soil	8.5	14.2	0.11	46.6	0.010	3	0.89	0.003	0.12	<0.1	1.5	0.10	<0.02	24	0.1	0.05	4.1	1.39	<0.1	<0.02
1098987	Soil	8.5	12.5	0.09	55.4	0.007	4	0.73	0.002	0.24	<0.1	1.2	0.11	<0.02	<5	<0.1	0.03	3.0	1.06	<0.1	<0.02
1098988	Soil	11.9	27.9	0.34	131.5	0.008	3	1.70	0.006	0.15	<0.1	2.9	0.12	<0.02	24	0.2	0.04	5.0	0.74	<0.1	<0.02
1098989	Soil	12.4	21.6	0.17	144.3	0.003	3	1.41	0.003	0.27	<0.1	3.1	0.16	0.02	12	0.1	<0.02	5.8	0.92	<0.1	<0.02
1098990	Soil	12.0	25.2	0.25	218.3	0.004	1	1.45	0.004	0.14	<0.1	2.5	0.12	<0.02	7	0.1	0.03	6.0	0.82	<0.1	<0.02
1098991	Soil	9.6	22.7	0.17	162.6	0.004	<1	1.33	0.004	0.13	<0.1	2.1	0.10	<0.02	15	0.2	0.03	5.9	0.58	<0.1	<0.02
1098992	Soil	10.9	33.5	0.34	116.1	0.003	<1	1.78	0.008	0.13	<0.1	4.8	0.13	<0.02	16	0.1	0.03	7.5	2.82	<0.1	0.03
1098993	Soil	6.8	39.4	0.34	186.7	0.002	<1	2.41	0.009	0.17	<0.1	3.6	0.15	<0.02	20	0.2	0.02	8.7	1.14	<0.1	0.04
1098994	Soil	6.3	24.1	0.19	156.2	0.005	3	1.20	0.006	0.08	<0.1	0.7	0.16	0.07	23	0.4	0.05	4.4	3.11	<0.1	<0.02
1098995	Soil	7.0	25.3	0.35	86.0	0.011	2	1.77	0.007	0.09	<0.1	2.8	0.09	0.03	18	0.4	0.07	4.6	5.63	<0.1	0.03
1098996	Soil	3.6	14.5	0.06	41.1	0.001	2	0.78	0.004	0.09	<0.1	1.3	0.12	0.02	10	0.4	0.02	4.3	1.82	<0.1	0.02
1098997	Soil	5.1	19.7	0.20	116.8	0.002	2	1.14	0.007	0.12	<0.1	2.5	0.12	0.03	32	0.2	0.04	4.2	1.11	<0.1	0.03
1098998	Soil	8.3	20.2	0.28	99.1	0.002	2	1.37	0.006	0.11	<0.1	3.7	0.13	0.03	24	0.3	0.03	3.6	1.75	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 05, 2011

Page: 5 of 5 Part 3

CERTIFICATE OF ANALYSIS

WHI11001193.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10
1098983	Soil	0.40	8.3	6.2	<0.05	4.0	26.10	45.8	0.04	<1	1.1	6.5	<10
1098984	Soil	0.55	18.3	2.0	<0.05	2.9	15.64	33.4	0.04	<1	1.0	14.6	<10
1098985	Soil	0.44	5.1	2.3	<0.05	1.7	12.38	18.8	0.03	<1	0.7	7.8	<10
1098986	Soil	0.65	14.1	1.7	<0.05	0.3	1.83	16.0	0.03	<1	0.3	3.4	<10
1098987	Soil	0.37	18.3	2.4	<0.05	0.3	1.09	17.3	0.02	<1	0.3	1.6	<10
1098988	Soil	0.77	13.6	1.6	<0.05	0.9	3.17	30.7	0.04	<1	0.8	18.9	<10
1098989	Soil	0.28	20.2	1.8	<0.05	0.6	3.99	24.8	0.04	<1	0.7	11.1	<10
1098990	Soil	0.34	15.4	2.9	<0.05	0.5	2.53	23.2	0.03	<1	0.4	21.2	<10
1098991	Soil	0.39	12.2	2.3	<0.05	0.3	2.43	18.0	0.03	<1	0.4	13.2	<10
1098992	Soil	0.22	19.6	2.1	<0.05	1.5	13.15	30.0	0.06	<1	1.5	31.2	<10
1098993	Soil	0.26	22.4	2.1	<0.05	1.3	3.08	15.5	0.05	<1	1.3	41.1	<10
1098994	Soil	0.13	15.2	2.3	<0.05	0.5	3.72	14.2	0.04	<1	0.7	12.6	<10
1098995	Soil	0.51	15.9	2.8	<0.05	1.1	5.10	13.5	0.04	<1	1.2	45.1	<10
1098996	Soil	0.13	12.7	1.8	<0.05	0.8	2.08	7.1	0.04	<1	0.3	4.7	<10
1098997	Soil	0.31	11.2	3.5	<0.05	1.4	3.10	11.7	0.04	<1	0.5	19.8	<10
1098998	Soil	0.24	13.9	2.0	<0.05	1.4	9.40	29.0	0.05	<1	1.3	33.1	<10



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 05, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

WHI11001193.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
1098924	Soil	0.61	24.01	44.24	102.5	191	21.9	9.5	1194	3.90	22.7	1.2	2.5	2.1	28.0	0.34	1.97	0.29	24	2.43	0.129
REP 1098924	QC	0.56	22.67	41.99	95.7	183	20.4	9.1	1145	3.68	21.6	1.1	1.9	1.9	27.7	0.39	1.82	0.27	22	2.43	0.121
1098928	Soil	0.67	17.29	28.89	72.6	125	22.1	10.4	1370	3.66	16.8	0.7	1.9	2.5	15.5	0.22	0.98	0.27	26	2.39	0.076
REP 1098928	QC	0.73	18.14	30.46	77.2	131	24.1	11.3	1443	3.91	17.8	0.8	1.7	2.8	17.2	0.23	1.10	0.28	29	2.49	0.078
1096608	Soil	1.06	42.00	56.00	128.9	94	43.3	16.0	514	4.47	12.9	1.4	2.0	3.6	23.0	0.18	0.58	0.36	26	0.04	0.056
REP 1096608	QC	1.03	42.79	55.48	131.4	93	42.2	16.1	516	4.49	12.6	1.4	0.6	3.8	23.8	0.16	0.59	0.38	26	0.04	0.055
1096619	Soil	0.48	17.45	28.23	63.9	190	20.6	7.1	346	2.43	5.3	1.0	<0.2	2.5	37.0	0.24	0.34	0.25	19	1.04	0.075
REP 1096619	QC	0.50	17.04	28.02	59.6	190	20.4	6.8	345	2.40	5.6	1.0	0.2	2.4	36.6	0.22	0.36	0.25	19	1.04	0.074
1098979	Soil	0.61	16.61	19.56	79.8	111	16.2	8.7	342	2.68	5.8	0.5	<0.2	1.2	4.7	0.12	0.38	0.38	19	0.04	0.036
REP 1098979	QC	0.74	18.46	22.19	90.8	127	18.3	9.8	386	3.11	7.0	0.5	0.3	1.3	5.7	0.12	0.46	0.42	24	0.04	0.041
1098992	Soil	0.55	34.99	65.22	92.9	67	26.6	34.3	1215	3.82	5.8	0.8	0.7	3.8	11.9	0.05	0.21	0.56	30	0.09	0.044
REP 1098992	QC	0.51	34.13	61.05	88.4	67	25.5	33.8	1130	3.68	5.3	0.8	<0.2	3.5	11.2	0.04	0.19	0.56	30	0.09	0.040
Reference Materials																					
STD DS8	Standard	13.29	112.0	120.4	296.3	1655	38.2	8.2	600	2.50	24.8	2.9	106.9	7.1	61.0	2.23	5.21	6.84	39	0.72	0.078
STD DS8	Standard	11.89	112.3	127.3	310.7	1802	37.6	7.0	568	2.40	22.9	2.9	104.2	6.5	57.7	2.20	5.02	6.53	39	0.68	0.074
STD DS8	Standard	13.36	108.8	128.8	290.8	1737	37.4	7.2	581	2.50	22.4	3.0	124.4	6.8	63.9	2.16	5.53	6.56	41	0.71	0.074
STD DS8	Standard	11.50	99.59	116.1	293.2	1662	34.2	6.7	556	2.32	21.8	2.5	101.5	6.0	55.4	2.02	4.93	5.51	38	0.63	0.070
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 05, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

WHI11001193.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
1098924	Soil	21.5	18.1	1.10	66.1	0.003	2	1.02	0.002	0.04	<0.1	3.0	0.06	0.07	190	0.3	0.07	2.1	0.10	<0.1	0.07
REP 1098924	QC	20.8	17.7	1.10	62.4	0.003	1	0.95	0.002	0.04	<0.1	2.6	0.06	0.07	188	0.3	0.10	1.9	0.08	<0.1	0.07
1098928	Soil	10.5	20.3	1.50	79.2	0.004	3	1.27	0.003	0.05	<0.1	2.9	0.11	0.04	104	0.3	0.02	3.2	0.36	<0.1	0.04
REP 1098928	QC	12.0	21.6	1.59	86.1	0.005	3	1.40	0.004	0.06	<0.1	3.3	0.12	0.04	117	0.2	0.03	3.7	0.46	<0.1	0.07
1096608	Soil	6.3	23.1	0.27	188.9	0.010	2	1.62	0.012	0.11	<0.1	5.1	0.22	0.10	28	0.4	0.07	3.4	4.17	<0.1	0.02
REP 1096608	QC	6.6	22.6	0.28	193.2	0.009	2	1.64	0.012	0.12	<0.1	5.1	0.21	0.10	18	0.4	0.06	3.6	4.20	<0.1	0.03
1096619	Soil	15.9	16.0	0.15	139.5	0.003	4	0.92	0.002	0.11	<0.1	3.3	0.10	0.05	148	0.3	0.03	2.5	0.27	<0.1	0.07
REP 1096619	QC	15.7	16.5	0.15	139.1	0.003	4	0.93	0.002	0.12	<0.1	3.4	0.11	0.05	152	0.5	0.03	2.4	0.28	<0.1	0.08
1098979	Soil	4.9	12.4	0.10	60.2	0.004	2	0.70	0.003	0.09	<0.1	1.4	0.11	0.02	21	0.2	<0.02	3.8	1.02	<0.1	<0.02
REP 1098979	QC	5.7	15.1	0.11	70.9	0.005	2	0.84	0.003	0.12	<0.1	1.6	0.12	0.03	32	0.3	0.04	4.4	1.24	<0.1	<0.02
1098992	Soil	10.9	33.5	0.34	116.1	0.003	<1	1.78	0.008	0.13	<0.1	4.8	0.13	<0.02	16	0.1	0.03	7.5	2.82	<0.1	0.03
REP 1098992	QC	10.4	33.4	0.32	111.0	0.003	<1	1.75	0.008	0.13	<0.1	4.4	0.12	<0.02	11	0.2	<0.02	7.1	2.67	<0.1	0.04
Reference Materials																					
STD DS8	Standard	15.7	117.4	0.61	272.0	0.111	3	0.93	0.094	0.43	3.1	2.4	5.26	0.16	178	5.0	4.93	4.5	2.45	<0.1	0.09
STD DS8	Standard	13.3	114.2	0.58	237.8	0.101	2	0.91	0.104	0.43	2.9	2.1	5.51	0.16	207	4.9	4.96	4.3	2.38	<0.1	0.06
STD DS8	Standard	17.2	119.1	0.59	274.5	0.116	3	0.99	0.108	0.44	3.1	2.6	5.45	0.16	190	5.0	4.98	4.5	2.44	<0.1	0.07
STD DS8	Standard	12.9	111.5	0.55	250.0	0.101	2	0.85	0.087	0.40	2.9	2.1	5.25	0.16	184	4.9	4.95	4.2	2.35	0.2	0.06
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 1 of 1 Part 3

QUALITY CONTROL REPORT

WHI11001193.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
1098924	Soil	0.20	3.0	1.1	<0.05	2.6	24.53	34.1	0.03	<1	0.9	5.1	<10	<2
REP 1098924	QC	0.18	2.7	1.1	<0.05	2.5	24.14	32.4	0.03	<1	0.8	4.6	<10	<2
1098928	Soil	0.31	5.2	2.0	<0.05	2.1	11.10	21.3	0.02	<1	1.0	12.5	<10	<2
REP 1098928	QC	0.35	6.3	2.2	<0.05	2.0	12.07	23.8	0.03	<1	0.9	13.7	<10	<2
1096608	Soil	0.30	11.5	2.2	<0.05	1.3	6.92	15.3	0.05	2	1.4	30.4	<10	<2
REP 1096608	QC	0.29	12.1	2.2	<0.05	1.3	6.98	15.2	0.05	<1	1.5	31.0	<10	<2
1096619	Soil	0.29	8.1	1.3	<0.05	1.9	13.50	37.1	0.03	<1	0.8	5.4	<10	<2
REP 1096619	QC	0.27	8.4	1.4	<0.05	2.3	13.49	36.9	0.03	<1	0.8	6.0	<10	<2
1098979	Soil	0.34	12.7	2.3	<0.05	0.1	2.13	10.5	0.03	<1	0.4	6.5	<10	<2
REP 1098979	QC	0.38	15.7	3.0	<0.05	0.2	2.51	12.1	0.04	<1	0.4	7.3	<10	<2
1098992	Soil	0.22	19.6	2.1	<0.05	1.5	13.15	30.0	0.06	<1	1.5	31.2	<10	<2
REP 1098992	QC	0.21	18.4	1.9	<0.05	1.2	12.07	28.4	0.05	<1	1.5	29.6	<10	<2
Reference Materials														
STD DS8	Standard	1.26	40.3	6.5	<0.05	1.9	6.06	25.9	2.31	46	5.2	27.2	114	335
STD DS8	Standard	1.21	36.8	6.0	<0.05	1.5	5.29	23.6	2.26	66	5.5	25.0	114	361
STD DS8	Standard	1.40	36.5	6.5	<0.05	1.7	6.61	30.2	2.20	63	4.3	25.5	126	331
STD DS8	Standard	1.28	36.3	5.7	<0.05	1.5	5.41	24.4	2.00	60	4.6	26.2	108	323
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 20, 2011
Report Date: October 02, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI11001243.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-23
P.O. Number
Number of Samples: 8

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: Simon Ridgway
database backup
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	8	Crush, split and pulverize 250 g rock to 200 mesh			WHI
3B01	8	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX1	8	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Project: Scarlet
 Report Date: October 02, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

WHI11001243.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
617451	Rock	1.41	<2	0.5	54.1	37.7	240	0.1	25.1	12.4	241	20.12	8.5	1.6	6.0	104	<0.1	0.1	0.3	24	0.11
617452	Rock	0.89	<2	<0.1	1.0	2.9	3	<0.1	<0.1	0.2	738	0.23	<0.5	<0.5	<0.1	1622	<0.1	<0.1	<0.1	<2	36.20
617453	Rock	0.34	<2	0.2	13.2	6.9	28	<0.1	9.1	5.8	602	1.75	2.4	<0.5	3.2	605	0.3	<0.1	<0.1	9	21.82
617454	Rock	0.70	3	<0.1	3.7	1.6	7	<0.1	1.1	1.1	471	0.68	0.9	<0.5	0.9	1430	<0.1	<0.1	<0.1	3	35.38
617455	Rock	1.59	<2	0.1	2.8	2.5	9	<0.1	2.0	0.9	235	0.26	<0.5	<0.5	1.2	755	<0.1	<0.1	<0.1	3	30.79
617456	Rock	1.23	<2	0.6	2.6	2.3	25	<0.1	5.0	0.7	95	0.16	5.4	3.1	0.5	98	0.2	0.3	<0.1	19	23.42
1097573	Rock	1.38	<2	0.2	7.3	3.6	15	<0.1	2.2	2.1	734	2.59	2.4	<0.5	0.2	17	<0.1	0.9	<0.1	4	0.12
1097574	Rock	1.06	<2	1.2	2.0	12.7	9	<0.1	3.9	2.1	658	31.84	18.3	1.3	3.4	59	<0.1	1.3	<0.1	24	0.42



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

WHI11001243.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
617451	Rock	0.102	3	21	0.17	148	0.002	<20	1.73	0.040	0.21	<0.1	0.04	5.6	0.1	0.22	3	<0.5	<0.2
617452	Rock	0.018	2	<1	0.24	9	<0.001	<20	<0.01	0.005	<0.01	<0.1	0.03	0.2	<0.1	0.08	<1	<0.5	<0.2
617453	Rock	0.139	7	6	2.85	21	0.001	<20	0.33	0.015	0.09	<0.1	0.17	2.3	<0.1	<0.05	<1	0.7	<0.2
617454	Rock	0.034	13	2	0.41	35	<0.001	<20	0.20	0.010	0.02	<0.1	0.01	1.2	<0.1	0.09	<1	0.7	0.2
617455	Rock	0.028	7	1	1.04	80	<0.001	<20	0.09	0.005	0.04	<0.1	0.03	0.9	<0.1	0.08	<1	<0.5	<0.2
617456	Rock	0.032	3	3	8.04	25	<0.001	<20	0.06	0.010	0.03	0.1	0.02	0.4	0.1	<0.05	<1	<0.5	<0.2
1097573	Rock	0.014	2	2	0.04	78	0.001	<20	0.04	0.002	0.02	<0.1	0.03	1.0	<0.1	<0.05	<1	<0.5	<0.2
1097574	Rock	0.058	18	13	0.17	176	0.116	23	1.28	0.004	0.11	<0.1	0.05	2.4	<0.1	<0.05	3	<0.5	<0.2



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Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

WHI11001243.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
617452	Rock	0.89	<2	<0.1	1.0	2.9	3	<0.1	<0.1	0.2	738	0.23	<0.5	<0.5	<0.1	1622	<0.1	<0.1	<0.1	<2	36.20
REP 617452	QC	<2																			
Reference Materials																					
STD DS8	Standard		14.2	113.3	127.1	315	1.8	38.0	7.8	596	2.52	25.3	161.7	7.4	69	2.4	4.1	6.2	44	0.75	
STD OREAS45CA	Standard		0.6	537.3	23.0	66	0.3	264.4	94.5	986	16.91	4.8	65.8	8.2	17	0.1	<0.1	0.2	212	0.46	
STD OXC88	Standard	194																			
STD OXH82	Standard	1298																			
STD OXC88 Expected		203																			
STD OXH82 Expected		1278																			
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7	
STD OREAS45CA Expected			1	494	20	60	0.275	240	92	943	15.69	3.8	43	7	15	0.1	0.13	0.19	215	0.4265	
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
Prep Wash																					
G1	Prep Blank	<2	0.2	10.1	3.6	48	<0.1	2.2	4.0	602	2.10	0.7	<0.5	6.1	74	<0.1	<0.1	<0.1	40	0.56	



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 02, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

WHI11001243.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																			
617452	Rock	0.018	2	<1	0.24	9	<0.001	<20	<0.01	0.005	<0.01	<0.1	0.03	0.2	<0.1	0.08	<1	<0.5	<0.2
REP 617452	QC																		
Reference Materials																			
STD DS8	Standard	0.080	16	117	0.63	299	0.120	<20	0.97	0.093	0.43	2.4	0.19	2.2	5.2	0.17	5	5.5	5.0
STD OREAS45CA	Standard	0.041	17	733	0.14	175	0.107	<20	4.04	0.008	0.08	<0.1	0.05	38.7	0.1	<0.05	20	0.9	<0.2
STD OXC88	Standard																		
STD OXH82	Standard																		
STD OXC88 Expected																			
STD OXH82 Expected																			
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	39.7	0.07	0.021	18.4	0.5	
BLK	Blank																		
BLK	Blank																		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																			
G1	Prep Blank	0.087	14	4	0.53	180	0.134	<20	0.95	0.090	0.51	<0.1	<0.01	2.1	0.3	<0.05	5	<0.5	<0.2



Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 13, 2011
Report Date: September 27, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS

WHI11001302.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-20
P.O. Number
Number of Samples: 282

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	281	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	281	Dry at 60C			WHI
1F05	280	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
RJSV	281	Saving all or part of Soil Reject			WHI

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: David Clark
database backup
Simon Ridgway
Scott Turton



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 27, 2011

Page: 2 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1096476	Soil	0.96	29.71	39.64	76.5	196	32.5	14.3	689	4.71	20.2	0.9	0.6	1.6	42.8	0.15	1.14	0.30	18	0.61	0.104
1096477	Soil	0.77	27.90	34.98	75.8	76	29.4	23.0	870	4.58	11.0	0.7	1.4	7.9	11.8	0.07	0.49	0.28	26	0.08	0.075
1096478	Soil	0.82	26.44	32.46	80.4	119	20.2	15.8	703	4.37	6.7	0.5	1.0	1.4	43.3	0.19	0.43	0.30	25	0.54	0.104
1096479	Soil	0.60	19.21	30.36	79.2	61	22.8	12.2	531	3.74	7.6	0.6	1.0	2.5	28.3	0.11	0.31	0.24	26	0.23	0.061
1096480	Soil	0.54	28.53	30.19	91.8	309	30.9	13.1	456	4.56	16.6	1.1	1.2	5.5	61.0	0.10	0.76	0.29	16	1.00	0.069
1096481	Soil	0.76	24.71	31.89	81.0	87	30.7	15.1	492	4.29	16.5	0.4	0.3	2.6	27.3	0.09	0.39	0.34	25	0.36	0.042
1096482	Soil	0.77	33.54	30.17	73.0	282	23.2	9.4	393	3.82	9.8	0.6	0.2	2.2	17.4	0.15	0.42	0.29	31	0.11	0.068
1096483	Soil	0.53	27.95	29.22	73.7	138	27.5	16.9	916	4.46	10.6	1.1	0.8	3.3	71.5	0.11	0.33	0.29	25	0.47	0.090
1096484	Soil	0.48	18.54	20.53	80.3	58	20.1	8.0	161	3.13	6.1	0.9	0.5	3.5	30.8	0.14	0.22	0.22	19	0.24	0.035
1096485	Soil	0.50	32.37	27.17	62.4	171	27.5	12.4	336	3.19	8.1	0.9	1.2	2.3	107.8	0.12	0.36	0.24	16	1.72	0.066
1096486	Soil	0.78	30.75	27.65	63.9	82	25.7	13.8	259	3.86	11.9	2.2	2.9	2.7	98.5	0.19	0.37	0.36	19	1.07	0.047
1096487	Soil	0.48	36.67	23.46	79.9	142	28.1	12.7	503	2.88	7.8	1.2	3.2	1.4	134.2	0.18	0.65	0.31	13	2.11	0.056
1096488	Soil	0.47	13.77	28.70	39.3	226	8.7	4.5	1398	1.91	15.6	1.8	6.4	0.5	60.6	0.21	1.64	0.07	10	12.97	0.178
1096489	Soil	0.61	25.22	69.72	56.8	228	23.9	11.6	1450	3.40	30.0	2.6	2.5	2.1	29.6	0.20	2.89	0.33	19	5.07	0.169
1096490	Soil	0.34	10.79	21.05	21.8	126	10.1	5.0	2108	2.26	13.6	1.4	6.8	0.7	59.4	0.13	1.26	0.12	8	11.48	0.118
1096491	Soil	0.25	4.32	11.01	31.5	38	3.7	1.9	995	1.29	14.9	0.7	0.6	<0.1	64.7	0.15	0.55	0.02	4	12.62	0.088
1096492	Soil	0.58	15.58	40.95	198.8	177	18.0	8.5	3688	4.52	22.9	1.6	5.4	1.1	26.9	0.86	2.23	0.22	30	6.24	0.189
1096493	Soil	0.38	12.61	29.91	70.9	147	13.4	6.0	2729	3.37	15.6	1.6	1.7	0.9	26.7	0.30	1.23	0.16	19	8.28	0.169
1096494	Soil	0.67	14.43	23.60	171.7	134	17.1	7.0	2300	3.70	17.2	1.5	1.9	0.7	17.4	0.73	1.11	0.20	31	5.70	0.173
1096495	Soil	0.42	7.65	16.58	65.3	114	7.7	3.1	1344	2.32	9.7	1.1	0.9	0.3	26.2	0.42	0.50	0.10	18	11.91	0.129
1096496	Soil	0.58	15.49	34.77	74.9	121	21.2	8.5	593	3.35	9.9	0.9	0.8	2.9	13.0	0.22	0.54	0.29	25	0.32	0.041
1096497	Soil	0.55	18.87	36.07	123.6	227	21.6	9.5	1730	3.69	16.7	1.1	1.5	1.3	23.4	0.46	0.88	0.29	25	2.26	0.122
1096498	Soil	0.68	14.65	35.52	115.2	98	23.4	9.9	992	4.22	16.4	1.2	2.2	4.8	8.4	0.26	0.82	0.33	37	0.57	0.028
1096499	Soil	0.26	6.73	12.74	50.3	61	7.0	3.5	696	1.62	8.9	1.0	2.4	0.5	24.0	0.13	0.84	0.08	10	13.23	0.081
1096500	Soil	0.53	14.76	39.91	91.2	214	15.9	6.4	2128	4.18	45.0	1.4	2.8	1.1	27.2	0.44	2.18	0.16	21	9.13	0.138
1097151	Soil	0.79	31.17	67.27	85.2	208	22.3	27.0	2236	5.05	10.7	0.8	0.4	0.8	20.3	0.18	0.40	0.44	27	0.29	0.252
1097152	Soil	1.02	34.03	53.48	84.6	434	35.9	20.4	915	4.97	14.4	1.5	1.2	4.1	52.5	0.16	0.58	0.36	24	0.91	0.091
1097153	Soil	0.85	32.71	36.33	66.9	579	23.4	12.3	660	3.40	8.0	2.4	1.5	2.8	105.1	0.25	0.36	0.28	21	1.55	0.188
1097154	Soil	1.40	36.08	44.47	82.7	144	29.7	26.8	950	5.18	9.2	0.5	0.9	2.9	29.4	0.12	0.43	0.30	30	0.38	0.119
1097155	Soil	0.64	20.86	25.42	63.8	72	21.0	10.7	361	3.35	7.3	0.5	1.1	2.8	47.1	0.10	0.30	0.31	23	0.35	0.038



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
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Page: 2 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1096476	Soil	5.7	17.9	0.17	101.0	0.002	2	1.23	0.003	0.08	<0.1	2.6	0.14	0.07	218	0.3	0.05	2.9	3.74	<0.1	0.03
1096477	Soil	5.7	27.0	0.35	81.2	0.002	3	1.99	0.001	0.08	<0.1	3.8	0.19	0.03	133	0.2	0.05	4.5	5.16	<0.1	0.03
1096478	Soil	3.9	22.4	0.24	138.4	0.003	2	1.32	0.002	0.11	<0.1	2.3	0.10	0.05	58	0.2	0.03	4.4	3.23	<0.1	0.02
1096479	Soil	4.9	20.8	0.22	91.0	0.002	2	1.46	0.002	0.14	<0.1	2.4	0.14	0.04	27	<0.1	0.05	4.2	2.02	<0.1	<0.02
1096480	Soil	13.6	17.1	0.34	114.9	0.001	4	1.27	0.002	0.11	<0.1	8.0	0.16	0.06	203	0.4	0.06	2.7	1.09	<0.1	0.08
1096481	Soil	4.1	25.3	0.44	83.6	0.002	2	1.61	0.003	0.13	<0.1	3.1	0.13	<0.02	36	0.2	0.04	5.0	2.37	<0.1	0.03
1096482	Soil	5.6	23.1	0.23	76.8	0.002	2	1.75	0.001	0.08	<0.1	2.1	0.14	0.04	43	0.1	<0.02	5.0	2.80	<0.1	0.03
1096483	Soil	6.0	26.0	0.36	101.7	0.001	3	2.12	0.002	0.09	<0.1	3.9	0.17	0.04	37	0.1	0.08	5.0	7.50	<0.1	0.03
1096484	Soil	6.0	17.5	0.20	132.2	<0.001	2	1.44	0.001	0.08	<0.1	3.8	0.15	<0.02	48	<0.1	0.05	3.5	1.49	<0.1	0.02
1096485	Soil	8.9	17.5	0.28	111.2	0.002	4	1.13	0.004	0.09	<0.1	5.7	0.11	0.08	136	0.3	0.03	3.0	1.15	<0.1	0.06
1096486	Soil	14.4	17.4	0.28	127.9	0.001	3	1.43	0.004	0.04	<0.1	5.8	0.15	0.07	143	0.4	0.05	3.4	0.74	<0.1	0.04
1096487	Soil	6.2	14.8	0.34	108.7	0.003	7	0.97	0.005	0.09	<0.1	4.0	0.12	0.07	173	0.5	<0.02	2.6	1.99	<0.1	0.05
1096488	Soil	6.3	8.8	6.74	70.4	0.005	5	0.45	0.012	0.04	<0.1	0.9	0.07	0.06	562	0.8	0.08	1.1	0.29	<0.1	0.04
1096489	Soil	15.0	15.6	2.67	80.6	0.003	4	0.91	0.006	0.06	<0.1	2.8	0.16	0.06	686	0.4	0.08	2.0	0.31	<0.1	0.10
1096490	Soil	9.2	8.5	6.12	52.6	0.002	2	0.41	0.008	0.03	<0.1	1.4	0.10	<0.02	375	0.4	0.03	1.0	0.26	<0.1	0.03
1096491	Soil	2.1	4.2	6.95	58.5	0.002	4	0.25	0.008	0.02	<0.1	0.4	0.05	0.02	30	0.4	0.02	0.6	0.20	<0.1	<0.02
1096492	Soil	18.9	18.9	3.27	103.1	0.004	5	1.27	0.008	0.05	<0.1	2.8	0.09	0.07	364	0.7	0.08	2.7	0.43	<0.1	0.07
1096493	Soil	12.4	12.7	4.22	79.4	0.003	3	0.79	0.009	0.06	<0.1	2.3	0.09	0.05	191	0.6	0.03	1.5	0.46	<0.1	0.03
1096494	Soil	9.1	21.2	3.13	132.7	0.006	4	1.57	0.006	0.05	<0.1	1.6	0.10	0.09	88	0.7	<0.02	3.1	0.78	<0.1	0.04
1096495	Soil	5.8	11.7	6.26	68.2	0.005	3	0.79	0.010	0.04	<0.1	0.9	0.05	0.04	85	0.7	0.06	1.5	0.46	<0.1	<0.02
1096496	Soil	14.0	17.4	0.23	191.3	0.004	2	1.15	0.002	0.11	<0.1	4.2	0.09	<0.02	39	0.5	0.03	3.3	0.78	<0.1	0.03
1096497	Soil	9.4	18.4	0.99	128.0	0.004	4	1.30	0.004	0.09	<0.1	2.8	0.10	0.07	142	0.8	0.03	3.2	0.84	<0.1	0.04
1096498	Soil	14.2	26.9	0.52	110.6	0.004	1	1.65	0.002	0.08	<0.1	5.9	0.12	<0.02	59	0.6	<0.02	4.6	1.02	<0.1	0.09
1096499	Soil	2.9	6.6	7.09	43.6	0.004	3	0.45	0.009	0.04	<0.1	0.9	0.06	<0.02	52	0.4	<0.02	0.9	0.37	<0.1	<0.02
1096500	Soil	8.3	13.0	4.67	76.5	0.005	3	0.69	0.008	0.07	0.1	2.5	0.16	0.04	502	0.7	0.02	1.5	0.32	<0.1	0.04
1097151	Soil	3.3	29.4	0.28	138.3	0.004	2	1.74	0.002	0.11	<0.1	2.1	0.08	0.11	40	0.7	0.07	4.3	6.28	<0.1	0.05
1097152	Soil	9.4	23.1	0.29	151.2	0.002	2	1.45	0.003	0.08	<0.1	7.9	0.15	0.05	220	0.9	0.06	3.4	4.39	<0.1	0.09
1097153	Soil	10.0	27.0	0.31	153.7	0.003	4	1.45	0.005	0.09	<0.1	7.6	0.11	0.10	148	1.1	0.05	3.8	5.86	<0.1	0.05
1097154	Soil	3.4	31.0	0.37	129.5	0.003	2	1.86	0.002	0.12	<0.1	7.1	0.14	0.06	38	0.6	0.04	5.3	10.12	<0.1	0.04
1097155	Soil	5.8	21.2	0.23	107.7	0.002	2	1.15	0.002	0.12	<0.1	3.2	0.08	0.02	23	0.4	0.04	3.6	1.17	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 27, 2011

Page: 2 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1096476	Soil	0.22	10.3	2.1	<0.05	0.8	9.93	21.7	0.04	2	1.1	29.2	<10	<2
1096477	Soil	0.25	12.4	4.6	<0.05	1.4	6.67	23.5	0.06	<1	1.6	50.6	<10	<2
1096478	Soil	0.29	13.8	3.0	<0.05	0.4	6.52	10.2	0.05	<1	1.1	29.5	<10	<2
1096479	Soil	0.25	14.5	2.6	<0.05	0.6	3.88	16.9	0.05	<1	1.0	28.9	<10	<2
1096480	Soil	0.16	9.3	1.9	<0.05	2.3	21.12	38.6	0.05	2	1.2	22.3	<10	<2
1096481	Soil	0.21	12.3	4.6	<0.05	1.0	3.43	11.5	0.04	<1	0.9	44.3	<10	<2
1096482	Soil	0.31	12.4	3.7	<0.05	0.9	6.02	13.2	0.04	<1	1.0	34.5	<10	<2
1096483	Soil	0.23	15.4	1.5	<0.05	1.3	9.85	15.2	0.07	<1	1.5	66.6	<10	<2
1096484	Soil	0.16	11.2	2.2	<0.05	1.4	7.79	15.0	0.04	<1	0.8	24.3	<10	<2
1096485	Soil	0.23	7.0	1.7	<0.05	1.5	16.29	21.4	0.05	2	1.2	24.6	<10	<2
1096486	Soil	0.28	5.2	1.3	<0.05	1.5	20.56	36.5	0.08	<1	1.3	24.3	<10	<2
1096487	Soil	0.18	10.4	1.6	<0.05	2.1	12.91	13.6	0.04	1	1.1	20.5	<10	<2
1096488	Soil	0.10	4.2	2.3	<0.05	1.2	8.20	10.7	<0.02	1	0.4	2.9	<10	<2
1096489	Soil	0.17	4.5	1.4	<0.05	2.5	18.74	23.3	0.03	<1	0.6	6.1	<10	<2
1096490	Soil	0.07	2.7	1.6	<0.05	0.9	9.76	13.7	<0.02	<1	0.9	2.9	<10	<2
1096491	Soil	0.04	1.8	4.1	<0.05	0.3	3.90	4.5	<0.02	<1	0.3	1.9	<10	<2
1096492	Soil	0.23	6.4	1.3	<0.05	1.4	18.88	31.1	0.03	2	1.1	7.8	<10	<2
1096493	Soil	0.11	4.7	0.8	<0.05	1.2	13.77	21.5	<0.02	<1	1.0	6.1	<10	<2
1096494	Soil	0.31	6.3	1.3	<0.05	1.2	11.27	18.2	<0.02	1	0.8	10.2	<10	<2
1096495	Soil	0.18	5.1	4.3	<0.05	0.5	7.41	11.1	<0.02	<1	0.6	4.9	<10	<2
1096496	Soil	0.47	12.3	2.0	<0.05	1.0	10.17	33.1	0.04	<1	1.0	14.1	<10	<2
1096497	Soil	0.27	8.5	1.5	<0.05	1.3	10.07	22.3	0.03	<1	0.6	12.1	<10	<2
1096498	Soil	0.37	10.1	1.3	<0.05	3.1	12.70	30.8	0.03	<1	1.0	16.5	<10	<2
1096499	Soil	0.11	3.0	1.0	<0.05	0.8	4.23	6.2	<0.02	<1	0.3	5.3	<10	<2
1096500	Soil	0.18	3.9	1.5	<0.05	1.1	11.90	17.6	<0.02	<1	0.4	5.1	<10	<2
1097151	Soil	0.23	14.0	1.4	<0.05	1.4	4.63	8.3	0.03	<1	1.8	30.2	<10	<2
1097152	Soil	0.25	12.0	2.7	<0.05	2.5	20.14	33.0	0.06	<1	1.3	34.8	<10	2
1097153	Soil	0.38	15.0	9.0	<0.05	1.4	31.15	21.9	<0.02	<1	1.6	43.7	<10	<2
1097154	Soil	0.32	14.8	2.0	<0.05	1.0	6.42	18.2	0.05	<1	1.3	60.8	<10	<2
1097155	Soil	0.34	13.3	2.4	<0.05	1.1	4.21	16.4	0.02	<1	1.1	28.1	<10	<2



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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 27, 2011

Page: 3 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1097156	Soil	0.60	30.93	33.93	94.7	317	30.6	12.8	468	4.61	15.7	1.1	0.7	2.8	100.9	0.19	0.37	0.34	16	1.63	0.093
1097157	Soil	0.72	23.01	29.39	98.9	56	23.7	13.0	481	4.77	15.4	0.4	0.4	2.4	12.8	0.13	0.46	0.41	32	0.07	0.046
1097158	Soil	0.53	18.57	22.44	76.9	82	20.2	11.6	393	3.65	11.1	0.3	0.4	2.2	19.5	0.13	0.44	0.28	24	0.13	0.049
1097159	Soil	0.48	27.88	23.40	75.4	65	24.4	11.8	336	3.60	10.7	0.6	0.6	3.7	28.8	0.05	0.42	0.30	19	0.11	0.042
1097160	Soil	0.47	28.77	22.98	83.8	168	26.8	10.6	244	3.51	12.2	0.7	1.5	4.1	40.0	0.07	0.45	0.32	18	0.65	0.043
1097161	Soil	0.58	38.91	29.20	77.1	182	31.6	15.8	301	3.41	13.8	0.9	2.1	3.0	181.6	0.13	0.42	0.34	16	2.67	0.066
1097162	Soil	0.48	9.90	14.30	60.6	83	9.8	4.2	2542	2.84	14.8	1.5	1.9	0.4	36.7	0.40	0.98	0.11	19	12.60	0.165
1097163	Soil	0.52	9.84	20.22	44.0	109	11.2	5.4	2739	3.20	23.1	1.3	2.4	0.5	42.2	0.35	1.24	0.12	20	11.89	0.142
1097164	Soil	0.40	9.66	21.83	48.2	124	9.7	4.1	1274	2.11	23.1	1.5	6.8	1.1	66.6	0.17	1.58	0.10	15	14.53	0.130
1097165	Soil	0.33	6.92	21.01	19.7	106	6.2	2.9	1746	1.87	14.6	1.4	1.7	0.3	52.5	0.15	1.22	0.07	14	14.15	0.186
1097166	Soil	0.08	3.16	12.49	9.0	52	3.0	1.1	922	1.06	12.6	1.5	<0.2	0.3	69.6	0.07	1.10	<0.02	4	17.86	0.137
1097167	Soil	0.46	17.06	30.10	70.4	183	20.2	9.0	1434	3.61	12.3	0.8	2.4	2.3	23.9	0.14	0.66	0.27	21	5.07	0.073
1097168	Soil	0.71	15.87	34.06	80.0	129	19.4	8.0	2706	5.59	18.9	1.7	1.0	2.9	12.2	0.37	1.12	0.28	34	2.09	0.109
1097169	Soil	0.64	15.03	30.44	86.2	122	20.0	8.0	2533	4.92	18.7	1.5	3.3	2.7	20.2	0.45	1.10	0.25	33	3.79	0.114
1097170	Soil	0.40	21.69	32.97	88.6	110	24.4	9.3	457	2.82	11.8	0.8	2.8	4.0	127.9	0.11	0.57	0.26	13	6.78	0.050
1097171	Soil	0.61	16.75	41.24	534.5	148	19.9	9.1	2661	4.64	19.0	1.2	1.8	3.0	19.0	0.80	1.31	0.28	31	3.43	0.096
1097172	Soil	0.52	15.81	23.82	128.0	85	16.9	7.1	950	2.90	13.6	1.0	0.8	1.3	21.4	0.31	0.91	0.21	24	5.38	0.114
1097173	Soil	0.39	12.84	19.20	84.8	97	15.6	6.6	709	2.18	10.2	0.7	2.5	1.1	25.4	0.25	0.58	0.15	16	8.44	0.090
1097174	Soil	0.62	14.08	22.55	77.8	117	14.4	6.3	2132	3.45	16.7	1.1	1.4	0.5	19.6	0.51	1.05	0.15	23	7.75	0.140
1097175	Soil	0.48	14.39	30.30	56.7	164	11.7	3.9	3222	4.33	40.5	2.5	4.2	0.4	33.0	0.24	2.77	0.10	12	14.63	0.151
1097176	Soil	0.50	20.96	83.47	146.3	219	24.2	8.5	1071	3.51	17.6	1.1	1.5	1.9	27.0	0.36	0.71	0.31	13	3.06	0.089
1097177	Soil	0.51	14.68	64.47	143.2	155	17.4	6.4	1987	3.64	24.3	1.3	2.1	0.6	41.3	0.33	1.01	0.20	14	5.80	0.164
1097178	Soil	0.38	19.44	34.69	102.0	159	18.8	7.2	891	2.96	12.7	1.4	7.2	0.8	135.2	0.27	0.67	0.52	8	4.93	0.112
1097179	Soil	0.84	26.81	31.17	70.7	141	23.9	13.6	777	4.12	10.8	1.1	2.2	2.6	40.8	0.16	0.44	0.43	21	0.70	0.065
1097180	Soil	0.79	31.35	33.33	58.8	310	28.8	15.9	966	4.50	8.7	1.4	2.7	1.9	100.2	0.25	0.53	0.32	25	1.81	0.073
1097181	Soil	0.78	28.07	46.79	68.4	107	23.7	14.9	547	3.74	8.7	1.1	1.7	2.1	31.6	0.22	0.41	0.39	22	0.38	0.058
1097182	Soil	0.38	26.93	21.35	62.5	260	24.4	10.5	277	3.29	8.6	1.1	2.2	1.9	97.7	0.14	0.35	0.33	17	1.48	0.078
1097183	Soil	0.65	21.14	23.82	60.3	214	24.9	10.8	328	3.28	9.1	1.1	1.5	4.4	117.8	0.08	0.41	0.31	20	0.87	0.062
1097184	Soil	0.57	41.17	31.03	49.6	615	34.1	15.0	1709	3.48	8.1	1.2	1.5	3.3	99.8	0.16	0.38	0.36	23	1.13	0.077
1097185	Soil	0.30	28.06	32.99	54.2	202	22.6	9.7	276	2.78	5.9	2.3	2.3	1.4	222.8	0.09	0.29	0.31	17	1.84	0.064



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 27, 2011

Page: 3 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1097156	Soil	13.3	17.0	0.26	152.8	0.002	3	1.13	0.003	0.11	<0.1	7.9	0.14	0.07	117	0.9	0.05	2.6	1.25	<0.1	0.05
1097157	Soil	4.8	26.0	0.31	68.6	0.003	1	1.66	0.001	0.13	<0.1	3.3	0.07	<0.02	25	0.2	0.07	5.8	2.95	<0.1	0.02
1097158	Soil	4.4	18.5	0.25	69.3	0.002	1	1.12	0.002	0.15	<0.1	2.7	0.07	0.02	42	0.2	0.06	3.6	1.08	<0.1	0.03
1097159	Soil	5.0	20.6	0.30	60.8	0.001	2	1.30	0.002	0.08	<0.1	4.4	0.08	<0.02	97	0.4	0.06	3.2	2.40	<0.1	0.03
1097160	Soil	5.0	20.0	0.34	75.9	0.002	3	1.22	0.002	0.09	<0.1	8.2	0.08	0.02	79	0.4	0.06	3.4	1.62	<0.1	0.06
1097161	Soil	8.9	17.3	0.55	121.5	0.002	4	1.11	0.004	0.09	<0.1	6.6	0.10	0.04	405	0.6	0.07	2.9	1.19	<0.1	0.06
1097162	Soil	7.1	11.3	6.71	95.4	0.006	2	0.74	0.012	0.04	<0.1	1.1	0.08	0.05	91	0.5	0.04	1.4	0.40	<0.1	0.03
1097163	Soil	7.8	11.9	6.10	84.1	0.006	2	0.80	0.010	0.04	0.1	1.5	0.09	0.03	161	0.5	0.03	1.5	0.46	<0.1	0.02
1097164	Soil	6.2	9.3	7.61	46.2	0.007	1	0.42	0.011	0.04	<0.1	1.8	0.07	<0.02	216	0.4	0.03	1.0	0.33	<0.1	0.02
1097165	Soil	5.3	9.2	7.03	64.9	0.004	3	0.49	0.007	0.03	<0.1	1.1	0.07	0.03	97	0.4	0.06	1.1	0.33	<0.1	<0.02
1097166	Soil	2.2	3.8	9.34	23.0	0.002	2	0.14	0.019	0.02	<0.1	0.4	0.03	<0.02	27	0.2	<0.02	0.4	0.12	<0.1	0.02
1097167	Soil	10.1	17.2	2.91	84.4	0.002	2	1.12	0.005	0.10	<0.1	4.2	0.10	0.02	106	0.5	0.07	2.5	0.84	<0.1	0.08
1097168	Soil	18.0	23.6	1.16	124.4	0.004	2	1.57	0.003	0.07	0.1	5.4	0.13	0.05	176	0.6	0.04	3.5	0.86	<0.1	0.10
1097169	Soil	15.7	22.9	2.13	136.0	0.005	4	1.48	0.004	0.08	<0.1	4.6	0.13	0.04	152	0.6	0.05	3.5	0.90	<0.1	0.08
1097170	Soil	5.1	12.4	2.49	78.7	0.002	5	0.79	0.005	0.15	<0.1	3.8	0.14	<0.02	185	0.3	0.04	1.8	1.59	<0.1	0.05
1097171	Soil	14.3	21.5	1.94	136.8	0.003	3	1.58	0.006	0.10	<0.1	4.4	0.12	0.04	196	0.5	0.05	3.7	0.70	<0.1	0.08
1097172	Soil	8.0	16.2	2.90	98.0	0.005	5	1.18	0.009	0.09	<0.1	2.7	0.09	0.07	109	0.3	0.05	2.7	0.86	<0.1	0.06
1097173	Soil	5.3	12.3	4.60	63.5	0.004	4	0.87	0.009	0.07	<0.1	1.8	0.07	0.02	62	0.2	0.03	2.0	0.65	<0.1	0.04
1097174	Soil	7.1	14.5	4.05	97.3	0.004	3	0.96	0.009	0.06	<0.1	1.4	0.08	0.07	162	0.5	0.05	2.1	0.51	<0.1	0.02
1097175	Soil	6.9	8.6	7.34	90.0	0.002	3	0.35	0.012	0.04	<0.1	0.9	0.12	0.03	116	0.7	0.05	0.9	0.26	<0.1	<0.02
1097176	Soil	10.2	10.3	1.34	85.3	<0.001	6	0.58	0.003	0.11	<0.1	4.3	0.10	0.05	492	0.7	<0.02	1.3	0.61	<0.1	0.03
1097177	Soil	8.9	10.6	2.60	114.9	0.002	7	0.62	0.007	0.10	<0.1	1.7	0.11	0.12	341	0.7	0.03	1.4	0.84	<0.1	0.02
1097178	Soil	5.4	13.0	1.81	91.9	0.002	7	0.65	0.006	0.05	<0.1	1.4	0.11	0.11	168	0.6	<0.02	1.4	0.69	<0.1	0.05
1097179	Soil	7.6	18.4	0.22	142.8	0.002	2	1.32	0.001	0.08	<0.1	3.7	0.15	0.05	53	0.3	0.03	3.3	1.35	<0.1	0.04
1097180	Soil	13.4	17.8	0.27	168.1	0.002	4	1.10	0.004	0.08	<0.1	4.4	0.11	0.08	60	0.5	0.03	2.8	1.19	<0.1	0.04
1097181	Soil	5.9	19.1	0.23	114.0	0.002	2	1.35	0.001	0.08	<0.1	3.2	0.10	0.03	27	0.3	0.02	3.2	2.12	<0.1	0.04
1097182	Soil	10.8	17.7	0.26	123.9	0.002	3	1.10	0.002	0.07	<0.1	4.5	0.09	0.06	70	0.4	0.04	2.9	1.24	<0.1	0.03
1097183	Soil	13.3	22.5	0.33	118.0	0.003	2	1.42	0.002	0.08	<0.1	5.6	0.11	0.04	41	0.4	<0.02	3.6	1.61	<0.1	0.05
1097184	Soil	10.0	23.0	0.24	216.6	0.002	3	1.71	0.004	0.09	<0.1	5.5	0.12	0.05	53	0.4	0.03	4.3	1.93	<0.1	0.07
1097185	Soil	5.3	22.9	0.36	160.3	0.003	4	1.15	0.004	0.07	<0.1	2.6	0.07	0.08	109	0.8	0.03	3.7	1.33	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 27, 2011

Page: 3 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1097156	Soil	0.23	10.3	1.1	<0.05	1.6	21.20	40.3	0.04	<1	1.2	26.5	<10	<2
1097157	Soil	0.36	15.0	1.2	<0.05	0.9	2.57	10.7	0.04	<1	1.0	51.4	<10	<2
1097158	Soil	0.33	10.0	1.7	<0.05	0.8	2.48	9.7	0.03	<1	0.5	34.6	<10	<2
1097159	Soil	0.16	11.0	1.2	<0.05	1.7	6.67	14.0	0.03	<1	1.1	40.7	<10	<2
1097160	Soil	0.23	9.4	0.9	<0.05	2.2	8.20	12.4	0.04	<1	0.6	35.6	<10	<2
1097161	Soil	0.20	6.4	1.5	<0.05	1.9	14.98	24.8	0.03	<1	1.1	32.5	<10	<2
1097162	Soil	0.16	4.8	0.9	<0.05	0.6	8.88	14.4	<0.02	<1	0.4	5.3	<10	<2
1097163	Soil	0.17	4.2	1.2	<0.05	0.6	9.46	15.4	<0.02	1	0.6	5.6	<10	<2
1097164	Soil	0.15	2.9	0.8	<0.05	0.6	7.71	12.3	<0.02	1	0.5	4.3	<10	<2
1097165	Soil	0.08	3.5	0.9	<0.05	0.5	8.90	10.6	<0.02	<1	0.4	3.6	<10	<2
1097166	Soil	0.04	1.3	1.0	<0.05	0.7	4.79	4.6	<0.02	<1	0.2	1.1	<10	<2
1097167	Soil	0.16	7.6	2.5	<0.05	2.3	11.96	18.8	<0.02	<1	0.6	13.2	<10	<2
1097168	Soil	0.32	9.9	0.9	<0.05	2.5	19.10	31.1	0.03	<1	1.5	13.4	<10	<2
1097169	Soil	0.32	8.5	1.0	<0.05	2.1	15.72	31.0	0.03	<1	1.0	13.4	<10	<2
1097170	Soil	0.08	8.0	4.8	<0.05	2.3	7.00	12.9	<0.02	<1	0.5	14.0	<10	<2
1097171	Soil	0.27	8.6	0.8	<0.05	2.9	14.57	29.7	0.03	<1	0.7	14.3	<10	<2
1097172	Soil	0.36	8.7	1.5	<0.05	1.9	8.48	16.3	0.03	<1	0.8	12.9	<10	<2
1097173	Soil	0.16	5.2	3.2	<0.05	1.1	5.85	12.5	<0.02	<1	0.8	12.0	<10	<2
1097174	Soil	0.18	5.9	1.5	<0.05	0.5	8.53	16.0	<0.02	<1	0.8	7.5	<10	<2
1097175	Soil	0.05	2.6	1.1	<0.05	0.7	11.18	13.0	<0.02	1	0.2	1.6	<10	<2
1097176	Soil	0.09	6.2	2.0	<0.05	1.0	12.74	25.6	0.03	<1	0.7	3.5	<10	<2
1097177	Soil	0.12	6.9	1.6	<0.05	0.7	11.23	21.2	<0.02	<1	0.6	4.3	<10	<2
1097178	Soil	0.16	4.9	1.4	<0.05	1.4	8.47	12.3	0.03	1	0.7	8.7	<10	<2
1097179	Soil	0.23	11.1	0.6	<0.05	1.5	12.18	25.7	0.04	<1	1.3	18.0	<10	<2
1097180	Soil	0.23	8.1	1.3	<0.05	1.6	23.24	37.1	0.04	<1	1.3	18.8	<10	<2
1097181	Soil	0.26	11.6	2.5	<0.05	1.0	8.51	19.7	0.05	<1	1.3	30.8	<10	<2
1097182	Soil	0.21	7.0	0.8	<0.05	1.1	20.37	21.8	0.04	<1	1.0	23.2	<10	<2
1097183	Soil	0.31	11.3	2.0	<0.05	1.5	23.51	24.9	0.05	<1	1.0	31.8	<10	<2
1097184	Soil	0.39	10.9	2.8	<0.05	2.0	20.87	22.0	0.05	<1	1.6	26.5	<10	<2
1097185	Soil	0.33	8.7	2.2	<0.05	1.3	10.93	13.4	0.03	<1	1.0	35.5	<10	<2



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 Vancouver BC V6C 2G8 Canada

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Page: 4 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1097186	Soil			0.28	32.84	25.65	73.1	188	27.9	12.7	380	3.06	11.0	0.9	1.8	1.8	158.7	0.09	0.41	0.33	16	1.69	0.052
1097187	Soil			0.29	7.13	14.82	55.8	67	6.6	3.7	2525	2.61	9.2	0.7	0.7	0.3	32.6	0.29	0.82	0.09	10	12.27	0.111
1097188	Soil			0.36	12.54	25.96	139.5	122	12.2	5.7	2786	3.51	17.1	0.8	3.6	0.6	44.7	0.53	1.39	0.14	12	12.36	0.111
1097189	Soil			0.48	16.25	30.87	112.6	106	17.3	9.7	2339	3.97	19.5	0.7	2.1	1.0	17.3	0.33	1.53	0.25	19	3.67	0.148
1097190	Soil			0.19	16.47	13.28	26.4	30	15.1	20.3	454	2.67	4.4	0.4	0.5	1.8	7.4	0.22	0.41	0.44	12	0.69	0.040
1097191	Soil			0.25	22.36	23.48	36.5	61	26.0	35.6	660	3.74	25.1	0.9	1.2	2.2	7.8	0.05	0.75	0.44	11	0.47	0.046
1097192	Soil			0.31	12.79	14.71	25.1	38	10.4	8.4	409	3.02	6.5	0.4	0.4	2.2	7.7	0.09	0.43	0.35	18	0.30	0.024
1097193	Soil			0.37	20.77	28.49	58.2	139	18.5	9.2	720	3.65	17.2	1.1	1.8	1.2	20.2	0.20	1.03	0.34	19	2.26	0.118
1097194	Soil			0.30	15.46	24.31	70.7	128	17.7	7.7	914	2.62	13.1	0.9	2.4	2.0	41.9	0.18	0.84	0.20	12	6.82	0.094
1097195	Soil			0.27	20.10	25.68	110.0	102	20.1	8.1	573	2.51	12.2	1.2	2.5	1.0	61.8	0.27	0.75	0.25	12	4.49	0.081
1096651	Soil			0.20	27.94	17.67	50.9	117	21.3	8.9	411	2.09	5.4	1.4	0.9	0.9	256.5	0.14	0.32	0.31	11	2.44	0.062
1096652	Soil			2.06	45.27	58.47	120.5	529	30.9	22.3	766	4.16	15.2	1.2	1.3	4.4	113.3	0.25	0.78	0.45	19	1.02	0.147
1096653	Soil			0.96	41.54	51.11	85.7	359	24.0	19.5	1166	3.13	9.4	1.2	1.1	4.1	85.9	0.28	0.54	0.39	19	1.20	0.178
1096654	Soil			0.90	29.70	35.84	74.0	283	25.8	15.5	810	3.52	8.3	1.2	1.2	2.2	116.0	0.19	0.41	0.29	17	1.63	0.138
1096655	Soil			0.93	52.90	46.81	83.6	936	20.5	12.8	308	2.43	10.3	0.8	2.8	1.1	634.7	0.32	0.48	0.27	10	12.45	0.105
1096656	Soil			0.69	49.68	57.36	139.7	274	49.3	26.8	537	4.46	21.9	0.7	1.6	3.3	75.5	0.13	0.61	0.52	14	1.17	0.065
1096657	Soil			0.73	38.27	52.01	106.1	336	48.4	19.4	1100	5.81	12.9	1.0	1.6	6.2	62.3	0.14	0.52	0.35	18	0.66	0.052
1096658	Soil			0.87	29.69	36.65	90.3	165	22.1	15.2	804	4.24	6.6	0.5	0.9	1.4	12.6	0.10	0.42	0.40	21	0.04	0.083
1096659	Soil			0.52	23.89	28.41	55.2	190	19.1	9.6	193	3.34	5.5	1.1	0.6	1.5	29.2	0.06	0.25	0.30	17	0.18	0.061
1096660	Soil			0.72	24.28	28.58	190.4	89	18.7	14.1	739	3.41	8.6	0.4	0.6	0.3	22.3	0.92	0.62	0.38	22	0.16	0.109
1096661	Soil			0.83	25.32	26.57	63.4	63	21.8	11.5	390	3.88	7.0	0.4	1.4	2.4	15.5	0.07	0.31	0.33	26	0.18	0.070
1096662	Soil			0.91	26.61	37.15	73.3	204	28.4	14.2	615	4.51	13.8	1.2	1.2	3.6	40.1	0.10	0.61	0.32	21	0.58	0.095
1096663	Soil			0.76	23.96	28.26	69.4	52	25.0	14.6	365	4.22	9.5	0.5	0.8	4.1	8.8	0.14	0.47	0.31	23	0.05	0.076
1096664	Soil			0.60	25.79	27.99	89.8	77	26.4	14.2	501	3.56	6.7	0.6	0.4	3.4	32.0	0.20	0.28	0.33	26	0.24	0.053
1096665	Soil			0.65	12.54	24.10	62.8	28	13.8	7.2	222	2.81	8.9	0.3	0.2	2.4	10.8	0.12	0.35	0.32	27	0.05	0.020
1096666	Soil			0.75	18.76	22.73	63.7	110	16.7	8.8	480	2.96	7.6	0.6	<0.2	2.8	23.0	0.12	0.36	0.36	28	0.21	0.031
1096667	Soil			0.73	15.03	23.18	57.5	154	14.6	7.0	179	3.18	8.7	0.4	0.4	3.0	13.5	0.08	0.48	0.31	32	0.08	0.025
1096668	Soil			0.81	25.81	25.84	61.1	374	20.0	9.7	841	2.95	7.0	0.5	<0.2	1.6	10.6	0.20	0.39	0.32	29	0.05	0.054
1096669	Soil			0.62	22.97	24.68	70.1	42	19.5	9.7	273	3.54	8.5	0.4	0.3	2.9	11.9	0.04	0.40	0.33	23	0.05	0.025
1096670	Soil			0.82	19.78	19.02	68.9	58	15.8	9.0	544	3.27	7.7	0.6	1.5	2.1	53.3	0.25	0.47	0.30	35	0.30	0.053



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 830 - 355 Burrard St.
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Project: Scarlet
 Report Date: September 27, 2011

Page: 4 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097186	Soil	6.4	18.0	0.34	116.0	0.002	5	1.13	0.003	0.07	<0.1	3.9	0.10	0.07	80	0.5	0.03	3.1	1.56	<0.1	0.05
1097187	Soil	4.5	8.2	6.17	80.2	0.004	4	0.60	0.008	0.03	<0.1	0.5	0.13	0.03	55	0.4	<0.02	1.1	0.28	<0.1	<0.02
1097188	Soil	6.5	9.9	5.83	75.8	0.005	4	0.66	0.009	0.04	<0.1	1.2	0.20	0.02	191	0.5	<0.02	1.3	0.45	<0.1	0.02
1097189	Soil	11.0	15.2	1.92	91.7	0.004	4	1.02	0.004	0.06	<0.1	1.8	0.17	0.07	117	0.4	0.03	2.2	0.40	<0.1	0.04
1097190	Soil	5.5	7.9	0.22	95.3	0.003	3	0.58	0.002	0.17	<0.1	4.3	0.09	0.04	48	0.2	0.04	1.7	1.46	<0.1	0.03
1097191	Soil	4.4	8.9	0.17	114.9	0.002	3	0.48	0.002	0.13	<0.1	9.1	0.17	0.04	94	0.3	0.05	1.4	9.00	<0.1	0.07
1097192	Soil	4.6	9.4	0.14	78.4	0.003	2	0.74	0.001	0.12	<0.1	2.8	0.09	0.02	44	0.2	0.06	2.3	0.69	<0.1	0.02
1097193	Soil	10.3	14.8	0.94	85.0	0.002	3	0.98	0.002	0.07	<0.1	3.4	0.15	0.10	151	0.4	0.04	2.5	1.21	<0.1	0.06
1097194	Soil	7.1	10.4	3.34	40.3	0.003	3	0.68	0.006	0.06	<0.1	2.6	0.10	<0.02	168	0.4	0.03	1.4	0.56	<0.1	0.05
1097195	Soil	4.6	10.6	1.67	72.0	0.003	5	0.74	0.004	0.07	<0.1	1.8	0.10	0.06	160	0.4	0.03	1.7	0.76	<0.1	0.06
1096651	Soil	4.3	14.4	0.34	114.5	0.002	5	0.90	0.008	0.06	<0.1	1.9	0.06	0.11	87	0.5	<0.02	2.4	1.22	<0.1	0.05
1096652	Soil	6.0	24.7	0.37	108.8	0.002	4	1.36	0.005	0.11	<0.1	6.8	0.13	0.08	49	0.5	0.05	3.8	2.93	<0.1	0.15
1096653	Soil	6.9	25.4	0.40	102.4	0.003	4	1.43	0.004	0.10	<0.1	5.0	0.17	0.12	104	0.5	0.04	3.9	6.48	<0.1	0.10
1096654	Soil	9.5	21.1	0.29	81.6	0.002	4	1.16	0.006	0.08	<0.1	4.8	0.10	0.12	50	0.5	0.05	2.9	1.71	<0.1	0.09
1096655	Soil	5.2	19.7	0.47	78.6	0.002	13	0.94	0.006	0.05	<0.1	12.8	0.16	0.12	272	1.4	<0.02	2.1	7.58	<0.1	0.04
1096656	Soil	7.3	21.0	0.36	124.1	0.002	3	1.24	0.003	0.10	<0.1	6.7	0.17	0.05	78	0.6	0.08	3.4	3.25	<0.1	0.12
1096657	Soil	14.7	26.4	0.32	126.8	0.001	3	1.49	0.002	0.08	<0.1	9.2	0.14	0.03	146	0.5	0.07	3.6	1.97	<0.1	0.07
1096658	Soil	2.7	19.3	0.15	85.8	0.002	2	1.03	0.002	0.10	<0.1	1.9	0.10	0.04	30	0.3	0.05	3.6	2.15	<0.1	<0.02
1096659	Soil	3.1	17.4	0.10	45.9	0.001	2	0.66	0.003	0.10	<0.1	2.7	0.07	0.05	44	0.4	<0.02	2.2	2.36	<0.1	0.02
1096660	Soil	2.7	14.0	0.08	135.6	0.002	1	0.64	0.003	0.09	<0.1	0.7	0.09	0.06	25	0.3	0.06	3.0	2.32	<0.1	<0.02
1096661	Soil	3.3	22.5	0.35	77.0	0.001	2	1.60	0.002	0.08	<0.1	2.4	0.14	0.02	27	0.2	0.03	4.2	4.05	<0.1	0.04
1096662	Soil	7.5	19.7	0.23	105.1	0.001	3	1.34	0.003	0.06	<0.1	5.1	0.13	0.04	94	0.3	0.04	2.9	3.12	<0.1	0.04
1096663	Soil	3.2	24.5	0.35	68.9	0.002	3	1.75	0.002	0.09	<0.1	2.8	0.11	0.03	67	0.3	0.04	4.2	5.25	<0.1	0.05
1096664	Soil	6.2	24.0	0.29	95.6	0.003	3	1.39	0.004	0.10	<0.1	3.2	0.10	<0.02	54	0.1	0.05	4.4	2.47	<0.1	0.03
1096665	Soil	7.2	13.6	0.15	67.0	0.003	1	0.91	0.002	0.07	<0.1	1.5	0.08	<0.02	18	<0.1	0.04	3.7	1.03	<0.1	<0.02
1096666	Soil	7.2	18.3	0.16	114.7	0.002	2	1.32	0.001	0.09	<0.1	2.5	0.14	<0.02	21	<0.1	0.04	4.1	2.03	<0.1	<0.02
1096667	Soil	7.6	16.9	0.17	66.5	0.003	2	1.16	0.001	0.07	<0.1	1.8	0.12	<0.02	34	<0.1	0.04	4.3	1.70	<0.1	<0.02
1096668	Soil	6.5	18.0	0.13	72.7	0.002	2	1.19	0.004	0.09	<0.1	1.8	0.12	0.02	59	<0.1	0.04	4.2	2.17	<0.1	0.03
1096669	Soil	4.2	19.2	0.23	54.3	0.001	1	1.34	<0.001	0.08	<0.1	2.2	0.10	<0.02	364	0.1	0.04	4.0	1.66	<0.1	0.03
1096670	Soil	8.1	21.4	0.24	82.2	0.004	2	1.39	0.003	0.08	<0.1	2.1	0.11	<0.02	30	<0.1	0.04	4.4	3.26	<0.1	<0.02



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Page: 4 of 11 Part 3

CERTIFICATE OF ANALYSIS

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Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1097186	Soil	0.26	7.6	0.8	<0.05	1.5	12.36	17.2	0.03	<1	1.0	31.8	<10	<2
1097187	Soil	0.08	3.0	1.2	<0.05	0.5	5.25	8.4	<0.02	<1	0.4	3.0	<10	<2
1097188	Soil	0.10	3.5	1.9	<0.05	0.9	7.75	13.2	0.03	<1	0.5	4.2	<10	<2
1097189	Soil	0.18	5.0	1.5	<0.05	1.1	11.95	20.9	<0.02	<1	0.8	6.6	<10	<2
1097190	Soil	0.24	8.6	1.7	<0.05	1.1	5.00	13.6	0.03	<1	0.8	4.2	<10	<2
1097191	Soil	0.10	10.9	3.4	<0.05	1.8	12.92	13.2	0.05	<1	1.0	5.2	<10	<2
1097192	Soil	0.29	9.1	1.4	<0.05	0.8	3.01	12.4	0.03	<1	0.6	6.0	<10	<2
1097193	Soil	0.21	8.2	1.7	<0.05	1.8	15.74	13.1	0.04	<1	1.2	10.4	<10	<2
1097194	Soil	0.11	4.0	0.5	<0.05	1.7	9.89	15.1	<0.02	<1	0.5	9.7	<10	<2
1097195	Soil	0.22	5.2	0.7	<0.05	1.7	6.95	10.2	0.02	<1	0.6	10.1	<10	<2
1096651	Soil	0.21	5.6	1.4	<0.05	1.7	7.64	9.5	0.03	<1	0.7	19.5	<10	<2
1096652	Soil	0.16	8.3	4.3	<0.05	4.6	23.66	16.6	0.06	<1	1.4	39.6	<10	<2
1096653	Soil	0.23	11.2	4.3	<0.05	2.9	25.70	19.7	0.05	<1	1.7	40.1	<10	<2
1096654	Soil	0.20	7.5	7.9	<0.05	2.1	26.07	24.8	0.06	<1	1.3	25.1	<10	<2
1096655	Soil	0.11	7.0	11.4	<0.05	2.2	38.12	7.6	0.03	<1	1.1	28.7	10	<2
1096656	Soil	0.13	7.1	5.6	<0.05	3.8	18.87	19.5	0.06	<1	1.4	38.0	<10	<2
1096657	Soil	0.11	8.2	5.4	<0.05	2.0	31.73	37.8	0.06	<1	1.3	34.1	<10	<2
1096658	Soil	0.15	12.4	1.4	<0.05	0.5	2.81	7.3	0.04	<1	0.8	13.9	<10	<2
1096659	Soil	0.11	11.2	4.4	<0.05	0.8	5.22	8.7	0.05	<1	0.8	5.9	<10	<2
1096660	Soil	0.11	13.7	1.3	<0.05	0.1	2.31	5.6	0.03	<1	0.4	4.1	<10	<2
1096661	Soil	0.22	11.8	3.2	<0.05	1.1	2.76	8.4	0.05	<1	1.1	50.4	<10	<2
1096662	Soil	0.20	9.1	2.5	<0.05	1.2	16.40	30.0	0.05	<1	1.4	31.2	<10	<2
1096663	Soil	0.28	10.7	1.7	<0.05	1.4	3.42	9.7	0.05	<1	1.1	55.8	<10	<2
1096664	Soil	0.28	12.2	2.0	<0.05	0.9	5.87	20.8	0.04	<1	1.0	33.4	<10	<2
1096665	Soil	0.28	12.8	1.9	<0.05	0.3	2.09	14.8	0.03	<1	0.3	13.5	<10	<2
1096666	Soil	0.32	15.6	3.6	<0.05	0.5	4.55	14.0	0.04	<1	0.8	18.7	<10	<2
1096667	Soil	0.46	12.6	1.3	<0.05	0.7	2.34	15.6	0.03	<1	0.3	14.5	<10	<2
1096668	Soil	0.36	16.7	2.9	<0.05	0.7	3.10	14.8	0.03	<1	0.6	16.5	<10	<2
1096669	Soil	0.17	11.4	2.3	<0.05	1.1	2.66	9.6	0.03	<1	0.5	26.6	<10	<2
1096670	Soil	0.52	12.8	2.2	<0.05	0.3	4.21	16.8	0.03	<1	0.9	31.6	<10	<2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 27, 2011

Page: 5 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1096671	Soil			0.48	27.30	28.88	69.7	122	25.4	13.9	490	3.38	8.9	1.1	2.3	5.4	38.1	0.16	0.40	0.31	18	0.81	0.040
1096672	Soil			0.23	5.95	10.35	243.5	65	5.5	2.8	2030	2.46	13.5	0.9	<0.2	0.3	17.1	0.64	0.66	0.06	9	6.47	0.100
1096673	Soil			0.64	15.82	30.08	177.2	159	13.9	7.9	5375	6.46	36.3	1.7	1.4	0.7	18.0	0.96	1.99	0.18	32	5.34	0.224
1096674	Soil			0.56	20.06	34.99	131.1	206	18.9	8.5	2854	4.63	30.8	1.7	5.4	1.0	19.4	0.69	2.56	0.23	25	4.78	0.161
1096675	Soil			0.70	19.70	37.87	167.6	149	22.7	8.4	2669	6.96	27.6	1.6	2.4	2.0	12.5	0.51	1.66	0.29	37	1.02	0.139
1096676	Soil			0.23	5.97	14.07	202.5	73	5.4	2.5	1173	1.95	10.2	1.1	1.3	0.3	20.7	0.30	0.78	0.05	6	8.72	0.076
1096677	Soil			0.74	16.69	34.18	119.4	108	18.4	9.8	6228	7.78	16.2	2.0	0.9	2.0	12.6	0.56	1.15	0.28	39	1.64	0.135
1096678	Soil			0.30	8.95	16.40	48.7	78	8.8	4.5	1207	2.12	11.0	0.9	0.7	0.9	23.2	0.17	0.64	0.12	12	8.96	0.063
1096679	Soil			0.58	12.91	35.74	84.2	52	17.0	9.9	1093	3.28	9.7	0.6	0.7	2.8	11.4	0.17	0.66	0.30	24	0.27	0.040
1096680	Soil			0.60	13.20	28.58	68.7	44	18.8	8.4	387	3.43	10.0	0.6	0.6	3.3	10.3	0.20	0.47	0.28	29	0.17	0.025
1096681	Soil			0.49	15.60	28.98	86.2	110	18.2	8.1	827	3.10	13.2	0.8	1.7	2.0	21.4	0.24	0.70	0.24	19	4.15	0.070
1096682	Soil			0.29	11.19	28.62	28.4	106	10.3	4.9	776	2.02	14.6	1.4	6.8	1.0	24.0	0.12	1.53	0.10	8	10.23	0.073
1096683	Soil			0.43	8.62	12.89	125.0	75	6.0	3.6	5551	6.61	23.9	1.3	1.4	0.2	24.3	0.88	0.88	0.07	12	10.89	0.175
1096684	Soil			0.90	20.96	38.74	173.8	196	20.5	10.0	5464	8.34	46.7	2.3	5.1	1.1	13.5	0.81	2.37	0.25	34	1.57	0.171
1096685	Soil			0.19	4.56	11.55	25.2	43	3.4	1.8	1301	1.33	10.8	1.1	0.9	0.1	29.1	0.09	0.58	0.05	5	12.81	0.093
1096686	Soil			0.53	30.15	29.95	109.4	172	36.3	14.9	330	2.84	8.7	0.9	0.6	4.2	163.4	0.12	0.24	0.40	7	2.75	0.055
1096687	Soil			0.56	24.78	33.47	95.8	176	26.2	13.1	679	3.36	6.8	0.8	0.3	2.8	25.2	0.24	0.25	0.33	12	0.37	0.057
1096688	Soil			0.52	31.27	45.35	101.8	153	33.7	16.4	486	4.27	7.6	0.7	0.8	3.3	14.9	0.08	0.34	0.39	15	0.14	0.050
1096689	Soil			0.62	22.40	35.11	73.5	101	24.0	10.7	297	3.60	8.5	0.5	0.4	1.9	12.2	0.07	0.37	0.34	18	0.11	0.059
1096690	Soil			0.76	30.10	41.03	77.4	180	36.7	15.0	439	3.36	17.5	1.3	0.8	1.5	64.3	0.12	0.42	0.32	15	1.33	0.106
1096691	Soil			0.66	26.69	32.16	74.0	98	24.7	13.9	604	4.00	9.4	0.5	2.0	1.2	23.5	0.09	0.46	0.38	22	0.25	0.075
1096692	Soil			0.73	26.73	28.10	58.1	208	21.2	12.7	708	3.23	8.4	1.4	3.8	1.2	87.2	0.37	0.40	0.34	17	1.97	0.152
1096693	Soil			0.69	32.89	28.88	58.2	267	26.7	11.6	561	3.29	7.6	2.1	1.9	1.7	96.3	0.23	0.42	0.31	18	1.97	0.116
1096694	Soil			0.82	23.41	29.33	70.8	174	22.9	10.6	592	3.21	7.5	0.9	1.4	2.7	69.8	0.22	0.34	0.32	19	0.65	0.090
1096695	Soil			0.63	28.71	28.02	71.7	138	27.4	16.8	598	4.01	7.7	0.8	1.4	3.7	32.0	0.09	0.33	0.33	23	0.23	0.047
1096696	Soil			0.46	21.27	22.71	57.9	100	22.2	12.3	374	3.29	6.6	0.7	1.4	3.7	50.5	0.16	0.26	0.29	23	0.37	0.038
1096697	Soil			0.64	29.42	35.18	74.7	96	31.9	17.9	756	4.22	16.2	1.4	1.6	3.2	74.1	0.11	0.53	0.49	24	1.06	0.068
1096901	Soil			0.60	25.38	32.04	96.2	85	25.2	12.0	504	3.84	10.5	0.7	1.2	3.7	41.4	0.15	0.48	0.38	19	0.50	0.044
1096902	Soil			2.10	49.28	34.35	91.9	291	33.1	15.7	261	2.93	17.4	1.2	6.3	3.7	113.5	0.27	1.00	0.38	13	3.47	0.071
1096903	Soil			1.07	35.14	33.32	122.4	300	30.0	16.3	1030	4.07	9.4	1.2	1.1	1.9	63.7	0.47	0.49	0.36	27	0.92	0.139



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 27, 2011

Page: 5 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1096671	Soil	12.1	20.8	0.29	98.6	<0.001	4	1.48	0.003	0.11	<0.1	5.6	0.11	0.03	104	0.2	0.07	3.1	1.49	<0.1	0.05
1096672	Soil	5.5	6.5	3.45	54.0	0.004	2	0.36	0.005	0.03	<0.1	0.8	0.05	<0.02	268	0.2	<0.02	0.8	0.30	<0.1	<0.02
1096673	Soil	13.7	21.0	2.38	180.0	0.006	3	1.17	0.007	0.04	<0.1	1.6	0.13	0.12	323	0.6	0.06	2.4	0.54	<0.1	0.05
1096674	Soil	12.6	18.7	2.36	101.6	0.005	3	1.10	0.007	0.05	<0.1	2.3	0.13	0.08	442	0.6	0.07	2.4	0.56	<0.1	0.05
1096675	Soil	15.2	26.0	0.50	111.6	0.007	4	1.77	0.005	0.09	<0.1	3.4	0.15	0.07	156	0.5	0.07	3.8	0.97	<0.1	0.05
1096676	Soil	2.8	5.4	4.42	38.1	0.002	3	0.29	0.006	0.03	<0.1	0.7	0.07	<0.02	140	0.4	0.02	0.8	0.31	<0.1	<0.02
1096677	Soil	18.2	23.6	0.87	249.3	0.007	3	1.82	0.004	0.06	<0.1	3.6	0.14	0.07	95	0.4	0.05	4.5	0.96	<0.1	0.09
1096678	Soil	4.2	9.2	4.92	65.2	0.002	3	0.73	0.006	0.07	<0.1	1.5	0.09	<0.02	53	0.3	0.03	1.6	0.56	<0.1	0.04
1096679	Soil	7.3	15.3	0.22	94.6	0.004	3	1.05	0.003	0.13	<0.1	2.5	0.11	0.02	36	0.2	<0.02	2.8	0.74	<0.1	0.02
1096680	Soil	7.0	19.4	0.27	83.0	0.004	3	1.39	0.002	0.09	<0.1	2.3	0.12	<0.02	26	0.1	0.04	3.6	1.51	<0.1	<0.02
1096681	Soil	8.8	15.6	2.32	84.1	0.002	4	1.08	0.006	0.09	<0.1	2.9	0.10	0.03	64	0.2	0.02	2.4	0.62	<0.1	0.05
1096682	Soil	3.9	6.7	5.11	31.2	0.002	3	0.31	0.008	0.04	<0.1	1.2	0.10	<0.02	302	0.4	<0.02	0.8	0.26	<0.1	<0.02
1096683	Soil	15.1	9.3	5.15	119.0	0.004	3	0.49	0.010	0.02	<0.1	0.7	0.08	0.05	93	0.6	0.02	1.1	0.28	<0.1	<0.02
1096684	Soil	17.8	22.6	0.55	176.8	0.007	3	1.23	0.007	0.05	0.1	2.3	0.19	0.13	372	0.6	0.08	3.1	0.70	<0.1	0.04
1096685	Soil	1.8	4.3	6.15	35.3	0.004	3	0.23	0.011	0.02	<0.1	0.4	0.06	<0.02	48	0.5	<0.02	0.5	0.29	<0.1	<0.02
1096686	Soil	7.7	5.8	0.10	209.5	<0.001	6	0.45	0.004	0.17	<0.1	4.6	0.27	0.05	473	0.6	0.03	1.1	3.08	<0.1	0.06
1096687	Soil	10.1	9.8	0.15	166.5	<0.001	3	0.86	0.004	0.11	<0.1	3.6	0.19	0.04	53	0.2	0.03	1.9	1.61	<0.1	0.04
1096688	Soil	4.6	17.0	0.23	88.3	<0.001	2	1.22	0.003	0.10	<0.1	4.6	0.13	0.03	31	0.2	0.02	2.9	2.65	<0.1	0.04
1096689	Soil	3.8	14.5	0.18	87.7	0.001	2	1.08	0.004	0.09	<0.1	2.2	0.13	0.03	15	0.2	0.03	2.9	2.04	<0.1	0.04
1096690	Soil	6.0	15.0	0.17	164.0	0.002	3	1.25	0.007	0.08	<0.1	3.7	0.14	0.11	50	0.3	0.05	2.1	2.55	<0.1	0.06
1096691	Soil	3.3	19.1	0.26	83.7	0.003	2	1.10	0.003	0.08	<0.1	1.9	0.08	0.03	28	0.2	0.05	3.5	2.16	<0.1	0.03
1096692	Soil	9.8	16.8	0.24	98.9	0.003	6	0.99	0.006	0.07	<0.1	4.3	0.10	0.12	48	0.4	0.04	3.0	2.20	<0.1	0.03
1096693	Soil	10.6	16.3	0.21	152.7	0.003	5	1.04	0.006	0.08	<0.1	3.9	0.09	0.11	54	0.4	0.02	2.8	1.39	<0.1	0.07
1096694	Soil	6.7	20.9	0.28	148.1	0.002	3	1.20	0.004	0.12	<0.1	5.4	0.10	0.04	31	0.1	0.04	3.7	1.93	<0.1	0.04
1096695	Soil	5.3	24.4	0.34	104.5	0.003	3	1.36	0.002	0.17	<0.1	5.5	0.11	0.02	24	0.2	0.05	4.5	1.96	<0.1	0.07
1096696	Soil	4.9	23.9	0.32	113.7	0.002	3	1.37	0.003	0.11	<0.1	3.5	0.10	0.02	39	0.1	0.03	4.4	1.63	<0.1	0.03
1096697	Soil	9.2	22.8	0.34	121.1	0.002	3	1.55	0.004	0.08	<0.1	6.4	0.13	0.04	58	0.3	0.05	4.6	2.94	<0.1	0.06
1096901	Soil	4.7	18.6	0.24	86.9	0.001	2	1.08	0.003	0.08	<0.1	4.0	0.11	0.02	95	0.2	0.03	3.2	1.60	<0.1	0.05
1096902	Soil	5.5	14.4	1.21	125.8	<0.001	4	0.84	0.005	0.09	<0.1	6.0	0.10	0.03	124	0.7	0.07	2.3	1.34	<0.1	0.10
1096903	Soil	6.6	23.5	0.29	166.0	0.005	3	1.23	0.006	0.12	<0.1	3.6	0.10	0.07	47	0.2	0.06	4.1	2.23	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 27, 2011

Page: 5 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1096671	Soil	0.19	10.9	1.9	<0.05	2.1	15.95	33.4	0.05	<1	1.3	30.4	<10	<2
1096672	Soil	0.05	2.8	0.9	<0.05	0.3	6.45	10.8	<0.02	<1	0.2	2.6	<10	<2
1096673	Soil	0.20	5.1	1.0	<0.05	1.1	16.48	26.0	0.03	<1	0.6	4.6	<10	<2
1096674	Soil	0.23	5.4	0.6	<0.05	1.3	16.30	22.1	0.02	<1	0.5	5.4	<10	<2
1096675	Soil	0.29	9.8	0.9	<0.05	1.6	17.40	24.5	0.04	<1	1.0	9.6	<10	<2
1096676	Soil	0.03	2.9	1.7	<0.05	0.4	4.17	5.5	<0.02	<1	0.2	2.9	<10	<2
1096677	Soil	0.34	8.8	0.7	<0.05	2.6	18.67	36.0	0.03	<1	0.9	11.1	<10	<2
1096678	Soil	0.09	5.4	1.4	<0.05	1.1	5.48	9.3	<0.02	<1	0.5	7.6	<10	<2
1096679	Soil	0.25	12.8	1.2	<0.05	0.8	4.43	21.0	0.04	<1	0.6	13.0	<10	<2
1096680	Soil	0.33	12.9	2.6	<0.05	1.1	3.24	18.5	0.03	<1	0.8	23.6	<10	<2
1096681	Soil	0.16	7.0	2.6	<0.05	1.6	10.15	18.3	0.02	<1	0.6	11.8	<10	<2
1096682	Soil	0.05	2.1	1.1	<0.05	0.7	5.12	7.6	<0.02	<1	0.2	3.8	<10	<2
1096683	Soil	0.06	3.0	2.2	<0.05	0.3	13.45	24.0	<0.02	<1	0.2	2.5	<10	<2
1096684	Soil	0.29	6.5	2.6	<0.05	1.1	18.72	33.8	0.04	<1	0.5	6.5	<10	<2
1096685	Soil	0.06	2.0	2.2	<0.05	0.5	2.86	4.3	<0.02	<1	0.1	1.6	<10	<2
1096686	Soil	0.10	10.4	3.3	<0.05	2.2	9.79	20.5	0.03	<1	0.9	4.3	<10	<2
1096687	Soil	0.14	11.1	1.4	<0.05	0.9	9.94	30.8	0.03	<1	1.1	7.4	<10	<2
1096688	Soil	0.13	9.1	1.7	<0.05	1.2	6.95	14.0	0.04	<1	1.1	32.4	<10	<2
1096689	Soil	0.21	11.9	2.5	<0.05	1.1	4.11	11.8	0.04	<1	0.7	23.8	<10	<2
1096690	Soil	0.29	9.5	1.1	<0.05	2.1	10.63	17.0	0.05	<1	1.1	24.8	<10	<2
1096691	Soil	0.22	9.1	1.7	<0.05	0.6	4.48	12.3	0.05	<1	0.9	27.6	<10	<2
1096692	Soil	0.19	11.2	5.5	<0.05	0.8	24.53	30.3	0.06	1	1.0	21.4	<10	<2
1096693	Soil	0.29	9.1	3.2	<0.05	2.2	24.22	22.4	0.04	<1	1.3	17.3	<10	<2
1096694	Soil	0.25	12.6	8.4	<0.05	1.2	13.57	20.4	0.05	<1	1.0	28.8	<10	<2
1096695	Soil	0.24	13.8	1.8	<0.05	1.6	9.37	16.4	0.04	<1	1.2	39.6	<10	<2
1096696	Soil	0.35	12.9	2.5	<0.05	1.4	6.09	13.9	0.04	<1	1.0	38.6	<10	<2
1096697	Soil	0.37	13.3	2.0	<0.05	1.8	16.34	31.2	0.04	<1	1.5	39.7	<10	<2
1096901	Soil	0.19	9.8	2.8	<0.05	2.1	7.49	18.9	0.05	1	1.0	26.7	<10	<2
1096902	Soil	0.10	5.9	4.6	<0.05	3.2	14.38	15.3	0.05	<1	1.0	22.8	<10	<2
1096903	Soil	0.38	14.2	3.2	<0.05	1.2	12.35	26.7	0.05	<1	1.2	25.9	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 27, 2011

Page: 6 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1096904	Soil	1.12	22.03	33.64	73.4	180	22.8	15.5	897	4.22	7.6	0.9	0.5	3.0	22.7	0.14	0.47	0.33	27	0.22	0.087
1096905	Soil	1.08	23.71	36.72	76.7	72	24.7	17.1	829	4.25	8.2	0.9	1.0	2.4	33.5	0.11	0.48	0.30	24	0.36	0.114
1096906	Soil	0.87	34.32	29.37	115.1	262	27.6	13.2	614	3.76	9.0	1.2	2.0	2.7	81.8	0.46	0.38	0.35	25	1.00	0.153
1096907	Soil	0.59	26.05	25.97	75.2	140	23.5	12.6	494	3.68	7.7	1.0	0.8	3.5	46.8	0.13	0.36	0.33	23	0.32	0.053
1096908	Soil	0.77	37.29	31.23	85.3	323	28.9	15.7	578	3.85	6.5	0.9	0.6	2.9	58.7	0.19	0.31	0.38	27	0.35	0.061
1096909	Soil	0.79	24.61	34.29	81.8	98	26.9	16.6	745	4.64	14.4	0.5	0.4	1.9	39.6	0.13	0.41	0.41	31	0.36	0.060
1096910	Soil	0.74	37.00	47.22	93.0	134	33.8	24.2	1376	4.59	17.9	0.8	1.0	5.3	22.9	0.07	0.52	0.45	26	0.14	0.075
1096911	Soil	0.65	21.29	26.50	70.8	82	24.4	12.0	606	3.63	12.0	1.4	1.5	4.7	34.0	0.22	0.45	0.30	19	0.37	0.040
1096912	Soil	0.32	9.16	27.71	26.2	118	8.9	3.9	792	1.43	20.2	1.1	3.8	0.5	52.6	0.18	1.03	0.10	14	11.26	0.131
1096913	Soil	0.32	5.41	19.54	116.4	78	5.9	2.9	1419	1.67	11.5	0.6	2.1	0.2	42.8	0.19	1.11	0.06	9	11.95	0.071
1096914	Soil	0.48	17.08	49.29	150.0	209	16.9	9.2	1631	3.24	27.8	0.8	12.1	1.0	35.1	0.33	2.93	0.20	19	7.83	0.131
1096915	Soil	0.45	12.43	34.23	71.0	141	12.0	6.6	1819	2.61	24.8	0.8	4.2	0.8	48.9	0.25	2.47	0.14	17	10.05	0.116
1096916	Soil	0.51	12.81	26.10	42.0	153	13.0	6.9	1727	2.54	20.3	0.7	2.9	0.9	64.4	0.20	2.46	0.14	18	11.65	0.122
1096917	Soil	0.61	16.37	33.33	61.8	217	16.5	8.8	3179	3.86	20.7	1.0	3.5	1.0	38.4	0.37	2.31	0.20	25	6.53	0.132
1096918	Soil	0.73	16.36	50.40	159.0	159	17.8	9.1	5221	5.96	24.5	1.1	3.5	1.1	21.0	0.96	2.09	0.23	32	4.01	0.157
1096919	Soil	0.30	12.98	28.07	41.7	140	13.1	6.5	694	2.01	12.9	0.9	2.2	1.1	40.7	0.12	1.00	0.15	11	10.69	0.116
1096920	Soil	0.59	17.17	33.80	86.7	147	23.1	8.9	1889	4.39	15.1	1.4	1.7	3.2	18.7	0.32	0.97	0.27	27	1.45	0.100
1096921	Soil	0.48	22.66	30.03	80.9	196	25.0	12.1	916	3.36	15.8	0.8	1.8	3.8	38.9	0.16	0.85	0.28	19	2.71	0.084
1096922	Soil	0.40	17.35	28.75	101.1	52	18.0	7.5	794	2.56	8.0	0.9	6.1	2.1	34.0	0.41	0.68	0.47	13	3.34	0.067
1096923	Soil	0.38	12.89	28.50	59.3	191	11.5	6.4	2130	3.06	17.1	1.7	5.4	0.8	44.7	0.24	1.69	0.15	12	12.85	0.178
1096924	Soil	0.48	13.63	51.38	41.0	66	18.1	7.8	544	2.65	31.5	0.6	<0.2	2.6	5.7	0.10	1.25	0.26	10	0.30	0.038
1096925	Soil	0.58	16.65	36.66	44.1	56	22.4	9.1	381	3.50	8.0	0.5	<0.2	2.0	7.9	0.08	0.38	0.32	15	0.15	0.048
1096926	Soil	0.73	22.35	40.29	46.3	103	27.4	10.2	426	3.02	9.2	0.7	0.7	2.9	17.4	0.06	0.29	0.36	11	0.22	0.044
1096927	Soil	0.57	24.60	38.98	100.6	199	27.3	15.6	452	4.34	7.8	0.7	0.5	3.5	20.6	0.17	0.28	0.34	19	0.15	0.071
1096928	Soil	1.02	16.78	44.39	92.2	244	20.7	10.8	373	4.99	10.4	0.4	0.3	1.5	11.0	0.22	0.45	0.31	32	0.05	0.063
1096929	Soil	0.81	35.07	52.56	108.6	320	44.4	19.8	399	4.44	22.1	1.0	1.4	2.4	99.9	0.13	0.71	0.39	14	1.24	0.067
1096930	Soil	1.42	17.54	26.76	56.6	109	15.6	13.7	441	3.13	5.8	0.3	1.9	1.8	48.2	0.31	0.43	0.43	28	0.38	0.036
1096931	Soil	1.12	32.16	73.14	96.5	186	45.9	27.4	524	4.06	25.9	1.2	2.2	1.7	89.5	0.10	0.65	0.39	16	1.58	0.070
1096932	Soil	1.48	27.81	53.56	75.0	172	24.7	20.9	1334	3.85	8.4	0.4	2.0	2.7	58.9	0.34	0.45	0.37	23	0.49	0.072
1096933	Soil	0.64	29.70	27.64	59.1	101	27.1	13.5	719	3.29	9.6	0.6	1.2	2.1	52.9	0.14	0.46	0.34	23	0.97	0.052



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 27, 2011

Page: 6 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15				
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf			
			ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm				
			0.5	0.5	0.01	0.5	0.001			1	0.01	0.001			0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1096904	Soil		6.5	23.6	0.24	106.9	0.003	3	1.37	0.004	0.10	<0.1	3.6	0.11	0.06	46	0.2	0.03	4.1	2.44	<0.1	0.03			
1096905	Soil		4.8	24.2	0.33	74.4	0.003	2	1.40	0.003	0.09	<0.1	4.0	0.10	0.05	17	0.2	0.02	3.8	3.61	<0.1	0.03			
1096906	Soil		8.3	29.0	0.38	160.2	0.006	4	1.44	0.005	0.12	<0.1	6.2	0.12	0.05	27	0.3	0.04	4.7	2.74	<0.1	0.05			
1096907	Soil		6.3	22.2	0.28	134.0	0.002	3	1.32	0.003	0.17	<0.1	4.8	0.10	0.03	33	0.1	0.03	4.1	1.31	<0.1	0.06			
1096908	Soil		6.0	27.8	0.37	138.6	0.004	3	1.51	0.005	0.13	<0.1	3.6	0.10	0.03	33	0.2	0.04	5.5	2.94	<0.1	0.04			
1096909	Soil		4.5	22.9	0.30	125.9	0.004	2	1.42	0.003	0.14	<0.1	3.0	0.10	0.02	12	0.1	0.06	5.3	2.41	<0.1	0.02			
1096910	Soil		5.4	29.0	0.60	59.3	0.005	4	1.86	0.002	0.14	<0.1	4.6	0.12	0.03	57	0.2	0.06	5.3	7.44	<0.1	<0.02			
1096911	Soil		12.2	18.9	0.27	73.1	0.001	3	1.29	0.003	0.07	<0.1	4.7	0.10	0.03	77	0.2	0.05	3.0	1.42	<0.1	0.04			
1096912	Soil		3.9	11.6	5.81	46.1	0.004	3	0.41	0.011	0.03	<0.1	0.8	0.06	0.03	121	0.4	<0.02	0.9	0.32	<0.1	0.04			
1096913	Soil		2.7	6.0	6.42	41.5	0.004	2	0.26	0.009	0.02	<0.1	0.5	0.43	<0.02	145	0.4	<0.02	0.6	0.19	<0.1	<0.02			
1096914	Soil		9.7	12.9	4.21	65.5	0.004	5	0.75	0.008	0.06	<0.1	2.6	0.46	0.05	262	0.4	0.04	1.6	0.42	<0.1	0.04			
1096915	Soil		7.9	11.4	5.32	62.1	0.004	4	0.62	0.009	0.05	<0.1	1.8	0.21	0.03	236	0.4	0.03	1.5	0.36	<0.1	0.04			
1096916	Soil		6.9	12.5	6.11	58.0	0.005	3	0.63	0.011	0.05	<0.1	1.7	0.14	<0.02	271	0.4	<0.02	1.5	0.45	<0.1	0.03			
1096917	Soil		11.4	17.2	3.48	85.4	0.004	3	1.01	0.008	0.05	<0.1	2.4	0.15	0.05	259	0.4	0.04	2.2	0.69	<0.1	0.03			
1096918	Soil		14.2	21.7	2.17	179.1	0.005	4	1.45	0.007	0.06	<0.1	2.5	0.22	0.10	497	0.7	0.06	3.3	0.53	<0.1	0.06			
1096919	Soil		5.1	9.3	5.63	35.9	0.002	4	0.46	0.010	0.07	<0.1	2.0	0.08	<0.02	163	0.4	0.03	1.2	0.58	<0.1	0.05			
1096920	Soil		22.0	22.5	0.82	117.0	0.004	3	1.48	0.004	0.08	<0.1	5.3	0.13	0.04	132	0.3	0.05	3.2	1.02	<0.1	0.08			
1096921	Soil		11.1	16.8	1.58	86.7	0.004	4	0.99	0.006	0.10	<0.1	5.4	0.11	0.02	170	0.2	0.04	2.5	1.45	<0.1	0.05			
1096922	Soil		7.0	12.5	1.63	78.3	0.006	7	0.76	0.006	0.08	0.5	3.6	0.08	<0.02	42	0.6	0.08	2.2	1.33	<0.1	0.07			
1096923	Soil		7.7	12.6	6.25	71.6	0.006	3	0.64	0.010	0.04	0.1	1.6	0.08	<0.02	222	0.4	<0.02	1.3	0.38	<0.1	0.02			
1096924	Soil		4.5	10.6	0.09	37.0	0.001	2	0.48	0.003	0.07	<0.1	3.2	0.10	0.03	124	0.1	<0.02	1.5	0.43	<0.1	0.04			
1096925	Soil		5.2	11.7	0.11	82.3	0.002	2	0.77	0.001	0.11	<0.1	2.4	0.08	0.03	52	0.2	0.04	2.1	0.89	<0.1	0.02			
1096926	Soil		8.8	7.9	0.08	147.7	0.001	3	0.66	0.002	0.11	<0.1	3.6	0.12	0.03	159	0.2	0.05	1.8	0.74	<0.1	0.05			
1096927	Soil		4.3	18.4	0.20	131.9	0.001	3	1.40	0.003	0.10	<0.1	3.4	0.13	0.04	62	0.2	0.02	3.1	1.92	<0.1	<0.02			
1096928	Soil		4.2	24.0	0.21	101.4	0.004	2	1.44	0.003	0.09	<0.1	2.1	0.08	0.03	28	<0.1	0.04	4.5	3.79	<0.1	0.03			
1096929	Soil		7.9	15.4	0.20	96.2	0.001	3	0.91	0.006	0.08	<0.1	5.6	0.14	0.07	142	0.5	0.07	2.2	2.20	<0.1	0.04			
1096930	Soil		4.2	21.0	0.21	189.3	0.004	5	1.28	0.007	0.15	<0.1	2.0	0.13	0.02	41	0.1	0.06	5.0	2.10	<0.1	0.03			
1096931	Soil		4.5	19.6	0.21	181.8	0.001	5	1.24	0.008	0.08	<0.1	5.1	0.18	0.08	45	0.5	0.07	2.5	3.66	<0.1	0.05			
1096932	Soil		4.6	26.6	0.25	181.4	0.006	5	1.20	0.009	0.20	<0.1	3.5	0.11	0.04	70	0.2	<0.02	4.3	3.15	<0.1	<0.02			
1096933	Soil		5.8	22.3	0.33	120.3	0.002	3	1.48	0.006	0.12	<0.1	3.9	0.12	0.05	105	0.2	0.06	4.4	1.42	<0.1	0.05			



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 27, 2011

Page: 6 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppm	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1096904	Soil	0.38	12.7	2.9	<0.05	0.7	9.24	28.0	0.05	1	1.1	32.0	<10	<2
1096905	Soil	0.21	11.1	4.1	<0.05	0.8	8.93	24.3	0.05	<1	1.2	37.9	<10	<2
1096906	Soil	0.36	17.3	6.2	<0.05	1.0	15.10	23.0	0.02	<1	1.3	35.6	<10	<2
1096907	Soil	0.26	13.7	2.1	<0.05	1.7	10.00	15.6	0.04	<1	1.0	28.5	<10	<2
1096908	Soil	0.51	18.6	3.5	<0.05	1.1	6.99	16.8	0.05	<1	1.3	40.5	<10	<2
1096909	Soil	0.34	18.6	1.3	<0.05	0.7	3.85	11.8	0.05	<1	1.0	31.5	<10	<2
1096910	Soil	0.23	14.2	6.0	<0.05	1.2	8.54	35.6	0.05	<1	2.0	51.2	<10	<2
1096911	Soil	0.20	10.1	1.6	<0.05	1.4	14.00	43.8	0.05	<1	1.1	30.5	<10	<2
1096912	Soil	0.10	3.5	5.7	<0.05	0.9	7.11	9.0	<0.02	<1	0.4	3.6	<10	<2
1096913	Soil	0.05	1.9	2.4	<0.05	0.4	4.07	6.1	<0.02	<1	0.3	2.2	<10	<2
1096914	Soil	0.14	4.4	1.3	<0.05	1.3	10.67	20.3	0.02	<1	0.6	5.3	<10	<2
1096915	Soil	0.12	4.1	2.0	<0.05	1.0	8.70	17.0	<0.02	<1	0.5	4.6	<10	<2
1096916	Soil	0.14	4.4	1.9	<0.05	1.1	8.00	14.4	<0.02	<1	0.5	5.5	<10	<2
1096917	Soil	0.14	6.4	1.0	<0.05	0.9	13.11	23.2	0.03	<1	1.0	9.0	<10	<2
1096918	Soil	0.24	6.0	1.4	<0.05	1.7	16.30	26.7	0.03	1	1.2	7.4	<10	<2
1096919	Soil	0.11	4.5	3.9	<0.05	1.5	7.13	10.3	<0.02	<1	0.5	6.5	<10	<2
1096920	Soil	0.31	8.3	1.5	<0.05	1.9	19.27	42.3	0.04	<1	1.3	14.3	<10	<2
1096921	Soil	0.19	6.8	2.2	<0.05	1.9	15.84	23.7	0.03	1	0.9	18.3	<10	<2
1096922	Soil	0.17	8.4	4.0	<0.05	2.0	8.98	18.3	0.06	<1	0.8	9.4	<10	<2
1096923	Soil	0.11	3.6	2.7	<0.05	0.9	10.51	15.4	<0.02	<1	0.5	5.0	<10	<2
1096924	Soil	0.11	4.6	3.3	<0.05	1.6	5.64	20.3	0.02	<1	0.6	3.3	<10	<2
1096925	Soil	0.18	8.4	2.5	<0.05	0.6	3.97	17.5	0.02	<1	0.7	6.2	<10	<2
1096926	Soil	0.12	8.3	2.5	<0.05	1.3	11.21	25.7	0.03	<1	1.0	4.5	<10	<2
1096927	Soil	0.18	10.5	3.3	<0.05	1.0	5.34	14.4	0.06	<1	1.1	37.5	<10	<2
1096928	Soil	0.56	11.3	9.9	<0.05	0.9	2.35	9.3	0.04	<1	0.7	39.0	<10	<2
1096929	Soil	0.16	8.6	6.2	<0.05	1.6	16.82	23.8	0.05	<1	1.0	21.5	<10	<2
1096930	Soil	0.39	25.0	4.7	<0.05	1.1	2.54	10.1	0.03	3	0.7	32.5	<10	<2
1096931	Soil	0.18	10.0	12.3	<0.05	1.9	12.53	15.8	0.05	1	1.6	41.5	<10	<2
1096932	Soil	0.38	18.6	14.6	<0.05	0.9	4.11	15.3	0.03	1	1.0	34.4	<10	<2
1096933	Soil	0.33	15.3	3.3	<0.05	1.6	8.01	15.9	0.04	<1	1.3	36.3	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 27, 2011

Page: 7 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1096934	Soil			0.69	19.11	28.40	91.2	54	24.5	13.9	453	3.88	11.1	0.7	0.6	4.1	57.8	0.14	0.43	0.36	28	0.60	0.024
1096935	Soil			0.35	6.70	20.00	47.5	77	6.9	3.7	2828	2.41	9.2	0.5	1.5	0.3	35.4	0.36	0.92	0.14	14	9.60	0.111
1096936	Soil			0.47	6.65	18.12	32.0	76	8.2	4.9	1463	1.92	16.5	0.7	2.1	0.4	82.3	0.21	1.25	0.10	14	9.38	0.128
1096937	Soil			0.45	9.59	17.34	33.9	91	11.4	5.9	1925	2.78	12.3	0.7	1.5	0.5	49.8	0.23	0.86	0.13	20	8.64	0.125
1096938	Soil			0.61	15.87	33.09	84.0	91	22.0	10.8	1580	4.48	17.9	0.9	1.3	3.7	14.2	0.24	1.01	0.32	35	0.71	0.045
1096939	Soil			0.70	15.81	33.95	87.7	83	20.2	9.1	1529	4.72	17.1	1.0	1.3	2.9	21.7	0.35	1.09	0.30	35	1.28	0.078
1096940	Soil			0.61	18.22	31.50	88.0	97	20.3	9.3	1341	4.42	17.4	1.0	1.5	2.3	29.9	0.37	1.17	0.30	30	2.15	0.085
1096941	Soil			0.50	19.32	36.43	117.9	61	20.5	8.9	786	3.83	14.8	0.8	1.0	3.2	25.5	0.30	0.72	0.32	21	0.76	0.043
1096942	Soil			0.41	17.37	31.68	107.8	116	18.6	7.5	1102	3.61	13.4	1.2	1.4	2.0	55.7	0.21	0.74	0.23	15	3.82	0.101
1096943	Soil			0.40	19.45	25.48	87.0	114	20.6	9.5	538	2.91	11.6	0.8	2.1	3.3	48.1	0.18	0.62	0.26	16	2.53	0.068
1096960	Soil			0.76	24.99	26.88	82.6	155	19.3	13.1	673	3.53	8.1	0.6	0.8	0.8	11.5	0.11	0.62	0.35	29	0.06	0.080
1096961	Soil			0.68	26.21	29.46	88.3	54	26.0	12.2	294	4.28	9.4	0.4	1.0	2.2	10.8	0.11	0.50	0.38	29	0.06	0.044
1096962	Soil			0.82	28.92	32.86	86.8	132	30.6	14.5	612	4.24	11.0	0.8	1.2	3.4	21.8	0.11	0.61	0.38	28	0.21	0.060
1096963	Soil			0.87	53.54	82.47	163.6	393	79.0	40.4	740	5.59	35.8	0.8	<0.2	3.6	88.9	0.17	0.96	0.54	18	1.51	0.048
1096964	Soil			0.61	39.57	37.33	113.3	209	33.8	14.4	305	3.61	14.7	0.7	1.3	2.8	63.8	0.14	0.62	0.40	16	0.80	0.066
1096965	Soil			1.45	50.98	35.38	85.3	222	32.2	20.3	544	2.89	18.3	1.5	5.0	3.0	84.1	0.22	1.79	0.46	14	1.84	0.066
1096966	Soil			0.49	35.83	46.94	83.8	195	29.3	22.0	1215	4.18	13.4	0.4	1.0	3.0	29.1	0.08	0.37	0.58	18	0.07	0.042
1096967	Soil			0.85	37.30	24.33	103.6	271	32.4	13.8	442	3.63	12.8	1.6	7.7	3.0	70.2	0.31	0.94	0.43	23	1.01	0.090
1096968	Soil			0.73	40.44	22.39	112.0	62	33.2	15.8	508	2.89	18.8	0.8	4.3	5.1	43.4	0.25	0.89	0.27	20	1.20	0.059
1096969	Soil			1.20	30.98	24.36	77.9	192	27.7	12.2	514	2.95	16.3	1.9	2.9	3.1	41.2	0.28	0.79	0.27	29	0.91	0.039
1096970	Soil			0.68	37.29	26.70	68.9	84	30.5	12.4	378	3.17	9.6	0.9	<0.2	4.0	47.1	0.13	0.51	0.29	23	0.97	0.054
1096971	Soil			0.48	29.75	23.25	73.8	109	30.4	13.2	372	3.11	10.2	0.8	<0.2	5.3	54.4	0.11	0.60	0.30	19	1.24	0.045
1096972	Soil			0.45	28.56	15.34	74.3	112	23.3	9.2	214	2.25	8.5	1.3	<0.2	2.2	90.1	0.15	0.58	0.21	16	1.68	0.062
1096973	Soil			0.43	34.13	18.93	83.6	140	28.4	11.6	271	2.73	10.5	1.7	1.2	3.4	73.3	0.13	0.74	0.26	17	1.34	0.048
1096974	Soil			0.83	33.26	30.28	84.4	357	29.4	21.3	1104	4.06	12.4	1.2	<0.2	3.2	118.3	0.23	0.58	0.23	16	1.93	0.147
1096975	Soil			1.01	23.70	39.31	64.8	207	24.8	14.8	844	3.18	9.0	1.4	<0.2	1.6	112.9	0.22	0.46	0.21	12	1.93	0.138
1096976	Soil			1.32	24.20	40.59	116.0	69	18.1	15.9	1611	3.31	12.4	0.5	<0.2	0.8	23.2	0.34	0.61	0.37	22	0.18	0.086
1096977	Soil			0.75	53.14	65.98	132.8	208	53.4	27.8	1935	5.83	17.5	0.7	0.2	7.3	16.2	0.11	0.38	0.47	20	0.11	0.045
1096978	Soil			0.60	23.29	26.55	66.2	112	20.3	9.8	661	3.09	12.0	0.8	<0.2	2.3	41.7	0.16	0.87	0.28	23	0.75	0.094
1096979	Soil			0.79	47.71	65.70	145.1	367	51.2	29.0	560	4.54	31.1	0.7	0.4	2.7	108.1	0.16	0.71	0.39	18	1.50	0.072



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 27, 2011

Page: 7 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1096934	Soil	5.6	26.5	0.38	134.2	0.003	4	1.59	0.005	0.11	<0.1	3.3	0.12	<0.02	65	0.1	0.04	4.9	1.82	<0.1	0.04
1096935	Soil	4.9	9.4	7.50	94.0	0.003	4	0.67	0.012	0.03	<0.1	0.7	0.07	0.07	62	0.4	<0.02	1.2	0.31	<0.1	<0.02
1096936	Soil	5.6	10.0	7.22	59.2	0.003	4	0.63	0.009	0.03	<0.1	0.9	0.10	0.05	55	0.4	<0.02	1.3	0.33	<0.1	<0.02
1096937	Soil	7.7	14.2	6.39	82.6	0.005	4	0.84	0.011	0.04	<0.1	1.4	0.09	0.06	65	0.4	<0.02	1.7	0.50	<0.1	<0.02
1096938	Soil	12.5	24.9	0.50	116.4	0.004	3	1.55	0.006	0.09	<0.1	4.8	0.15	0.03	81	0.3	0.05	4.3	0.96	<0.1	0.10
1096939	Soil	14.6	25.5	0.75	123.1	0.005	4	1.58	0.007	0.09	0.1	4.4	0.13	0.04	89	0.4	0.04	4.3	0.98	<0.1	0.07
1096940	Soil	12.8	21.4	1.15	115.2	0.005	4	1.41	0.007	0.08	<0.1	3.7	0.14	0.05	87	0.4	0.06	3.8	1.14	<0.1	0.05
1096941	Soil	10.0	16.2	0.32	101.4	0.001	3	1.10	0.003	0.09	<0.1	3.9	0.13	0.03	101	0.3	0.04	2.9	0.69	<0.1	0.05
1096942	Soil	9.4	13.6	1.82	98.6	<0.001	4	0.95	0.006	0.08	<0.1	3.6	0.11	0.05	158	0.4	0.02	2.0	0.83	<0.1	0.04
1096943	Soil	7.6	13.5	1.18	84.2	0.003	4	0.84	0.007	0.09	<0.1	3.3	0.10	0.03	143	0.3	0.02	2.3	1.05	<0.1	0.04
1096960	Soil	4.9	18.1	0.16	73.0	0.004	2	1.10	0.003	0.08	<0.1	1.3	0.11	0.05	47	0.3	0.04	4.5	2.69	<0.1	<0.02
1096961	Soil	4.0	27.1	0.32	81.6	0.003	2	1.70	0.002	0.08	<0.1	2.1	0.11	<0.02	49	0.2	0.02	5.5	3.75	<0.1	0.03
1096962	Soil	8.7	22.8	0.30	99.0	0.004	2	1.52	0.003	0.09	<0.1	3.6	0.12	<0.02	63	0.3	0.04	4.2	2.59	<0.1	0.03
1096963	Soil	6.2	20.0	0.37	91.3	0.002	3	1.26	0.005	0.08	<0.1	7.8	0.20	0.08	290	0.8	0.10	3.5	5.81	<0.1	0.10
1096964	Soil	5.6	17.1	0.28	67.4	0.002	3	0.93	0.004	0.08	<0.1	5.3	0.11	0.04	119	0.4	0.06	2.7	3.26	<0.1	0.06
1096965	Soil	7.0	15.6	0.70	159.6	0.001	5	1.03	0.005	0.10	<0.1	5.6	0.12	0.06	325	0.5	0.09	2.7	3.31	<0.1	0.13
1096966	Soil	5.6	19.2	0.27	45.1	0.002	2	1.25	0.002	0.08	<0.1	2.5	0.09	<0.02	36	0.3	0.07	3.6	6.87	<0.1	0.03
1096967	Soil	21.4	29.3	0.82	246.1	0.002	5	1.22	0.006	0.12	<0.1	7.3	0.15	0.07	171	1.4	0.02	3.4	3.84	<0.1	0.09
1096968	Soil	23.2	25.5	0.58	315.7	0.002	7	0.72	0.005	0.12	<0.1	6.2	0.13	0.05	62	1.5	0.04	2.3	1.59	<0.1	0.13
1096969	Soil	13.7	27.5	0.28	120.3	0.002	3	0.90	0.003	0.09	<0.1	5.0	0.13	0.03	230	1.1	0.06	2.7	0.88	<0.1	0.10
1096970	Soil	16.8	34.6	0.69	167.3	0.002	3	1.53	0.006	0.09	<0.1	6.8	0.11	0.05	90	1.5	0.05	4.3	1.83	<0.1	0.09
1096971	Soil	11.2	25.7	0.65	107.0	0.002	3	1.13	0.004	0.10	<0.1	4.9	0.09	0.03	97	0.7	0.06	3.3	1.43	<0.1	0.07
1096972	Soil	7.5	20.8	0.49	97.9	0.003	5	0.89	0.007	0.08	<0.1	3.6	0.08	0.06	154	1.2	0.06	2.7	2.07	<0.1	0.06
1096973	Soil	7.5	22.5	0.48	136.9	0.002	6	1.17	0.004	0.10	<0.1	4.5	0.10	0.05	180	1.1	0.02	3.5	2.34	<0.1	0.10
1096974	Soil	10.2	17.4	0.22	123.5	0.002	4	1.10	0.009	0.07	<0.1	8.3	0.13	0.13	62	1.1	0.07	2.9	1.68	<0.1	0.12
1096975	Soil	7.8	14.6	0.16	132.3	0.003	5	0.69	0.009	0.07	<0.1	3.3	0.07	0.14	78	0.9	0.06	2.0	2.01	<0.1	0.06
1096976	Soil	3.7	19.3	0.14	80.4	0.004	3	0.81	0.006	0.07	<0.1	2.0	0.12	0.07	37	0.5	0.09	3.7	4.13	<0.1	<0.02
1096977	Soil	8.2	33.7	0.45	156.8	0.002	3	1.96	<0.001	0.08	<0.1	7.5	0.13	<0.02	352	0.7	0.08	5.0	5.91	<0.1	0.06
1096978	Soil	5.1	18.7	0.14	108.1	0.002	2	1.11	0.003	0.10	<0.1	2.9	0.09	0.06	160	0.4	0.06	3.6	1.38	<0.1	0.05
1096979	Soil	6.4	19.3	0.34	96.0	0.002	5	1.31	0.004	0.08	<0.1	9.3	0.11	0.07	95	1.0	0.08	3.7	5.91	<0.1	0.09



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 27, 2011

Page: 7 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1096934	Soil	0.40	15.2	3.8	<0.05	2.2	3.90	16.0	0.04	1	0.9	47.5	<10	<2
1096935	Soil	0.08	3.5	4.3	<0.05	0.5	5.93	10.8	<0.02	<1	0.4	3.4	<10	<2
1096936	Soil	0.07	3.5	5.2	<0.05	0.7	7.18	11.3	<0.02	<1	0.5	4.3	<10	<2
1096937	Soil	0.13	5.1	4.2	<0.05	0.5	7.36	15.0	<0.02	<1	0.5	6.1	<10	<2
1096938	Soil	0.28	10.6	2.7	<0.05	2.3	11.55	25.1	0.04	1	1.1	15.8	<10	<2
1096939	Soil	0.38	11.3	4.1	<0.05	2.1	13.73	27.5	0.04	<1	1.0	15.3	<10	<2
1096940	Soil	0.38	11.9	0.9	<0.05	1.6	12.21	24.3	0.03	<1	0.9	16.0	<10	<2
1096941	Soil	0.16	8.1	1.2	<0.05	1.5	10.85	22.9	0.03	<1	0.8	12.2	<10	<2
1096942	Soil	0.10	6.6	2.9	<0.05	1.3	13.07	22.1	0.03	1	0.7	10.6	<10	<2
1096943	Soil	0.26	7.0	0.4	<0.05	1.7	8.54	18.2	0.03	<1	0.8	15.3	<10	<2
1096960	Soil	0.27	12.0	0.7	<0.05	0.3	3.69	12.6	0.03	<1	0.7	16.2	<10	<2
1096961	Soil	0.29	11.9	2.0	<0.05	0.9	2.74	11.1	0.04	<1	0.9	42.2	<10	<2
1096962	Soil	0.28	11.1	0.6	<0.05	0.8	10.13	28.2	0.04	<1	1.1	30.5	<10	<2
1096963	Soil	0.17	8.9	4.2	<0.05	2.6	20.01	19.6	0.06	<1	1.2	36.7	<10	<2
1096964	Soil	0.14	6.9	2.7	<0.05	2.0	13.72	14.3	0.05	<1	1.1	26.5	<10	<2
1096965	Soil	0.10	7.3	1.1	<0.05	3.6	17.86	18.1	0.04	<1	1.2	28.9	<10	<2
1096966	Soil	0.17	10.8	1.5	<0.05	0.8	3.33	13.3	0.04	<1	1.1	33.8	<10	<2
1096967	Soil	0.15	10.9	2.4	<0.05	2.9	19.56	42.0	0.05	<1	1.3	27.9	<10	<2
1096968	Soil	0.15	8.6	1.5	<0.05	4.2	13.74	47.7	0.06	<1	1.2	10.9	<10	<2
1096969	Soil	0.16	7.6	2.2	<0.05	2.8	14.08	31.2	0.05	2	1.4	13.2	<10	<2
1096970	Soil	0.31	9.2	2.4	<0.05	3.4	20.88	33.3	0.04	<1	1.0	32.2	<10	<2
1096971	Soil	0.22	7.3	0.4	<0.05	3.0	11.46	26.8	0.03	<1	1.1	31.2	<10	<2
1096972	Soil	0.25	7.3	0.4	<0.05	2.5	8.94	16.8	0.03	<1	0.8	21.7	<10	<2
1096973	Soil	0.22	8.8	0.5	<0.05	3.5	9.30	16.9	0.03	<1	0.6	29.4	<10	<2
1096974	Soil	0.19	6.4	0.8	<0.05	2.8	33.16	33.2	0.05	1	1.5	23.7	<10	<2
1096975	Soil	0.26	5.9	6.9	<0.05	1.4	19.23	26.0	<0.02	<1	0.9	13.2	<10	<2
1096976	Soil	0.34	11.6	4.5	<0.05	0.3	3.93	12.3	<0.02	<1	0.5	15.8	<10	<2
1096977	Soil	0.12	10.0	7.4	<0.05	2.3	13.44	34.9	0.03	<1	2.4	58.8	<10	<2
1096978	Soil	0.30	11.4	0.9	<0.05	1.5	7.66	13.6	0.04	<1	1.2	17.5	<10	<2
1096979	Soil	0.24	9.2	1.7	<0.05	1.7	21.89	19.8	0.04	<1	1.6	43.6	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 27, 2011

Page: 8 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1096980	Soil			0.45	32.51	20.73	102.1	67	25.4	10.6	270	3.33	11.0	0.5	<0.2	3.0	36.8	0.09	0.31	0.33	18	0.36	0.033
1096981	Soil			0.62	20.62	25.29	73.2	97	19.9	9.3	443	3.35	10.9	0.5	<0.2	2.6	14.0	0.09	0.42	0.31	25	0.15	0.056
1096982	Soil			0.58	33.14	39.47	88.9	197	34.2	19.1	854	3.83	16.0	0.7	<0.2	3.0	46.1	0.04	0.46	0.35	21	0.26	0.052
1096983	Soil			0.56	42.33	32.00	114.0	193	32.8	12.3	243	3.10	11.7	1.1	<0.2	3.0	66.9	0.15	0.55	0.34	16	1.03	0.077
1096984	Soil			0.90	36.48	20.69	95.8	184	30.4	13.1	483	2.87	16.1	1.3	3.2	3.4	53.1	0.40	1.19	0.24	20	1.20	0.063
1096985	Soil			0.58	57.57	47.19	114.4	105	50.8	24.0	1081	4.09	8.9	1.0	1.6	5.3	40.3	0.20	0.49	0.41	20	0.25	0.043
1096986	Soil			0.44	43.73	27.15	106.6	77	42.3	16.1	552	3.46	10.2	0.7	1.0	4.3	60.4	0.19	0.50	0.34	18	0.77	0.048
1096987	Soil			0.90	35.25	48.42	103.2	235	31.1	28.7	1642	2.66	8.3	0.7	0.2	0.5	62.2	0.68	0.34	0.24	14	1.04	0.162
1096988	Soil			1.05	25.89	36.59	84.6	172	23.9	16.5	1379	3.92	8.0	0.9	0.3	1.1	58.1	0.39	0.36	0.28	25	0.90	0.132
1096989	Soil			0.74	17.51	18.93	57.8	62	16.3	8.0	248	3.64	10.5	0.4	<0.2	1.8	28.0	0.09	0.32	0.25	30	0.37	0.066
1096990	Soil			0.65	25.71	24.56	62.2	241	22.7	12.3	470	3.58	8.0	1.3	0.3	3.5	74.1	0.13	0.28	0.25	20	0.87	0.130
1096991	Soil			0.68	25.47	22.45	72.4	126	23.2	12.9	537	3.30	8.4	1.2	<0.2	3.1	73.7	0.16	0.30	0.25	20	0.99	0.112
1096992	Soil			0.80	24.08	24.67	67.7	100	21.0	15.7	771	3.80	7.0	0.5	<0.2	2.6	34.5	0.14	0.34	0.28	26	0.31	0.079
1096993	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1096994	Soil			0.65	40.25	37.48	76.8	227	33.3	14.1	473	3.81	18.8	0.7	1.0	2.3	99.3	0.09	0.40	0.33	17	0.91	0.059
1096995	Soil			0.68	23.90	28.46	77.5	197	23.0	13.7	628	3.58	12.1	0.4	<0.2	2.2	29.3	0.08	0.41	0.31	25	0.25	0.062
1096996	Soil			0.55	32.41	29.43	83.9	106	27.1	15.6	842	3.82	12.9	0.6	<0.2	4.0	26.2	0.08	0.51	0.31	20	0.21	0.043
1096997	Soil			0.48	19.64	11.32	29.9	146	14.6	6.3	384	1.50	6.1	0.8	<0.2	0.5	273.3	0.11	0.23	0.14	9	3.69	0.071
1096998	Soil			0.44	30.71	25.59	67.5	183	27.3	12.5	365	3.16	10.5	0.8	0.6	3.6	104.9	0.10	0.33	0.27	15	1.34	0.039
1096999	Soil			0.17	10.58	25.72	32.7	60	7.9	3.9	1222	1.85	44.5	0.9	2.5	0.4	102.7	0.12	2.48	0.12	8	15.50	0.074
1097000	Soil			0.51	7.61	29.54	28.7	104	9.1	4.1	1637	2.30	18.5	0.9	2.6	0.6	45.5	0.21	1.19	0.27	13	11.03	0.116
1097484	Soil			0.80	25.62	24.60	64.0	143	22.3	11.4	395	3.71	7.3	0.8	<0.2	1.1	24.0	0.15	0.41	0.27	22	0.30	0.103
1097485	Soil			0.81	31.42	28.74	86.9	247	32.6	11.8	481	3.78	12.3	1.1	<0.2	2.0	71.1	0.21	0.41	0.34	16	1.11	0.090
1097486	Soil			0.73	28.46	37.43	87.6	105	22.2	17.1	717	4.26	9.1	0.5	<0.2	2.1	12.7	0.21	0.41	0.36	24	0.11	0.099
1097487	Soil			0.58	25.45	21.94	71.9	133	22.2	12.0	482	3.61	5.3	0.6	3.3	2.9	22.0	0.15	0.35	0.34	22	0.21	0.079
1097488	Soil			0.65	19.15	19.16	73.9	80	18.6	8.3	372	2.76	6.4	1.0	2.6	1.4	41.2	0.25	0.42	0.31	27	0.36	0.073
1097489	Soil			0.61	24.27	28.32	69.3	91	22.8	13.2	559	3.39	8.1	0.6	1.5	2.7	144.8	0.21	0.41	0.33	24	1.05	0.059
1097490	Soil			0.56	29.72	31.84	72.5	121	27.8	15.8	480	3.45	8.8	1.0	1.8	4.2	78.1	0.09	0.52	0.35	18	0.75	0.052
1097491	Soil			0.42	36.06	22.70	78.4	140	31.0	12.1	238	2.88	7.2	0.6	1.8	3.1	92.4	0.09	0.42	0.33	15	1.36	0.047
1097492	Soil			0.36	22.52	18.64	54.3	50	18.9	8.4	184	2.23	2.2	0.8	2.8	2.9	84.1	0.13	0.25	0.25	15	1.44	0.051



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 8 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1096980	Soil	4.4	16.2	0.13	44.7	0.001	2	0.65	0.002	0.07	<0.1	3.7	0.05	0.03	106	0.3	0.03	2.3	1.04	<0.1	0.05
1096981	Soil	6.7	14.6	0.14	97.7	0.002	3	1.10	0.003	0.08	<0.1	2.9	0.09	<0.02	71	0.3	0.08	3.6	1.37	<0.1	0.03
1096982	Soil	7.6	16.9	0.19	77.3	0.002	2	0.86	0.004	0.09	<0.1	4.3	0.09	0.02	105	0.5	0.05	2.5	2.37	<0.1	0.04
1096983	Soil	5.8	18.6	0.26	70.3	0.002	4	0.97	0.006	0.09	<0.1	6.1	0.09	0.05	97	0.7	0.06	2.9	3.37	<0.1	0.07
1096984	Soil	20.4	25.0	0.66	247.4	0.002	6	0.87	0.005	0.12	<0.1	6.0	0.11	0.05	195	1.6	0.02	2.5	1.61	<0.1	0.09
1096985	Soil	7.4	39.5	1.16	104.0	0.003	3	2.07	0.002	0.13	<0.1	8.9	0.15	0.02	42	0.5	0.03	5.8	3.94	<0.1	0.14
1096986	Soil	8.4	32.7	1.12	88.1	0.003	3	1.49	0.003	0.10	<0.1	6.6	0.07	0.03	78	0.4	0.05	4.4	1.89	<0.1	0.08
1096987	Soil	4.5	17.5	0.20	187.2	0.007	6	0.93	0.011	0.13	<0.1	2.0	0.10	0.14	51	0.9	0.05	2.7	3.21	<0.1	<0.02
1096988	Soil	5.7	22.6	0.20	139.1	0.006	3	1.30	0.006	0.08	<0.1	2.7	0.10	0.08	53	0.6	0.06	3.8	2.91	<0.1	<0.02
1096989	Soil	3.9	21.4	0.24	112.0	0.003	2	1.47	0.004	0.08	<0.1	2.5	0.09	0.03	18	0.2	0.08	4.7	1.79	<0.1	0.03
1096990	Soil	12.1	22.9	0.24	102.8	0.002	2	1.57	0.004	0.08	<0.1	7.2	0.10	0.06	34	0.7	0.05	4.1	2.08	<0.1	0.04
1096991	Soil	7.4	22.7	0.28	120.4	0.002	2	1.32	0.003	0.09	<0.1	6.9	0.05	0.05	19	0.6	0.02	3.9	1.96	<0.1	0.04
1096992	Soil	5.0	23.5	0.26	153.1	0.004	2	1.58	0.004	0.13	<0.1	4.3	0.09	0.04	15	0.4	0.05	5.0	2.48	<0.1	0.05
1096993	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1096994	Soil	6.5	22.5	0.35	132.1	0.002	7	1.32	0.005	0.09	<0.1	8.0	0.12	0.06	141	1.1	0.03	3.8	6.99	<0.1	0.06
1096995	Soil	4.3	23.5	0.30	83.2	0.004	3	1.42	0.002	0.12	<0.1	3.3	0.11	0.02	33	0.2	<0.02	4.6	4.37	<0.1	0.04
1096996	Soil	7.2	20.9	0.32	71.1	0.003	3	1.44	0.002	0.11	<0.1	6.0	0.09	<0.02	151	0.4	0.04	3.8	2.89	<0.1	0.04
1096997	Soil	4.3	11.4	0.22	75.1	0.003	9	0.63	0.010	0.05	<0.1	2.1	0.06	0.16	97	0.8	<0.02	1.5	1.36	<0.1	0.03
1096998	Soil	10.0	16.9	0.29	93.6	0.002	4	1.04	0.006	0.09	<0.1	6.8	0.10	0.04	154	0.8	0.03	2.9	1.27	<0.1	0.04
1096999	Soil	3.4	7.4	7.75	55.9	0.003	2	0.24	0.009	0.02	0.1	1.4	0.06	<0.02	176	0.3	0.05	0.5	0.22	<0.1	0.06
1097000	Soil	7.8	10.4	5.87	62.7	0.004	5	0.56	0.011	0.07	<0.1	1.3	0.08	0.05	181	0.3	0.04	1.3	0.80	<0.1	0.03
1097484	Soil	4.3	17.2	0.18	115.4	0.003	3	0.88	0.003	0.09	<0.1	2.7	0.09	0.05	32	0.3	0.02	2.8	1.92	<0.1	0.03
1097485	Soil	11.2	15.8	0.22	93.3	0.003	2	1.04	0.004	0.08	<0.1	5.9	0.11	0.06	63	0.8	0.09	2.4	1.37	<0.1	0.06
1097486	Soil	3.2	21.5	0.20	79.6	0.003	2	1.37	0.002	0.11	<0.1	3.6	0.10	0.04	22	0.5	0.07	4.2	2.88	<0.1	0.04
1097487	Soil	4.3	20.2	0.29	85.3	0.001	2	1.25	0.002	0.14	<0.1	3.5	0.09	<0.02	29	0.2	0.10	3.5	1.26	<0.1	0.04
1097488	Soil	5.6	20.1	0.32	95.3	0.005	2	1.16	0.003	0.10	<0.1	2.1	0.09	0.04	24	0.2	0.08	3.9	1.44	<0.1	<0.02
1097489	Soil	7.8	21.0	0.29	103.3	0.002	2	1.51	0.005	0.07	<0.1	5.7	0.12	0.05	31	0.1	0.06	4.1	1.20	<0.1	0.03
1097490	Soil	7.4	21.3	0.34	123.6	0.001	3	1.47	0.003	0.09	<0.1	6.9	0.11	0.05	86	0.3	0.07	3.4	1.88	<0.1	0.05
1097491	Soil	4.5	17.2	0.31	77.0	0.001	3	0.90	0.004	0.09	<0.1	4.4	0.10	0.04	91	0.5	0.08	2.6	1.49	<0.1	0.05
1097492	Soil	4.2	15.9	0.25	68.1	0.002	5	0.91	0.007	0.10	<0.1	4.0	0.09	0.10	79	0.2	0.07	2.5	1.23	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 27, 2011

Page: 8 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1096980	Soil	0.13	6.0	0.7	<0.05	1.1	3.71	11.1	0.05	2	0.7	11.8	<10	<2
1096981	Soil	0.27	9.7	0.7	<0.05	1.2	7.25	16.6	0.03	<1	0.8	15.0	<10	<2
1096982	Soil	0.13	7.8	2.6	<0.05	1.0	15.34	19.5	0.02	<1	1.4	20.0	<10	<2
1096983	Soil	0.24	8.6	1.2	<0.05	2.6	14.44	17.5	0.04	<1	1.2	27.9	<10	<2
1096984	Soil	0.14	8.4	1.3	<0.05	3.2	13.79	43.3	0.04	<1	1.1	18.8	<10	<2
1096985	Soil	0.17	12.8	2.8	<0.05	4.6	15.84	19.7	0.04	<1	1.7	66.1	<10	<2
1096986	Soil	0.18	6.8	1.0	<0.05	2.9	10.05	18.4	0.03	1	1.1	49.4	<10	<2
1096987	Soil	0.30	12.4	8.8	<0.05	0.7	6.42	12.4	0.03	<1	0.6	17.1	<10	3
1096988	Soil	0.46	14.6	3.2	<0.05	0.6	9.12	15.8	0.03	<1	1.3	25.5	<10	<2
1096989	Soil	0.43	15.8	1.0	<0.05	0.8	2.66	9.1	0.04	<1	0.6	41.7	<10	2
1096990	Soil	0.27	12.2	0.6	<0.05	1.2	24.19	34.8	0.05	<1	1.5	35.5	<10	<2
1096991	Soil	0.27	11.2	1.9	<0.05	1.3	15.45	22.6	0.03	<1	1.0	34.3	<10	<2
1096992	Soil	0.46	15.3	0.9	<0.05	1.5	6.71	16.0	0.05	<1	0.8	35.1	<10	<2
1096993	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1096994	Soil	0.28	16.2	5.3	<0.05	1.8	16.41	18.2	0.03	<1	1.4	48.5	<10	<2
1096995	Soil	0.27	18.8	2.1	<0.05	1.2	3.45	11.1	0.04	<1	0.9	42.7	<10	<2
1096996	Soil	0.20	9.9	2.0	<0.05	1.3	10.13	16.1	0.03	<1	1.4	39.5	<10	<2
1096997	Soil	0.16	5.7	1.3	<0.05	1.0	7.98	11.1	<0.02	<1	1.0	15.4	<10	<2
1096998	Soil	0.28	8.2	2.0	<0.05	2.3	16.40	25.6	0.03	<1	0.8	26.0	<10	<2
1096999	Soil	0.07	1.6	1.3	<0.05	0.6	5.05	6.7	<0.02	<1	0.5	2.0	<10	<2
1097000	Soil	0.11	6.0	6.8	<0.05	1.1	8.12	13.7	0.04	4	0.6	3.9	<10	<2
1097484	Soil	0.27	12.4	1.9	<0.05	0.5	6.04	17.0	0.03	<1	0.7	13.9	<10	<2
1097485	Soil	0.27	8.6	0.9	<0.05	1.9	21.49	26.5	0.04	<1	1.1	17.4	<10	<2
1097486	Soil	0.35	15.2	2.1	<0.05	1.3	4.83	10.2	0.03	1	0.9	29.7	<10	<2
1097487	Soil	0.15	9.1	1.8	<0.05	1.1	7.70	11.9	0.06	<1	0.8	29.2	<10	<2
1097488	Soil	0.43	12.8	2.3	<0.05	0.6	3.36	12.3	0.03	<1	0.6	25.6	<10	<2
1097489	Soil	0.34	8.6	1.0	<0.05	1.4	14.28	25.1	0.04	<1	1.1	29.7	<10	<2
1097490	Soil	0.20	8.4	2.5	<0.05	2.1	21.11	21.1	0.05	<1	1.2	36.3	<10	<2
1097491	Soil	0.16	7.5	1.2	<0.05	2.2	9.98	11.7	0.03	<1	0.9	23.9	<10	2
1097492	Soil	0.19	11.3	2.1	<0.05	2.3	9.00	11.1	0.03	<1	0.8	20.0	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 27, 2011

Page: 9 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1097493	Soil			1.03	24.32	32.70	69.4	172	14.8	11.0	594	3.05	6.5	1.2	1.4	0.3	10.7	0.12	0.50	0.37	29	0.11	0.143
1097494	Soil			1.61	23.69	48.06	93.8	159	28.0	11.2	428	2.86	13.5	2.2	2.5	1.5	99.0	0.30	0.50	0.26	15	1.47	0.158
1097495	Soil			1.11	37.26	54.88	104.0	56	27.1	24.3	887	3.61	12.3	0.9	1.0	1.8	10.1	0.10	0.59	0.43	29	0.03	0.066
1097496	Soil			0.85	40.15	49.85	104.6	68	32.9	18.4	666	4.04	9.2	0.8	1.4	1.8	19.7	0.12	0.55	0.45	28	0.04	0.059
1097497	Soil			0.81	30.22	42.84	88.5	216	33.6	16.6	637	4.08	13.2	1.3	1.4	2.5	43.4	0.15	0.56	0.37	18	0.37	0.071
1097498	Soil			0.59	40.15	38.52	90.3	214	41.4	19.2	324	4.48	37.1	1.0	0.9	1.7	30.3	0.11	0.91	0.44	16	0.30	0.052
1097499	Soil			0.79	23.23	36.54	87.9	53	20.6	9.4	382	2.76	7.9	0.4	0.8	0.3	19.0	0.09	0.38	0.35	19	0.23	0.106
1097500	Soil			1.18	45.31	70.32	125.9	85	34.2	17.9	346	5.27	41.9	0.6	0.9	2.9	19.5	0.07	1.07	0.47	20	0.02	0.042
1097435	Soil			0.86	49.19	70.31	113.1	127	38.9	28.1	1597	4.78	13.1	1.0	0.7	4.5	40.2	0.12	0.55	0.51	24	0.40	0.099
1097436	Soil			1.12	31.41	51.54	69.2	398	24.4	22.5	1424	3.47	7.8	1.9	1.7	2.5	128.2	0.22	0.43	0.28	16	1.97	0.198
1097437	Soil			0.66	34.06	43.62	108.0	114	28.8	23.3	1487	4.08	6.4	0.7	0.7	4.2	30.4	0.17	0.34	0.31	26	0.38	0.102
1097438	Soil			0.80	26.43	48.25	80.7	145	21.5	19.7	1686	4.49	12.0	1.0	0.5	2.2	80.7	0.20	0.64	0.29	19	1.25	0.180
1097439	Soil			0.57	62.38	59.12	119.9	162	43.4	25.5	388	4.07	10.9	0.8	2.0	5.5	68.4	0.11	0.37	0.62	25	0.66	0.060
1097440	Soil			0.54	33.52	35.64	93.2	126	31.9	15.2	745	3.92	10.3	1.2	0.8	2.1	57.5	0.35	0.43	0.40	22	0.83	0.071
1097441	Soil			0.66	33.56	45.62	97.2	181	39.4	20.4	613	4.38	17.0	0.8	1.5	4.9	28.6	0.06	0.50	0.40	21	0.21	0.028
1097442	Soil			0.58	25.53	29.93	73.8	78	21.9	11.8	562	3.61	7.9	0.5	0.8	1.4	29.5	0.12	0.46	0.35	22	0.28	0.095
1097443	Soil			0.60	24.46	27.43	71.0	140	23.6	13.3	490	3.32	7.1	0.4	0.5	1.6	19.5	0.20	0.51	0.28	19	0.15	0.062
1097444	Soil			0.62	22.07	25.26	77.4	76	22.1	9.2	262	3.92	8.8	0.5	0.6	1.1	13.3	0.07	0.55	0.38	29	0.07	0.052
1096437	Soil			0.68	28.20	30.91	83.3	88	24.6	12.5	454	3.88	8.1	0.7	0.5	1.6	52.4	0.08	0.37	0.35	22	0.65	0.154
1096438	Soil			0.66	33.65	35.95	92.2	122	26.3	17.5	918	3.81	9.8	0.9	0.5	1.5	111.0	0.19	0.45	0.33	20	1.74	0.144
1096439	Soil			0.58	41.55	40.15	95.7	202	33.0	21.0	792	4.02	9.3	1.0	1.3	4.0	54.4	0.13	0.38	0.37	22	0.68	0.079
1096440	Soil			0.70	32.48	43.33	104.7	183	30.6	18.3	1028	4.51	10.0	1.3	1.1	4.4	58.4	0.20	0.49	0.35	24	0.83	0.080
1096441	Soil			0.72	50.97	61.67	144.7	326	46.0	28.6	628	4.40	23.0	0.7	1.6	3.3	85.1	0.16	0.61	0.53	16	1.35	0.080
1096442	Soil			0.86	37.12	40.26	95.7	319	33.0	17.4	545	4.24	10.7	0.9	1.2	3.3	60.9	0.12	0.48	0.31	19	0.79	0.076
1096443	Soil			0.52	34.64	37.85	92.6	140	25.5	12.2	519	4.89	37.8	0.3	0.3	2.2	29.4	0.05	0.77	0.37	23	0.05	0.044
1096444	Soil			0.63	25.70	43.76	131.5	248	19.2	14.3	1107	4.19	7.5	0.3	0.9	1.0	14.9	0.26	0.39	0.45	29	0.03	0.082
1096445	Soil			0.83	38.05	46.21	92.7	101	36.5	26.1	1159	4.01	21.4	0.5	0.8	2.0	27.9	0.09	1.15	0.47	20	0.06	0.053
1096446	Soil			0.70	34.15	48.44	131.6	208	25.1	21.5	1271	4.64	16.9	0.4	0.4	2.5	35.0	0.14	0.87	0.49	32	0.03	0.067
1096447	Soil			0.76	20.45	27.61	86.4	257	17.5	10.9	416	3.59	8.7	0.4	0.3	1.6	18.9	0.23	0.53	0.38	35	0.06	0.042
1096448	Soil			0.70	29.25	44.82	125.4	98	27.7	18.6	754	5.28	8.3	0.6	0.5	3.3	26.1	0.12	0.57	0.45	33	0.07	0.081



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: September 27, 2011

Page: 9 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15							
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf						
			ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm							
			0.5	0.5	0.01	0.5	0.001			1	0.01	0.001	0.01	0.01	0.1	0.1	0.02	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.1	0.02
1097493	Soil		4.6	21.8	0.16	76.5	0.004	2	1.34	0.003	0.08	<0.1	1.3	0.14	0.10	60	0.3	0.09	3.8	5.05	<0.1	<0.02						
1097494	Soil		10.0	17.3	0.17	122.1	0.006	5	0.75	0.010	0.09	<0.1	3.4	0.15	0.12	110	0.5	0.09	1.6	2.15	<0.1	0.04						
1097495	Soil		5.8	21.3	0.32	76.3	0.006	3	1.46	0.004	0.11	<0.1	3.3	0.13	0.03	32	0.5	0.09	3.9	7.70	<0.1	<0.02						
1097496	Soil		6.0	21.1	0.23	82.0	0.004	2	1.11	0.003	0.08	<0.1	3.4	0.11	0.03	37	0.3	0.07	2.6	3.73	<0.1	<0.02						
1097497	Soil		8.6	14.5	0.12	91.2	0.002	3	0.70	0.004	0.09	<0.1	4.4	0.14	0.04	92	0.4	0.03	1.6	1.69	<0.1	0.04						
1097498	Soil		5.4	11.1	0.06	64.3	<0.001	1	0.33	0.003	0.07	<0.1	4.7	0.13	0.03	505	0.3	0.08	0.9	1.10	<0.1	0.04						
1097499	Soil		2.6	14.2	0.05	64.3	0.002	2	0.40	0.005	0.10	<0.1	1.3	0.09	0.08	35	0.2	0.12	2.0	2.86	<0.1	<0.02						
1097500	Soil		3.3	17.8	0.14	62.9	0.001	2	1.10	0.006	0.09	<0.1	3.7	0.13	0.05	68	0.4	0.11	2.6	6.57	<0.1	<0.02						
1097435	Soil		5.4	29.1	0.38	121.8	0.002	3	2.05	0.002	0.09	<0.1	7.3	0.19	0.05	49	0.2	0.10	5.3	8.71	<0.1	0.12						
1097436	Soil		13.5	21.0	0.30	123.5	0.002	4	1.15	0.007	0.08	<0.1	5.6	0.12	0.17	68	0.3	0.05	3.0	2.67	<0.1	0.06						
1097437	Soil		6.1	29.4	0.35	119.8	0.005	3	1.77	0.004	0.12	<0.1	6.4	0.12	0.06	50	0.2	0.05	5.5	5.63	<0.1	0.04						
1097438	Soil		6.8	19.4	0.22	127.3	0.003	3	1.31	0.005	0.09	<0.1	4.8	0.12	0.14	62	0.2	0.09	3.3	2.65	<0.1	0.04						
1097439	Soil		9.0	37.1	0.61	96.5	0.005	4	1.79	0.004	0.12	<0.1	5.4	0.08	0.04	55	0.2	0.06	6.9	3.99	<0.1	0.09						
1097440	Soil		9.2	19.0	0.12	94.1	0.002	2	0.84	0.004	0.08	<0.1	4.6	0.09	0.05	41	0.2	0.08	2.3	1.54	<0.1	0.03						
1097441	Soil		10.6	18.0	0.24	129.8	0.001	2	1.16	0.003	0.09	<0.1	6.3	0.12	<0.02	79	0.2	0.07	2.8	1.81	<0.1	0.04						
1097442	Soil		3.7	16.8	0.16	90.9	0.002	2	0.91	0.004	0.09	<0.1	2.5	0.10	0.05	57	<0.1	0.05	3.0	2.32	<0.1	<0.02						
1097443	Soil		3.5	16.4	0.15	84.6	0.002	1	0.78	0.003	0.08	<0.1	2.1	0.08	0.04	134	0.1	0.06	2.6	1.28	<0.1	<0.02						
1097444	Soil		4.5	20.4	0.25	72.8	0.002	2	1.25	0.002	0.08	<0.1	1.8	0.09	0.02	140	0.1	0.11	4.0	1.44	<0.1	<0.02						
1096437	Soil		5.4	24.9	0.27	88.6	0.002	2	1.39	0.004	0.10	<0.1	3.2	0.11	0.09	44	0.2	0.03	4.5	2.88	<0.1	0.05						
1096438	Soil		6.0	20.0	0.25	116.7	0.002	3	1.20	0.005	0.08	<0.1	3.7	0.11	0.12	65	0.4	0.08	3.8	4.58	<0.1	0.04						
1096439	Soil		8.2	25.1	0.37	128.8	0.002	2	1.56	0.005	0.11	<0.1	7.4	0.13	0.05	50	0.4	0.07	4.8	3.20	<0.1	0.09						
1096440	Soil		11.7	25.5	0.37	116.3	0.003	3	1.58	0.004	0.11	<0.1	8.0	0.14	0.07	53	0.1	0.07	4.5	4.09	<0.1	0.04						
1096441	Soil		7.1	19.6	0.37	117.7	0.001	3	1.22	0.005	0.10	<0.1	7.5	0.16	0.08	92	0.5	0.11	3.2	3.10	<0.1	0.12						
1096442	Soil		6.3	22.0	0.35	78.7	0.002	4	1.26	0.005	0.09	<0.1	6.3	0.12	0.07	56	0.3	0.06	3.5	2.82	<0.1	0.10						
1096443	Soil		3.3	16.1	0.17	35.9	<0.001	2	1.40	0.001	0.06	<0.1	2.6	0.14	0.03	52	0.2	0.07	3.3	3.46	<0.1	0.02						
1096444	Soil		5.2	25.2	0.23	76.8	0.003	2	1.40	0.002	0.10	<0.1	1.3	0.08	0.04	32	0.1	0.08	6.1	3.06	<0.1	<0.02						
1096445	Soil		5.1	18.0	0.18	63.5	<0.001	1	0.80	0.002	0.09	<0.1	2.2	0.11	<0.02	82	0.2	0.16	2.7	3.36	<0.1	<0.02						
1096446	Soil		5.0	26.7	0.38	66.7	0.002	2	1.75	0.002	0.12	<0.1	2.5	0.12	0.02	56	<0.1	0.07	5.6	5.48	<0.1	0.03						
1096447	Soil		6.4	20.1	0.16	131.7	0.004	1	1.04	0.002	0.10	<0.1	1.8	0.09	<0.02	35	0.2	0.11	5.0	1.61	<0.1	<0.02						
1096448	Soil		4.3	28.9	0.38	101.8	<0.001	2	1.93	0.001	0.09	<0.1	2.8	0.13	0.03	58	0.2	0.06	5.3	9.00	<0.1	0.03						



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
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Page: 9 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1097493	Soil	0.28	14.1	1.4	<0.05	0.5	4.94	9.6	0.03	<1	0.6	13.4	<10	<2
1097494	Soil	0.21	8.9	19.3	<0.05	2.2	15.85	25.2	0.06	2	0.7	10.2	<10	<2
1097495	Soil	0.18	14.0	1.3	<0.05	0.8	5.77	13.2	0.05	<1	0.8	28.0	<10	<2
1097496	Soil	0.15	9.5	1.4	<0.05	0.7	6.70	14.3	0.04	<1	1.0	17.5	<10	<2
1097497	Soil	0.13	6.8	1.3	<0.05	1.3	15.86	22.3	0.03	<1	1.2	7.6	<10	<2
1097498	Soil	0.03	5.8	2.3	<0.05	1.3	18.47	15.1	0.04	<1	1.0	2.2	<10	<2
1097499	Soil	0.14	12.5	16.3	<0.05	0.4	2.16	5.5	0.05	<1	0.5	2.1	<10	<2
1097500	Soil	0.09	9.4	1.3	<0.05	1.2	4.31	7.1	0.06	<1	1.1	17.1	<10	<2
1097435	Soil	0.19	13.5	4.1	<0.05	3.7	19.59	23.2	0.06	<1	1.9	50.6	<10	<2
1097436	Soil	0.15	7.4	9.5	<0.05	1.8	40.67	44.1	0.05	<1	1.6	26.4	<10	<2
1097437	Soil	0.28	12.4	6.9	<0.05	1.2	14.59	20.8	0.05	<1	1.2	45.8	<10	<2
1097438	Soil	0.21	9.8	4.1	<0.05	1.0	18.74	26.8	0.05	<1	1.2	20.7	<10	<2
1097439	Soil	0.46	8.5	16.6	<0.05	3.5	15.70	22.3	0.06	<1	2.2	67.7	<10	<2
1097440	Soil	0.22	9.3	3.1	<0.05	0.9	15.49	26.7	0.04	<1	1.1	10.3	<10	<2
1097441	Soil	0.10	7.4	4.4	<0.05	1.4	20.12	34.3	0.04	<1	1.5	26.4	<10	<2
1097442	Soil	0.20	13.3	4.3	<0.05	0.7	4.40	11.1	0.05	<1	0.7	14.1	<10	<2
1097443	Soil	0.20	9.1	2.7	<0.05	0.8	3.49	10.7	0.04	<1	0.6	14.0	<10	<2
1097444	Soil	0.28	12.1	2.1	<0.05	0.3	4.21	11.6	0.05	<1	0.8	25.9	<10	<2
1096437	Soil	0.27	14.3	3.9	<0.05	1.4	10.04	15.4	0.04	<1	1.0	28.3	<10	<2
1096438	Soil	0.26	12.3	2.7	<0.05	1.1	14.55	18.8	0.06	<1	1.1	21.8	<10	<2
1096439	Soil	0.24	9.1	1.1	<0.05	3.5	21.86	23.9	0.06	<1	1.8	41.4	<10	<2
1096440	Soil	0.27	11.3	5.2	<0.05	2.1	26.23	37.4	0.05	1	1.3	35.3	<10	<2
1096441	Soil	0.17	7.1	4.2	<0.05	4.4	22.24	22.0	0.07	1	1.6	33.8	<10	<2
1096442	Soil	0.16	7.4	6.0	<0.05	3.1	20.13	17.2	0.06	<1	1.2	39.9	<10	<2
1096443	Soil	0.10	10.2	3.9	<0.05	1.4	2.55	7.2	0.04	<1	0.9	37.6	<10	<2
1096444	Soil	0.28	20.1	14.4	<0.05	0.5	2.24	10.8	0.04	<1	0.8	26.5	<10	<2
1096445	Soil	0.06	8.3	2.7	<0.05	0.3	5.18	15.2	0.03	<1	1.0	13.9	<10	<2
1096446	Soil	0.19	17.8	7.8	<0.05	1.3	3.37	11.8	0.04	<1	1.1	52.0	<10	<2
1096447	Soil	0.40	18.5	9.6	<0.05	0.2	2.30	12.9	0.03	<1	0.6	20.6	<10	<2
1096448	Soil	0.19	15.9	7.0	<0.05	1.4	4.51	10.9	0.05	<1	1.2	61.8	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 27, 2011

Page: 10 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1096449	Soil			0.58	32.94	32.50	96.8	96	27.7	14.1	347	4.23	13.3	0.5	2.0	2.1	22.6	0.07	0.59	0.52	21	0.09	0.045
1096450	Soil			0.89	25.06	31.22	91.4	62	23.7	14.1	504	5.00	15.7	0.4	1.6	2.1	25.3	0.20	0.74	0.48	32	0.12	0.062
1097058	Soil			0.68	20.02	16.42	71.4	132	17.2	6.8	377	2.56	10.0	2.9	1.7	1.7	59.7	0.29	0.41	0.29	27	0.82	0.090
1097059	Soil			0.63	25.58	20.00	72.6	205	22.5	9.6	386	2.72	13.5	3.4	4.1	2.3	86.4	0.29	0.49	0.28	24	1.15	0.080
1097060	Soil			0.51	24.59	17.23	65.3	259	20.8	8.3	309	2.23	10.4	3.2	4.4	1.7	114.3	0.22	0.48	0.23	19	1.64	0.080
1097061	Soil			0.79	28.77	22.15	68.5	188	24.8	10.0	424	2.78	15.5	2.0	3.6	2.4	78.6	0.28	0.83	0.26	19	1.26	0.079
1097062	Soil			0.63	22.45	21.81	80.1	125	19.9	8.8	366	2.66	14.6	2.2	1.1	1.9	111.0	0.19	0.59	0.29	21	1.33	0.075
1097063	Soil			0.77	24.26	22.56	72.6	198	25.2	9.9	442	3.21	15.3	3.2	1.7	2.8	73.1	0.21	0.63	0.30	20	0.75	0.068
1097064	Soil			0.61	23.71	22.80	58.3	140	20.5	8.9	522	2.77	12.1	3.8	1.5	1.7	85.1	0.16	0.46	0.29	19	1.18	0.094
1097065	Soil			0.66	31.80	32.22	82.7	43	34.4	15.7	843	3.68	13.8	1.0	1.0	5.4	8.8	0.11	0.45	0.34	23	0.04	0.028
1097085	Soil			0.82	22.18	22.79	98.7	85	12.6	7.7	609	4.89	7.1	0.4	<0.2	2.7	8.1	0.11	0.42	0.43	38	0.03	0.063
1097086	Soil			0.88	41.47	62.64	137.6	252	47.1	26.8	1212	5.14	27.7	1.0	1.0	5.3	63.1	0.22	0.70	0.46	21	0.67	0.060
1097087	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097088	Soil			0.64	32.26	39.79	93.6	253	37.2	22.1	667	3.89	11.9	1.3	<0.2	4.8	69.3	0.11	0.51	0.37	22	0.89	0.051
1097241	Soil			0.95	29.48	22.30	66.3	278	25.1	11.3	342	2.82	13.1	2.4	6.1	3.7	73.2	0.20	0.80	0.28	17	1.03	0.049
1097242	Soil			0.83	21.05	17.57	52.9	325	17.5	7.1	201	2.19	8.6	5.6	2.5	1.8	142.2	0.31	0.41	0.21	22	1.81	0.054
1097243	Soil			0.94	34.10	24.20	79.4	383	28.8	13.1	339	2.90	12.7	2.5	6.5	3.9	146.4	0.23	0.82	0.30	21	2.92	0.060
1097244	Soil			1.11	26.51	24.50	67.6	346	24.4	11.5	458	2.87	13.6	3.2	6.4	3.4	119.3	0.25	1.00	0.27	24	1.45	0.037
1097245	Soil			1.47	34.48	22.15	63.3	210	25.0	10.8	390	2.73	16.6	2.7	1.9	1.9	76.8	0.17	1.78	0.32	18	1.08	0.064
1097246	Soil			0.71	51.87	44.34	121.5	289	40.4	27.7	451	4.13	9.4	0.7	0.5	5.3	20.8	0.09	0.48	0.35	27	0.18	0.041
1097247	Soil			0.78	34.41	31.28	68.0	264	22.9	12.3	654	3.22	9.0	2.0	0.5	1.3	143.9	0.12	0.50	0.29	18	1.41	0.125
1097248	Soil			0.86	61.65	66.51	171.8	391	67.2	32.2	547	6.07	29.1	1.2	<0.2	5.1	151.7	0.11	0.70	0.55	16	2.64	0.070
1097249	Soil			0.73	42.09	40.36	115.9	231	35.9	14.9	223	3.60	15.0	0.9	1.1	3.2	65.6	0.13	0.65	0.44	17	0.86	0.072
1097250	Soil			0.29	50.93	36.56	84.6	92	30.6	26.5	983	2.73	9.3	0.6	1.9	3.3	204.0	0.07	0.35	0.45	10	4.67	0.047
1097251	Soil			0.54	25.78	32.94	79.6	160	28.5	13.6	464	3.84	14.4	1.3	1.1	3.3	75.4	0.10	0.41	0.33	20	1.06	0.049
1097252	Soil			0.45	25.46	31.05	87.6	144	23.0	9.5	256	2.68	10.1	1.2	<0.2	2.0	132.7	0.13	0.94	0.28	19	1.74	0.060
1097253	Soil			0.36	30.10	25.57	86.6	125	29.0	12.9	447	2.99	7.9	0.6	0.3	3.7	83.7	0.09	0.33	0.31	17	1.30	0.056
1097254	Soil			0.50	31.60	32.38	82.6	97	28.0	13.8	474	3.23	9.3	0.9	0.7	3.9	57.6	0.07	0.45	0.32	16	0.82	0.039
1097255	Soil			0.37	27.73	17.48	91.4	121	22.9	9.1	347	2.42	6.9	1.5	0.5	0.8	160.5	0.12	0.36	0.25	16	2.65	0.064
1097256	Soil			1.44	33.00	46.10	87.3	154	24.6	13.3	863	4.71	13.2	0.8	<0.2	2.0	26.5	0.17	0.61	0.36	33	0.21	0.080



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: September 27, 2011

Page: 10 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1096449	Soil	4.3	19.5	0.31	38.1	0.002	2	1.26	0.002	0.07	<0.1	2.3	0.08	<0.02	70	0.2	0.05	3.5	6.11	<0.1	0.02
1096450	Soil	3.7	26.0	0.39	65.0	0.003	2	1.73	0.003	0.10	<0.1	2.1	0.09	0.03	72	0.2	0.06	4.9	12.98	<0.1	0.02
1097058	Soil	14.3	24.0	0.39	170.1	0.004	1	1.23	0.002	0.06	<0.1	2.9	0.11	0.06	111	0.3	0.03	3.7	1.26	<0.1	0.05
1097059	Soil	20.8	25.7	0.57	100.8	0.005	2	1.27	0.004	0.07	<0.1	4.4	0.11	0.06	1233	0.6	0.03	3.3	1.59	<0.1	0.07
1097060	Soil	18.4	20.1	0.62	107.1	0.003	3	1.02	0.004	0.07	<0.1	3.1	0.10	0.06	346	0.8	0.02	2.8	0.95	<0.1	0.06
1097061	Soil	20.2	19.8	0.49	90.9	0.003	2	1.14	0.004	0.07	<0.1	3.8	0.10	0.05	455	0.5	0.02	2.9	0.84	<0.1	0.09
1097062	Soil	16.8	18.5	0.34	130.9	0.003	2	1.09	0.003	0.07	<0.1	3.2	0.10	0.05	246	0.3	0.04	3.0	1.04	<0.1	0.05
1097063	Soil	20.4	21.4	0.39	72.5	0.002	2	1.51	0.003	0.07	<0.1	4.8	0.11	0.04	1082	0.3	0.06	3.3	1.55	<0.1	0.07
1097064	Soil	20.1	17.8	0.36	124.7	0.003	2	1.34	0.003	0.05	<0.1	4.1	0.09	0.06	208	0.4	0.04	3.1	1.12	<0.1	0.05
1097065	Soil	6.3	25.0	0.44	81.8	0.002	1	2.35	<0.001	0.06	<0.1	3.2	0.12	<0.02	86	0.2	0.09	3.8	3.08	<0.1	0.14
1097085	Soil	6.1	23.6	0.19	52.2	0.006	2	1.55	0.001	0.09	<0.1	1.9	0.10	0.02	57	0.2	0.08	7.3	3.67	<0.1	<0.02
1097086	Soil	12.8	27.9	0.52	119.9	0.002	2	1.92	0.002	0.09	<0.1	8.6	0.16	0.03	68	0.4	0.08	4.6	3.70	<0.1	0.12
1097087	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097088	Soil	10.3	27.6	0.49	123.4	0.005	3	1.80	0.004	0.11	<0.1	6.8	0.14	0.04	100	0.4	0.05	5.2	4.93	<0.1	0.07
1097241	Soil	13.4	17.4	0.30	105.7	0.002	3	1.00	0.003	0.08	<0.1	4.6	0.10	0.03	310	0.5	0.03	2.7	1.57	<0.1	0.06
1097242	Soil	18.8	19.1	0.38	164.2	0.002	3	0.99	0.004	0.08	<0.1	2.8	0.11	0.06	149	0.6	<0.02	2.8	0.72	<0.1	0.07
1097243	Soil	11.4	21.5	0.94	149.1	0.002	3	1.05	0.004	0.10	<0.1	4.2	0.15	0.03	256	0.8	<0.02	3.2	2.19	<0.1	0.08
1097244	Soil	11.9	20.7	0.32	109.3	0.002	3	1.03	0.004	0.10	<0.1	4.2	0.14	0.04	258	0.5	<0.02	3.0	1.02	<0.1	0.09
1097245	Soil	8.8	15.5	0.24	127.0	0.002	3	1.02	0.004	0.08	<0.1	3.9	0.12	0.07	327	0.5	0.04	2.8	2.24	<0.1	0.05
1097246	Soil	5.7	33.1	0.46	104.8	0.003	2	1.83	0.003	0.07	<0.1	5.1	0.17	0.03	58	0.1	0.03	5.9	7.81	<0.1	0.07
1097247	Soil	7.5	17.6	0.25	126.4	0.003	4	1.05	0.005	0.07	<0.1	3.6	0.10	0.11	124	0.8	0.03	3.2	3.24	<0.1	0.04
1097248	Soil	6.3	20.2	0.41	168.7	0.001	3	1.32	0.007	0.10	<0.1	7.8	0.25	0.09	217	0.8	0.11	3.7	6.19	<0.1	0.08
1097249	Soil	6.6	19.5	0.27	75.5	0.002	4	0.96	0.005	0.10	<0.1	6.0	0.11	0.05	125	0.4	0.05	2.9	3.53	<0.1	0.05
1097250	Soil	6.5	15.7	0.52	191.3	<0.001	4	1.18	0.004	0.09	<0.1	6.4	0.10	0.04	91	0.3	0.08	3.1	4.09	<0.1	0.11
1097251	Soil	10.4	19.8	0.39	103.5	0.002	2	1.25	0.004	0.06	<0.1	5.1	0.11	0.04	160	0.3	0.06	3.3	1.57	<0.1	0.05
1097252	Soil	6.5	18.5	0.33	99.2	0.006	4	1.07	0.007	0.08	<0.1	4.3	0.11	0.07	256	0.5	0.04	3.2	2.32	<0.1	0.06
1097253	Soil	6.6	24.2	0.50	69.9	0.004	4	1.33	0.004	0.10	<0.1	4.8	0.08	0.03	69	0.2	0.04	4.2	2.23	<0.1	0.07
1097254	Soil	5.9	22.1	0.44	67.2	0.002	4	1.33	0.005	0.10	<0.1	4.9	0.08	0.04	65	0.3	0.05	3.9	1.65	<0.1	0.10
1097255	Soil	4.2	20.2	0.40	77.9	0.004	6	1.15	0.005	0.09	<0.1	2.3	0.07	0.09	94	0.4	0.03	3.6	1.75	<0.1	0.05
1097256	Soil	7.6	32.4	0.43	104.9	0.006	3	1.40	0.005	0.08	<0.1	2.6	0.11	0.04	80	0.3	0.08	5.3	5.00	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 27, 2011

Page: 10 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1096449	Soil	0.20	8.5	1.1	<0.05	0.9	3.55	10.3	0.05	<1	1.0	37.8	<10	<2
1096450	Soil	0.37	15.3	2.1	<0.05	0.8	2.75	8.2	0.05	<1	1.2	47.9	<10	<2
1097058	Soil	0.36	10.3	1.3	<0.05	1.7	10.49	27.4	0.04	<1	0.8	18.7	<10	<2
1097059	Soil	0.35	8.4	1.1	<0.05	2.1	17.34	37.3	0.03	<1	1.0	29.4	<10	<2
1097060	Soil	0.27	6.1	1.7	<0.05	2.0	15.22	35.2	0.04	<1	0.9	24.3	<10	<2
1097061	Soil	0.20	5.7	3.0	<0.05	3.3	16.31	37.8	0.03	<1	0.9	23.0	<10	<2
1097062	Soil	0.28	7.7	2.3	<0.05	1.9	13.07	36.5	0.03	<1	0.9	21.5	<10	<2
1097063	Soil	0.21	8.9	2.0	<0.05	2.2	21.15	38.4	0.04	<1	1.3	30.0	<10	<2
1097064	Soil	0.22	7.2	1.6	<0.05	1.6	22.67	42.6	0.04	<1	1.3	22.1	<10	<2
1097065	Soil	0.22	8.9	1.5	<0.05	4.9	5.22	34.8	0.05	<1	1.6	42.6	<10	<2
1097085	Soil	0.48	19.4	2.4	<0.05	1.2	2.52	12.3	0.04	<1	0.4	24.9	<10	<2
1097086	Soil	0.13	8.0	2.8	<0.05	3.8	27.72	40.1	0.06	<1	1.6	57.1	<10	<2
1097087	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1097088	Soil	0.31	12.9	1.9	<0.05	3.2	20.62	28.5	0.06	<1	1.6	55.0	<10	<2
1097241	Soil	0.17	7.3	1.8	<0.05	2.2	12.38	29.4	0.03	<1	1.1	22.3	<10	<2
1097242	Soil	0.30	6.5	0.9	<0.05	2.5	11.54	34.6	0.03	<1	0.9	20.3	<10	<2
1097243	Soil	0.22	7.4	1.4	<0.05	3.8	11.20	24.4	0.03	<1	0.9	29.4	<10	<2
1097244	Soil	0.21	7.8	2.1	<0.05	3.0	11.24	25.9	0.03	<1	0.9	21.6	<10	<2
1097245	Soil	0.20	9.0	1.4	<0.05	1.7	13.20	20.9	0.04	<1	0.9	18.8	<10	<2
1097246	Soil	0.26	10.6	1.2	<0.05	2.0	9.34	33.0	0.05	<1	1.3	51.6	<10	<2
1097247	Soil	0.25	10.8	2.8	<0.05	1.3	19.31	18.4	0.04	<1	1.1	23.7	<10	<2
1097248	Soil	0.08	9.4	2.8	<0.05	3.1	18.30	20.0	0.06	<1	1.3	40.8	<10	<2
1097249	Soil	0.16	7.8	4.2	<0.05	1.9	16.25	18.0	0.05	<1	1.2	26.6	<10	<2
1097250	Soil	0.07	7.7	1.5	<0.05	3.5	21.33	20.3	0.04	<1	1.3	33.3	<10	<2
1097251	Soil	0.21	7.0	3.6	<0.05	2.1	12.60	35.5	0.05	<1	0.9	33.2	<10	<2
1097252	Soil	0.38	10.3	20.6	<0.05	2.2	9.74	15.1	0.05	<1	0.7	26.4	<10	<2
1097253	Soil	0.24	7.4	2.3	<0.05	4.0	10.73	17.1	0.04	<1	1.0	44.0	<10	<2
1097254	Soil	0.17	7.9	12.3	<0.05	3.8	10.80	15.8	0.04	<1	1.0	40.0	<10	<2
1097255	Soil	0.30	9.2	2.3	<0.05	1.9	6.37	10.1	0.03	<1	0.7	31.0	<10	<2
1097256	Soil	0.49	14.5	21.4	<0.05	0.4	5.94	17.4	0.06	<1	0.9	32.8	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 27, 2011

Page: 11 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1097257	Soil	0.63	22.63	17.76	61.9	86	24.5	9.0	264	2.58	8.8	1.0	1.1	3.1	71.3	0.08	0.46	0.24	25	0.59	0.029
1097258	Soil	0.42	28.85	20.32	76.1	156	21.4	10.3	404	2.31	8.1	1.4	0.9	1.6	137.4	0.09	0.41	0.26	17	1.75	0.050
1097259	Soil	0.49	25.80	26.97	127.4	83	27.7	13.6	439	3.10	8.5	1.1	<0.2	2.7	70.7	0.15	0.36	0.33	19	0.84	0.075
1097260	Soil	0.41	24.37	21.74	81.3	102	25.5	10.5	257	3.01	8.3	1.1	0.5	2.7	85.3	0.07	0.33	0.30	19	1.21	0.046
1097261	Soil	0.33	26.94	15.35	87.8	140	24.4	9.2	265	2.21	6.3	2.1	2.7	2.9	62.1	0.16	0.68	0.21	21	1.02	0.073
1097262	Soil	0.67	30.50	16.01	71.3	258	25.5	9.6	305	2.53	11.1	9.5	5.0	1.5	172.4	0.19	1.08	0.22	25	2.45	0.087
1097263	Soil	1.08	29.81	22.47	76.4	359	25.6	10.5	425	2.57	10.6	3.5	8.9	3.3	117.4	0.34	1.93	0.25	21	1.53	0.060
1097264	Soil	0.54	27.67	27.30	82.2	96	32.4	14.6	475	3.48	12.1	1.9	2.3	4.0	47.3	0.27	0.47	0.37	20	0.64	0.057
1097265	Soil	0.48	33.17	15.74	94.6	166	27.0	10.5	305	2.42	11.9	2.3	3.6	2.3	65.0	0.16	0.74	0.26	20	1.10	0.065
1097266	Soil	0.53	25.56	18.03	74.2	79	22.2	8.3	385	2.65	9.9	1.4	0.9	2.3	52.2	0.29	0.37	0.29	20	0.83	0.073
1097267	Soil	3.16	27.57	23.97	78.2	321	22.4	9.2	377	2.80	19.0	1.8	2.2	2.8	38.9	0.32	0.54	0.31	20	0.71	0.064
1097268	Soil	0.64	12.44	29.58	78.3	51	31.2	19.5	675	3.46	11.3	1.3	0.5	4.8	52.3	0.55	0.43	0.27	27	0.64	0.067



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 27, 2011

Page: 11 of 11 Part 2

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097257	Soil	8.3	23.8	0.52	81.4	0.010	3	1.32	0.006	0.08	<0.1	3.4	0.08	0.02	108	0.1	0.04	3.9	1.76	<0.1	0.05
1097258	Soil	5.5	19.7	0.40	101.6	0.003	4	1.26	0.005	0.09	<0.1	3.5	0.09	0.07	110	0.4	0.03	3.6	2.72	<0.1	0.06
1097259	Soil	5.8	24.5	0.50	107.8	0.002	3	1.61	0.003	0.12	<0.1	4.4	0.08	0.05	86	0.2	0.02	4.6	1.95	<0.1	0.10
1097260	Soil	5.0	22.1	0.46	97.3	0.002	4	1.52	0.003	0.11	<0.1	4.2	0.09	0.05	94	0.3	0.06	4.4	2.15	<0.1	0.09
1097261	Soil	17.4	27.6	0.68	166.8	0.004	4	1.30	0.003	0.09	<0.1	4.4	0.11	0.05	240	0.8	0.03	3.6	2.50	<0.1	0.07
1097262	Soil	19.4	27.6	0.84	219.4	0.004	5	1.41	0.004	0.10	<0.1	3.4	0.14	0.08	385	0.9	<0.02	4.3	2.84	<0.1	0.06
1097263	Soil	18.8	21.7	0.54	266.2	0.004	5	1.19	0.005	0.13	<0.1	4.6	0.14	0.04	294	0.7	0.04	3.6	1.39	<0.1	0.08
1097264	Soil	12.5	24.6	0.52	139.3	0.003	2	1.56	0.002	0.08	<0.1	4.7	0.06	<0.02	97	0.3	0.09	4.1	1.88	<0.1	0.07
1097265	Soil	11.6	23.9	0.49	171.4	0.003	3	1.10	0.003	0.08	<0.1	4.3	0.09	0.06	348	1.4	0.07	3.1	2.07	<0.1	0.09
1097266	Soil	14.8	20.7	0.42	263.5	0.004	2	1.08	0.004	0.06	<0.1	4.5	0.07	0.04	105	0.8	0.05	3.3	2.76	<0.1	0.05
1097267	Soil	11.2	14.7	0.27	136.7	0.002	2	0.97	0.003	0.06	<0.1	3.6	0.11	0.03	276	0.6	0.08	2.6	1.36	<0.1	0.07
1097268	Soil	16.2	30.2	0.19	115.9	0.004	1	3.22	<0.001	0.04	0.1	5.1	0.08	0.04	78	0.6	0.06	3.5	1.32	<0.1	0.06



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 27, 2011

Page: 11 of 11 Part 3

CERTIFICATE OF ANALYSIS

WHI11001302.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1097257	Soil	0.43	7.8	3.4	<0.05	2.2	6.14	19.7	0.03	<1	0.7	34.3	<10	<2
1097258	Soil	0.35	8.5	3.4	<0.05	2.5	8.28	12.3	0.03	<1	0.9	37.0	<10	<2
1097259	Soil	0.19	10.1	3.4	<0.05	3.1	10.50	15.8	0.05	<1	1.1	44.9	<10	<2
1097260	Soil	0.24	10.2	1.7	<0.05	3.1	8.12	13.0	0.04	<1	1.0	41.4	<10	<2
1097261	Soil	0.27	10.3	2.7	<0.05	2.5	12.17	35.9	0.03	<1	0.9	29.9	<10	<2
1097262	Soil	0.33	9.5	1.8	<0.05	2.6	14.50	30.9	0.04	<1	1.0	38.9	<10	<2
1097263	Soil	0.31	9.8	3.6	<0.05	3.0	13.56	38.0	0.03	<1	1.0	26.5	<10	<2
1097264	Soil	0.25	9.2	4.6	<0.05	2.6	15.23	29.8	0.03	<1	1.1	41.8	<10	<2
1097265	Soil	0.29	8.2	0.8	<0.05	3.0	11.76	22.6	0.03	<1	1.0	23.8	<10	<2
1097266	Soil	0.32	9.4	3.5	<0.05	1.7	13.83	28.0	0.02	<1	0.8	23.5	<10	<2
1097267	Soil	0.17	8.3	1.6	<0.05	2.4	10.76	25.3	0.04	<1	0.8	15.8	<10	<2
1097268	Soil	0.83	11.7	0.8	<0.05	3.2	12.79	71.4	0.05	<1	2.1	30.7	<10	<2



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

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Report Date: September 27, 2011

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001302.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
1096489	Soil	0.61	25.22	69.72	56.8	228	23.9	11.6	1450	3.40	30.0	2.6	2.5	2.1	29.6	0.20	2.89	0.33	19	5.07	0.169
REP 1096489	QC	0.62	25.36	68.45	57.3	232	23.0	11.2	1419	3.32	29.4	2.7	2.9	2.1	29.8	0.22	2.83	0.36	19	4.88	0.163
1096493	Soil	0.38	12.61	29.91	70.9	147	13.4	6.0	2729	3.37	15.6	1.6	1.7	0.9	26.7	0.30	1.23	0.16	19	8.28	0.169
REP 1096493	QC	0.42	12.52	30.34	69.7	136	13.1	6.2	2734	3.39	15.6	1.6	1.4	0.9	26.5	0.30	1.26	0.16	19	8.07	0.168
1097177	Soil	0.51	14.68	64.47	143.2	155	17.4	6.4	1987	3.64	24.3	1.3	2.1	0.6	41.3	0.33	1.01	0.20	14	5.80	0.164
REP 1097177	QC	0.50	14.89	63.70	142.9	160	17.1	6.3	1956	3.60	23.9	1.3	1.6	0.6	40.7	0.38	1.01	0.19	13	5.71	0.163
1097178	Soil	0.38	19.44	34.69	102.0	159	18.8	7.2	891	2.96	12.7	1.4	7.2	0.8	135.2	0.27	0.67	0.52	8	4.93	0.112
REP 1097178	QC	0.22	18.48	32.80	99.1	144	18.1	6.9	855	2.81	12.1	1.3	4.4	0.7	128.5	0.23	0.61	0.36	8	4.92	0.104
1096664	Soil	0.60	25.79	27.99	89.8	77	26.4	14.2	501	3.56	6.7	0.6	0.4	3.4	32.0	0.20	0.28	0.33	26	0.24	0.053
REP 1096664	QC	0.63	26.49	28.76	92.8	85	26.6	14.4	551	3.53	7.2	0.6	0.9	3.2	31.5	0.22	0.30	0.33	25	0.24	0.053
1096680	Soil	0.60	13.20	28.58	68.7	44	18.8	8.4	387	3.43	10.0	0.6	0.6	3.3	10.3	0.20	0.47	0.28	29	0.17	0.025
REP 1096680	QC	0.62	12.87	28.16	70.9	43	19.1	8.2	394	3.40	10.1	0.6	0.2	3.2	9.4	0.20	0.48	0.29	28	0.24	0.025
1096906	Soil	0.87	34.32	29.37	115.1	262	27.6	13.2	614	3.76	9.0	1.2	2.0	2.7	81.8	0.46	0.38	0.35	25	1.00	0.153
REP 1096906	QC	0.85	32.74	29.58	111.5	254	26.9	12.8	600	3.71	9.4	1.1	2.1	2.6	80.8	0.41	0.37	0.33	25	0.96	0.147
1096922	Soil	0.40	17.35	28.75	101.1	52	18.0	7.5	794	2.56	8.0	0.9	6.1	2.1	34.0	0.41	0.68	0.47	13	3.34	0.067
REP 1096922	QC	0.43	17.69	29.56	94.0	101	19.4	8.8	848	2.67	8.7	0.9	2.9	1.5	35.5	0.31	0.60	0.29	13	3.55	0.068
1096930	Soil	1.42	17.54	26.76	56.6	109	15.6	13.7	441	3.13	5.8	0.3	1.9	1.8	48.2	0.31	0.43	0.43	28	0.38	0.036
REP 1096930	QC	1.49	17.92	27.20	57.0	107	15.2	13.8	461	3.21	6.6	0.3	0.9	2.2	45.9	0.34	0.40	0.39	30	0.39	0.036
1096962	Soil	0.82	28.92	32.86	86.8	132	30.6	14.5	612	4.24	11.0	0.8	1.2	3.4	21.8	0.11	0.61	0.38	28	0.21	0.060
REP 1096962	QC	0.76	28.98	33.21	88.6	132	29.9	14.3	625	4.28	10.4	0.8	1.1	3.7	21.3	0.11	0.56	0.38	28	0.20	0.058
1096981	Soil	0.62	20.62	25.29	73.2	97	19.9	9.3	443	3.35	10.9	0.5	<0.2	2.6	14.0	0.09	0.42	0.31	25	0.15	0.056
REP 1096981	QC	0.59	20.40	24.75	71.7	98	19.0	9.7	440	3.24	10.9	0.5	<0.2	2.5	14.2	0.08	0.40	0.32	24	0.15	0.055
1096990	Soil	0.65	25.71	24.56	62.2	241	22.7	12.3	470	3.58	8.0	1.3	0.3	3.5	74.1	0.13	0.28	0.25	20	0.87	0.130
REP 1096990	QC	0.63	24.06	24.44	60.0	231	22.0	11.9	461	3.49	7.8	1.3	<0.2	3.4	73.2	0.11	0.26	0.26	20	0.89	0.130
1097000	Soil	0.51	7.61	29.54	28.7	104	9.1	4.1	1637	2.30	18.5	0.9	2.6	0.6	45.5	0.21	1.19	0.27	13	11.03	0.116
REP 1097000	QC	0.48	7.79	27.62	28.6	107	9.2	4.0	1622	2.28	18.6	0.8	1.3	0.6	43.3	0.21	1.14	0.18	13	10.67	0.117
1097490	Soil	0.56	29.72	31.84	72.5	121	27.8	15.8	480	3.45	8.8	1.0	1.8	4.2	78.1	0.09	0.52	0.35	18	0.75	0.052
REP 1097490	QC	0.54	30.55	32.72	76.3	114	27.6	15.9	496	3.45	9.0	1.0	1.7	4.3	78.6	0.10	0.55	0.37	18	0.73	0.052

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: September 27, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001302.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
1096489	Soil	15.0	15.6	2.67	80.6	0.003	4	0.91	0.006	0.06	<0.1	2.8	0.16	0.06	686	0.4	0.08	2.0	0.31	<0.1	0.10
REP 1096489	QC	14.8	15.5	2.60	78.9	0.003	3	0.93	0.006	0.06	<0.1	2.7	0.16	0.06	649	0.4	0.13	2.1	0.30	<0.1	0.09
1096493	Soil	12.4	12.7	4.22	79.4	0.003	3	0.79	0.009	0.06	<0.1	2.3	0.09	0.05	191	0.6	0.03	1.5	0.46	<0.1	0.03
REP 1096493	QC	12.5	12.7	4.21	83.3	0.003	3	0.77	0.008	0.06	<0.1	2.2	0.09	0.05	194	0.7	0.05	1.6	0.44	<0.1	0.03
1097177	Soil	8.9	10.6	2.60	114.9	0.002	7	0.62	0.007	0.10	<0.1	1.7	0.11	0.12	341	0.7	0.03	1.4	0.84	<0.1	0.02
REP 1097177	QC	8.8	10.4	2.52	113.8	0.002	7	0.61	0.006	0.10	<0.1	1.7	0.12	0.12	373	0.8	0.05	1.5	0.81	<0.1	0.02
1097178	Soil	5.4	13.0	1.81	91.9	0.002	7	0.65	0.006	0.05	<0.1	1.4	0.11	0.11	168	0.6	<0.02	1.4	0.69	<0.1	0.05
REP 1097178	QC	5.0	9.0	1.80	84.8	0.002	6	0.61	0.005	0.05	<0.1	1.4	0.09	0.10	156	0.5	<0.02	1.4	0.65	<0.1	0.04
1096664	Soil	6.2	24.0	0.29	95.6	0.003	3	1.39	0.004	0.10	<0.1	3.2	0.10	<0.02	54	0.1	0.05	4.4	2.47	<0.1	0.03
REP 1096664	QC	6.1	23.1	0.29	93.5	0.003	2	1.32	0.003	0.09	<0.1	3.0	0.09	<0.02	47	0.1	0.06	4.4	2.42	<0.1	0.03
1096680	Soil	7.0	19.4	0.27	83.0	0.004	3	1.39	0.002	0.09	<0.1	2.3	0.12	<0.02	26	0.1	0.04	3.6	1.51	<0.1	<0.02
REP 1096680	QC	6.5	18.9	0.29	80.9	0.002	2	1.38	0.002	0.08	<0.1	2.2	0.11	<0.02	27	0.1	0.03	3.5	1.39	<0.1	<0.02
1096906	Soil	8.3	29.0	0.38	160.2	0.006	4	1.44	0.005	0.12	<0.1	6.2	0.12	0.05	27	0.3	0.04	4.7	2.74	<0.1	0.05
REP 1096906	QC	8.1	27.7	0.37	156.2	0.006	4	1.42	0.005	0.12	<0.1	5.9	0.11	0.05	18	0.3	0.04	4.6	2.71	<0.1	0.03
1096922	Soil	7.0	12.5	1.63	78.3	0.006	7	0.76	0.006	0.08	0.5	3.6	0.08	<0.02	42	0.6	0.08	2.2	1.33	<0.1	0.07
REP 1096922	QC	7.2	13.4	1.64	73.2	0.004	6	0.78	0.005	0.07	0.2	2.8	0.08	0.05	86	0.3	0.04	1.8	1.04	<0.1	0.03
1096930	Soil	4.2	21.0	0.21	189.3	0.004	5	1.28	0.007	0.15	<0.1	2.0	0.13	0.02	41	0.1	0.06	5.0	2.10	<0.1	0.03
REP 1096930	QC	4.2	21.3	0.21	192.9	0.004	5	1.27	0.006	0.14	<0.1	2.4	0.14	0.03	42	0.2	<0.02	5.1	2.06	<0.1	<0.02
1096962	Soil	8.7	22.8	0.30	99.0	0.004	2	1.52	0.003	0.09	<0.1	3.6	0.12	<0.02	63	0.3	0.04	4.2	2.59	<0.1	0.03
REP 1096962	QC	8.6	23.3	0.28	97.9	0.002	1	1.56	0.002	0.08	<0.1	3.5	0.12	<0.02	62	0.4	0.05	4.1	2.09	<0.1	0.03
1096981	Soil	6.7	14.6	0.14	97.7	0.002	3	1.10	0.003	0.08	<0.1	2.9	0.09	<0.02	71	0.3	0.08	3.6	1.37	<0.1	0.03
REP 1096981	QC	6.7	14.2	0.14	96.5	0.002	3	1.06	0.003	0.08	<0.1	2.9	0.09	<0.02	71	0.4	0.06	3.6	1.35	<0.1	0.03
1096990	Soil	12.1	22.9	0.24	102.8	0.002	2	1.57	0.004	0.08	<0.1	7.2	0.10	0.06	34	0.7	0.05	4.1	2.08	<0.1	0.04
REP 1096990	QC	11.8	22.5	0.24	100.6	0.002	2	1.59	0.004	0.08	<0.1	7.1	0.11	0.06	34	0.7	0.05	3.8	2.02	<0.1	0.04
1097000	Soil	7.8	10.4	5.87	62.7	0.004	5	0.56	0.011	0.07	<0.1	1.3	0.08	0.05	181	0.3	0.04	1.3	0.80	<0.1	0.03
REP 1097000	QC	7.5	10.3	5.70	60.8	0.004	5	0.56	0.010	0.07	<0.1	1.3	0.07	0.06	193	0.4	0.05	1.2	0.75	<0.1	0.03
1097490	Soil	7.4	21.3	0.34	123.6	0.001	3	1.47	0.003	0.09	<0.1	6.9	0.11	0.05	86	0.3	0.07	3.4	1.88	<0.1	0.05
REP 1097490	QC	7.5	22.4	0.34	125.6	0.001	3	1.47	0.003	0.09	<0.1	7.2	0.11	0.05	96	0.2	0.05	3.7	2.01	<0.1	0.04

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 27, 2011

Page: 1 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001302.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
1096489	Soil	0.17	4.5	1.4	<0.05	2.5	18.74	23.3	0.03	<1	0.6	6.1	<10	<2
REP 1096489	QC	0.18	4.7	1.0	<0.05	2.2	18.31	23.1	0.03	<1	0.7	6.2	<10	<2
1096493	Soil	0.11	4.7	0.8	<0.05	1.2	13.77	21.5	<0.02	<1	1.0	6.1	<10	<2
REP 1096493	QC	0.12	4.7	0.9	<0.05	1.2	13.90	21.7	0.02	<1	0.7	6.0	<10	<2
1097177	Soil	0.12	6.9	1.6	<0.05	0.7	11.23	21.2	<0.02	<1	0.6	4.3	<10	<2
REP 1097177	QC	0.13	7.1	1.5	<0.05	0.7	11.03	22.0	<0.02	<1	0.4	4.2	<10	<2
1097178	Soil	0.16	4.9	1.4	<0.05	1.4	8.47	12.3	0.03	1	0.7	8.7	<10	<2
REP 1097178	QC	0.15	4.7	1.1	<0.05	1.3	8.12	11.5	0.03	<1	0.6	8.2	<10	<2
1096664	Soil	0.28	12.2	2.0	<0.05	0.9	5.87	20.8	0.04	<1	1.0	33.4	<10	<2
REP 1096664	QC	0.27	11.3	1.9	<0.05	0.8	5.98	20.3	0.05	<1	0.9	30.2	<10	<2
1096680	Soil	0.33	12.9	2.6	<0.05	1.1	3.24	18.5	0.03	<1	0.8	23.6	<10	<2
REP 1096680	QC	0.31	11.5	2.7	<0.05	1.2	3.14	17.1	0.04	<1	0.7	21.1	<10	<2
1096906	Soil	0.36	17.3	6.2	<0.05	1.0	15.10	23.0	0.02	<1	1.3	35.6	<10	<2
REP 1096906	QC	0.35	17.4	7.0	<0.05	0.9	14.45	22.2	0.05	<1	1.3	35.0	<10	<2
1096922	Soil	0.17	8.4	4.0	<0.05	2.0	8.98	18.3	0.06	<1	0.8	9.4	<10	<2
REP 1096922	QC	0.19	7.6	3.8	<0.05	1.3	9.30	17.8	0.04	<1	0.7	9.9	<10	<2
1096930	Soil	0.39	25.0	4.7	<0.05	1.1	2.54	10.1	0.03	3	0.7	32.5	<10	<2
REP 1096930	QC	0.38	23.2	4.3	<0.05	1.2	2.48	10.2	0.04	6	0.6	32.5	<10	<2
1096962	Soil	0.28	11.1	0.6	<0.05	0.8	10.13	28.2	0.04	<1	1.1	30.5	<10	<2
REP 1096962	QC	0.25	10.0	0.6	<0.05	1.0	10.26	28.1	0.04	<1	1.0	30.5	<10	<2
1096981	Soil	0.27	9.7	0.7	<0.05	1.2	7.25	16.6	0.03	<1	0.8	15.0	<10	<2
REP 1096981	QC	0.25	9.8	0.8	<0.05	1.0	7.05	16.8	0.03	1	0.7	14.7	<10	<2
1096990	Soil	0.27	12.2	0.6	<0.05	1.2	24.19	34.8	0.05	<1	1.5	35.5	<10	<2
REP 1096990	QC	0.28	12.0	0.8	<0.05	1.3	24.34	34.2	0.04	<1	2.1	35.2	<10	<2
1097000	Soil	0.11	6.0	6.8	<0.05	1.1	8.12	13.7	0.04	4	0.6	3.9	<10	<2
REP 1097000	QC	0.11	5.8	6.0	<0.05	1.1	7.86	13.2	<0.02	<1	0.5	4.0	<10	<2
1097490	Soil	0.20	8.4	2.5	<0.05	2.1	21.11	21.1	0.05	<1	1.2	36.3	<10	<2
REP 1097490	QC	0.21	8.9	2.9	<0.05	1.8	21.23	21.2	0.05	<1	1.1	39.0	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: **Scarlet**
Report Date: **September 27, 2011**

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001302.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
1096437	Soil	0.68	28.20	30.91	83.3	88	24.6	12.5	454	3.88	8.1	0.7	0.5	1.6	52.4	0.08	0.37	0.35	22	0.65	0.154
REP 1096437	QC	0.58	29.01	30.19	81.4	82	25.2	12.5	459	3.85	8.4	0.7	0.4	1.6	51.4	0.10	0.39	0.35	22	0.65	0.152
1097243	Soil	0.94	34.10	24.20	79.4	383	28.8	13.1	339	2.90	12.7	2.5	6.5	3.9	146.4	0.23	0.82	0.30	21	2.92	0.060
REP 1097243	QC	0.91	32.25	22.30	78.0	355	27.6	12.1	330	2.77	12.1	2.4	5.3	3.6	141.2	0.22	0.79	0.28	21	2.80	0.058
1097253	Soil	0.36	30.10	25.57	86.6	125	29.0	12.9	447	2.99	7.9	0.6	0.3	3.7	83.7	0.09	0.33	0.31	17	1.30	0.056
REP 1097253	QC	0.38	29.10	24.56	81.8	122	29.5	13.3	428	2.98	7.7	0.6	0.5	3.8	79.7	0.09	0.32	0.30	17	1.28	0.053
1097265	Soil	0.48	33.17	15.74	94.6	166	27.0	10.5	305	2.42	11.9	2.3	3.6	2.3	65.0	0.16	0.74	0.26	20	1.10	0.065
REP 1097265	QC	0.47	33.28	14.83	95.0	164	26.0	10.4	299	2.44	11.9	2.2	3.0	2.2	64.5	0.18	0.73	0.25	20	1.06	0.066
Reference Materials																					
STD DS8	Standard	12.96	101.7	120.3	292.0	1866	35.7	7.1	586	2.38	28.1	2.8	111.5	6.9	58.8	2.35	5.14	5.91	39	0.71	0.081
STD DS8	Standard	13.25	106.5	132.5	319.5	1871	38.1	7.5	617	2.48	28.4	2.9	125.1	7.3	62.2	2.48	5.75	6.66	41	0.73	0.086
STD DS8	Standard	13.11	106.3	120.2	297.4	1766	34.9	7.3	578	2.37	25.8	2.8	117.2	7.0	63.7	2.23	5.43	6.57	40	0.73	0.079
STD DS8	Standard	13.07	111.4	121.6	321.4	1685	39.2	7.6	615	2.42	26.9	2.7	128.5	6.5	62.6	2.36	5.30	6.66	39	0.70	0.081
STD DS8	Standard	13.41	111.9	129.1	323.0	1846	37.0	7.2	611	2.43	25.4	2.9	115.4	6.7	67.5	2.30	5.83	6.66	41	0.77	0.080
STD DS8	Standard	12.70	104.9	120.7	301.5	1731	36.8	7.4	591	2.40	25.4	2.6	111.0	6.6	60.7	2.19	5.36	6.38	41	0.69	0.076
STD DS8	Standard	13.05	110.9	128.6	321.9	1771	38.6	7.6	593	2.43	23.9	2.7	118.4	7.0	63.4	2.28	5.28	6.05	41	0.74	0.077
STD DS8	Standard	12.74	105.7	131.0	313.9	1842	36.9	7.2	606	2.49	27.1	2.7	117.7	6.2	64.4	2.32	5.61	6.69	41	0.70	0.083
STD DS8	Standard	13.09	107.7	124.7	311.9	1818	37.5	7.1	602	2.43	28.1	2.7	127.1	6.5	64.0	2.27	5.55	6.77	41	0.72	0.081
STD DS8	Standard	12.10	108.0	126.2	314.6	1801	36.8	7.4	604	2.46	27.7	2.7	108.6	6.2	61.4	2.35	5.69	6.40	41	0.71	0.087
STD DS8	Standard	12.99	109.2	126.9	332.1	1839	37.5	7.6	634	2.57	28.7	2.8	120.5	6.7	69.7	2.41	6.01	6.68	42	0.75	0.093
STD DS8	Standard	12.38	108.1	123.6	311.4	1785	35.5	7.4	587	2.42	26.2	2.7	112.9	6.2	58.4	2.35	5.35	6.79	39	0.68	0.078
STD DS8	Standard	11.64	97.69	113.7	284.3	1663	35.1	6.7	525	2.17	20.3	2.5	99.9	5.8	51.9	1.99	4.63	5.67	35	0.64	0.067
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 27, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001302.1

		1F15 La ppm	1F15 Cr ppm	1F15 Mg %	1F15 Ba ppm	1F15 Ti %	1F15 B ppm	1F15 Al %	1F15 Na %	1F15 K %	1F15 W ppm	1F15 Sc ppm	1F15 Ti ppm	1F15 S %	1F15 Hg ppb	1F15 Se ppm	1F15 Te ppm	1F15 Ga ppm	1F15 Cs ppm	1F15 Ge ppm	1F15 Hf ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1096437	Soil	5.4	24.9	0.27	88.6	0.002	2	1.39	0.004	0.10	<0.1	3.2	0.11	0.09	44	0.2	0.03	4.5	2.88	<0.1	0.05
REP 1096437	QC	5.4	24.7	0.25	88.8	0.002	2	1.35	0.003	0.09	<0.1	3.3	0.11	0.09	43	0.1	0.06	4.5	2.92	<0.1	0.06
1097243	Soil	11.4	21.5	0.94	149.1	0.002	3	1.05	0.004	0.10	<0.1	4.2	0.15	0.03	256	0.8	<0.02	3.2	2.19	<0.1	0.08
REP 1097243	QC	11.4	21.4	0.91	149.5	0.003	3	1.08	0.004	0.11	<0.1	4.0	0.14	0.03	252	0.7	<0.02	3.2	2.53	<0.1	0.10
1097253	Soil	6.6	24.2	0.50	69.9	0.004	4	1.33	0.004	0.10	<0.1	4.8	0.08	0.03	69	0.2	0.04	4.2	2.23	<0.1	0.07
REP 1097253	QC	6.2	22.1	0.49	65.1	0.003	4	1.34	0.004	0.10	<0.1	4.7	0.08	0.03	80	0.2	0.03	4.1	2.18	<0.1	0.08
1097265	Soil	11.6	23.9	0.49	171.4	0.003	3	1.10	0.003	0.08	<0.1	4.3	0.09	0.06	348	1.4	0.07	3.1	2.07	<0.1	0.09
REP 1097265	QC	11.3	22.9	0.49	166.4	0.003	3	1.12	0.003	0.08	<0.1	4.4	0.09	0.06	320	1.2	0.03	3.1	2.05	<0.1	0.11
Reference Materials																					
STD DS8	Standard	15.7	117.0	0.60	269.1	0.104	3	0.94	0.094	0.41	2.8	2.6	5.26	0.16	197	5.4	5.01	4.6	2.43	<0.1	0.10
STD DS8	Standard	15.8	124.6	0.61	287.8	0.105	3	0.97	0.106	0.43	3.1	2.7	5.74	0.16	207	5.4	4.91	4.7	2.50	<0.1	0.09
STD DS8	Standard	16.4	116.7	0.60	275.4	0.107	3	1.02	0.082	0.45	2.9	2.3	5.35	0.15	188	4.9	4.93	4.5	2.45	<0.1	0.07
STD DS8	Standard	13.9	120.0	0.60	259.7	0.113	3	0.92	0.097	0.43	3.1	2.2	5.34	0.15	185	4.7	4.67	4.5	2.43	<0.1	0.07
STD DS8	Standard	16.5	123.1	0.62	288.5	0.114	2	1.02	0.122	0.46	3.3	2.1	5.79	0.16	200	5.2	5.33	4.8	2.59	<0.1	0.07
STD DS8	Standard	14.8	115.5	0.61	262.8	0.106	2	0.94	0.097	0.42	2.8	1.9	5.33	0.16	191	4.9	4.79	4.4	2.39	<0.1	0.06
STD DS8	Standard	14.7	118.8	0.62	263.9	0.107	3	0.99	0.111	0.44	2.9	2.1	5.57	0.16	205	5.0	4.92	4.6	2.48	0.1	0.06
STD DS8	Standard	14.4	123.9	0.60	290.8	0.109	3	0.94	0.092	0.42	2.9	1.8	5.58	0.16	225	4.9	5.02	4.4	2.44	0.1	0.08
STD DS8	Standard	14.1	124.2	0.62	273.2	0.108	3	0.98	0.103	0.45	3.1	1.9	5.65	0.17	189	5.2	5.02	4.4	2.36	<0.1	0.07
STD DS8	Standard	13.3	118.9	0.62	277.0	0.102	3	0.94	0.102	0.43	3.0	2.1	5.64	0.16	193	5.4	5.16	4.8	2.53	<0.1	0.06
STD DS8	Standard	16.5	126.6	0.62	291.2	0.116	3	1.01	0.115	0.45	3.4	2.3	5.59	0.16	203	5.5	5.08	5.1	2.53	0.2	0.07
STD DS8	Standard	14.0	116.2	0.60	254.7	0.099	2	0.93	0.099	0.43	3.0	2.1	5.60	0.16	201	5.1	5.05	4.6	2.51	<0.1	0.07
STD DS8	Standard	12.8	115.5	0.56	240.3	0.100	3	0.81	0.079	0.38	3.0	2.1	5.01	0.15	154	4.7	4.52	4.2	2.27	0.1	0.06
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: September 27, 2011

Page: 2 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001302.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
1096437	Soil	0.27	14.3	3.9	<0.05	1.4	10.04	15.4	0.04	<1	1.0	28.3	<10	<2
REP 1096437	QC	0.28	13.6	3.7	<0.05	1.4	9.63	15.3	0.05	<1	1.1	27.5	<10	<2
1097243	Soil	0.22	7.4	1.4	<0.05	3.8	11.20	24.4	0.03	<1	0.9	29.4	<10	<2
REP 1097243	QC	0.21	8.3	1.5	<0.05	3.2	10.96	23.7	0.03	<1	1.0	29.2	<10	<2
1097253	Soil	0.24	7.4	2.3	<0.05	4.0	10.73	17.1	0.04	<1	1.0	44.0	<10	<2
REP 1097253	QC	0.24	7.3	2.0	<0.05	3.6	10.62	16.4	0.03	<1	0.9	41.1	<10	<2
1097265	Soil	0.29	8.2	0.8	<0.05	3.0	11.76	22.6	0.03	<1	1.0	23.8	<10	<2
REP 1097265	QC	0.31	8.0	0.7	<0.05	3.2	11.44	22.0	0.03	<1	0.8	23.9	<10	<2
Reference Materials														
STD DS8	Standard	1.70	37.5	6.1	<0.05	2.1	6.45	29.5	2.00	60	5.0	27.6	128	341
STD DS8	Standard	1.50	38.7	6.7	<0.05	2.3	6.60	29.3	2.12	70	5.4	31.8	135	377
STD DS8	Standard	1.34	37.8	6.3	<0.05	1.6	6.20	29.0	2.16	49	4.8	25.6	111	353
STD DS8	Standard	1.11	38.7	6.7	<0.05	1.9	5.50	24.8	2.27	50	5.0	25.6	92	347
STD DS8	Standard	1.34	38.4	6.9	<0.05	1.7	6.25	30.1	2.21	52	4.9	26.9	122	357
STD DS8	Standard	1.21	35.9	6.5	<0.05	1.5	5.75	26.5	2.10	51	5.2	25.6	102	341
STD DS8	Standard	1.23	38.0	6.4	<0.05	1.6	5.67	27.3	2.33	57	5.4	26.3	109	329
STD DS8	Standard	1.43	36.6	6.8	<0.05	1.4	5.74	25.9	2.05	58	5.2	28.6	111	355
STD DS8	Standard	1.22	36.6	6.5	<0.05	1.6	5.70	25.4	2.19	54	4.9	27.3	116	347
STD DS8	Standard	1.23	40.5	6.7	<0.05	1.5	5.67	24.6	2.36	60	5.3	29.2	119	344
STD DS8	Standard	1.52	40.5	7.2	<0.05	1.8	6.50	30.6	2.28	51	5.3	31.4	120	351
STD DS8	Standard	1.10	39.2	6.4	<0.05	1.2	5.42	24.2	2.31	65	5.0	27.0	105	341
STD DS8	Standard	1.29	33.9	5.7	<0.05	1.3	5.16	24.7	1.96	48	4.3	23.0	91	305
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: September 27, 2011

Page: 3 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001302.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: September 27, 2011

Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001302.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: September 27, 2011

Page: 3 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001302.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



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Acme Analytical Laboratories (Vancouver) Ltd.

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Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 29, 2011
Report Date: October 29, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001349.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-24
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: David Clark
database backup
Simon Ridgway
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			WHI
1F05	320	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
RJSV	320	Saving all or part of Soil Reject			WHI

ADDITIONAL COMMENTS



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Project: Scarlet
 Report Date: October 29, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1098101	Soil			0.51	15.65	34.51	44.4	227	22.2	9.0	4484	7.66	19.7	1.8	3.2	1.8	21.5	0.23	1.86	0.39	23	4.31	0.154
1098102	Soil			0.69	14.76	33.78	98.4	52	24.0	11.5	3114	6.96	15.3	1.3	1.7	5.4	7.1	0.39	1.14	0.35	36	0.69	0.051
1098103	Soil			0.43	14.91	22.13	61.0	86	18.3	8.4	924	2.59	8.7	0.8	2.3	2.8	36.9	0.16	0.67	0.23	16	7.15	0.083
1098104	Soil			0.59	19.87	31.26	92.6	71	27.3	11.9	682	3.33	9.8	1.0	2.7	5.1	24.3	0.12	0.62	0.31	24	1.52	0.039
1098105	Soil			0.58	17.89	26.41	92.7	16	24.8	10.8	398	3.79	9.1	0.8	1.5	4.7	5.3	0.12	0.53	0.31	30	0.06	0.025
1098106	Soil			0.70	18.81	27.53	35.9	106	16.1	7.1	329	1.77	4.6	1.1	2.8	0.9	116.2	0.17	0.30	0.32	10	2.91	0.115
1098107	Soil			0.69	34.63	35.87	110.8	113	38.2	17.8	627	3.75	11.5	1.0	1.3	3.8	48.2	0.10	0.39	0.35	16	0.47	0.040
1098108	Soil			0.72	21.95	32.97	89.4	205	25.5	12.0	627	3.22	7.5	1.4	1.0	2.5	55.3	0.09	0.29	0.34	17	1.03	0.088
1098109	Soil			0.68	16.75	25.28	104.8	18	21.4	11.9	372	3.39	8.1	0.7	0.3	4.4	11.4	0.13	0.42	0.28	32	0.22	0.021
1098110	Soil			0.42	24.93	6.03	17.0	186	12.1	4.2	348	0.82	2.1	2.4	3.5	0.5	147.6	0.34	0.24	0.20	7	3.93	0.097
1098111	Soil			0.44	25.74	20.73	76.0	74	22.9	10.9	582	2.67	5.7	0.7	1.8	4.2	36.8	0.09	0.40	0.21	19	4.71	0.049
1098112	Soil			0.61	22.15	32.36	78.6	190	26.2	14.4	638	3.57	5.4	1.2	0.9	4.7	12.8	0.11	0.29	0.31	27	0.15	0.066
1098113	Soil			0.66	11.87	12.75	54.3	79	10.6	4.8	182	2.62	5.5	0.5	<0.2	2.3	6.3	0.05	0.32	0.27	39	0.06	0.027
1098114	Soil			1.00	14.18	19.45	76.3	45	17.6	7.8	306	4.00	8.1	0.5	0.8	3.8	5.8	0.08	0.54	0.31	47	0.04	0.024
1098115	Soil			1.05	19.18	30.67	71.9	291	18.0	12.6	813	4.25	10.5	0.7	<0.2	0.5	9.5	0.24	0.56	0.36	40	0.08	0.104
1098116	Soil			1.18	17.16	35.08	158.6	187	18.1	17.9	1312	5.29	10.7	0.6	0.3	1.2	8.5	0.52	0.68	0.36	44	0.07	0.117
1098117	Soil			0.29	17.31	9.22	126.9	143	8.6	5.9	619	0.94	1.9	3.6	0.7	0.4	273.7	0.88	0.16	0.33	10	2.89	0.120
1098118	Soil			0.39	18.92	21.49	90.8	190	23.9	7.5	221	2.58	5.3	1.0	2.0	2.5	61.0	0.11	0.31	0.30	18	1.06	0.070
1098119	Soil			0.50	23.30	26.24	118.3	179	28.1	8.7	320	2.90	7.2	0.8	1.3	3.3	61.6	0.21	0.35	0.30	13	2.36	0.072
1098120	Soil			0.43	12.19	55.98	91.7	147	15.1	6.3	573	2.02	12.2	0.7	<0.2	1.5	63.0	0.33	0.46	0.28	9	1.88	0.043
1098121	Soil			0.30	12.48	18.81	30.8	138	12.8	5.3	214	1.46	2.7	1.5	0.5	0.8	79.1	0.17	0.13	0.21	10	2.89	0.087
1098122	Soil			0.55	22.57	26.15	112.3	112	28.3	11.0	659	3.32	9.6	1.0	2.0	4.6	17.3	0.19	0.72	0.27	25	2.46	0.063
1098123	Soil			0.35	12.58	39.86	133.5	185	14.5	6.6	1629	2.44	13.9	1.7	2.1	2.2	32.9	0.23	1.56	0.15	12	11.39	0.131
1098124	Soil			0.93	16.46	22.82	87.6	23	30.1	10.9	460	3.89	13.2	1.0	<0.2	6.5	8.6	0.13	0.65	0.29	50	0.18	0.022
1098125	Soil			0.69	18.79	38.62	106.4	84	37.6	13.3	1438	5.25	16.3	1.6	1.1	10.4	7.7	0.19	0.93	0.32	37	0.19	0.061
1098126	Soil			0.53	11.16	29.45	79.8	67	17.5	8.5	2134	3.97	10.7	1.0	1.0	3.3	19.3	0.25	0.75	0.20	23	4.86	0.050
1098127	Soil			0.55	13.09	36.52	104.8	81	17.5	9.0	1360	3.27	12.0	0.9	2.1	3.0	21.4	0.23	0.88	0.22	27	5.00	0.065
1098128	Soil			0.60	17.31	33.23	71.3	102	20.2	9.7	1401	3.21	12.0	0.8	0.4	2.5	19.9	0.33	0.82	0.22	23	3.77	0.075
1097993	Soil			0.87	18.94	26.35	79.4	122	16.7	13.8	1109	4.43	11.5	0.6	<0.2	0.4	7.8	0.18	0.54	0.35	40	0.06	0.097
1097994	Soil			1.04	21.41	27.92	109.8	129	19.6	13.0	1114	4.13	11.0	0.6	<0.2	0.5	24.9	0.30	0.56	0.37	42	0.22	0.098



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 29, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1098101	Soil	19.8	21.0	2.41	126.3	0.004	5	1.29	0.005	0.06	<0.1	3.3	0.11	0.06	162	0.5	0.07	2.7	0.37	<0.1	0.07
1098102	Soil	20.3	32.1	0.73	127.3	0.003	2	1.94	0.002	0.08	<0.1	5.6	0.16	0.03	86	0.3	0.06	5.8	0.64	0.1	0.09
1098103	Soil	9.6	18.5	4.65	50.9	0.006	4	0.95	0.007	0.08	<0.1	3.1	0.09	<0.02	84	0.4	<0.02	2.6	0.85	<0.1	0.05
1098104	Soil	15.3	30.8	1.25	93.9	0.003	3	1.49	0.004	0.08	<0.1	4.8	0.10	0.03	116	0.1	0.03	4.4	0.67	<0.1	0.08
1098105	Soil	10.1	31.4	0.60	63.0	0.002	2	1.88	<0.001	0.08	<0.1	3.0	0.12	<0.02	40	0.2	<0.02	5.5	1.23	<0.1	0.04
1098106	Soil	4.7	14.2	0.21	91.9	0.003	4	0.68	0.010	0.04	<0.1	1.6	0.08	0.18	79	0.5	0.04	1.8	0.81	<0.1	0.10
1098107	Soil	5.1	22.7	0.40	88.3	0.002	3	1.22	0.004	0.09	<0.1	4.5	0.12	0.04	31	0.3	0.07	3.7	2.06	<0.1	0.06
1098108	Soil	7.0	22.4	0.30	111.3	0.002	2	1.31	0.005	0.06	<0.1	3.8	0.12	0.07	59	0.3	0.05	3.6	1.52	<0.1	0.07
1098109	Soil	9.7	32.8	0.59	81.6	0.004	2	1.56	0.003	0.10	<0.1	2.6	0.11	<0.02	30	0.2	0.04	5.7	1.04	<0.1	0.05
1098110	Soil	7.4	9.6	0.24	122.3	0.004	6	0.67	0.013	0.02	<0.1	1.1	0.06	0.17	135	0.7	0.02	1.2	0.43	<0.1	0.08
1098111	Soil	8.2	21.4	3.16	96.2	0.005	2	1.23	0.007	0.09	<0.1	3.3	0.08	<0.02	73	0.2	<0.02	3.7	1.13	<0.1	0.05
1098112	Soil	12.9	34.2	0.54	177.0	0.002	1	1.78	0.002	0.08	<0.1	4.6	0.11	0.03	30	0.1	0.04	5.7	1.77	<0.1	0.03
1098113	Soil	11.6	21.9	0.27	71.6	0.009	2	1.23	0.001	0.07	0.1	1.7	0.12	<0.02	20	0.2	<0.02	6.3	1.28	<0.1	<0.02
1098114	Soil	10.3	30.7	0.40	62.6	0.011	1	1.52	0.001	0.09	0.1	2.3	0.11	<0.02	26	0.2	0.05	7.1	1.21	<0.1	0.04
1098115	Soil	6.8	27.3	0.32	128.5	0.008	2	1.35	0.001	0.11	<0.1	1.1	0.10	0.04	58	0.3	0.05	5.8	2.46	<0.1	<0.02
1098116	Soil	7.4	32.9	0.33	82.5	0.014	2	1.70	<0.001	0.09	<0.1	1.4	0.10	0.04	34	0.4	0.05	6.0	2.02	<0.1	<0.02
1098117	Soil	2.2	11.3	0.31	170.4	0.006	5	0.57	0.009	0.04	<0.1	0.9	0.06	0.24	83	0.9	<0.02	1.9	0.89	<0.1	0.05
1098118	Soil	10.8	21.7	0.38	131.3	0.004	4	1.22	0.006	0.10	<0.1	3.7	0.12	0.06	112	0.3	0.05	3.6	1.05	<0.1	0.04
1098119	Soil	9.5	15.0	0.95	107.5	0.002	5	0.92	0.005	0.10	<0.1	4.3	0.15	0.05	131	0.5	0.02	2.7	1.16	<0.1	0.06
1098120	Soil	4.3	8.6	0.11	93.8	0.001	5	0.57	0.005	0.10	<0.1	1.7	0.07	0.06	113	0.4	0.02	1.6	0.21	<0.1	0.05
1098121	Soil	11.0	10.4	0.13	63.6	0.002	8	0.53	0.008	0.08	<0.1	1.7	0.08	0.14	145	0.6	0.02	1.4	0.29	<0.1	0.05
1098122	Soil	13.9	29.4	1.80	83.8	0.005	3	1.49	0.005	0.10	<0.1	4.0	0.10	0.03	123	0.3	0.03	4.5	0.88	<0.1	0.07
1098123	Soil	11.9	13.6	7.22	61.0	0.003	4	0.70	0.013	0.06	<0.1	2.9	0.09	<0.02	395	0.4	0.05	1.7	0.41	<0.1	0.05
1098124	Soil	12.7	46.6	0.83	110.9	0.007	3	2.71	<0.001	0.07	0.1	3.9	0.21	<0.02	24	0.4	0.05	7.5	1.92	<0.1	0.04
1098125	Soil	17.3	41.4	0.60	124.5	0.002	3	3.27	<0.001	0.11	<0.1	8.1	0.17	0.03	95	0.3	0.07	5.5	1.60	<0.1	0.11
1098126	Soil	15.6	21.9	3.21	69.8	0.004	3	1.41	0.006	0.06	<0.1	4.6	0.10	0.02	142	0.3	0.03	3.4	0.65	<0.1	0.04
1098127	Soil	11.2	21.0	3.36	76.4	0.006	3	1.40	0.006	0.07	<0.1	3.7	0.13	<0.02	130	0.3	0.02	3.4	0.66	<0.1	0.06
1098128	Soil	8.6	21.5	2.34	94.6	0.004	3	1.36	0.008	0.08	<0.1	3.1	0.13	0.04	130	0.3	0.04	3.6	0.59	<0.1	0.06
1097993	Soil	7.7	28.6	0.34	89.9	0.007	2	1.54	0.001	0.11	<0.1	0.8	0.10	0.04	32	0.4	0.08	6.2	2.49	<0.1	<0.02
1097994	Soil	7.1	28.9	0.32	175.7	0.008	2	1.20	0.003	0.10	<0.1	1.2	0.10	0.05	34	0.3	0.05	6.2	2.16	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 2 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1098101	Soil	0.19	5.5	1.7	<0.05	2.0	26.80	34.1	0.03	2	0.9	8.5	<10	<2
1098102	Soil	0.39	12.9	2.3	<0.05	2.9	19.08	39.5	0.05	<1	1.2	15.6	<10	<2
1098103	Soil	0.24	6.8	3.4	<0.05	1.6	10.75	20.6	<0.02	<1	0.6	16.3	<10	<2
1098104	Soil	0.41	8.0	3.4	<0.05	3.3	14.35	34.7	0.04	<1	1.1	27.6	<10	<2
1098105	Soil	0.34	11.4	1.8	<0.05	1.8	4.65	26.6	0.04	<1	0.9	36.6	<10	<2
1098106	Soil	0.22	5.8	11.7	<0.05	3.8	8.41	11.9	0.02	<1	0.6	12.5	<10	<2
1098107	Soil	0.10	7.8	4.1	<0.05	2.8	10.26	14.2	0.05	2	1.1	44.4	<10	<2
1098108	Soil	0.27	9.9	6.1	<0.05	2.8	11.71	19.5	0.05	<1	1.1	31.2	<10	<2
1098109	Soil	0.50	11.3	3.3	<0.05	3.0	2.96	22.3	0.03	<1	0.6	41.2	<10	<2
1098110	Soil	0.21	2.6	1.6	<0.05	2.7	13.18	12.2	<0.02	<1	0.8	4.7	<10	<2
1098111	Soil	0.44	7.0	3.1	<0.05	3.1	7.68	18.1	<0.02	<1	0.7	24.0	<10	<2
1098112	Soil	0.38	12.9	4.3	<0.05	1.2	12.95	32.6	0.04	<1	1.4	32.0	<10	<2
1098113	Soil	0.72	18.1	2.0	<0.05	0.3	3.31	25.0	0.02	<1	0.4	10.7	<10	<2
1098114	Soil	0.74	14.0	2.5	<0.05	2.1	2.55	22.2	0.04	<1	0.5	27.1	<10	<2
1098115	Soil	0.31	18.3	6.6	<0.05	0.2	2.73	18.4	0.04	<1	0.7	24.9	<10	<2
1098116	Soil	0.56	12.6	3.8	<0.05	0.2	2.59	17.4	0.04	<1	0.8	29.7	<10	<2
1098117	Soil	0.36	6.9	2.3	<0.05	1.5	2.70	5.4	<0.02	<1	0.3	8.7	<10	<2
1098118	Soil	0.49	9.9	1.7	<0.05	1.7	12.18	25.7	0.04	<1	0.9	23.9	<10	<2
1098119	Soil	0.29	8.9	1.5	<0.05	2.2	14.40	23.2	0.03	1	0.8	16.9	<10	<2
1098120	Soil	0.22	5.2	0.9	<0.05	1.8	4.16	14.1	0.03	<1	0.4	5.1	<10	<2
1098121	Soil	0.23	6.2	0.7	<0.05	2.7	10.02	22.6	0.02	<1	0.6	5.0	<10	<2
1098122	Soil	0.44	8.9	1.7	<0.05	3.0	12.72	27.2	0.02	<1	1.0	24.5	<10	<2
1098123	Soil	0.15	5.4	7.1	<0.05	1.7	14.33	22.2	0.03	1	0.5	7.7	<10	<2
1098124	Soil	0.58	13.6	1.8	<0.05	2.9	6.06	40.5	0.04	<1	1.2	31.2	<10	<2
1098125	Soil	0.45	12.5	2.9	<0.05	4.3	20.29	83.7	0.05	<1	2.4	32.1	<10	<2
1098126	Soil	0.29	6.6	2.2	<0.05	1.7	17.36	27.2	0.03	<1	1.0	13.3	<10	<2
1098127	Soil	0.31	7.3	2.6	<0.05	1.5	11.12	22.5	0.03	<1	0.9	12.7	<10	<2
1098128	Soil	0.30	8.4	3.2	<0.05	1.8	9.21	19.1	0.03	<1	0.8	16.2	<10	<2
1097993	Soil	0.25	17.1	3.0	<0.05	<0.1	2.94	17.7	0.05	<1	0.9	29.9	<10	<2
1097994	Soil	0.49	17.4	5.0	<0.05	0.1	2.29	17.0	0.03	<1	0.6	21.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 29, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1097995	Soil			0.51	27.92	36.37	74.6	268	27.1	12.5	622	3.65	8.0	1.4	<0.2	4.2	17.3	0.12	0.33	0.35	16	0.17	0.062
1097996	Soil			0.85	22.59	29.88	87.5	64	23.2	13.2	618	3.88	8.9	0.7	0.3	2.6	17.9	0.16	0.50	0.35	32	0.16	0.048
1097997	Soil			0.82	35.57	43.17	176.0	711	44.2	7.4	258	2.24	12.8	1.6	0.7	1.3	293.9	0.30	0.45	0.32	11	6.34	0.156
1097998	Soil			0.73	7.56	30.47	36.6	75	13.6	5.8	253	1.66	2.8	0.7	<0.2	1.6	17.5	0.11	0.16	0.18	15	0.55	0.034
1097999	Soil			0.55	14.38	30.57	144.6	117	14.7	5.9	466	1.98	6.1	2.2	0.7	0.6	97.9	0.57	0.56	0.23	21	2.96	0.112
1098000	Soil			0.35	13.62	28.88	40.8	191	13.4	6.5	1369	2.86	11.2	1.4	2.7	1.3	33.6	0.14	1.86	0.14	8	12.08	0.137
1096625	Soil			0.62	19.15	20.21	70.7	108	21.1	8.7	350	2.95	8.1	1.2	2.7	2.6	48.5	0.15	0.43	0.33	29	0.42	0.056
1096626	Soil			0.89	20.96	23.42	83.5	56	24.5	10.4	315	3.52	9.6	1.2	1.8	2.7	19.2	0.15	0.44	0.30	33	0.18	0.062
1096627	Soil			0.46	24.43	30.39	89.5	147	26.4	11.0	481	3.47	7.8	0.9	1.3	4.5	24.5	0.10	0.38	0.35	18	0.33	0.063
1096628	Soil			0.60	23.08	22.00	93.7	131	30.4	11.3	311	2.76	7.0	1.5	2.6	4.8	37.6	0.16	0.38	0.30	26	0.58	0.047
1096629	Soil			0.56	27.95	34.28	212.6	186	32.6	11.0	479	3.22	7.9	1.3	1.7	3.4	43.6	0.28	0.46	0.36	15	1.63	0.077
1096630	Soil			0.30	20.50	21.81	82.5	112	25.2	9.5	520	2.31	5.1	1.1	2.1	2.5	43.2	0.20	0.39	0.26	17	1.78	0.064
1096631	Soil			0.50	23.55	28.32	81.9	116	21.7	10.3	776	3.02	13.8	1.4	2.8	3.5	21.4	0.20	1.12	0.25	25	4.31	0.083
1096632	Soil			0.83	19.57	22.90	57.7	47	21.7	9.6	376	3.22	8.2	1.2	1.3	6.0	7.7	0.14	0.53	0.32	45	0.37	0.026
1096633	Soil			0.56	20.38	25.35	101.4	107	24.4	10.1	599	3.08	11.6	1.2	2.8	3.9	29.8	0.28	0.75	0.26	24	2.59	0.079
1096634	Soil			0.57	19.27	29.77	86.4	87	23.5	11.2	1163	3.68	13.6	0.9	1.2	3.2	16.8	0.21	0.80	0.28	23	1.90	0.067
1096635	Soil			0.67	11.67	25.78	34.0	112	15.4	7.4	981	2.43	13.2	1.2	1.1	2.3	47.7	0.12	1.22	0.16	17	9.65	0.135
1096636	Soil			0.67	21.24	21.66	64.7	177	27.8	11.3	517	3.21	9.4	1.6	2.5	6.1	28.0	0.13	0.47	0.27	32	0.58	0.034
1096637	Soil			0.89	13.65	23.14	76.1	31	24.0	10.6	1149	4.05	10.5	0.8	<0.2	5.4	8.0	0.14	0.65	0.26	43	0.24	0.029
1096638	Soil			0.95	14.29	19.75	56.6	22	22.9	9.0	309	3.48	9.0	0.6	0.7	3.1	7.2	0.10	0.48	0.24	40	0.14	0.029
1096639	Soil			0.70	18.39	20.35	61.1	19	24.5	10.6	337	3.15	9.0	0.8	2.3	4.6	6.6	0.06	0.50	0.24	36	0.11	0.016
1096640	Soil			0.56	27.19	25.26	84.6	81	25.7	11.5	927	3.08	9.5	0.8	2.2	4.1	25.4	0.27	0.70	0.26	22	2.95	0.064
1096641	Soil			0.48	29.73	24.05	83.1	96	26.4	11.0	692	3.06	8.6	1.2	2.2	4.3	38.9	0.20	0.58	0.27	21	3.47	0.062
1096642	Soil			0.63	26.98	33.55	120.4	127	29.4	15.0	640	3.41	9.6	1.1	0.3	3.0	71.9	0.14	0.40	0.33	16	0.82	0.058
1096643	Soil			0.47	29.14	28.32	112.5	97	32.2	14.3	420	3.40	9.2	1.1	1.0	3.3	55.6	0.10	0.37	0.32	15	0.57	0.049
1096644	Soil			0.62	27.28	27.56	98.6	138	39.4	11.3	376	3.07	7.1	2.5	1.1	2.2	109.3	0.09	0.33	0.31	16	2.07	0.093
1096645	Soil			0.45	23.50	26.65	89.5	56	30.4	14.7	521	3.30	8.4	1.7	0.2	3.6	38.5	0.13	0.33	0.30	16	0.66	0.047
1096646	Soil			0.55	25.25	22.68	67.9	79	27.9	12.0	387	3.25	6.9	3.0	1.2	3.7	31.8	0.06	0.33	0.31	26	0.61	0.034
1096647	Soil			0.59	26.16	24.09	80.6	68	24.3	12.2	221	5.30	7.7	0.5	<0.2	3.8	3.1	0.07	0.35	0.40	38	0.02	0.027
1096648	Soil			0.52	19.37	22.33	29.6	47	18.2	10.3	410	2.24	8.5	0.7	0.2	2.1	9.5	0.09	0.56	0.28	16	0.68	0.027



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: October 29, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097995	Soil	11.5	20.3	0.32	139.9	0.002	2	1.38	0.005	0.09	<0.1	4.3	0.15	0.05	57	0.2	0.04	3.5	1.98	<0.1	0.04
1097996	Soil	7.7	25.8	0.32	85.8	0.007	2	1.44	0.002	0.10	<0.1	2.5	0.13	0.02	32	0.4	0.05	5.4	3.19	<0.1	<0.02
1097997	Soil	10.3	11.9	0.20	233.6	0.002	6	0.63	0.007	0.12	<0.1	1.7	0.24	0.07	403	1.4	0.02	1.7	0.79	<0.1	0.04
1097998	Soil	11.1	16.0	0.12	68.5	0.002	2	0.80	0.003	0.05	<0.1	2.2	0.08	0.03	25	0.2	<0.02	2.5	0.50	<0.1	0.03
1097999	Soil	13.1	16.6	0.27	70.0	0.007	5	1.02	0.011	0.07	<0.1	1.5	0.08	0.13	119	0.5	0.04	2.8	0.69	<0.1	0.05
1098000	Soil	10.0	10.4	7.43	43.2	0.001	4	0.44	0.012	0.06	<0.1	2.4	0.08	<0.02	157	0.5	0.05	1.1	0.23	<0.1	0.05
1096625	Soil	9.6	24.3	0.63	95.5	0.005	3	1.46	0.003	0.08	<0.1	2.2	0.11	<0.02	28	0.2	0.04	4.4	1.56	<0.1	0.02
1096626	Soil	9.6	31.9	0.74	88.4	0.006	4	1.73	0.002	0.10	<0.1	2.1	0.12	<0.02	32	0.3	0.04	5.3	1.83	<0.1	<0.02
1096627	Soil	9.4	19.0	0.40	100.0	0.003	3	1.30	0.004	0.08	<0.1	3.6	0.13	0.02	43	<0.1	0.05	3.4	1.87	<0.1	0.04
1096628	Soil	13.9	33.9	0.82	119.5	0.007	4	1.63	0.004	0.12	<0.1	4.4	0.13	0.02	66	0.3	0.03	4.7	1.42	<0.1	0.06
1096629	Soil	11.2	16.6	0.41	123.0	0.002	4	0.95	0.005	0.10	<0.1	3.7	0.13	0.05	178	0.6	0.04	2.8	1.08	<0.1	0.05
1096630	Soil	12.2	23.7	0.84	105.4	0.003	4	1.26	0.005	0.09	<0.1	3.2	0.08	0.05	120	0.3	0.04	3.9	0.58	<0.1	0.05
1096631	Soil	13.1	23.1	2.62	101.2	0.005	3	1.41	0.005	0.08	<0.1	3.7	0.10	0.03	186	0.4	0.06	3.6	0.67	<0.1	0.06
1096632	Soil	17.3	31.6	0.58	95.5	0.005	3	1.84	0.002	0.08	<0.1	3.3	0.15	<0.02	33	0.1	0.04	7.3	1.66	<0.1	0.06
1096633	Soil	13.5	24.4	1.60	95.2	0.005	3	1.43	0.006	0.09	<0.1	3.7	0.10	0.03	113	0.3	0.03	3.9	0.77	<0.1	0.07
1096634	Soil	9.9	22.0	1.19	130.0	0.003	3	1.47	0.005	0.07	<0.1	3.2	0.09	0.03	94	0.2	0.04	4.0	0.72	<0.1	0.05
1096635	Soil	9.6	14.8	5.36	74.6	0.005	4	0.96	0.009	0.06	<0.1	2.7	0.13	0.03	75	0.4	0.05	2.0	0.52	<0.1	0.05
1096636	Soil	26.7	37.5	1.21	125.0	0.004	4	1.99	0.004	0.10	<0.1	6.3	0.16	<0.02	97	0.4	0.03	5.5	1.14	<0.1	0.09
1096637	Soil	11.0	31.3	0.66	114.3	0.005	2	2.35	0.001	0.07	<0.1	3.3	0.17	<0.02	31	0.2	0.06	5.7	1.35	<0.1	0.04
1096638	Soil	7.3	29.0	0.61	85.9	0.004	2	1.99	0.002	0.06	<0.1	2.1	0.11	<0.02	25	0.2	0.05	5.6	1.26	<0.1	0.04
1096639	Soil	8.4	30.7	0.69	69.2	0.005	2	2.05	0.002	0.06	<0.1	3.1	0.12	<0.02	29	0.2	0.04	5.3	1.33	<0.1	0.06
1096640	Soil	12.1	23.4	1.90	88.2	0.004	4	1.45	0.005	0.15	<0.1	3.9	0.11	0.03	117	0.2	0.06	3.8	0.59	<0.1	0.08
1096641	Soil	14.1	25.8	2.28	93.7	0.004	4	1.63	0.006	0.13	<0.1	4.3	0.11	0.03	83	0.2	0.05	4.2	0.88	<0.1	0.09
1096642	Soil	5.8	18.3	0.32	100.8	0.003	4	1.16	0.005	0.08	<0.1	3.8	0.11	0.05	32	0.3	0.04	3.2	1.65	<0.1	0.08
1096643	Soil	5.4	17.0	0.35	80.4	0.002	3	1.16	0.004	0.08	<0.1	3.8	0.09	0.04	34	0.4	0.05	3.2	1.65	<0.1	0.07
1096644	Soil	7.8	31.1	0.49	142.4	0.002	4	1.22	0.005	0.07	<0.1	3.8	0.08	0.08	55	1.1	0.03	3.4	1.01	<0.1	0.07
1096645	Soil	7.4	18.5	0.41	109.8	0.001	2	1.35	0.004	0.08	<0.1	4.4	0.09	0.03	34	0.3	0.04	3.3	1.37	<0.1	0.07
1096646	Soil	10.8	31.5	0.66	122.3	0.004	2	1.66	0.003	0.11	<0.1	4.0	0.11	0.02	50	0.3	0.02	5.4	1.46	<0.1	0.06
1096647	Soil	5.4	35.6	0.44	60.9	0.002	2	2.32	<0.001	0.10	<0.1	3.0	0.16	<0.02	33	0.2	0.03	8.2	1.89	<0.1	0.05
1096648	Soil	7.4	15.1	0.19	53.3	0.002	2	0.87	0.002	0.11	<0.1	2.8	0.06	<0.02	39	0.2	0.02	2.8	0.21	<0.1	0.03



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 3 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1097995	Soil	0.24	8.7	2.3	<0.05	2.1	14.44	31.8	0.04	<1	1.2	29.0	<10	<2
1097996	Soil	0.47	14.9	4.2	<0.05	0.5	5.33	21.2	0.05	<1	1.2	35.7	<10	<2
1097997	Soil	0.13	7.5	4.8	<0.05	1.8	13.93	26.4	0.04	<1	0.7	6.2	<10	<2
1097998	Soil	0.24	6.2	5.4	<0.05	1.4	7.88	38.9	0.02	<1	0.8	6.0	<10	<2
1097999	Soil	0.57	5.9	1.7	<0.05	1.5	11.37	22.5	<0.02	<1	0.5	8.0	<10	<2
1098000	Soil	0.06	5.0	5.1	<0.05	1.6	14.54	18.5	0.02	<1	0.4	3.0	<10	<2
1096625	Soil	0.46	11.0	1.6	<0.05	0.9	5.77	26.3	0.04	<1	0.9	34.4	<10	<2
1096626	Soil	0.48	14.0	3.3	<0.05	0.9	4.04	27.1	0.05	1	0.7	41.6	<10	<2
1096627	Soil	0.23	9.3	1.4	<0.05	1.6	9.27	25.9	0.04	1	1.0	29.6	<10	<2
1096628	Soil	0.48	11.4	3.6	<0.05	2.4	11.16	38.0	0.04	<1	1.2	36.9	<10	<2
1096629	Soil	0.30	8.3	1.8	<0.05	2.2	11.87	30.8	0.04	<1	1.0	16.5	<10	<2
1096630	Soil	0.46	7.8	1.6	<0.05	2.3	11.12	26.3	0.03	<1	0.7	25.0	<10	<2
1096631	Soil	0.37	7.1	2.4	<0.05	2.1	13.42	28.4	0.04	<1	0.8	20.7	<10	<2
1096632	Soil	0.62	12.3	2.7	<0.05	3.9	9.54	37.7	0.02	<1	0.8	25.7	<10	<2
1096633	Soil	0.45	8.5	1.8	<0.05	2.6	12.15	25.6	0.04	<1	0.8	25.0	<10	<2
1096634	Soil	0.33	7.4	1.8	<0.05	1.8	8.64	20.9	0.02	<1	0.9	25.4	<10	<2
1096635	Soil	0.25	6.7	2.6	<0.05	1.4	9.86	19.3	0.02	<1	0.7	11.9	<10	<2
1096636	Soil	0.38	11.9	1.8	<0.05	3.2	20.38	45.5	0.03	1	1.3	40.1	<10	<2
1096637	Soil	0.45	14.2	2.4	<0.05	2.1	4.78	30.0	0.04	<1	1.2	26.1	<10	<2
1096638	Soil	0.55	12.8	3.3	<0.05	2.0	2.18	16.1	0.03	<1	0.7	43.7	<10	<2
1096639	Soil	0.32	8.5	2.2	<0.05	3.0	3.50	22.6	0.04	<1	0.9	38.9	<10	<2
1096640	Soil	0.38	8.4	1.7	<0.05	3.3	11.27	25.6	0.03	<1	1.0	25.5	<10	<2
1096641	Soil	0.43	9.2	2.6	<0.05	3.4	11.14	28.6	0.03	<1	1.0	30.7	<10	<2
1096642	Soil	0.25	8.4	1.9	<0.05	2.4	9.96	15.8	0.03	<1	0.9	36.1	<10	<2
1096643	Soil	0.19	7.4	1.2	<0.05	2.6	9.80	14.4	0.04	2	1.0	40.9	<10	<2
1096644	Soil	0.24	8.2	2.5	<0.05	2.9	13.42	18.1	0.04	<1	1.0	36.3	<10	<2
1096645	Soil	0.19	8.0	1.8	<0.05	3.1	11.32	23.2	0.04	<1	1.1	48.8	<10	<2
1096646	Soil	0.43	12.6	3.2	<0.05	1.9	9.96	23.5	0.03	<1	1.0	35.5	<10	<2
1096647	Soil	0.52	15.8	2.6	<0.05	2.4	3.30	12.3	0.04	<1	1.0	35.2	<10	<2
1096648	Soil	0.23	7.7	3.8	<0.05	1.2	6.97	16.4	0.03	<1	0.7	5.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 29, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1096649	Soil			0.53	17.62	25.02	74.7	58	21.5	8.9	403	3.74	8.2	0.8	<0.2	3.7	13.7	0.10	0.79	0.34	23	0.63	0.046
1096650	Soil			0.71	11.91	19.65	78.7	29	18.9	8.4	633	3.71	8.4	0.8	0.2	3.7	8.5	0.28	0.55	0.28	49	0.11	0.038
1098327	Soil			0.44	16.84	31.52	189.5	121	15.4	8.4	2096	5.19	21.6	1.3	0.3	0.9	18.6	0.46	1.90	0.22	20	7.16	0.154
1098328	Soil			0.78	15.05	28.68	131.2	130	19.0	8.7	2730	6.64	15.8	1.4	0.8	1.7	11.6	0.29	1.37	0.27	37	1.27	0.178
1098329	Soil			0.64	16.86	36.26	73.8	50	19.6	11.5	1258	2.94	9.9	0.6	<0.2	3.2	4.4	0.12	1.23	0.31	23	0.32	0.062
1098330	Soil			0.68	25.05	17.88	47.7	59	27.6	15.8	2204	3.77	15.0	1.2	0.5	3.4	10.9	0.13	0.64	0.34	31	0.57	0.042
1098331	Soil			0.56	31.75	31.58	51.1	29	27.5	23.7	878	3.17	3.8	1.0	0.3	4.9	11.3	0.11	0.31	0.36	25	0.30	0.035
1098332	Soil			0.66	26.18	37.82	103.7	131	17.7	17.3	2112	4.58	8.5	0.5	0.5	0.4	11.5	0.27	0.57	0.35	31	0.08	0.149
1098333	Soil			0.84	24.68	37.96	79.8	125	19.7	13.6	756	3.40	10.9	0.6	0.4	0.9	22.7	0.15	0.48	0.34	21	0.15	0.085
1098334	Soil			0.78	25.72	36.49	116.0	117	28.0	16.2	931	4.52	8.0	0.5	<0.2	2.4	6.5	0.14	0.37	0.37	20	0.02	0.055
1098335	Soil			0.51	32.41	36.59	134.6	191	40.3	17.1	743	3.98	7.7	0.7	<0.2	5.6	57.6	0.14	0.31	0.54	14	0.62	0.048
1098336	Soil			0.43	18.01	29.45	70.4	96	18.4	7.8	554	1.91	11.0	1.5	1.7	1.3	81.0	0.18	0.96	0.21	13	10.38	0.119
1098337	Soil			0.64	22.84	33.67	82.3	119	32.2	15.5	1781	5.04	22.2	1.4	5.5	5.2	15.2	0.23	1.79	0.46	34	1.51	0.109
1098338	Soil			0.69	23.27	26.30	85.9	56	25.1	12.5	1674	3.88	11.7	0.9	2.3	3.9	8.9	0.32	0.67	0.36	32	0.88	0.054
1098339	Soil			0.73	19.93	16.83	76.2	85	24.7	12.9	411	3.17	5.0	0.7	1.6	3.0	7.6	0.18	0.33	0.33	34	0.25	0.036
1098340	Soil			0.69	14.85	16.61	78.4	212	20.0	8.3	246	3.65	5.2	0.5	1.0	4.0	4.9	0.09	0.30	0.29	40	0.04	0.030
617801	Soil			0.70	20.42	26.91	86.7	82	37.9	12.7	704	4.19	6.2	0.9	0.4	6.5	13.6	0.12	0.38	0.34	22	0.13	0.048
617802	Soil			0.88	19.58	27.95	146.6	195	27.0	8.8	423	3.17	9.8	1.0	2.0	2.5	23.2	0.25	0.64	0.30	30	0.64	0.076
617803	Soil			0.67	31.95	31.84	98.2	150	31.2	12.5	287	3.35	10.2	0.9	1.1	3.4	29.1	0.11	0.35	0.33	16	0.42	0.049
617804	Soil			0.57	31.16	31.30	96.1	154	30.6	12.6	325	3.32	9.8	1.0	1.2	3.3	27.3	0.12	0.33	0.34	17	0.34	0.047
617805	Soil			0.59	20.61	23.65	79.2	123	21.9	8.3	379	2.80	8.8	0.9	1.2	2.1	41.9	0.18	0.62	0.26	21	3.05	0.076
617806	Soil			0.42	23.80	21.74	116.7	117	22.7	6.9	132	2.52	4.3	0.9	0.6	2.2	30.0	0.16	0.25	0.30	19	1.01	0.075
617807	Soil			0.57	24.57	23.12	81.8	103	25.4	12.8	523	3.62	5.8	0.7	0.6	2.5	14.1	0.11	0.28	0.34	30	0.30	0.044
617808	Soil			0.60	24.93	26.13	124.7	242	31.5	7.6	138	2.65	6.0	1.5	0.8	2.3	43.5	0.24	0.29	0.31	15	0.95	0.091
617809	Soil			0.42	22.74	19.81	94.9	124	29.1	7.9	172	2.48	4.8	3.7	0.6	2.1	68.4	0.18	0.27	0.26	15	1.58	0.063
617810	Soil			0.41	24.25	22.23	77.5	61	26.3	11.1	503	3.43	5.8	1.1	0.9	4.0	36.2	0.10	0.22	0.32	25	0.81	0.028
617811	Soil			0.60	34.19	18.38	67.8	208	29.1	10.9	532	3.05	5.9	1.9	1.0	2.9	38.1	0.18	0.31	0.31	27	0.91	0.058
617812	Soil			0.66	22.33	23.98	87.4	75	23.2	11.6	346	3.96	5.7	0.7	0.4	3.9	8.8	0.10	0.26	0.37	38	0.08	0.034
617813	Soil			0.61	27.12	30.54	85.7	75	21.3	14.0	439	4.19	6.2	0.6	<0.2	3.8	6.1	0.12	0.19	0.40	38	0.03	0.035
617814	Soil			0.74	17.39	21.43	73.5	82	14.0	7.1	222	3.75	4.7	0.4	<0.2	3.0	5.2	0.13	0.24	0.35	40	0.06	0.036



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 29, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	Unit	MDL	1F15 La	1F15 Cr	1F15 Mg	1F15 Ba	1F15 Ti	1F15 B	1F15 Al	1F15 Na	1F15 K	1F15 W	1F15 Sc	1F15 Ti	1F15 S	1F15 Hg	1F15 Se	1F15 Te	1F15 Ga	1F15 Cs	1F15 Ge	1F15 Hf
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1096649	Soil			7.1	22.2	0.37	122.7	0.002	3	1.49	0.003	0.09	<0.1	3.1	0.11	<0.02	46	0.3	0.04	4.0	0.70	<0.1	0.06
1096650	Soil			11.0	29.3	0.39	124.7	0.006	2	2.15	0.001	0.06	0.1	2.7	0.15	<0.02	24	0.2	0.04	6.3	1.33	<0.1	0.03
1098327	Soil			13.0	16.0	3.58	123.9	0.003	3	1.15	0.007	0.05	<0.1	1.8	0.09	0.09	214	0.5	0.07	2.2	0.27	<0.1	0.04
1098328	Soil			21.9	25.1	0.67	167.7	0.007	2	1.88	0.003	0.06	0.1	2.9	0.12	0.08	223	0.4	0.06	4.3	0.56	<0.1	0.05
1098329	Soil			5.0	18.2	0.21	98.5	0.002	2	1.11	0.001	0.10	<0.1	3.2	0.08	0.03	42	0.2	0.07	3.3	0.24	<0.1	0.08
1098330	Soil			16.5	23.3	0.26	152.9	0.004	2	1.55	0.002	0.14	<0.1	4.7	0.11	0.02	44	0.3	0.06	4.2	0.33	<0.1	0.08
1098331	Soil			7.8	24.5	0.31	217.6	0.004	3	1.53	0.001	0.33	<0.1	4.1	0.15	0.02	29	0.1	0.02	5.7	1.42	<0.1	0.04
1098332	Soil			3.6	22.8	0.23	132.4	0.004	2	1.32	0.002	0.11	<0.1	0.5	0.09	0.07	35	0.3	0.07	4.7	3.33	<0.1	<0.02
1098333	Soil			4.4	17.8	0.26	125.6	0.003	2	1.04	0.013	0.15	<0.1	1.1	0.10	0.15	21	0.3	0.08	3.0	2.02	<0.1	<0.02
1098334	Soil			3.5	16.7	0.20	94.6	0.002	2	1.19	0.002	0.11	<0.1	2.8	0.14	0.03	21	0.3	0.05	3.6	1.87	<0.1	0.02
1098335	Soil			8.5	19.5	0.31	126.6	0.002	3	1.15	0.004	0.13	<0.1	5.0	0.21	0.04	70	0.3	0.03	3.5	2.48	<0.1	0.06
1098336	Soil			8.4	10.8	4.25	51.8	0.003	3	0.68	0.007	0.08	<0.1	1.5	0.08	0.04	92	0.3	0.07	1.5	0.35	<0.1	0.04
1098337	Soil			18.1	30.8	0.91	134.8	0.002	2	1.95	0.002	0.11	<0.1	6.3	0.16	<0.02	138	0.2	0.09	5.3	0.60	<0.1	0.13
1098338	Soil			14.8	23.9	0.59	106.7	0.003	2	1.61	0.002	0.15	<0.1	4.6	0.13	0.03	45	0.2	0.03	4.6	0.24	<0.1	0.09
1098339	Soil			9.2	28.7	0.46	124.8	0.004	2	1.78	<0.001	0.18	<0.1	2.5	0.13	<0.02	13	0.1	0.03	5.8	0.89	<0.1	<0.02
1098340	Soil			9.4	34.9	0.49	70.5	0.002	<1	2.24	<0.001	0.10	<0.1	2.4	0.13	<0.02	35	0.2	<0.02	7.2	0.99	<0.1	0.05
617801	Soil			13.9	24.0	0.35	259.6	0.004	3	1.97	0.003	0.11	<0.1	5.0	0.17	<0.02	27	0.2	0.02	3.5	2.36	<0.1	0.05
617802	Soil			12.0	23.1	0.38	107.7	0.008	2	1.30	0.005	0.09	0.1	3.2	0.11	0.04	66	0.3	<0.02	3.7	0.84	<0.1	0.05
617803	Soil			6.5	20.4	0.31	77.8	0.002	3	1.16	0.004	0.10	<0.1	4.4	0.10	0.02	32	0.4	0.06	3.1	1.86	<0.1	0.08
617804	Soil			6.1	19.3	0.31	78.3	0.002	3	1.19	0.004	0.10	<0.1	4.4	0.11	0.02	21	0.3	0.04	3.2	1.88	<0.1	0.06
617805	Soil			10.5	20.8	1.53	82.3	0.005	3	1.10	0.008	0.09	<0.1	2.9	0.09	0.04	104	0.2	0.03	3.4	0.73	<0.1	0.05
617806	Soil			6.9	22.1	0.35	95.0	0.003	3	1.35	0.006	0.09	<0.1	3.5	0.11	0.08	59	0.2	<0.02	4.1	1.21	<0.1	0.10
617807	Soil			7.1	31.0	0.42	112.8	0.004	1	1.78	0.003	0.10	<0.1	2.6	0.11	<0.02	40	0.1	<0.02	6.1	1.27	<0.1	<0.02
617808	Soil			7.7	19.5	0.29	93.8	0.002	4	1.33	0.005	0.09	<0.1	4.3	0.11	0.08	87	0.3	0.03	3.2	1.71	<0.1	0.09
617809	Soil			5.8	17.4	0.48	134.4	0.002	4	1.20	0.007	0.10	<0.1	3.2	0.08	0.12	55	0.7	0.03	3.0	0.77	<0.1	0.09
617810	Soil			8.7	29.5	0.58	160.0	0.003	2	1.72	0.003	0.11	<0.1	4.3	0.10	0.03	49	0.2	0.03	5.8	0.76	<0.1	0.07
617811	Soil			14.0	30.0	0.39	156.3	0.003	3	1.63	0.003	0.12	<0.1	4.4	0.11	0.03	55	0.3	<0.02	5.3	1.12	<0.1	0.04
617812	Soil			10.5	35.2	0.45	113.5	0.003	1	1.93	0.003	0.11	<0.1	3.1	0.10	<0.02	18	0.2	0.02	7.4	1.68	<0.1	0.03
617813	Soil			7.8	35.0	0.31	85.0	0.002	<1	2.13	0.003	0.11	<0.1	3.3	0.11	<0.02	21	0.2	0.02	7.8	1.51	<0.1	0.04
617814	Soil			6.3	29.4	0.23	72.5	0.002	<1	1.85	0.004	0.11	<0.1	2.4	0.11	<0.02	27	0.1	0.02	7.4	1.29	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 4 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1096649	Soil	0.33	9.3	1.4	<0.05	2.1	5.22	17.2	0.04	<1	0.8	25.6	<10	<2
1096650	Soil	0.82	9.3	1.7	<0.05	1.5	3.83	24.6	0.04	<1	0.7	27.1	<10	<2
1098327	Soil	0.19	4.0	0.8	<0.05	0.8	15.57	21.0	0.02	<1	0.5	4.9	<10	<2
1098328	Soil	0.38	6.7	0.7	<0.05	2.0	22.57	34.8	0.03	<1	0.9	10.7	<10	<2
1098329	Soil	0.21	7.7	1.6	<0.05	2.3	5.77	16.0	0.02	<1	0.6	5.7	<10	<2
1098330	Soil	0.46	9.5	1.4	<0.05	2.4	11.77	34.5	0.04	<1	1.1	9.4	<10	<2
1098331	Soil	0.32	18.7	1.2	<0.05	2.0	8.24	21.9	0.03	<1	1.3	15.7	<10	<2
1098332	Soil	0.20	15.0	2.1	<0.05	0.7	2.94	8.7	0.03	<1	0.8	15.0	<10	<2
1098333	Soil	0.19	10.3	1.2	<0.05	0.4	3.59	11.9	0.04	<1	0.9	20.6	<10	<2
1098334	Soil	0.19	11.8	1.4	<0.05	0.8	4.22	11.4	0.04	1	0.8	22.0	<10	<2
1098335	Soil	0.16	11.5	0.9	<0.05	2.1	13.47	24.2	0.05	<1	1.0	31.4	<10	<2
1098336	Soil	0.19	3.4	1.4	<0.05	1.2	10.92	16.6	0.03	1	0.4	6.4	<10	<2
1098337	Soil	0.45	10.2	1.2	<0.05	4.3	26.54	39.7	0.03	<1	1.2	14.4	<10	<2
1098338	Soil	0.43	8.7	1.2	<0.05	2.4	13.16	34.0	0.04	<1	1.2	12.3	<10	<2
1098339	Soil	0.54	15.7	1.1	<0.05	0.8	3.91	22.3	0.03	<1	0.9	27.7	<10	<2
1098340	Soil	0.73	15.3	1.5	<0.05	2.1	2.49	21.1	0.03	<1	0.5	42.1	<10	<2
617801	Soil	0.35	12.5	1.3	<0.05	2.3	11.74	73.1	0.05	<1	1.5	33.7	<10	<2
617802	Soil	0.47	9.1	0.9	<0.05	1.6	11.28	28.0	0.03	<1	0.8	17.1	<10	<2
617803	Soil	0.19	8.1	1.3	<0.05	2.8	11.89	17.3	0.04	<1	1.0	34.3	<10	<2
617804	Soil	0.15	8.2	1.6	<0.05	2.8	11.75	17.0	0.04	<1	0.9	34.7	<10	<2
617805	Soil	0.37	7.6	1.3	<0.05	1.7	11.11	21.0	0.03	<1	0.8	16.5	<10	<2
617806	Soil	0.45	11.4	2.3	<0.05	3.0	10.21	15.9	0.03	<1	1.0	22.7	<10	<2
617807	Soil	0.52	12.8	1.2	<0.05	0.8	5.56	17.2	0.04	<1	0.9	29.0	<10	<2
617808	Soil	0.30	10.1	3.1	<0.05	3.5	15.79	18.6	0.04	<1	1.3	32.4	<10	<2
617809	Soil	0.37	7.2	0.7	<0.05	3.3	10.33	13.2	0.02	<1	0.9	29.5	<10	<2
617810	Soil	0.57	10.8	1.7	<0.05	2.5	7.77	19.2	0.04	<1	1.0	31.4	<10	<2
617811	Soil	0.55	13.2	1.0	<0.05	1.3	16.67	28.9	0.03	<1	1.1	22.6	<10	<2
617812	Soil	0.54	15.8	1.6	<0.05	1.3	5.00	25.0	0.04	<1	1.1	34.0	<10	<2
617813	Soil	0.42	17.0	1.6	<0.05	1.7	4.42	18.4	0.03	<1	1.2	40.5	<10	<2
617814	Soil	0.66	16.2	2.2	<0.05	1.5	2.43	14.0	0.03	<1	0.6	29.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 29, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
617815	Soil	0.90	12.62	21.94	52.5	159	13.0	5.9	183	3.68	7.0	0.5	<0.2	2.3	5.2	0.08	0.37	0.29	45	0.04	0.042
617816	Soil	0.27	42.56	30.34	18.9	189	46.2	18.4	696	2.73	14.5	1.4	5.8	2.1	14.0	0.07	2.07	0.21	12	5.51	0.092
617817	Soil	0.22	3.46	6.73	12.9	40	2.7	1.5	1154	0.99	4.1	0.9	<0.2	<0.1	37.3	0.10	0.23	0.04	3	11.86	0.141
617818	Soil	0.83	12.20	21.40	81.0	79	22.2	9.3	1791	3.68	11.8	1.0	1.3	2.4	14.7	0.24	0.62	0.24	50	2.63	0.094
617819	Soil	0.48	9.57	10.37	36.1	128	12.0	5.1	615	1.42	6.4	0.9	0.6	0.8	23.8	0.19	0.44	0.11	17	5.53	0.125
617820	Soil	0.92	16.98	33.07	72.4	93	24.6	10.8	2588	4.57	14.4	0.9	1.5	3.4	15.8	0.25	1.05	0.30	43	2.37	0.087
617821	Soil	0.72	16.60	29.90	68.1	45	24.8	12.2	2452	4.25	11.0	0.9	0.3	4.9	13.0	0.16	0.64	0.29	31	2.24	0.043
617822	Soil	0.50	20.19	22.18	49.0	136	19.2	9.0	991	2.35	7.5	0.9	2.1	2.8	26.2	0.12	0.45	0.21	17	3.44	0.066
617823	Soil	0.61	17.82	22.67	61.7	67	24.3	12.9	945	3.45	9.1	0.8	0.4	4.6	10.4	0.23	0.44	0.30	31	0.28	0.033
617824	Soil	0.86	11.43	22.55	82.6	140	18.6	8.9	1346	4.20	9.1	1.2	0.2	3.0	14.3	0.37	0.59	0.28	47	0.78	0.051
617825	Soil	0.61	15.50	23.80	80.6	49	22.8	10.1	1178	4.02	9.4	0.9	0.5	5.0	9.5	0.19	0.39	0.26	31	1.13	0.029
617826	Soil	0.54	19.21	22.27	74.6	39	25.1	10.6	565	4.05	9.5	1.1	0.9	4.8	8.0	0.12	0.38	0.29	26	0.28	0.026
617827	Soil	0.72	17.40	23.65	77.3	98	23.8	9.7	714	4.03	11.1	2.5	0.5	4.6	21.8	0.28	0.51	0.28	30	0.65	0.056
617828	Soil	0.62	15.01	20.58	64.0	73	18.6	8.4	1632	3.32	9.6	1.9	0.4	3.4	17.9	0.11	0.52	0.23	26	2.71	0.060
1098098	Soil	0.57	16.80	35.77	206.5	122	19.7	8.3	1878	3.80	10.5	1.3	0.4	1.7	29.7	0.60	0.88	0.23	20	2.16	0.131
1098099	Soil	0.61	17.06	38.85	365.5	250	16.8	8.4	2371	4.63	15.4	2.8	0.9	1.5	22.8	0.59	1.50	0.24	34	5.73	0.204
1098100	Soil	0.94	13.79	28.08	113.7	92	18.7	7.5	1982	5.02	15.8	1.0	7.2	1.8	8.6	0.32	0.85	0.23	44	0.53	0.096
1097607	Soil	0.53	15.95	29.07	62.6	114	18.7	9.8	1755	4.23	11.9	0.8	0.7	2.3	13.9	0.16	0.60	0.26	29	1.81	0.081
1097608	Soil	1.23	57.50	17.75	57.3	37	34.1	17.1	677	2.41	5.5	1.3	2.9	4.7	11.9	0.20	0.48	0.34	20	0.98	0.035
1097609	Soil	0.87	24.86	34.20	80.3	101	17.6	15.0	1602	3.65	7.8	0.6	1.1	0.3	9.0	0.21	0.48	0.25	28	0.12	0.092
1097610	Soil	0.96	25.16	30.39	97.0	136	18.9	12.8	808	3.70	8.5	0.6	0.9	0.3	13.8	0.35	0.52	0.36	27	0.15	0.086
1097611	Soil	0.50	23.26	27.82	109.3	50	26.5	13.9	500	4.19	5.4	0.3	1.0	3.2	3.6	0.09	0.23	0.34	19	0.01	0.034
1097612	Soil	0.59	29.48	31.42	126.8	108	31.8	13.0	303	3.26	8.7	0.8	1.1	2.7	40.4	0.16	0.43	0.27	15	0.77	0.057
1097613	Soil	0.36	15.27	18.39	60.9	97	16.1	8.4	841	2.34	7.2	0.7	0.9	1.3	21.9	0.12	0.56	0.18	15	4.24	0.096
1097614	Soil	0.65	20.68	23.74	77.8	71	26.5	12.8	659	3.22	10.3	1.0	2.0	3.4	19.4	0.10	0.82	0.25	25	2.33	0.075
1097615	Soil	0.61	20.49	22.62	82.1	91	23.7	11.3	796	3.24	8.8	1.0	1.2	1.7	31.6	0.14	0.61	0.24	25	1.48	0.091
1097616	Soil	0.84	14.73	15.70	64.0	133	19.4	9.7	1185	2.63	8.9	0.8	1.3	1.4	16.7	0.20	0.69	0.18	28	3.58	0.079
1097617	Soil	0.67	19.28	15.91	53.3	50	20.2	9.6	223	3.07	8.5	0.5	0.9	1.2	3.7	0.08	0.51	0.27	29	0.08	0.037
1097618	Soil	0.53	20.95	15.86	77.3	73	19.6	10.7	285	3.81	3.4	0.5	0.6	2.5	5.4	0.06	0.19	0.26	32	0.06	0.035
1097619	Soil	0.43	31.29	19.31	90.5	90	30.2	10.8	435	3.23	4.9	0.7	1.5	2.8	38.5	0.07	0.26	0.26	25	1.04	0.061



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 29, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	
617815	Soil	8.0	24.7	0.25	68.0	0.005	<1	1.57	0.001	0.07	<0.1	1.8	0.12	<0.02	29	0.2	0.06	6.4	1.29	<0.1	<0.02
617816	Soil	6.7	13.9	2.92	50.5	<0.001	2	0.88	0.006	0.06	<0.1	5.6	0.13	0.04	159	0.2	0.03	1.2	0.25	<0.1	0.11
617817	Soil	2.7	3.4	6.42	51.2	0.002	3	0.27	0.012	0.01	<0.1	0.2	0.05	0.03	22	0.2	<0.02	0.5	0.12	<0.1	<0.02
617818	Soil	14.6	31.5	1.94	166.0	0.010	4	2.19	0.006	0.06	0.2	3.4	0.14	0.03	23	0.2	0.04	5.3	1.05	<0.1	0.06
617819	Soil	6.3	11.5	3.10	58.4	0.007	2	0.80	0.006	0.03	<0.1	1.0	0.09	0.02	57	0.2	<0.02	1.6	0.37	<0.1	0.03
617820	Soil	16.2	29.6	1.75	167.3	0.008	5	2.28	0.007	0.09	<0.1	4.4	0.18	0.05	21	0.3	0.08	5.1	0.95	<0.1	0.12
617821	Soil	19.0	32.4	1.87	155.8	0.003	3	2.11	0.003	0.11	<0.1	5.2	0.18	0.02	34	0.2	0.05	5.4	0.88	<0.1	0.12
617822	Soil	10.2	18.8	2.10	68.5	0.004	3	1.07	0.006	0.08	<0.1	3.2	0.10	0.02	67	0.2	0.03	3.0	0.68	<0.1	0.06
617823	Soil	13.9	29.1	0.63	89.3	0.004	3	1.97	0.003	0.12	<0.1	3.7	0.13	<0.02	29	0.2	0.03	5.5	0.93	<0.1	0.08
617824	Soil	12.4	30.5	0.54	123.9	0.014	3	1.96	0.005	0.07	<0.1	3.2	0.13	0.03	47	0.2	0.05	5.6	1.19	<0.1	0.05
617825	Soil	14.8	29.6	1.05	100.5	0.003	2	1.94	0.003	0.09	<0.1	4.3	0.16	<0.02	31	0.2	0.03	5.3	1.11	<0.1	0.07
617826	Soil	10.6	27.8	0.66	86.7	0.002	2	1.95	0.002	0.11	<0.1	3.3	0.13	<0.02	30	0.2	0.05	4.6	0.98	<0.1	0.06
617827	Soil	16.3	30.5	0.67	114.4	0.006	3	1.87	0.003	0.08	<0.1	4.5	0.12	0.03	42	0.2	0.05	4.5	0.97	<0.1	0.07
617828	Soil	15.9	23.8	1.69	135.7	0.006	2	1.29	0.005	0.07	<0.1	3.8	0.11	0.02	61	0.2	0.03	3.5	0.67	<0.1	0.06
1098098	Soil	23.5	17.4	0.78	114.5	0.003	6	0.91	0.005	0.13	<0.1	2.7	0.11	0.09	196	0.3	0.07	2.6	0.15	<0.1	0.07
1098099	Soil	21.0	19.1	2.92	135.8	0.005	2	1.45	0.007	0.05	<0.1	2.9	0.10	0.07	431	0.5	0.07	3.7	0.42	<0.1	0.05
1098100	Soil	13.1	29.0	0.43	170.7	0.010	2	2.01	0.004	0.06	<0.1	3.2	0.20	0.06	58	0.4	0.04	4.9	0.90	<0.1	0.05
1097607	Soil	14.3	23.5	0.95	114.1	0.006	4	1.50	0.004	0.11	<0.1	3.8	0.13	0.04	66	<0.1	0.06	4.2	0.49	<0.1	0.07
1097608	Soil	16.2	16.7	0.26	67.3	0.003	4	0.99	0.002	0.24	<0.1	4.8	0.13	<0.02	44	0.4	0.11	3.2	0.45	<0.1	0.09
1097609	Soil	3.3	18.9	0.24	97.6	0.005	2	1.07	0.002	0.07	<0.1	0.7	0.08	0.07	24	0.3	0.05	3.6	2.76	<0.1	<0.02
1097610	Soil	3.8	20.3	0.22	112.8	0.005	2	0.98	0.003	0.10	<0.1	0.8	0.06	0.06	24	0.5	0.04	4.0	1.69	<0.1	<0.02
1097611	Soil	2.5	17.3	0.22	76.8	0.001	1	1.36	0.001	0.07	<0.1	2.8	0.15	<0.02	14	0.2	<0.02	4.1	1.89	<0.1	0.04
1097612	Soil	6.5	17.1	0.42	87.7	0.004	3	1.01	0.003	0.07	<0.1	3.7	0.09	0.04	54	0.6	0.04	2.7	1.43	<0.1	0.07
1097613	Soil	5.9	15.1	2.43	79.4	0.003	4	0.90	0.005	0.05	<0.1	1.6	0.05	0.07	67	0.3	0.04	2.4	0.45	<0.1	0.07
1097614	Soil	9.3	23.3	1.39	85.7	0.004	1	1.32	0.004	0.07	<0.1	3.4	0.08	0.04	69	0.1	0.04	3.8	0.66	<0.1	0.07
1097615	Soil	11.5	20.7	0.81	83.1	0.007	2	1.25	0.004	0.05	0.1	2.5	0.06	0.05	84	0.3	<0.02	3.6	0.58	<0.1	0.07
1097616	Soil	9.6	20.1	2.38	100.4	0.010	<1	1.20	0.007	0.05	0.1	2.1	0.08	0.07	58	0.4	0.05	3.0	0.55	<0.1	0.03
1097617	Soil	5.9	22.1	0.26	45.4	0.006	2	1.05	0.002	0.09	<0.1	1.5	0.07	0.02	28	0.4	0.06	3.7	0.74	<0.1	<0.02
1097618	Soil	5.1	27.0	0.32	116.3	0.002	<1	1.71	0.001	0.18	<0.1	2.2	0.10	<0.02	15	0.3	0.05	6.4	0.65	<0.1	0.02
1097619	Soil	8.5	31.4	0.55	140.2	0.005	2	1.61	0.005	0.11	<0.1	3.9	0.09	0.06	53	0.4	0.08	5.5	1.07	<0.1	0.10



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 5 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
617815	Soil	0.95	11.7	1.7	<0.05	0.9	2.01	17.6	0.03	<1	0.6	19.4	<10	<2
617816	Soil	0.06	3.8	1.1	<0.05	4.0	17.95	16.0	0.05	<1	1.0	2.5	<10	<2
617817	Soil	0.07	1.2	1.9	<0.05	0.6	5.45	5.1	<0.02	<1	0.2	1.3	<10	<2
617818	Soil	0.57	9.0	1.7	<0.05	1.7	14.03	30.5	0.04	<1	1.0	16.5	<10	<2
617819	Soil	0.21	3.5	0.6	<0.05	0.7	6.99	13.7	<0.02	<1	0.3	6.4	<10	<2
617820	Soil	0.57	11.0	1.3	<0.05	3.0	17.04	33.4	0.04	<1	1.2	17.0	<10	<2
617821	Soil	0.37	14.5	1.4	<0.05	3.5	14.71	39.0	0.03	<1	1.2	25.3	<10	<2
617822	Soil	0.26	6.6	1.6	<0.05	2.3	11.09	22.1	0.02	<1	0.7	18.2	<10	<2
617823	Soil	0.44	14.7	0.8	<0.05	2.7	6.36	36.1	0.04	<1	0.9	28.6	<10	<2
617824	Soil	0.91	12.5	0.9	<0.05	1.6	7.39	27.3	0.04	<1	0.9	16.2	<10	<2
617825	Soil	0.32	13.4	1.1	<0.05	2.9	9.48	34.2	0.03	<1	1.1	28.0	<10	<2
617826	Soil	0.30	13.8	1.1	<0.05	2.6	6.09	25.2	0.03	<1	1.1	31.9	<10	<2
617827	Soil	0.57	11.9	0.8	<0.05	2.4	12.68	36.6	0.05	<1	1.3	32.3	<10	<2
617828	Soil	0.37	9.0	1.3	<0.05	1.6	12.70	33.4	0.03	<1	1.1	20.4	<10	<2
1098098	Soil	0.17	5.0	1.0	<0.05	2.2	21.24	48.3	0.03	<1	0.9	5.2	<10	<2
1098099	Soil	0.24	6.7	1.4	<0.05	1.5	24.39	35.5	0.05	<1	0.8	6.7	<10	<2
1098100	Soil	0.46	9.5	0.7	<0.05	1.6	11.60	21.7	0.03	<1	1.1	12.0	<10	<2
1097607	Soil	0.44	8.0	1.5	<0.05	2.0	15.41	28.1	0.04	<1	0.9	13.5	<10	<2
1097608	Soil	0.35	11.4	2.0	<0.05	3.5	14.92	40.8	0.05	<1	1.5	7.9	<10	<2
1097609	Soil	0.15	10.7	3.5	<0.05	0.2	4.41	9.1	0.03	2	0.5	20.0	<10	<2
1097610	Soil	0.24	13.2	1.6	<0.05	0.2	3.07	9.6	<0.02	<1	0.2	13.7	<10	<2
1097611	Soil	0.16	13.7	1.3	<0.05	1.6	3.13	8.2	0.05	<1	0.9	24.0	<10	<2
1097612	Soil	0.19	6.9	0.9	<0.05	2.7	11.24	17.1	0.02	2	0.4	23.1	<10	<2
1097613	Soil	0.22	5.6	1.5	<0.05	1.8	8.67	13.9	<0.02	<1	0.7	11.0	<10	<2
1097614	Soil	0.40	7.4	1.0	<0.05	2.0	10.49	22.9	0.03	<1	0.5	16.9	<10	2
1097615	Soil	0.32	6.2	1.0	<0.05	1.5	12.03	23.2	<0.02	<1	1.3	15.6	<10	2
1097616	Soil	0.45	6.4	0.7	<0.05	1.3	8.86	21.0	<0.02	<1	0.5	10.3	<10	<2
1097617	Soil	0.51	8.9	1.5	<0.05	0.3	2.56	15.8	0.02	5	0.5	12.2	<10	<2
1097618	Soil	0.44	17.0	1.2	<0.05	0.9	2.66	11.2	0.02	<1	1.2	23.0	<10	<2
1097619	Soil	0.49	13.7	2.8	<0.05	2.7	10.56	17.1	0.03	3	2.0	21.5	<10	3



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 29, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
617951	Soil			0.70	37.74	61.99	60.3	234	50.6	15.3	169	2.80	20.7	1.8	1.8	3.4	121.3	0.06	1.19	0.32	4	7.79	0.082
617952	Soil			0.63	37.30	32.74	113.6	100	38.6	18.3	645	3.81	10.0	0.8	1.0	3.3	37.5	0.08	0.33	0.31	17	0.38	0.035
617953	Soil			0.46	16.58	22.35	110.9	65	13.6	5.9	700	1.42	6.9	1.5	2.0	0.5	96.6	0.53	0.67	0.13	10	5.91	0.103
617954	Soil			0.50	23.36	26.33	84.7	60	25.2	13.2	804	3.34	6.7	0.9	1.3	3.3	13.9	0.18	0.38	0.26	22	0.94	0.034
617955	Soil			0.51	25.53	19.24	69.8	78	22.2	10.8	524	2.88	5.9	0.6	0.8	1.9	20.5	0.23	0.38	0.26	22	1.03	0.051
617956	Soil			0.35	24.66	20.60	91.2	53	26.5	12.9	526	3.43	5.4	0.6	0.9	3.1	13.2	0.12	0.27	0.23	23	0.40	0.041
617957	Soil			1.07	27.06	26.25	127.9	50	26.5	16.0	730	3.93	5.8	1.1	1.0	3.0	5.3	0.26	0.47	0.24	39	0.36	0.035
617958	Soil			0.39	10.98	11.75	39.8	68	11.0	6.1	1184	3.00	8.6	1.0	1.7	0.6	12.8	0.18	0.54	0.15	17	1.99	0.098
617959	Soil			0.53	31.45	26.45	112.2	90	25.0	26.0	621	4.27	3.5	0.6	0.8	3.9	3.2	0.14	0.21	0.30	33	0.02	0.027
617960	Soil			0.82	21.22	14.99	58.3	109	13.9	6.5	260	3.72	4.7	0.4	0.9	2.7	4.1	0.14	0.35	0.28	43	0.03	0.030
617961	Soil			1.19	21.71	16.34	69.1	128	21.7	9.2	268	4.70	7.6	0.5	1.1	2.8	4.6	0.14	0.62	0.29	48	0.06	0.037
617962	Soil			0.61	14.86	12.91	83.3	163	16.2	7.4	287	3.64	4.0	0.4	1.1	3.6	3.6	0.10	0.30	0.27	43	0.02	0.034
617963	Soil			0.55	13.22	11.80	89.1	57	13.4	7.6	267	3.28	3.4	0.3	0.2	2.4	5.6	0.09	0.25	0.25	39	0.06	0.028
617964	Soil			0.35	11.00	12.55	115.1	77	12.8	7.5	184	3.19	2.9	0.2	<0.2	2.4	3.3	0.04	0.14	0.21	36	0.03	0.024
617965	Soil			0.76	25.89	26.41	65.5	327	23.4	15.6	1597	3.75	9.7	0.5	0.8	0.3	15.8	0.12	0.54	0.25	31	0.18	0.098
617966	Soil			1.07	24.51	27.36	95.4	176	15.6	22.3	2407	3.44	8.5	0.5	0.7	0.2	11.9	0.28	0.64	0.28	35	0.10	0.085
617967	Soil			1.22	21.18	23.29	85.6	312	13.9	6.4	233	2.19	4.9	0.7	2.8	0.2	24.5	0.74	0.53	0.24	28	0.28	0.084
617968	Soil			0.44	27.12	25.54	113.6	90	34.5	13.3	409	4.03	4.5	0.6	0.5	4.4	26.3	0.07	0.18	0.34	15	0.19	0.034
617969	Soil			0.51	24.21	27.91	110.5	52	34.0	14.6	375	4.06	5.0	0.5	0.9	6.6	49.2	0.10	0.14	0.31	13	0.57	0.039
1098930	Soil			0.40	17.90	45.50	53.0	118	23.0	10.1	424	2.59	5.1	0.8	1.1	2.5	48.8	0.14	0.22	0.27	13	1.13	0.042
1098931	Soil			0.41	10.52	19.45	77.3	88	10.0	5.1	1840	3.72	4.9	1.1	0.7	0.6	20.2	0.22	0.39	0.13	18	2.88	0.102
1098932	Soil			0.71	14.76	24.12	65.3	107	21.1	8.7	1832	4.32	12.7	1.0	1.1	1.6	15.7	0.19	1.00	0.19	28	2.26	0.101
1098933	Soil			0.51	12.80	18.23	67.0	85	14.6	7.0	2263	3.81	7.8	1.0	2.4	0.8	17.6	0.23	0.79	0.12	19	3.98	0.094
1098934	Soil			0.66	19.65	27.91	158.3	130	25.6	11.1	2088	4.35	11.6	0.9	1.5	2.0	15.8	0.25	0.99	0.19	28	2.49	0.080
1098935	Soil			0.71	21.23	31.26	84.6	32	25.3	12.5	1385	4.48	10.1	1.1	2.9	5.6	9.7	0.15	0.79	0.44	30	0.44	0.032
1098936	Soil			0.63	19.39	27.91	74.4	120	21.5	10.3	1315	3.43	10.9	1.2	2.3	3.1	21.3	0.21	0.76	0.30	26	3.21	0.076
1098937	Soil			0.87	14.02	23.31	78.4	96	21.6	9.7	1489	4.08	11.8	1.2	1.3	4.4	14.9	0.28	0.78	0.32	40	1.14	0.052
1098938	Soil			0.84	14.94	49.21	59.1	129	20.8	9.9	2646	5.01	13.0	2.2	1.5	5.1	22.7	0.24	0.57	0.34	33	1.83	0.083
1098939	Soil			0.70	35.34	16.98	61.0	175	18.7	7.3	1023	2.58	7.4	2.1	1.5	0.9	57.1	0.37	0.51	0.29	30	1.70	0.071
1098940	Soil			0.52	19.50	18.01	66.3	118	20.0	6.9	422	2.52	7.8	1.0	1.6	2.8	36.2	0.18	0.50	0.26	23	2.73	0.076



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 29, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
617951	Soil	5.4	5.6	0.12	48.2	<0.001	4	0.28	0.003	0.07	<0.1	2.7	0.08	0.11	183	1.1	0.05	0.6	0.26	<0.1	0.06
617952	Soil	4.7	21.2	0.38	88.2	0.003	4	1.26	0.005	0.09	<0.1	4.2	0.10	0.04	23	0.5	0.09	3.6	1.76	<0.1	0.07
617953	Soil	9.4	7.0	2.16	43.3	0.004	7	0.40	0.013	0.04	<0.1	0.8	0.05	0.19	115	0.6	0.06	0.9	0.27	<0.1	0.04
617954	Soil	8.6	23.7	0.65	100.9	0.003	<1	1.41	0.003	0.09	<0.1	3.7	0.08	0.03	48	0.2	0.05	4.7	0.84	<0.1	0.09
617955	Soil	5.7	22.0	0.39	96.7	0.003	4	1.33	0.004	0.07	<0.1	2.8	0.06	0.05	50	0.3	0.04	4.3	0.58	<0.1	0.07
617956	Soil	7.7	28.6	0.47	116.4	0.003	3	1.58	0.002	0.08	<0.1	3.4	0.06	0.03	67	0.2	0.05	4.5	0.78	<0.1	0.03
617957	Soil	7.0	31.0	0.33	70.3	0.003	<1	1.83	0.002	0.11	<0.1	3.4	0.10	0.02	23	0.5	0.10	5.5	0.97	<0.1	0.05
617958	Soil	5.5	12.7	0.32	84.3	0.004	1	0.96	0.004	0.04	<0.1	1.3	0.06	0.11	104	0.5	0.04	2.3	0.31	<0.1	0.03
617959	Soil	5.6	31.7	0.37	96.5	0.002	<1	2.10	<0.001	0.13	<0.1	4.2	0.12	<0.02	15	0.2	0.05	6.8	1.28	<0.1	0.05
617960	Soil	5.9	22.1	0.17	96.1	0.003	2	1.49	0.001	0.11	<0.1	1.9	0.08	<0.02	31	0.3	0.02	6.8	0.72	<0.1	0.02
617961	Soil	7.6	32.6	0.44	72.6	0.007	<1	1.80	0.001	0.10	<0.1	2.4	0.10	<0.02	30	0.4	0.02	6.4	0.95	<0.1	0.03
617962	Soil	10.0	28.4	0.37	102.7	0.005	<1	1.68	0.001	0.11	<0.1	2.1	0.10	<0.02	16	0.2	0.04	7.6	0.70	<0.1	0.04
617963	Soil	6.1	21.5	0.22	96.7	0.003	<1	1.44	0.003	0.10	<0.1	2.0	0.08	<0.02	14	0.2	<0.02	6.7	0.56	<0.1	<0.02
617964	Soil	4.7	26.7	0.28	101.7	0.002	2	2.15	<0.001	0.09	<0.1	2.2	0.09	<0.02	10	0.2	0.03	6.9	0.76	<0.1	0.02
617965	Soil	4.3	21.1	0.28	152.3	0.006	3	1.15	0.003	0.08	<0.1	0.7	0.08	0.08	26	0.2	0.05	3.9	2.08	<0.1	<0.02
617966	Soil	4.8	16.1	0.10	128.2	0.006	3	0.66	0.003	0.09	<0.1	0.3	0.09	0.06	29	0.4	0.08	3.9	2.18	<0.1	<0.02
617967	Soil	4.2	14.2	0.08	62.6	0.008	<1	0.56	0.004	0.07	<0.1	0.6	0.09	0.08	18	0.5	0.08	3.4	1.96	<0.1	<0.02
617968	Soil	6.4	19.5	0.32	74.7	0.002	3	1.41	0.003	0.08	<0.1	4.7	0.14	0.02	30	0.3	0.02	3.5	2.28	<0.1	0.03
617969	Soil	16.5	17.5	0.24	95.3	0.002	5	1.36	0.003	0.09	<0.1	6.4	0.17	0.04	42	0.6	0.05	3.0	2.00	<0.1	0.07
1098930	Soil	10.4	10.5	0.21	123.4	0.002	2	0.89	0.002	0.09	<0.1	3.5	0.09	0.05	72	0.5	0.04	2.2	0.31	<0.1	0.04
1098931	Soil	14.5	13.0	1.16	64.3	0.005	7	0.76	0.004	0.05	<0.1	1.6	0.05	0.11	66	0.6	0.06	1.6	0.23	<0.1	0.02
1098932	Soil	16.0	20.2	1.32	78.1	0.005	2	1.34	0.004	0.05	0.1	3.0	0.08	0.08	72	0.5	0.02	2.7	0.39	<0.1	0.03
1098933	Soil	10.7	14.3	2.36	92.0	0.006	3	0.94	0.005	0.04	<0.1	1.6	0.06	0.09	68	0.4	0.04	1.9	0.47	<0.1	<0.02
1098934	Soil	15.5	23.1	1.67	83.7	0.004	5	1.52	0.004	0.06	0.1	3.4	0.07	0.07	119	0.4	0.04	3.5	0.43	<0.1	0.09
1098935	Soil	14.4	28.7	0.57	99.1	0.003	2	1.83	<0.001	0.07	<0.1	4.4	0.13	0.03	50	0.2	0.04	5.2	0.65	<0.1	0.09
1098936	Soil	15.6	22.2	2.11	79.9	0.003	3	1.41	0.004	0.06	<0.1	3.7	0.13	0.03	64	0.3	0.05	3.5	0.58	<0.1	0.05
1098937	Soil	17.9	29.5	0.93	119.4	0.009	3	1.73	0.003	0.06	0.1	4.8	0.14	0.03	58	0.3	0.03	4.5	0.92	<0.1	0.06
1098938	Soil	24.0	28.5	1.22	117.3	0.003	3	1.78	0.002	0.06	<0.1	6.0	0.30	0.04	155	0.3	0.04	4.2	0.70	<0.1	0.08
1098939	Soil	8.4	21.3	0.42	196.0	0.007	3	1.30	0.004	0.05	<0.1	1.8	0.09	0.06	81	0.5	0.03	4.2	0.83	<0.1	0.03
1098940	Soil	12.5	20.9	1.71	93.5	0.006	4	1.20	0.006	0.08	<0.1	3.5	0.08	0.04	54	0.3	0.03	3.1	0.66	<0.1	0.08



Acme Analytical Laboratories (Vancouver) Ltd.
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 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 6 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
617951	Soil			0.04	2.4	2.1	<0.05	2.3	15.72	14.9	0.03	1	0.4	1.8	<10	<2
617952	Soil			0.11	6.8	2.3	<0.05	2.6	9.67	13.6	0.03	2	0.9	36.9	<10	<2
617953	Soil			0.22	3.0	2.2	<0.05	1.3	11.70	17.1	<0.02	2	<0.1	3.0	<10	<2
617954	Soil			0.35	9.0	2.5	<0.05	2.3	10.15	22.9	0.03	<1	0.5	18.9	<10	<2
617955	Soil			0.38	7.8	1.3	<0.05	1.7	6.14	14.3	0.03	2	0.5	16.3	<10	<2
617956	Soil			0.30	7.8	1.6	<0.05	1.8	8.80	21.2	<0.02	<1	1.2	23.7	<10	<2
617957	Soil			0.39	12.3	1.1	<0.05	1.5	5.41	18.8	0.03	<1	1.3	21.5	<10	<2
617958	Soil			0.30	3.2	0.7	<0.05	1.6	6.91	11.0	<0.02	2	0.4	4.5	<10	4
617959	Soil			0.22	15.6	1.0	<0.05	1.4	4.29	15.3	0.03	<1	1.7	30.1	<10	<2
617960	Soil			0.58	13.1	1.1	<0.05	1.0	2.18	12.3	0.02	<1	1.3	15.3	<10	<2
617961	Soil			0.89	13.1	1.0	<0.05	1.2	2.30	16.1	0.03	<1	0.3	24.2	<10	<2
617962	Soil			0.59	16.5	1.5	<0.05	1.6	2.13	21.5	0.02	<1	0.8	24.9	<10	<2
617963	Soil			0.42	10.7	1.0	<0.05	0.7	1.92	13.1	0.03	<1	0.2	15.4	<10	<2
617964	Soil			0.20	13.2	1.2	<0.05	0.8	1.45	11.3	0.02	<1	0.9	22.0	<10	<2
617965	Soil			0.23	10.2	0.6	<0.05	0.4	2.51	12.4	0.03	<1	1.9	19.3	<10	<2
617966	Soil			0.11	14.7	1.6	<0.05	0.3	2.72	10.8	<0.02	<1	0.2	4.5	<10	<2
617967	Soil			0.32	17.9	2.0	<0.05	0.1	2.00	9.4	0.06	<1	0.1	3.0	<10	<2
617968	Soil			0.21	10.3	1.5	<0.05	1.2	12.32	25.3	0.05	<1	2.0	35.7	<10	<2
617969	Soil			0.21	11.8	1.4	<0.05	2.3	17.58	57.3	0.02	2	1.2	30.2	<10	<2
1098930	Soil			0.25	6.7	0.6	<0.05	1.6	11.38	29.5	0.05	3	2.9	6.8	<10	<2
1098931	Soil			0.17	4.0	0.4	<0.05	0.9	13.62	27.6	<0.02	<1	0.4	4.5	<10	<2
1098932	Soil			0.21	5.1	0.6	<0.05	1.8	17.71	28.7	0.02	2	0.8	7.4	<10	<2
1098933	Soil			0.15	4.8	0.6	<0.05	0.7	12.66	20.8	<0.02	<1	0.8	7.4	<10	<2
1098934	Soil			0.20	7.1	1.1	<0.05	2.3	16.10	27.1	<0.02	2	1.0	13.0	<10	<2
1098935	Soil			0.36	8.8	1.4	<0.05	2.6	12.62	27.9	0.06	<1	1.0	24.3	<10	<2
1098936	Soil			0.30	6.7	2.2	<0.05	2.0	15.19	27.5	0.05	<1	0.8	20.1	<10	<2
1098937	Soil			0.75	10.7	0.9	<0.05	1.9	13.95	35.5	0.04	<1	1.1	19.5	<10	<2
1098938	Soil			0.38	9.2	2.5	<0.05	2.4	22.47	37.4	0.03	<1	1.6	19.0	<10	<2
1098939	Soil			0.64	8.2	0.8	<0.05	1.4	5.95	15.3	0.02	<1	0.5	20.1	<10	<2
1098940	Soil			0.45	6.9	1.2	<0.05	2.5	11.54	21.0	0.04	<1	0.7	22.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 29, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1098941	Soil			0.74	19.01	23.22	90.4	62	22.2	8.5	835	3.90	10.6	1.6	1.7	4.2	22.1	0.35	0.67	0.33	37	0.50	0.046
1098942	Soil			0.46	20.51	19.65	52.6	121	18.8	7.6	663	2.45	7.8	1.6	1.3	2.1	61.7	0.20	0.45	0.23	17	4.44	0.069
1098943	Soil			0.52	12.94	24.71	24.9	110	18.4	6.8	312	1.81	5.6	1.2	1.8	2.2	29.8	0.07	0.57	0.28	10	1.03	0.043
1098944	Soil			0.73	15.37	36.21	69.7	140	19.5	8.2	3116	5.91	13.2	2.0	0.9	2.1	17.7	0.35	1.14	0.30	25	1.22	0.122
1098945	Soil			0.56	16.03	29.11	40.5	143	16.7	7.5	2248	3.51	13.3	1.6	1.5	0.8	27.2	0.35	1.35	0.19	19	7.04	0.161
1098946	Soil			0.58	11.44	25.76	37.4	112	14.1	6.4	1476	2.53	13.9	1.5	1.4	0.9	36.3	0.24	1.46	0.17	22	8.14	0.144
1098947	Soil			0.84	15.02	33.04	39.6	153	21.0	8.5	2199	4.53	22.8	1.8	3.2	3.3	23.0	0.19	1.85	0.26	42	3.90	0.100
1098948	Soil			1.09	13.53	25.04	62.5	26	21.3	7.9	545	4.12	11.4	0.9	1.1	4.6	8.3	0.10	0.73	0.31	48	0.30	0.032
1098949	Soil			0.82	18.76	35.31	72.4	83	23.3	10.5	1610	3.88	14.0	1.3	1.4	2.8	24.4	0.19	1.69	0.33	33	3.50	0.124
1098950	Soil			0.72	23.02	27.42	74.1	94	26.2	11.5	1326	3.90	11.5	1.2	1.7	5.4	17.1	0.21	0.86	0.33	33	2.12	0.053
1098222	Soil			0.56	30.21	28.06	132.7	191	31.9	11.0	576	3.25	7.3	0.8	1.3	3.2	36.8	0.25	0.36	0.39	14	0.73	0.081
1098223	Soil			0.45	39.72	31.04	102.2	105	32.9	15.1	331	3.39	12.7	1.2	1.0	3.6	83.9	0.10	0.39	0.40	18	0.65	0.053
1098224	Soil			0.54	31.41	27.07	100.7	98	28.0	13.6	590	3.25	11.7	1.5	1.1	2.9	81.6	0.14	0.43	0.35	17	0.98	0.053
1098225	Soil			0.51	39.88	30.99	102.9	90	34.9	18.2	687	3.43	13.8	1.0	0.9	3.8	69.4	0.12	0.42	0.39	18	0.58	0.046
1098226	Soil			0.50	28.83	17.72	93.3	157	25.9	10.7	311	2.85	9.8	1.5	1.2	3.0	58.3	0.19	0.43	0.31	27	0.89	0.067
1098227	Soil			0.44	30.58	19.78	90.0	115	24.1	10.1	444	2.63	7.6	1.3	2.1	3.8	55.0	0.17	0.56	0.28	20	2.64	0.072
1098228	Soil			0.49	33.47	18.21	77.1	109	24.9	9.6	390	2.49	7.4	1.5	2.0	3.0	53.4	0.25	0.52	0.30	21	1.60	0.060
1098229	Soil			0.76	15.86	18.13	71.6	59	14.0	6.1	325	3.19	7.7	0.6	1.5	2.6	12.1	0.17	0.50	0.34	38	0.16	0.028
1098230	Soil			0.71	14.30	15.74	80.7	51	21.5	8.4	320	2.95	9.6	0.9	0.3	3.9	16.5	0.18	0.62	0.30	37	0.61	0.031
1098231	Soil			0.78	12.12	17.27	62.5	19	21.7	9.1	347	3.47	9.7	0.9	<0.2	5.0	12.1	0.11	0.54	0.30	47	0.22	0.025
1098232	Soil			0.46	16.64	16.26	60.6	87	22.7	9.6	383	2.74	9.2	0.8	1.6	4.0	15.6	0.07	0.47	0.25	28	0.41	0.047
1098233	Soil			0.44	20.14	21.27	82.5	12	21.0	11.0	247	3.27	7.9	0.6	0.3	3.7	9.6	0.15	0.33	0.34	26	0.36	0.019
1098234	Soil			0.54	17.84	36.45	82.9	183	27.0	12.8	513	5.11	10.3	1.2	0.7	5.3	16.4	0.23	0.49	0.36	29	0.20	0.050
1098235	Soil			0.54	17.69	19.77	89.5	34	16.5	6.9	376	3.19	6.3	0.6	0.4	2.8	11.4	0.08	0.31	0.33	29	0.35	0.035
1098236	Soil			0.68	14.55	16.70	92.5	27	19.9	9.0	370	2.94	8.0	0.9	0.5	3.9	25.1	0.11	0.46	0.32	37	0.63	0.025
1098237	Soil			0.70	17.73	18.05	49.9	34	12.3	5.1	154	2.88	7.8	0.5	1.3	1.6	6.2	0.16	0.51	0.31	34	0.04	0.058
1098238	Soil			0.68	28.84	30.19	130.7	162	38.3	12.5	397	4.23	7.6	0.7	0.8	5.3	24.4	0.17	0.36	0.43	15	0.17	0.043
1098239	Soil			0.55	28.76	26.14	83.4	172	25.1	9.6	313	3.09	8.2	0.9	1.7	3.0	46.8	0.11	0.60	0.42	18	0.84	0.051
1098240	Soil			0.64	19.42	23.89	79.9	58	22.2	9.8	337	3.23	8.6	0.8	1.4	3.6	18.3	0.12	0.60	0.33	25	0.24	0.039
1098241	Soil			0.64	18.82	37.03	89.2	90	23.0	11.4	1383	4.31	13.6	1.2	1.4	4.6	15.8	0.23	0.96	0.37	25	0.70	0.055



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 29, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1098941	Soil	15.7	31.2	0.58	111.7	0.006	2	1.79	0.002	0.08	<0.1	3.9	0.14	0.03	46	0.2	0.03	5.3	1.03	<0.1	0.06
1098942	Soil	10.6	17.9	2.31	92.8	0.003	4	1.03	0.006	0.05	<0.1	3.8	0.09	0.04	79	0.4	0.04	2.4	0.62	<0.1	0.04
1098943	Soil	8.7	9.6	0.11	114.1	0.001	3	0.53	0.003	0.07	<0.1	2.9	0.07	0.05	84	0.3	<0.02	1.3	0.32	<0.1	0.06
1098944	Soil	18.9	18.4	0.45	134.9	0.005	4	1.13	0.003	0.09	<0.1	3.0	0.10	0.08	98	0.5	0.06	2.8	0.45	<0.1	0.07
1098945	Soil	11.3	14.0	4.24	86.8	0.004	3	0.85	0.008	0.04	<0.1	1.4	0.08	0.07	132	0.5	0.03	1.7	0.28	<0.1	0.03
1098946	Soil	8.8	15.1	5.13	75.9	0.007	3	0.97	0.009	0.04	<0.1	1.6	0.08	0.03	142	0.3	0.04	2.1	0.43	<0.1	0.03
1098947	Soil	29.4	26.6	2.49	91.9	0.005	2	1.75	0.004	0.04	0.1	5.6	0.17	0.04	257	0.3	0.05	4.1	0.62	<0.1	0.09
1098948	Soil	11.5	34.3	0.61	97.8	0.006	2	2.16	<0.001	0.06	<0.1	3.1	0.17	<0.02	21	0.2	0.05	6.1	1.28	<0.1	0.04
1098949	Soil	15.3	25.7	2.33	133.9	0.005	4	1.89	0.006	0.07	<0.1	3.3	0.15	0.04	40	0.4	0.04	4.4	0.73	<0.1	0.09
1098950	Soil	23.4	32.1	1.81	107.0	0.005	4	1.81	0.003	0.10	<0.1	5.6	0.12	0.03	50	0.3	0.07	4.6	0.78	<0.1	0.10
1098222	Soil	8.7	15.6	0.41	115.6	0.003	3	0.95	0.005	0.08	<0.1	3.9	0.13	0.04	92	0.4	0.02	2.8	1.16	<0.1	0.06
1098223	Soil	6.4	23.2	0.59	65.1	0.002	3	1.37	0.004	0.08	<0.1	5.4	0.07	0.03	27	0.4	0.05	4.2	2.58	<0.1	0.08
1098224	Soil	8.6	19.6	0.49	54.8	0.003	3	1.20	0.003	0.07	<0.1	5.0	0.08	0.05	22	0.4	0.05	3.7	1.97	<0.1	0.06
1098225	Soil	6.7	22.9	0.58	72.4	0.002	3	1.34	0.003	0.06	<0.1	4.9	0.07	0.03	29	0.2	0.04	4.2	1.88	<0.1	0.09
1098226	Soil	10.6	26.5	0.62	128.5	0.006	4	1.48	0.004	0.08	<0.1	4.7	0.09	0.03	66	0.4	0.05	4.4	1.65	<0.1	0.07
1098227	Soil	12.8	22.4	1.68	98.9	0.006	3	1.26	0.006	0.10	<0.1	3.8	0.10	0.04	85	0.3	0.03	3.7	1.32	<0.1	0.07
1098228	Soil	12.1	22.2	0.78	107.7	0.004	4	1.26	0.006	0.08	<0.1	3.7	0.09	0.06	86	0.4	0.03	3.5	0.88	<0.1	0.09
1098229	Soil	8.9	20.8	0.31	78.2	0.004	1	1.20	0.002	0.06	<0.1	1.8	0.11	<0.02	15	0.2	0.04	5.5	1.02	<0.1	<0.02
1098230	Soil	11.6	25.8	0.52	136.2	0.008	2	1.64	0.003	0.07	0.1	2.7	0.12	<0.02	33	0.1	0.04	4.7	1.16	<0.1	0.03
1098231	Soil	12.6	30.4	0.52	120.3	0.009	2	2.09	0.001	0.06	0.1	3.0	0.16	<0.02	24	0.2	0.02	5.8	1.54	<0.1	0.03
1098232	Soil	10.7	22.3	0.53	94.1	0.007	<1	1.25	0.005	0.05	0.1	3.0	0.07	<0.02	44	0.2	0.02	3.7	0.59	<0.1	0.04
1098233	Soil	8.7	20.9	0.43	81.9	0.002	1	1.33	0.001	0.08	<0.1	2.6	0.08	<0.02	40	0.1	0.03	4.8	0.74	<0.1	0.03
1098234	Soil	7.7	34.0	0.44	89.6	0.003	3	2.57	<0.001	0.07	<0.1	3.1	0.13	0.03	197	0.3	0.03	4.9	1.85	<0.1	0.07
1098235	Soil	8.7	25.1	0.52	62.9	0.003	2	1.37	0.003	0.10	0.1	1.9	0.10	<0.02	23	0.2	0.03	5.6	1.26	<0.1	0.02
1098236	Soil	10.9	28.7	0.60	121.6	0.013	2	1.41	0.003	0.09	<0.1	2.6	0.10	<0.02	33	0.3	0.02	5.3	1.24	<0.1	0.04
1098237	Soil	5.4	15.4	0.10	43.2	0.002	1	1.01	0.003	0.04	<0.1	1.6	0.10	0.04	30	0.3	0.04	4.3	0.97	<0.1	0.02
1098238	Soil	7.7	17.9	0.33	117.9	0.002	2	1.20	0.003	0.08	<0.1	4.9	0.17	0.03	69	0.2	0.05	3.3	1.92	<0.1	0.06
1098239	Soil	7.1	15.2	0.33	123.7	0.005	3	0.85	0.008	0.07	<0.1	4.1	0.10	0.04	78	0.3	0.04	2.3	1.52	<0.1	0.05
1098240	Soil	9.0	19.5	0.34	113.1	0.009	2	1.14	0.004	0.08	0.1	3.0	0.11	0.02	27	0.1	0.04	3.2	1.80	<0.1	0.03
1098241	Soil	12.3	20.9	0.49	119.3	0.002	2	1.39	0.003	0.06	<0.1	4.1	0.12	0.03	73	0.2	0.06	3.7	0.78	<0.1	0.07



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 7 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1098941	Soil	0.66	10.6	1.1	<0.05	2.0	11.39	32.4	0.04	<1	0.8	29.8	<10	<2
1098942	Soil	0.30	6.6	2.6	<0.05	1.9	14.52	20.2	0.02	<1	0.7	20.1	<10	<2
1098943	Soil	0.19	4.4	1.1	<0.05	2.2	10.91	19.0	0.02	<1	0.7	3.9	<10	<2
1098944	Soil	0.24	7.1	1.2	<0.05	2.1	19.66	33.7	0.03	<1	0.9	6.2	<10	<2
1098945	Soil	0.14	4.3	0.6	<0.05	1.1	13.61	20.7	0.02	<1	0.5	5.1	<10	<2
1098946	Soil	0.20	4.4	1.4	<0.05	0.8	10.23	17.0	<0.02	<1	0.5	7.4	<10	<2
1098947	Soil	0.37	6.4	1.0	<0.05	2.5	31.04	35.4	0.03	<1	1.1	11.7	<10	<2
1098948	Soil	0.63	11.7	4.3	<0.05	1.5	4.56	27.4	0.04	<1	0.9	28.5	<10	<2
1098949	Soil	0.39	7.5	1.2	<0.05	2.8	16.25	28.7	0.03	<1	1.1	17.4	<10	<2
1098950	Soil	0.38	11.8	2.1	<0.05	2.9	20.36	40.7	0.03	<1	1.1	28.1	<10	<2
1098222	Soil	0.22	7.9	0.8	<0.05	1.9	13.36	20.6	0.03	<1	1.1	27.7	<10	<2
1098223	Soil	0.19	7.2	0.8	<0.05	3.7	12.44	15.2	0.04	<1	1.0	56.7	<10	<2
1098224	Soil	0.25	6.9	0.8	<0.05	3.0	15.40	21.4	0.04	<1	1.0	45.0	<10	<2
1098225	Soil	0.20	6.3	0.5	<0.05	4.1	11.54	16.8	0.05	<1	1.0	55.3	<10	<2
1098226	Soil	0.47	8.9	0.6	<0.05	2.5	11.86	21.0	0.05	<1	1.0	44.5	<10	<2
1098227	Soil	0.41	7.8	0.7	<0.05	3.3	10.44	24.7	0.03	<1	0.8	28.1	<10	<2
1098228	Soil	0.48	6.9	1.3	<0.05	3.7	11.28	23.8	0.03	<1	0.7	27.7	<10	<2
1098229	Soil	0.83	11.4	0.8	<0.05	0.6	2.30	17.6	0.03	<1	0.3	18.2	<10	<2
1098230	Soil	0.86	12.1	0.8	<0.05	1.3	4.52	23.8	0.03	<1	0.8	25.6	<10	<2
1098231	Soil	0.71	12.3	1.0	<0.05	2.2	4.92	30.0	0.04	<1	0.8	28.4	<10	<2
1098232	Soil	0.47	5.8	0.5	<0.05	1.9	6.79	23.8	0.02	<1	0.7	22.4	<10	<2
1098233	Soil	0.38	10.4	0.7	<0.05	2.2	2.98	17.8	0.03	<1	0.5	32.7	<10	<2
1098234	Soil	0.54	14.6	0.8	<0.05	2.5	5.68	32.1	0.06	<1	1.5	57.4	<10	<2
1098235	Soil	0.46	17.3	0.7	<0.05	0.8	2.52	17.9	0.03	<1	0.5	27.2	<10	<2
1098236	Soil	0.95	14.1	0.9	<0.05	2.0	3.46	21.5	0.04	<1	0.5	34.1	<10	<2
1098237	Soil	0.67	7.5	0.8	<0.05	0.9	2.50	11.3	0.02	<1	0.3	8.5	<10	<2
1098238	Soil	0.19	8.7	0.8	<0.05	2.2	14.90	21.0	0.03	<1	1.2	38.1	<10	<2
1098239	Soil	0.34	6.8	0.6	<0.05	2.6	10.88	14.6	0.04	<1	0.8	21.3	<10	<2
1098240	Soil	0.44	8.9	0.9	<0.05	1.1	5.94	20.7	0.03	<1	0.7	26.3	<10	<2
1098241	Soil	0.36	6.4	0.8	<0.05	2.2	12.47	29.5	0.04	<1	1.0	21.3	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: October 29, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1098242	Soil			0.43	18.44	21.56	70.4	97	21.2	10.4	922	2.79	8.6	1.0	2.5	2.7	25.7	0.19	0.65	0.28	17	4.80	0.079
1098243	Soil			0.61	13.91	24.74	75.8	32	21.9	10.3	1326	3.92	9.4	1.5	1.4	4.5	14.2	0.22	0.65	0.30	32	1.40	0.046
1098244	Soil			0.41	20.08	20.92	65.8	85	18.7	8.9	782	2.63	7.5	1.4	1.4	1.7	33.5	0.19	0.57	0.24	17	4.62	0.090
1098245	Soil			0.45	24.90	20.58	80.6	107	26.6	12.0	540	2.63	7.5	0.8	2.0	4.2	42.3	0.15	0.48	0.25	19	3.36	0.070
1098246	Soil			0.43	20.99	20.46	63.6	107	19.9	8.5	395	2.70	7.2	1.1	1.0	2.0	53.3	0.20	0.47	0.27	18	1.62	0.055
1098247	Soil			0.39	34.40	26.72	96.7	98	32.8	17.4	377	3.12	9.6	2.1	1.2	3.4	96.9	0.09	0.29	0.35	16	0.77	0.045
1098248	Soil			0.45	23.99	20.70	77.2	117	21.0	9.4	474	2.77	6.7	1.7	1.7	2.1	93.1	0.23	0.48	0.28	19	2.48	0.078
1098999	Soil			0.58	17.72	24.24	65.0	57	16.2	6.3	139	3.38	5.9	0.5	0.3	2.4	6.7	0.09	0.35	0.33	20	0.07	0.026
1099000	Soil			0.44	21.84	29.76	99.3	163	31.2	12.8	288	3.64	5.4	0.9	0.6	3.8	51.8	0.26	0.18	0.40	13	0.63	0.057
617751	Soil			0.55	20.83	23.36	73.2	38	27.3	11.8	883	3.48	9.3	1.0	0.6	5.8	8.4	0.07	0.50	0.30	27	0.15	0.021
617752	Soil			0.65	15.84	23.38	70.9	50	22.8	10.3	749	3.49	9.8	0.9	1.4	4.6	12.5	0.14	0.55	0.27	29	1.32	0.030
617753	Soil			0.41	18.42	20.69	43.4	14	20.6	11.6	701	2.88	9.1	0.7	<0.2	3.9	6.4	0.12	0.54	0.31	19	0.24	0.019
617754	Soil			0.67	18.82	22.23	64.0	62	21.3	10.7	912	3.38	8.8	1.3	0.8	3.4	16.7	0.21	0.56	0.30	32	0.49	0.037
617755	Soil			0.60	21.24	22.20	68.3	124	24.3	10.5	893	3.25	9.6	1.0	0.5	3.1	20.3	0.18	0.61	0.29	26	1.44	0.065
617756	Soil			0.57	12.97	26.77	65.0	31	18.6	10.7	1260	4.43	9.1	1.2	<0.2	4.0	9.8	0.36	0.39	0.27	28	0.63	0.040
617970	Soil			0.12	2.84	10.48	92.3	118	4.9	1.3	1508	1.22	4.5	0.6	<0.2	0.3	17.3	0.25	0.34	0.04	5	8.92	0.083
617971	Soil			0.53	22.58	59.93	326.3	128	24.5	10.4	751	2.72	9.4	1.6	<0.2	1.1	85.6	1.10	1.44	0.42	22	2.94	0.110
617972	Soil			0.47	16.45	30.65	154.3	121	13.6	6.1	671	1.60	5.9	2.0	0.7	0.3	140.9	0.82	0.85	0.21	15	4.37	0.144
617973	Soil			0.49	21.41	19.15	56.8	74	17.0	8.1	643	2.10	5.6	0.6	0.3	0.8	36.4	0.12	0.39	0.26	21	0.80	0.072
617974	Soil			0.52	15.84	20.42	91.2	66	18.1	8.0	240	3.05	7.1	0.6	0.3	2.5	13.8	0.21	0.35	0.32	28	0.19	0.039
617975	Soil			0.57	18.84	22.42	68.9	151	16.4	7.0	265	3.57	7.8	0.6	<0.2	2.9	4.9	0.15	0.42	0.31	32	0.15	0.047
617976	Soil			0.44	24.20	26.14	75.6	117	25.4	14.1	582	4.12	6.3	0.5	0.3	3.5	7.1	0.09	0.33	0.34	28	0.06	0.036
617977	Soil			0.46	27.64	18.78	70.4	118	22.2	8.7	258	3.22	4.7	0.5	<0.2	2.7	10.2	0.19	0.28	0.31	25	0.19	0.050
617978	Soil			0.67	25.52	20.39	70.6	62	20.5	17.3	604	4.41	3.8	0.5	0.6	3.4	13.3	0.11	0.24	0.40	35	0.16	0.036
617979	Soil			0.63	26.93	18.48	67.6	76	24.8	9.7	322	2.95	6.0	1.2	1.3	2.9	24.7	0.12	0.34	0.30	24	0.50	0.054
617980	Soil			0.93	14.54	13.55	47.2	66	10.9	5.0	202	3.35	6.8	0.5	<0.2	2.9	5.3	0.05	0.42	0.41	44	0.04	0.031
617981	Soil			0.75	14.31	15.18	47.1	188	11.5	4.6	166	2.50	5.3	0.8	1.1	2.5	6.8	0.12	0.31	0.28	36	0.04	0.039
617982	Soil			0.49	8.03	6.23	25.7	77	4.9	2.2	61	0.87	3.3	0.6	1.1	1.0	5.1	0.05	0.19	0.20	31	0.02	0.015
617983	Soil			0.45	10.40	13.50	125.8	69	13.9	11.4	1584	3.11	3.2	0.3	0.5	2.2	11.9	0.21	0.21	0.27	36	0.11	0.035
617984	Soil			0.98	14.71	25.69	74.2	84	17.2	9.7	2236	3.75	10.1	1.0	<0.2	0.9	11.0	0.27	1.09	0.27	35	0.89	0.142



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
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Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1098242	Soil	9.4	16.8	2.72	69.4	0.005	3	0.98	0.007	0.06	<0.1	2.7	0.09	<0.02	67	0.1	0.05	2.4	0.65	<0.1	0.04
1098243	Soil	18.7	25.9	0.93	82.4	0.004	3	1.73	0.005	0.05	<0.1	4.5	0.13	0.03	46	0.2	0.09	3.9	0.87	<0.1	0.05
1098244	Soil	9.7	17.9	2.19	92.8	0.004	4	1.06	0.009	0.06	<0.1	2.5	0.09	0.04	57	0.2	0.02	2.7	0.55	<0.1	0.04
1098245	Soil	11.3	20.1	1.93	64.8	0.007	4	1.05	0.008	0.08	<0.1	3.7	0.10	<0.02	60	0.1	0.04	3.0	0.86	<0.1	0.05
1098246	Soil	8.2	18.2	0.70	88.1	0.002	4	1.19	0.006	0.09	<0.1	3.0	0.08	0.04	41	0.2	0.06	3.0	0.59	<0.1	0.07
1098247	Soil	5.5	23.0	0.62	75.6	0.002	3	1.35	0.006	0.07	<0.1	4.4	0.08	0.05	20	1.2	0.03	4.0	2.01	<0.1	0.09
1098248	Soil	8.6	20.1	0.93	138.4	0.004	5	1.22	0.008	0.07	<0.1	2.9	0.11	0.07	84	0.8	0.03	3.3	0.65	<0.1	0.07
1098999	Soil	6.8	14.3	0.13	44.8	0.004	2	0.79	0.002	0.08	<0.1	1.3	0.13	<0.02	10	0.1	<0.02	3.4	0.54	<0.1	<0.02
1099000	Soil	12.3	14.1	0.16	71.5	0.002	3	1.21	0.004	0.10	<0.1	4.7	0.18	0.05	64	0.3	0.04	3.0	1.43	<0.1	0.03
617751	Soil	16.2	27.7	0.74	79.9	0.006	2	1.64	0.002	0.11	<0.1	4.3	0.11	<0.02	20	<0.1	0.05	4.2	0.74	<0.1	0.05
617752	Soil	11.8	26.0	1.10	74.9	0.004	2	1.61	0.004	0.07	<0.1	3.6	0.14	<0.02	46	<0.1	0.04	4.4	0.97	<0.1	0.07
617753	Soil	10.9	18.2	0.42	55.1	0.002	2	1.19	0.002	0.09	<0.1	3.4	0.09	<0.02	9	<0.1	0.05	3.0	0.38	<0.1	0.04
617754	Soil	16.4	27.5	0.59	105.4	0.004	1	1.78	0.003	0.07	<0.1	3.7	0.13	0.02	41	0.1	0.06	4.5	0.99	<0.1	0.03
617755	Soil	14.2	25.8	0.98	97.2	0.004	2	1.53	0.005	0.07	<0.1	3.9	0.11	0.03	51	0.2	0.05	4.0	0.67	<0.1	0.09
617756	Soil	11.5	24.1	0.60	99.7	0.002	1	1.79	0.002	0.05	<0.1	3.3	0.10	0.02	32	0.1	0.04	4.2	0.77	<0.1	0.05
617970	Soil	2.7	3.8	4.44	32.2	<0.001	2	0.13	0.007	0.02	<0.1	0.5	0.02	<0.02	247	0.3	<0.02	0.3	0.12	<0.1	<0.02
617971	Soil	23.1	15.4	0.26	96.7	0.002	3	1.39	0.011	0.06	<0.1	1.9	0.07	0.08	77	0.2	0.13	3.2	0.35	<0.1	0.06
617972	Soil	20.0	11.1	0.26	90.4	0.003	4	0.88	0.012	0.05	<0.1	0.9	0.06	0.12	106	0.3	0.07	1.8	0.27	<0.1	<0.02
617973	Soil	6.1	15.2	0.20	90.7	0.003	1	0.82	0.005	0.06	<0.1	1.6	0.09	0.05	45	<0.1	0.04	3.6	1.18	<0.1	<0.02
617974	Soil	7.2	22.6	0.33	122.8	0.002	<1	1.57	0.003	0.06	<0.1	2.3	0.11	<0.02	47	<0.1	0.06	5.1	1.12	<0.1	<0.02
617975	Soil	8.2	24.2	0.32	66.4	0.003	<1	1.43	0.003	0.08	<0.1	1.9	0.10	0.03	180	<0.1	0.04	5.5	0.93	<0.1	0.03
617976	Soil	6.2	28.0	0.36	90.9	0.003	<1	1.76	0.002	0.11	<0.1	3.0	0.09	<0.02	28	<0.1	0.03	6.0	1.18	<0.1	0.03
617977	Soil	5.4	26.1	0.30	78.5	0.002	<1	1.48	0.005	0.09	<0.1	2.7	0.08	0.03	40	<0.1	<0.02	5.4	1.05	<0.1	0.02
617978	Soil	6.8	32.7	0.34	120.4	0.003	<1	1.68	0.004	0.17	<0.1	3.3	0.12	<0.02	15	<0.1	0.03	8.0	1.29	<0.1	0.02
617979	Soil	13.4	26.2	0.50	109.5	0.003	2	1.53	0.005	0.07	<0.1	2.7	0.12	0.03	38	<0.1	0.03	4.7	1.60	<0.1	0.05
617980	Soil	11.3	20.6	0.21	57.0	0.008	1	1.21	0.002	0.07	0.1	1.7	0.11	<0.02	17	<0.1	0.06	6.8	1.02	<0.1	<0.02
617981	Soil	10.8	17.7	0.20	82.9	0.004	<1	1.26	0.003	0.06	<0.1	1.9	0.12	<0.02	28	0.1	0.08	5.8	1.28	<0.1	0.02
617982	Soil	10.7	11.4	0.11	49.4	0.006	<1	0.63	0.002	0.04	<0.1	0.7	0.10	<0.02	13	<0.1	<0.02	4.8	1.15	<0.1	<0.02
617983	Soil	6.8	23.1	0.24	195.5	0.003	<1	1.62	0.003	0.14	<0.1	2.1	0.11	<0.02	40	<0.1	0.03	6.5	0.71	<0.1	<0.02
617984	Soil	10.0	20.9	0.40	194.5	0.010	3	1.47	0.005	0.07	<0.1	1.7	0.10	0.09	50	0.2	0.07	3.9	0.65	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1098242	Soil			0.23	4.9	0.6	<0.05	1.9	10.02	19.7	0.04	2	0.7	17.8	<10	<2
1098243	Soil			0.51	7.6	1.0	<0.05	1.7	15.89	41.5	0.04	<1	1.1	19.5	<10	<2
1098244	Soil			0.32	6.1	1.2	<0.05	1.6	9.48	20.0	0.03	2	0.7	17.2	<10	<2
1098245	Soil			0.29	5.5	1.0	<0.05	2.8	11.50	22.3	0.02	<1	0.8	23.5	<10	<2
1098246	Soil			0.31	7.1	0.6	<0.05	2.6	9.54	16.1	0.03	<1	0.8	23.0	<10	<2
1098247	Soil			0.23	6.5	0.5	<0.05	4.4	9.41	13.5	0.04	2	1.1	50.9	<10	<2
1098248	Soil			0.52	8.2	0.7	<0.05	2.3	9.01	15.5	<0.02	<1	0.9	24.4	<10	<2
1098999	Soil			0.31	9.5	0.6	<0.05	0.5	2.03	14.0	<0.02	<1	0.5	10.8	<10	<2
1099000	Soil			0.53	12.3	1.0	<0.05	1.2	14.31	53.1	0.05	1	1.2	24.3	<10	<2
617751	Soil			0.37	10.1	0.5	<0.05	2.7	9.57	40.2	0.03	<1	1.1	29.8	<10	<2
617752	Soil			0.45	9.9	0.7	<0.05	2.9	8.58	28.5	0.02	<1	1.0	26.2	<10	<2
617753	Soil			0.23	8.3	0.7	<0.05	1.8	7.59	28.4	<0.02	<1	0.9	16.6	<10	<2
617754	Soil			0.64	10.5	0.8	<0.05	1.8	11.79	33.9	0.03	<1	1.1	24.1	<10	<2
617755	Soil			0.50	9.1	1.0	<0.05	2.4	11.90	28.1	0.02	<1	1.0	23.4	<10	<2
617756	Soil			0.36	8.3	0.9	<0.05	2.0	7.51	29.9	0.05	<1	0.9	30.9	<10	<2
617970	Soil			<0.02	1.5	0.3	<0.05	0.9	3.60	5.2	<0.02	<1	0.2	0.8	<10	<2
617971	Soil			0.41	4.4	0.8	<0.05	1.8	19.37	34.4	0.04	<1	1.0	4.5	<10	<2
617972	Soil			0.33	4.2	0.6	<0.05	0.9	16.33	29.4	0.02	<1	0.8	3.6	<10	<2
617973	Soil			0.36	10.0	1.2	<0.05	0.5	4.95	13.1	<0.02	<1	0.5	10.2	<10	<2
617974	Soil			0.47	10.5	0.7	<0.05	0.9	3.57	15.5	0.03	<1	0.6	26.8	<10	<2
617975	Soil			0.71	12.7	0.8	<0.05	1.1	2.45	17.8	0.02	<1	0.6	18.1	<10	<2
617976	Soil			0.47	11.2	1.3	<0.05	1.3	4.15	15.3	0.03	<1	0.9	30.3	<10	<2
617977	Soil			0.52	11.0	0.8	<0.05	1.0	3.45	12.2	0.03	<1	0.8	18.2	<10	<2
617978	Soil			0.46	18.3	1.5	<0.05	1.1	5.04	14.9	0.04	<1	0.9	19.6	<10	<2
617979	Soil			0.47	12.4	1.2	<0.05	1.7	6.47	29.9	0.02	<1	0.9	31.4	<10	<2
617980	Soil			1.01	14.1	2.4	<0.05	0.7	2.10	21.7	<0.02	<1	0.2	10.3	<10	<2
617981	Soil			0.88	15.6	1.2	<0.05	0.8	3.45	21.9	0.02	<1	0.8	14.7	<10	<2
617982	Soil			0.41	9.0	0.9	<0.05	0.2	1.28	19.9	<0.02	<1	0.1	4.4	<10	<2
617983	Soil			0.35	16.1	0.9	<0.05	0.6	1.72	14.1	0.03	<1	0.5	22.2	<10	<2
617984	Soil			0.45	8.9	1.0	<0.05	1.0	9.28	22.9	0.03	<1	0.7	9.8	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 29, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
617985	Soil			0.33	6.23	7.37	30.7	55	6.0	3.2	1114	1.27	4.9	0.9	<0.2	0.3	33.3	0.22	0.40	0.08	12	9.43	0.180
617986	Soil			0.95	18.26	67.75	71.2	75	18.5	11.0	5295	5.93	18.7	1.3	0.8	2.0	16.2	0.36	1.94	0.31	36	2.31	0.117
617987	Soil			0.79	16.36	36.83	60.7	113	21.2	10.4	3977	4.92	14.3	1.3	0.5	2.2	12.9	0.35	1.37	0.30	41	1.13	0.084
617988	Soil			1.00	17.81	38.86	69.8	116	20.1	10.9	3273	4.04	19.9	1.1	1.8	1.0	27.7	0.29	2.26	0.21	25	6.12	0.175
617989	Soil			0.50	8.51	23.29	32.0	108	10.5	8.4	1768	2.24	11.7	0.7	0.6	0.7	35.0	0.11	1.02	0.10	11	11.27	0.076
617990	Soil			0.79	14.30	29.67	48.1	60	16.8	9.4	5081	4.40	10.8	0.9	1.0	2.0	16.3	0.27	1.01	0.27	32	3.31	0.093
617991	Soil			0.71	15.22	25.49	44.7	54	14.0	7.5	1677	2.53	10.6	1.2	3.4	0.8	30.4	0.37	1.50	0.26	17	6.60	0.166
617992	Soil			0.69	18.07	24.51	34.4	48	20.3	13.6	2108	3.24	14.6	0.9	1.4	3.5	10.3	0.10	1.71	0.41	26	1.59	0.051
617993	Soil			0.90	15.38	24.60	98.6	93	22.6	10.2	1126	3.88	12.2	1.2	1.8	4.8	16.0	0.28	0.93	0.34	47	1.08	0.055
617994	Soil			0.67	14.97	19.75	79.0	19	19.5	7.8	399	3.55	9.3	1.0	1.2	5.2	7.9	0.18	0.73	0.32	39	0.14	0.033
617995	Soil			0.78	20.99	25.37	91.1	43	19.7	11.5	2033	3.91	10.2	1.6	0.8	3.7	11.4	0.49	0.77	0.34	31	0.36	0.045
617996	Soil			0.54	16.14	19.15	90.1	83	11.2	7.3	1282	2.38	5.6	1.6	0.9	0.7	26.6	0.66	0.52	0.27	26	2.23	0.109
617997	Soil			0.94	12.25	20.04	93.7	13	17.5	8.5	695	4.01	10.8	1.2	0.6	4.9	12.0	0.19	0.80	0.32	57	0.36	0.027
617829	Soil			0.48	51.55	26.04	63.8	503	20.3	9.5	798	2.90	5.1	1.9	3.4	2.9	74.2	0.09	0.34	0.38	25	1.19	0.098
617830	Soil			0.49	35.48	40.11	80.1	37	29.2	25.5	1733	3.32	3.2	0.8	1.2	6.5	18.3	0.03	0.22	0.44	20	0.16	0.031
617831	Soil			0.44	28.49	32.73	83.4	52	26.1	18.9	674	4.02	5.1	0.6	0.4	5.1	8.1	0.06	0.33	0.44	28	0.03	0.033
617832	Soil			0.51	31.03	35.17	86.7	84	29.6	14.7	510	3.96	7.2	0.8	1.8	5.7	9.0	0.11	0.45	0.43	29	0.06	0.032
617833	Soil			0.37	24.29	27.12	79.6	49	26.6	15.0	647	3.67	6.4	0.9	0.8	5.5	15.3	0.06	0.40	0.36	28	0.15	0.031
617834	Soil			0.50	27.18	35.15	94.2	56	25.8	20.3	981	3.80	6.1	1.0	1.0	5.9	15.7	0.09	0.37	0.42	33	0.16	0.036
617835	Soil			0.50	42.50	28.58	86.7	116	31.4	13.2	728	3.80	7.1	1.2	1.7	5.1	25.6	0.07	0.52	0.38	28	0.54	0.045
617836	Soil			0.40	34.06	20.77	91.8	19	27.9	12.8	357	3.70	5.3	0.7	0.8	4.0	17.4	0.07	0.25	0.38	30	0.22	0.031
617837	Soil			0.60	48.06	34.75	108.3	251	25.6	13.7	735	3.99	5.4	1.3	0.9	3.6	43.4	0.16	0.25	0.47	35	0.71	0.068
617838	Soil			0.44	24.01	29.81	84.9	19	23.2	15.3	479	4.13	4.8	0.5	0.4	5.2	6.5	0.06	0.26	0.38	28	0.02	0.031
617839	Soil			0.38	22.72	24.19	75.7	59	24.0	14.2	411	4.35	4.1	0.5	0.2	5.2	4.1	0.06	0.26	0.41	26	0.02	0.023
617840	Soil			0.64	22.33	27.30	65.9	102	17.4	8.4	320	4.47	7.0	0.6	<0.2	3.8	12.3	0.05	0.50	0.55	34	0.11	0.035
617841	Soil			0.60	23.32	27.87	88.1	68	12.6	8.3	352	4.08	4.6	0.6	1.1	4.4	10.4	0.08	0.34	0.49	33	0.02	0.056
617842	Soil			0.62	21.73	17.84	63.1	48	12.4	9.9	344	3.15	5.2	0.6	0.7	3.9	7.2	0.10	0.39	0.40	34	0.04	0.033
617843	Soil			0.50	42.36	70.47	103.2	139	32.6	31.3	1539	4.27	9.5	0.9	1.0	5.0	15.1	0.12	0.42	0.44	28	0.11	0.035
617844	Soil			0.52	38.32	49.69	115.9	42	29.2	25.4	1389	4.39	7.4	1.1	2.5	5.3	7.9	0.17	0.39	0.43	32	0.05	0.045
617845	Soil			0.42	33.90	40.84	95.8	22	30.4	23.1	873	4.41	6.0	0.6	0.6	4.3	19.1	0.05	0.28	0.48	35	0.31	0.027



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 29, 2011

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
617985	Soil	4.5	7.8	4.63	77.0	0.004	4	0.55	0.009	0.04	<0.1	0.5	0.04	0.06	31	0.3	0.04	1.1	0.25	<0.1	<0.02
617986	Soil	18.1	21.0	1.25	167.0	0.008	4	1.76	0.008	0.07	<0.1	3.2	0.65	0.06	103	0.2	0.08	3.9	0.51	<0.1	0.08
617987	Soil	15.5	24.7	0.72	181.3	0.010	3	1.87	0.005	0.08	<0.1	3.4	0.29	0.05	67	<0.1	0.03	4.6	0.65	<0.1	0.05
617988	Soil	10.2	17.2	2.74	149.8	0.006	5	1.20	0.009	0.08	<0.1	1.8	0.29	0.09	75	0.2	0.04	2.7	0.48	<0.1	0.04
617989	Soil	4.3	8.5	5.75	64.0	0.003	3	0.58	0.009	0.05	<0.1	1.4	0.17	0.02	130	0.2	0.03	1.4	0.21	<0.1	0.05
617990	Soil	14.1	21.7	1.77	180.8	0.006	4	1.63	0.005	0.08	<0.1	3.2	0.15	0.06	60	<0.1	0.05	3.8	0.50	<0.1	0.06
617991	Soil	7.3	11.5	3.78	59.1	0.006	5	0.74	0.007	0.05	<0.1	1.8	0.15	0.06	84	0.1	0.03	1.6	0.36	<0.1	0.04
617992	Soil	14.5	18.0	1.05	102.8	0.003	4	1.31	0.002	0.15	<0.1	5.4	0.14	0.03	40	0.1	0.08	3.7	0.34	<0.1	0.07
617993	Soil	18.4	32.5	0.91	123.3	0.010	3	1.95	0.005	0.07	0.1	5.3	0.16	0.03	57	0.3	0.03	5.2	1.12	<0.1	0.06
617994	Soil	13.2	27.2	0.46	97.7	0.003	1	1.84	<0.001	0.06	<0.1	3.2	0.15	<0.02	23	<0.1	<0.02	4.9	0.93	<0.1	0.05
617995	Soil	12.2	22.0	0.40	114.3	0.005	2	1.52	0.003	0.10	<0.1	3.7	0.12	0.03	30	0.2	0.03	4.2	0.97	<0.1	0.04
617996	Soil	6.1	14.9	0.43	139.5	0.006	4	1.14	0.007	0.05	<0.1	1.9	0.11	0.10	54	0.3	<0.02	3.4	0.80	<0.1	0.03
617997	Soil	13.6	29.9	0.47	109.8	0.015	2	2.04	0.002	0.06	0.1	3.4	0.17	<0.02	11	<0.1	0.04	5.9	1.26	<0.1	0.03
617829	Soil	9.3	25.9	0.34	392.8	0.001	3	2.14	0.007	0.16	<0.1	5.9	0.16	0.08	90	0.3	0.03	5.5	2.97	<0.1	0.07
617830	Soil	8.1	30.9	0.47	239.0	0.003	2	1.63	0.002	0.15	<0.1	4.2	0.20	0.02	17	0.1	<0.02	5.5	4.21	<0.1	0.03
617831	Soil	7.0	30.0	0.41	99.8	0.003	2	1.83	<0.001	0.12	<0.1	3.1	0.15	0.02	15	<0.1	<0.02	6.2	3.53	<0.1	0.04
617832	Soil	8.3	30.0	0.58	103.2	0.004	2	1.92	<0.001	0.12	<0.1	3.4	0.13	<0.02	17	0.2	<0.02	6.1	2.49	<0.1	0.07
617833	Soil	8.8	28.2	0.55	131.6	0.005	2	1.74	0.002	0.12	<0.1	4.0	0.14	<0.02	14	<0.1	0.04	5.7	2.06	<0.1	0.05
617834	Soil	9.8	33.2	0.55	169.3	0.007	3	1.85	0.003	0.17	<0.1	4.5	0.17	<0.02	16	<0.1	0.02	6.6	3.30	<0.1	0.03
617835	Soil	7.7	29.3	0.60	151.3	0.005	4	1.71	0.005	0.12	<0.1	5.2	0.13	0.03	43	0.1	0.04	5.6	2.61	<0.1	0.07
617836	Soil	6.3	33.1	0.60	102.9	0.003	<1	1.70	0.003	0.10	<0.1	4.0	0.09	<0.02	11	<0.1	<0.02	6.2	2.34	<0.1	0.04
617837	Soil	12.9	38.4	0.48	224.9	0.002	2	2.05	0.008	0.11	<0.1	6.4	0.11	0.05	45	0.2	0.03	8.0	3.06	<0.1	0.06
617838	Soil	6.6	29.5	0.37	61.7	0.002	<1	1.85	<0.001	0.10	<0.1	2.8	0.12	<0.02	26	0.1	<0.02	6.8	1.87	<0.1	0.06
617839	Soil	5.4	30.4	0.40	66.5	0.001	<1	2.07	<0.001	0.11	<0.1	2.7	0.11	<0.02	15	<0.1	0.02	7.1	1.84	<0.1	0.05
617840	Soil	7.5	26.2	0.30	238.9	0.003	1	1.50	0.003	0.12	<0.1	2.7	0.08	<0.02	16	<0.1	0.05	6.7	1.53	<0.1	0.02
617841	Soil	6.2	23.2	0.25	102.1	0.002	1	1.61	0.001	0.13	<0.1	2.5	0.15	0.03	20	0.1	0.04	7.4	2.35	<0.1	0.06
617842	Soil	7.8	18.0	0.20	87.6	0.003	<1	1.19	0.001	0.11	<0.1	2.3	0.12	<0.02	10	0.2	0.03	6.7	1.80	<0.1	0.02
617843	Soil	7.3	31.3	0.47	94.1	0.004	2	1.75	0.004	0.11	<0.1	5.5	0.17	0.03	43	<0.1	<0.02	6.0	4.11	<0.1	0.03
617844	Soil	8.0	34.1	0.44	138.3	0.003	1	2.04	0.002	0.12	<0.1	4.9	0.16	<0.02	17	0.1	0.02	6.3	4.37	<0.1	0.06
617845	Soil	5.6	37.1	0.59	108.3	0.003	1	1.99	0.003	0.10	<0.1	4.3	0.11	<0.02	7	<0.1	0.02	7.6	2.44	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 9 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
617985	Soil	0.15	3.3	0.2	<0.05	0.6	6.14	9.2	<0.02	<1	0.3	3.5	<10	<2
617986	Soil	0.39	7.6	1.2	<0.05	2.4	17.52	34.6	0.03	<1	1.5	11.2	<10	<2
617987	Soil	0.56	7.9	0.7	<0.05	1.9	13.65	31.4	0.03	<1	1.4	11.9	<10	<2
617988	Soil	0.28	5.4	0.9	<0.05	1.9	13.33	20.8	<0.02	<1	0.7	8.2	<10	<2
617989	Soil	0.10	3.0	0.5	<0.05	1.3	5.66	9.1	<0.02	<1	0.5	4.5	<10	<2
617990	Soil	0.41	8.9	0.7	<0.05	2.0	12.49	30.4	0.03	<1	1.0	11.2	<10	<2
617991	Soil	0.20	4.7	0.5	<0.05	1.0	8.68	13.7	0.04	<1	0.6	5.8	<10	<2
617992	Soil	0.19	9.0	2.3	<0.05	2.3	14.12	27.4	0.04	<1	0.9	10.2	<10	<2
617993	Soil	0.74	8.9	1.0	<0.05	2.1	12.38	34.7	0.04	<1	1.0	20.7	<10	<2
617994	Soil	0.45	9.0	2.1	<0.05	2.2	5.02	28.2	0.03	<1	0.8	23.4	<10	<2
617995	Soil	0.40	17.2	0.7	<0.05	1.6	7.40	25.7	0.04	<1	0.8	20.2	<10	<2
617996	Soil	0.52	9.4	0.7	<0.05	0.7	3.83	13.3	<0.02	<1	0.6	13.4	<10	<2
617997	Soil	0.83	10.5	0.9	<0.05	1.5	4.40	26.5	0.05	<1	0.7	26.9	<10	<2
617829	Soil	0.33	20.2	0.9	<0.05	3.0	22.16	17.0	0.03	<1	2.0	23.1	<10	<2
617830	Soil	0.10	18.0	5.6	<0.05	1.3	10.19	29.6	0.02	<1	1.8	39.6	<10	<2
617831	Soil	0.25	18.4	2.5	<0.05	2.3	4.00	15.1	0.04	<1	1.5	49.2	<10	<2
617832	Soil	0.27	13.8	1.2	<0.05	2.6	4.65	18.5	0.04	<1	1.6	53.6	<10	<2
617833	Soil	0.23	14.6	1.4	<0.05	1.9	7.43	19.9	0.04	<1	1.3	40.3	<10	<2
617834	Soil	0.43	20.2	2.2	<0.05	1.9	8.02	22.5	0.04	<1	1.4	41.5	<10	<2
617835	Soil	0.35	15.0	2.2	<0.05	2.2	11.00	17.0	0.04	<1	1.4	39.0	<10	<2
617836	Soil	0.25	12.0	1.3	<0.05	1.5	5.69	12.9	0.03	<1	1.1	37.7	<10	<2
617837	Soil	0.43	18.9	1.3	<0.05	1.7	25.00	19.7	0.05	<1	1.7	35.9	<10	<2
617838	Soil	0.21	15.1	1.8	<0.05	2.5	4.04	14.3	0.05	<1	1.1	42.9	<10	<2
617839	Soil	0.11	14.6	1.3	<0.05	2.6	3.34	11.5	0.02	<1	1.0	64.7	<10	<2
617840	Soil	0.33	15.9	1.3	<0.05	1.3	5.48	14.5	0.04	<1	0.8	28.8	<10	<2
617841	Soil	0.36	21.6	2.0	<0.05	1.8	3.11	12.7	0.02	<1	0.8	19.1	<10	<2
617842	Soil	0.33	18.8	1.2	<0.05	1.0	3.76	15.8	0.03	<1	0.7	14.3	<10	<2
617843	Soil	0.18	15.5	4.0	<0.05	1.2	8.72	23.2	0.05	<1	1.5	41.5	<10	<2
617844	Soil	0.29	17.2	1.6	<0.05	2.0	7.17	24.0	0.06	<1	2.1	45.4	<10	<2
617845	Soil	0.24	13.9	7.9	<0.05	1.6	5.29	13.3	0.04	1	1.0	44.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 29, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
617846	Soil			0.38	31.35	33.41	109.0	19	31.4	21.0	688	4.67	5.3	0.5	0.5	4.5	11.8	0.09	0.20	0.50	34	0.21	0.022
617847	Soil			0.56	33.01	32.97	105.4	21	28.4	15.3	770	4.22	6.7	0.9	0.8	5.0	16.8	0.11	0.46	0.43	33	0.21	0.042
1096501	Soil			0.52	21.34	32.72	172.8	103	23.4	10.8	1665	4.02	10.1	1.5	1.1	5.2	21.9	0.69	0.92	0.28	25	2.49	0.094
1096502	Soil			0.46	33.86	22.63	75.9	193	26.7	10.8	340	2.80	8.2	1.9	1.9	3.2	87.0	0.11	0.47	0.29	23	1.08	0.078
1096503	Soil			0.44	22.20	19.97	65.1	112	20.8	9.0	360	2.53	7.4	1.8	1.8	3.4	98.0	0.13	0.39	0.27	26	1.19	0.069
1096504	Soil			0.64	22.09	14.56	45.6	159	12.6	6.3	292	1.86	4.7	1.9	0.4	1.1	92.6	0.23	0.31	0.22	21	1.30	0.130
1096505	Soil			0.58	24.42	20.08	97.8	120	14.2	6.0	483	2.91	6.7	0.9	0.3	0.5	14.3	0.61	0.46	0.26	21	0.12	0.177
1096506	Soil			0.41	20.75	15.99	80.4	91	21.9	7.2	228	2.30	4.9	1.4	1.2	3.2	57.0	0.08	0.34	0.26	20	0.86	0.082
1096507	Soil			0.33	19.11	15.45	84.6	75	17.6	7.4	407	1.91	3.4	2.0	0.9	1.9	76.8	0.18	0.30	0.25	17	1.50	0.072
1096508	Soil			0.45	24.34	15.29	91.7	121	25.0	9.6	427	2.13	5.1	2.3	2.0	4.5	70.6	0.25	0.35	0.21	24	1.04	0.094
1096509	Soil			0.49	28.81	26.24	71.1	124	26.0	10.5	392	2.69	8.6	1.4	2.0	4.9	38.9	0.17	0.58	0.27	23	1.23	0.062
1096510	Soil			0.70	28.65	28.74	106.7	75	25.0	14.1	692	3.04	9.3	2.1	1.9	3.0	51.5	0.31	0.71	0.31	32	1.08	0.096
1096511	Soil			0.47	28.23	17.32	79.1	58	25.5	9.9	296	2.90	8.0	1.3	5.8	4.5	27.6	0.17	0.41	0.35	27	0.36	0.043
1096512	Soil			0.56	27.34	19.17	70.2	125	24.9	10.9	500	2.71	9.6	1.8	4.1	2.7	60.5	0.24	0.49	0.35	29	1.10	0.054
1096513	Soil			0.38	23.33	17.16	67.7	108	23.6	10.5	542	2.42	6.3	1.8	3.5	2.6	63.0	0.21	0.35	0.31	21	1.35	0.055
1096514	Soil			0.80	15.53	16.17	68.2	11	20.9	8.8	238	3.18	8.4	0.8	2.6	3.1	14.3	0.09	0.37	0.34	35	0.12	0.032
1096515	Soil			0.33	4.87	6.83	19.9	89	6.7	3.3	1217	1.27	5.4	1.1	2.1	0.4	36.4	0.10	0.59	0.10	10	15.50	0.090
1096516	Soil			0.33	4.78	9.37	11.8	73	7.0	3.2	764	1.14	7.6	0.7	0.9	0.3	39.3	0.12	1.06	0.06	8	12.13	0.080
1096517	Soil			0.73	13.14	20.04	50.2	107	15.2	7.3	2356	2.77	9.9	1.2	1.9	1.1	41.5	0.20	0.82	0.17	19	9.73	0.130
1096518	Soil			0.54	10.73	16.70	70.3	101	10.6	5.6	3062	3.37	8.6	1.5	1.1	0.5	36.3	0.32	0.74	0.16	19	10.15	0.225
1096519	Soil			0.52	14.57	29.05	78.9	166	19.6	7.9	2130	4.37	12.6	1.4	2.0	4.1	27.4	0.10	1.00	0.26	20	7.73	0.083
1096520	Soil			0.73	16.63	25.33	95.3	115	21.4	8.0	770	4.43	12.2	1.5	1.5	2.7	24.9	0.15	0.86	0.33	32	0.90	0.074
1096521	Soil			0.79	23.98	26.66	138.2	144	24.7	11.8	1040	3.74	10.8	1.1	1.6	3.1	23.5	0.30	0.62	0.35	26	0.57	0.051
1096522	Soil			0.73	13.32	26.49	95.9	104	19.9	8.9	1814	3.74	13.2	1.2	1.6	3.6	27.2	0.26	1.00	0.29	30	4.43	0.070
1098249	Soil			0.60	15.29	24.54	69.9	85	19.3	8.0	1617	3.11	14.6	1.5	1.1	2.5	35.5	0.10	0.89	0.27	26	7.65	0.137
1098250	Soil			0.78	13.62	30.76	90.2	60	19.9	9.0	1282	3.71	10.8	1.1	1.1	2.6	13.9	0.32	0.65	0.33	31	1.04	0.082
1098129	Soil			0.59	26.98	30.65	68.8	99	26.4	11.7	1279	3.92	13.3	1.3	1.7	5.7	18.7	0.16	0.85	0.34	24	1.32	0.035
1098130	Soil			0.57	23.43	30.28	78.8	96	29.2	12.5	1081	3.64	13.1	1.3	2.7	6.3	23.8	0.13	0.79	0.32	23	2.16	0.034
1098131	Soil			0.53	23.71	23.23	80.9	70	28.9	12.4	647	3.55	9.6	1.3	2.0	5.6	14.8	0.09	0.47	0.33	31	0.31	0.025
1098132	Soil			0.45	27.45	27.92	109.7	101	30.4	14.5	531	3.24	10.2	1.1	2.1	2.8	69.9	0.09	0.37	0.34	15	0.58	0.052



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 29, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
617846	Soil	5.2	38.6	0.59	75.5	0.002	<1	2.05	0.004	0.09	<0.1	4.1	0.11	<0.02	<5	0.2	<0.02	7.8	2.86	<0.1	0.05
617847	Soil	7.6	31.6	0.53	113.9	0.003	1	1.84	0.003	0.10	<0.1	4.3	0.12	0.02	11	<0.1	<0.02	6.7	2.02	<0.1	0.06
1096501	Soil	17.0	19.9	1.44	114.2	0.004	2	1.37	0.005	0.06	<0.1	5.5	0.09	0.04	141	0.3	0.06	3.5	0.70	<0.1	0.04
1096502	Soil	11.9	23.1	0.55	117.1	0.004	3	1.42	0.004	0.09	<0.1	5.5	0.11	0.06	51	0.4	<0.02	3.9	1.96	<0.1	0.08
1096503	Soil	11.2	23.6	0.55	138.1	0.004	3	1.43	0.004	0.07	<0.1	4.7	0.11	0.06	45	0.3	<0.02	4.5	1.50	<0.1	0.07
1096504	Soil	8.0	17.4	0.31	99.3	0.005	2	0.91	0.004	0.05	<0.1	2.0	0.09	0.09	41	0.3	0.02	3.3	1.41	<0.1	0.04
1096505	Soil	4.7	18.5	0.21	74.3	0.003	1	0.86	0.003	0.07	<0.1	0.6	0.09	0.09	39	0.2	0.04	3.2	2.05	<0.1	0.03
1096506	Soil	13.8	23.3	0.53	121.1	0.004	3	1.33	0.003	0.08	<0.1	4.0	0.12	0.05	42	0.2	0.04	4.0	1.25	<0.1	0.06
1096507	Soil	9.3	19.6	0.49	121.1	0.004	3	1.09	0.005	0.08	<0.1	2.9	0.08	0.08	69	0.4	0.03	3.3	0.60	<0.1	0.07
1096508	Soil	20.3	27.3	0.85	93.3	0.010	4	1.30	0.003	0.11	<0.1	5.3	0.10	0.03	56	0.3	0.04	4.1	1.44	<0.1	0.06
1096509	Soil	18.9	22.4	0.73	102.6	0.004	3	1.28	0.003	0.08	<0.1	6.1	0.10	0.04	87	0.1	0.03	3.8	1.09	<0.1	0.07
1096510	Soil	14.2	26.6	0.58	159.9	0.010	3	1.49	0.004	0.11	<0.1	4.0	0.12	0.05	68	0.3	0.02	4.8	2.32	<0.1	0.08
1096511	Soil	14.9	28.0	0.81	140.6	0.004	3	1.61	0.003	0.09	<0.1	4.4	0.11	<0.02	60	0.2	0.06	4.6	1.32	<0.1	0.09
1096512	Soil	14.1	25.1	0.67	169.8	0.006	3	1.53	0.005	0.07	<0.1	4.1	0.08	0.04	88	0.3	0.04	4.2	0.86	<0.1	0.11
1096513	Soil	11.4	22.2	0.79	95.0	0.004	3	1.31	0.003	0.07	<0.1	3.7	0.08	0.03	90	0.3	0.02	3.7	0.89	<0.1	0.07
1096514	Soil	8.7	23.4	0.46	84.7	0.003	2	1.83	0.002	0.06	0.1	2.4	0.12	<0.02	22	0.2	<0.02	5.0	1.29	<0.1	0.04
1096515	Soil	3.6	6.9	8.04	42.6	0.005	3	0.38	0.013	0.02	<0.1	0.7	0.11	<0.02	33	0.5	<0.02	0.8	0.20	<0.1	<0.02
1096516	Soil	3.2	5.9	6.14	38.6	0.002	2	0.31	0.007	0.03	<0.1	0.5	0.05	<0.02	32	0.4	<0.02	0.8	0.14	<0.1	0.02
1096517	Soil	5.9	15.4	5.03	114.2	0.005	3	1.10	0.008	0.07	<0.1	1.6	0.16	0.03	37	0.4	0.03	2.5	0.52	<0.1	0.07
1096518	Soil	11.4	13.7	4.89	113.5	0.004	4	1.00	0.010	0.04	<0.1	1.2	0.10	0.06	50	0.5	0.03	1.9	0.45	<0.1	<0.02
1096519	Soil	24.8	16.9	4.18	81.0	0.002	3	1.15	0.005	0.12	<0.1	5.4	0.12	<0.02	80	0.3	0.05	2.5	0.40	<0.1	0.10
1096520	Soil	15.6	25.7	0.71	87.5	0.008	3	1.61	0.004	0.08	<0.1	4.7	0.11	0.04	52	0.3	0.07	3.9	0.88	<0.1	0.08
1096521	Soil	12.7	22.8	0.54	98.8	0.006	3	1.38	0.004	0.12	<0.1	3.6	0.10	0.03	31	0.2	0.04	4.0	1.18	<0.1	0.06
1096522	Soil	19.0	23.6	2.55	102.1	0.007	3	1.41	0.007	0.06	0.1	4.8	0.13	0.02	57	0.3	0.03	3.3	0.70	<0.1	0.05
1098249	Soil	9.6	20.8	4.26	132.0	0.002	4	1.63	0.010	0.12	<0.1	3.7	0.13	0.03	26	0.3	0.07	4.0	0.72	<0.1	0.10
1098250	Soil	12.5	24.4	0.77	117.7	0.005	3	1.64	0.004	0.13	<0.1	3.2	0.12	0.04	36	0.2	0.09	4.5	0.67	<0.1	0.05
1098129	Soil	19.2	28.0	1.34	103.2	0.002	3	1.75	0.004	0.12	<0.1	5.0	0.22	<0.02	128	0.2	0.05	4.6	0.74	<0.1	0.10
1098130	Soil	23.6	27.9	1.72	92.7	0.002	3	1.71	0.004	0.09	<0.1	5.7	0.15	<0.02	117	0.3	0.06	4.1	0.86	<0.1	0.08
1098131	Soil	20.0	31.8	0.84	93.5	0.004	2	1.97	0.003	0.12	<0.1	5.1	0.14	<0.02	48	0.2	0.03	5.6	1.16	<0.1	0.08
1098132	Soil	5.6	16.5	0.38	86.4	0.003	4	1.08	0.005	0.08	<0.1	3.6	0.10	0.04	33	0.1	0.06	3.2	1.64	<0.1	0.05



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: October 29, 2011

Page: 10 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
617846	Soil	0.24	12.6	1.4	<0.05	1.7	4.19	12.9	0.05	<1	1.2	48.0	<10	<2
617847	Soil	0.30	13.7	1.9	<0.05	1.4	5.86	20.4	0.05	1	1.1	43.7	<10	<2
1096501	Soil	0.34	6.6	0.7	<0.05	1.9	16.95	34.1	0.04	<1	0.9	24.5	<10	<2
1096502	Soil	0.35	9.5	2.8	<0.05	2.7	15.79	24.1	0.03	1	1.0	44.6	<10	<2
1096503	Soil	0.45	8.2	0.5	<0.05	2.6	10.58	23.5	0.03	<1	0.9	42.1	<10	<2
1096504	Soil	0.49	7.6	1.2	<0.05	1.0	5.26	16.6	<0.02	<1	0.6	19.7	<10	<2
1096505	Soil	0.12	9.8	0.7	<0.05	0.6	3.46	9.4	0.02	<1	0.5	12.2	<10	<2
1096506	Soil	0.44	11.5	0.7	<0.05	2.2	12.01	26.6	0.03	1	1.0	32.6	<10	<2
1096507	Soil	0.49	7.7	0.6	<0.05	2.2	8.01	17.8	0.03	<1	0.6	25.8	<10	<2
1096508	Soil	0.48	10.1	1.2	<0.05	3.2	13.79	41.3	0.02	2	0.9	34.7	<10	<2
1096509	Soil	0.39	7.5	0.5	<0.05	3.5	17.71	33.6	0.03	<1	1.1	32.9	<10	<2
1096510	Soil	0.64	14.3	3.2	<0.05	2.2	11.62	30.5	0.03	1	0.9	33.6	<10	<2
1096511	Soil	0.42	10.0	0.7	<0.05	3.1	12.15	31.4	0.05	<1	0.9	39.7	<10	<2
1096512	Soil	0.61	7.4	0.8	<0.05	2.9	13.04	28.2	0.03	<1	0.9	31.1	<10	<2
1096513	Soil	0.38	6.6	0.6	<0.05	2.8	9.54	26.6	0.03	<1	1.0	33.6	<10	<2
1096514	Soil	0.59	10.0	1.1	<0.05	2.1	4.23	22.5	0.03	<1	0.8	45.9	<10	<2
1096515	Soil	0.11	2.1	0.8	<0.05	0.5	5.92	6.9	<0.02	<1	0.2	2.9	<10	<2
1096516	Soil	0.08	2.0	2.8	<0.05	0.7	6.25	6.1	<0.02	<1	0.3	2.8	<10	<2
1096517	Soil	0.20	6.2	2.0	<0.05	1.7	8.93	12.5	0.02	<1	0.8	13.0	<10	<2
1096518	Soil	0.14	6.0	1.2	<0.05	1.0	15.55	20.2	0.02	<1	0.8	6.6	<10	<2
1096519	Soil	0.18	6.3	0.9	<0.05	3.3	30.90	32.2	0.03	<1	0.9	12.6	<10	<2
1096520	Soil	0.48	10.5	1.2	<0.05	1.9	16.05	26.1	0.04	<1	1.0	23.0	<10	<2
1096521	Soil	0.44	13.4	0.7	<0.05	2.2	13.36	23.7	0.03	<1	1.0	27.9	<10	<2
1096522	Soil	0.46	7.5	0.9	<0.05	1.5	17.10	37.3	0.04	<1	1.1	17.9	<10	<2
1098249	Soil	0.23	10.2	0.9	<0.05	4.2	13.84	19.9	0.02	<1	1.0	24.0	<10	<2
1098250	Soil	0.48	15.8	0.7	<0.05	2.0	9.94	35.3	0.03	<1	1.2	19.0	<10	<2
1098129	Soil	0.30	11.2	0.6	<0.05	4.2	13.31	38.5	0.03	1	1.4	31.2	<10	<2
1098130	Soil	0.27	10.2	1.1	<0.05	3.5	18.50	43.6	0.03	<1	1.4	32.4	<10	<2
1098131	Soil	0.38	13.2	0.7	<0.05	3.0	13.97	37.2	0.04	<1	1.2	37.8	<10	<2
1098132	Soil	0.21	8.4	0.7	<0.05	2.4	9.08	14.3	0.04	2	1.0	39.0	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 29, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1098133	Soil			0.59	19.04	22.93	94.9	77	24.1	10.3	1079	3.37	9.5	1.1	2.0	3.6	29.2	0.19	0.44	0.33	29	0.54	0.052
1098134	Soil			0.41	21.07	18.83	53.5	24	22.7	9.9	297	3.45	8.0	0.5	0.8	3.4	11.5	0.04	0.45	0.39	24	0.11	0.021
1098135	Soil			0.67	14.90	12.42	46.1	39	9.7	4.6	200	2.31	6.1	0.5	1.1	2.0	6.9	0.03	0.30	0.37	40	0.04	0.024
1098136	Soil			0.57	15.26	17.61	59.9	73	16.3	6.6	286	2.90	4.8	0.7	0.8	3.8	14.4	0.07	0.30	0.33	39	0.13	0.019
1098137	Soil			0.57	10.79	9.74	58.8	102	14.2	13.1	2288	2.32	11.3	1.1	1.0	0.5	47.2	0.27	0.87	0.13	19	12.50	0.131
1098138	Soil			0.72	19.04	20.16	68.8	159	24.7	10.1	710	2.95	10.2	0.7	2.3	3.2	18.0	0.08	0.63	0.25	36	2.33	0.050
1098139	Soil			0.97	14.65	39.59	106.7	96	19.7	9.6	2699	4.89	15.4	1.0	0.9	2.7	23.5	0.34	1.25	0.30	40	3.59	0.102
1098140	Soil			0.69	17.52	23.41	82.1	111	20.4	11.8	1912	3.04	10.3	0.8	2.1	1.4	28.1	0.28	0.92	0.24	25	5.48	0.143
1098141	Soil			0.63	22.12	26.64	56.9	143	23.1	10.4	1395	3.26	11.4	1.0	2.0	3.8	27.9	0.09	0.72	0.27	23	5.30	0.067
1098142	Soil			0.91	21.46	34.27	91.5	131	26.5	11.6	2401	4.34	16.9	0.9	1.9	3.1	21.0	0.21	1.36	0.32	35	3.36	0.113
1098143	Soil			0.89	18.52	30.48	104.3	153	24.9	10.9	2079	4.53	14.9	1.1	1.6	3.8	24.1	0.18	1.17	0.32	34	2.29	0.069
1098144	Soil			0.92	16.43	34.80	73.9	176	22.8	10.1	2812	5.09	24.9	1.4	1.3	2.1	20.3	0.23	1.57	0.32	42	2.91	0.171
1098145	Soil			0.65	16.40	25.09	71.0	154	17.9	7.0	983	3.80	15.3	1.3	1.3	2.0	24.8	0.14	1.15	0.26	27	4.69	0.149
1098146	Soil			0.86	19.27	23.85	91.2	148	27.1	11.9	831	3.63	14.1	1.0	1.5	3.4	20.3	0.12	0.84	0.35	40	0.87	0.049
1098147	Soil			0.55	20.59	28.42	78.0	47	24.0	11.3	877	4.17	11.7	1.1	1.2	5.1	10.5	0.12	0.63	0.34	27	0.29	0.026
1098148	Soil			0.57	13.56	20.19	87.8	58	22.2	8.9	614	3.53	10.1	1.1	0.7	3.9	13.0	0.17	0.60	0.32	38	0.43	0.033
1098149	Soil			0.38	18.05	15.93	58.9	122	17.2	7.7	579	2.51	7.0	1.3	0.5	0.9	30.2	0.30	0.49	0.27	23	1.86	0.073
1097323	Soil			0.83	12.73	21.43	73.0	53	19.4	8.0	946	3.91	9.8	1.0	0.5	3.7	12.3	0.21	0.61	0.30	38	0.45	0.045
1097324	Soil			0.55	22.08	25.22	90.5	190	25.2	10.6	777	3.53	10.2	1.3	1.1	3.3	27.9	0.19	0.60	0.27	27	1.28	0.055
1097325	Soil			0.57	17.61	20.36	97.9	152	21.4	8.1	486	3.51	8.6	1.4	0.7	2.4	18.1	0.19	0.49	0.28	33	0.74	0.071
1097326	Soil			0.83	16.28	27.35	98.8	123	24.0	10.1	1883	4.24	12.0	1.3	1.5	4.0	19.1	0.22	0.87	0.30	38	1.54	0.067
1097327	Soil			0.60	17.35	19.89	73.4	173	21.5	7.9	748	2.98	8.4	1.2	1.3	2.2	22.3	0.16	0.56	0.24	28	1.14	0.066
1097328	Soil			0.56	22.15	20.39	106.5	179	19.7	8.8	1322	3.27	7.7	1.0	0.8	1.9	29.8	0.49	0.57	0.27	29	1.40	0.067
1097329	Soil			0.44	18.39	22.86	58.1	135	22.2	9.5	1154	3.06	9.6	1.2	1.1	3.3	27.7	0.09	0.68	0.24	16	5.46	0.066
1097330	Soil			0.69	14.57	28.65	232.2	121	17.0	7.4	1395	4.32	12.2	1.3	0.6	1.5	17.9	0.68	0.97	0.25	32	2.61	0.130
1097331	Soil			0.66	12.22	20.46	63.1	59	16.5	9.4	848	3.36	9.0	1.3	<0.2	3.0	10.0	0.17	0.55	0.31	36	0.54	0.036
1097332	Soil			0.40	21.96	19.53	51.6	58	20.3	9.5	437	3.05	8.0	0.8	0.6	3.1	14.8	0.15	0.40	0.29	21	1.42	0.038
1097333	Soil			0.39	19.09	19.62	69.0	29	22.3	13.0	453	3.50	7.4	0.8	<0.2	3.7	6.2	0.15	0.21	0.31	26	0.11	0.026
1097334	Soil			0.81	22.23	21.48	77.8	116	27.8	11.7	892	3.59	10.6	2.3	1.2	3.0	22.2	0.17	0.70	0.29	30	1.05	0.054
1097335	Soil			0.61	19.32	42.34	68.8	192	18.7	9.4	4959	5.56	11.4	2.0	1.2	1.4	17.7	0.36	1.35	0.28	17	5.53	0.188



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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 29, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1098133	Soil	11.5	26.6	0.56	144.9	0.004	1	1.62	0.003	0.09	0.1	3.4	0.11	<0.02	40	0.2	<0.02	4.8	1.45	<0.1	0.06
1098134	Soil	8.1	24.2	0.43	112.4	0.002	1	1.62	0.003	0.09	<0.1	2.8	0.11	<0.02	18	0.1	0.05	5.3	1.19	<0.1	0.03
1098135	Soil	11.2	18.3	0.23	57.1	0.010	2	0.93	0.003	0.08	<0.1	1.8	0.10	<0.02	20	<0.1	0.04	6.3	1.80	<0.1	<0.02
1098136	Soil	13.1	28.4	0.45	110.6	0.006	1	1.64	0.003	0.09	<0.1	2.6	0.12	<0.02	16	<0.1	0.03	6.2	1.56	<0.1	<0.02
1098137	Soil	6.4	12.5	6.36	130.9	0.008	3	0.86	0.009	0.04	<0.1	1.0	0.32	0.03	37	0.5	<0.02	1.8	0.42	<0.1	0.02
1098138	Soil	13.8	24.4	1.68	92.4	0.008	2	1.59	0.007	0.07	0.1	4.3	0.10	0.02	65	0.2	0.04	3.9	0.98	<0.1	0.08
1098139	Soil	17.1	25.8	2.09	137.8	0.006	5	1.97	0.008	0.08	<0.1	4.3	0.14	0.05	54	0.2	0.04	4.7	0.78	<0.1	0.07
1098140	Soil	9.9	19.3	3.01	128.4	0.005	4	1.45	0.009	0.09	<0.1	2.2	0.15	0.05	52	0.5	0.03	3.3	0.69	<0.1	0.05
1098141	Soil	14.5	24.3	3.29	100.2	0.003	3	1.46	0.005	0.11	<0.1	4.4	0.17	<0.02	80	0.4	0.03	3.9	0.69	<0.1	0.09
1098142	Soil	14.7	28.8	2.19	160.2	0.004	6	2.12	0.008	0.13	<0.1	4.4	0.18	0.05	48	0.3	0.05	4.9	0.91	<0.1	0.17
1098143	Soil	18.1	27.2	1.52	147.7	0.007	4	1.70	0.004	0.13	<0.1	5.0	0.16	0.03	85	0.4	0.05	4.3	0.82	<0.1	0.10
1098144	Soil	20.1	30.4	1.65	157.8	0.008	4	2.00	0.005	0.09	<0.1	4.4	0.16	0.07	116	0.6	0.06	4.9	0.69	<0.1	0.09
1098145	Soil	14.4	23.2	2.62	93.9	0.006	3	1.40	0.007	0.07	<0.1	3.4	0.15	0.05	56	0.5	0.04	3.3	0.63	<0.1	0.05
1098146	Soil	16.0	29.3	0.85	131.7	0.017	4	1.72	0.006	0.09	0.1	4.4	0.14	0.02	53	0.4	0.06	4.7	1.25	<0.1	0.06
1098147	Soil	13.2	25.6	0.61	100.8	0.002	2	1.75	0.002	0.11	<0.1	4.3	0.15	<0.02	28	0.2	0.04	4.6	0.92	<0.1	0.08
1098148	Soil	14.8	28.5	0.64	121.7	0.008	2	1.86	0.003	0.09	<0.1	3.5	0.13	<0.02	42	0.2	0.05	5.3	1.16	<0.1	0.05
1098149	Soil	6.8	20.1	0.60	126.1	0.004	3	1.30	0.004	0.07	<0.1	1.7	0.07	0.06	52	0.4	0.02	3.9	0.77	<0.1	0.03
1097323	Soil	11.4	28.9	0.70	123.8	0.007	3	1.86	0.003	0.09	<0.1	3.6	0.13	0.02	32	0.2	0.06	5.1	0.90	<0.1	0.07
1097324	Soil	15.0	26.2	0.97	105.7	0.006	3	1.53	0.003	0.08	<0.1	4.2	0.10	0.03	57	0.1	<0.02	4.2	0.89	<0.1	0.09
1097325	Soil	12.7	27.1	0.59	116.7	0.008	2	1.69	0.004	0.06	0.1	3.6	0.11	0.04	40	<0.1	<0.02	4.2	0.96	<0.1	0.05
1097326	Soil	20.5	31.6	1.10	154.1	0.006	2	2.03	0.004	0.06	<0.1	5.2	0.15	0.03	44	<0.1	0.04	5.0	0.95	<0.1	0.06
1097327	Soil	12.1	23.7	0.66	123.1	0.007	2	1.48	0.005	0.06	<0.1	3.1	0.11	0.04	71	0.2	<0.02	4.1	0.82	<0.1	0.06
1097328	Soil	10.2	24.9	0.57	164.1	0.007	3	1.47	0.006	0.07	<0.1	2.8	0.12	0.05	54	0.1	<0.02	4.1	0.84	<0.1	0.06
1097329	Soil	10.9	21.0	3.41	82.7	0.003	3	1.29	0.005	0.07	<0.1	3.0	0.12	0.02	49	0.1	<0.02	2.9	0.63	<0.1	0.07
1097330	Soil	13.2	23.3	1.43	88.9	0.008	3	1.55	0.005	0.05	<0.1	2.7	0.13	0.07	55	0.2	0.03	3.5	0.60	<0.1	0.04
1097331	Soil	9.8	23.1	0.42	84.8	0.008	2	1.42	0.003	0.06	<0.1	3.1	0.10	0.02	23	0.1	<0.02	4.4	0.70	<0.1	0.05
1097332	Soil	11.1	19.2	0.69	102.1	0.003	2	1.11	0.002	0.07	<0.1	3.4	0.08	0.02	49	<0.1	<0.02	3.2	0.46	<0.1	0.06
1097333	Soil	8.7	25.1	0.53	105.6	0.002	2	1.78	<0.001	0.06	<0.1	3.0	0.09	<0.02	17	<0.1	0.02	5.1	0.68	<0.1	0.03
1097334	Soil	13.9	27.5	0.75	161.0	0.011	2	1.49	0.004	0.07	0.1	3.8	0.11	0.04	84	0.2	<0.02	4.1	0.87	<0.1	0.06
1097335	Soil	14.8	17.2	2.75	142.2	0.004	4	1.26	0.006	0.06	<0.1	2.2	0.11	0.10	108	0.3	0.07	2.5	0.42	<0.1	0.08



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Project: Scarlet
 Report Date: October 29, 2011

Page: 11 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1098133	Soil	0.48	12.0	1.1	<0.05	1.5	8.93	24.6	0.05	<1	0.9	33.7	<10	<2
1098134	Soil	0.36	14.5	1.0	<0.05	1.9	5.33	17.9	0.03	<1	0.8	32.5	<10	<2
1098135	Soil	0.73	15.9	1.1	<0.05	0.2	3.07	22.4	0.03	1	0.3	7.9	<10	<2
1098136	Soil	0.70	18.8	4.7	<0.05	1.0	4.69	25.9	0.02	2	0.5	44.5	<10	<2
1098137	Soil	0.18	5.1	1.3	<0.05	0.7	9.47	11.9	<0.02	<1	0.7	7.2	<10	<2
1098138	Soil	0.42	8.2	1.3	<0.05	2.5	14.01	26.9	<0.02	<1	0.9	25.1	<10	<2
1098139	Soil	0.40	10.1	1.0	<0.05	2.4	18.91	33.7	0.03	<1	1.2	20.1	<10	<2
1098140	Soil	0.28	8.2	1.4	<0.05	1.8	11.62	20.2	0.03	<1	1.0	15.0	<10	<2
1098141	Soil	0.26	8.4	1.4	<0.05	3.1	14.78	28.1	0.03	<1	1.2	25.2	<10	<2
1098142	Soil	0.34	11.8	1.2	<0.05	3.8	16.01	30.0	0.03	<1	1.3	23.8	<10	<2
1098143	Soil	0.39	11.5	0.5	<0.05	2.8	17.17	33.2	0.03	<1	1.0	20.9	<10	<2
1098144	Soil	0.42	10.2	1.2	<0.05	2.5	19.62	32.7	0.04	<1	1.2	15.3	<10	<2
1098145	Soil	0.35	9.7	0.4	<0.05	1.6	13.96	20.1	0.03	1	1.2	16.1	<10	<2
1098146	Soil	0.71	12.0	0.7	<0.05	1.6	12.09	30.0	0.03	<1	0.8	25.0	<10	<2
1098147	Soil	0.29	12.2	0.6	<0.05	3.3	10.25	28.4	0.03	<1	1.2	33.0	<10	<2
1098148	Soil	0.68	14.0	0.7	<0.05	1.9	9.17	26.4	0.03	<1	0.7	25.5	<10	<2
1098149	Soil	0.42	9.6	0.4	<0.05	1.1	4.52	13.4	<0.02	<1	0.5	20.7	<10	<2
1097323	Soil	0.54	16.1	0.7	<0.05	1.9	6.34	28.1	0.04	<1	1.0	24.0	<10	<2
1097324	Soil	0.42	8.6	0.6	<0.05	2.5	13.14	26.6	0.04	<1	1.0	24.0	<10	<2
1097325	Soil	0.62	10.2	0.7	<0.05	1.5	10.53	22.5	0.04	<1	0.9	18.4	<10	<2
1097326	Soil	0.61	7.9	0.7	<0.05	2.3	17.20	36.1	0.04	<1	1.4	20.8	<10	<2
1097327	Soil	0.57	9.0	0.9	<0.05	1.9	10.11	21.4	0.03	<1	0.8	19.0	<10	<2
1097328	Soil	0.62	9.4	0.5	<0.05	1.9	7.59	21.6	0.03	<1	0.8	17.3	<10	<2
1097329	Soil	0.17	6.8	0.7	<0.05	2.4	8.88	22.7	0.03	<1	0.9	22.5	<10	<2
1097330	Soil	0.43	7.0	0.5	<0.05	1.5	12.88	19.5	0.03	<1	1.0	11.3	<10	<2
1097331	Soil	0.65	9.2	0.7	<0.05	1.3	4.83	22.4	0.03	<1	0.7	13.1	<10	<2
1097332	Soil	0.37	7.7	0.6	<0.05	1.8	9.98	20.8	0.03	<1	0.8	18.0	<10	<2
1097333	Soil	0.30	9.0	1.3	<0.05	1.6	5.24	19.1	0.03	<1	0.8	25.5	<10	<2
1097334	Soil	0.59	8.7	1.1	<0.05	1.5	12.54	27.4	0.03	<1	0.9	21.4	<10	<2
1097335	Soil	0.16	6.8	0.9	<0.05	2.1	17.68	27.5	0.02	<1	0.8	7.7	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Project: Scarlet
 Report Date: October 29, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15		
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1097336	Soil	0.48	21.51	26.25	88.2	75	28.0	12.1	628	3.43	9.0	1.3	1.6	5.5	18.9	0.14	0.41	0.29	24	0.39	0.034	
1097337	Soil	0.58	17.52	22.72	97.6	55	24.0	9.8	556	3.51	8.5	1.1	0.9	4.6	8.4	0.10	0.45	0.29	31	0.11	0.032	
1097338	Soil	0.69	16.61	18.58	63.1	77	19.0	8.2	328	3.30	7.5	0.9	0.4	2.2	8.9	0.18	0.46	0.28	32	0.27	0.047	
1097339	Soil	0.80	15.11	20.59	74.0	65	21.4	8.1	515	3.51	9.6	1.1	1.7	4.1	14.9	0.22	0.57	0.36	41	0.49	0.040	
1097340	Soil	0.56	16.12	18.40	77.2	43	24.6	9.7	597	3.49	8.9	1.1	0.7	5.5	11.2	0.13	0.50	0.36	39	0.23	0.022	
1097341	Soil	0.56	22.83	29.63	83.7	103	26.2	11.5	1074	4.07	11.2	1.5	1.0	6.4	17.4	0.18	0.86	0.38	32	0.74	0.050	
1097342	Soil	0.69	24.21	24.39	89.0	123	24.3	12.5	1276	3.39	9.6	1.7	0.6	2.6	24.0	0.23	0.67	0.31	36	0.91	0.050	
1097620	Soil	0.56	30.09	24.64	74.0	125	21.8	7.6	202	2.99	7.5	0.8	0.4	1.6	13.6	0.27	0.30	0.33	24	0.08	0.060	
1097621	Soil	0.48	38.75	26.63	122.4	168	42.5	15.6	516	3.72	7.5	1.0	0.9	5.1	77.5	0.17	0.29	0.42	20	0.84	0.040	
1097622	Soil	0.36	28.26	23.80	72.4	125	26.0	12.0	529	2.76	5.6	1.4	1.4	2.6	89.1	0.11	0.24	0.34	18	1.13	0.056	
1097623	Soil	0.41	24.37	21.19	78.9	125	21.4	8.7	254	2.44	6.6	0.8	0.5	1.7	118.2	0.18	0.29	0.30	16	1.68	0.065	
1097624	Soil	0.43	26.50	24.24	71.7	106	25.7	11.9	498	3.12	8.0	1.7	1.1	2.9	46.7	0.13	0.37	0.34	23	1.04	0.040	
1097625	Soil	0.38	27.56	23.18	67.2	116	25.5	10.0	418	2.91	7.7	2.2	1.1	2.9	49.6	0.12	0.36	0.32	21	2.09	0.060	
1097626	Soil	0.43	23.90	20.51	96.0	140	23.8	10.9	1902	2.97	5.9	1.8	0.9	3.0	43.0	0.33	0.29	0.34	29	1.75	0.061	
1097627	Soil	0.44	27.89	24.17	92.1	134	25.2	10.2	624	3.03	9.2	1.8	1.2	2.6	39.4	0.17	0.45	0.32	24	2.62	0.074	
1097628	Soil	0.37	29.77	19.94	150.7	113	22.6	9.6	425	2.78	8.2	1.6	1.5	2.4	97.4	0.19	0.37	0.30	20	3.02	0.063	
1097629	Soil	0.36	17.29	26.88	60.4	37	18.4	11.3	1143	3.81	7.0	2.4	0.3	3.0	38.4	0.18	0.33	0.39	20	1.12	0.052	
1097630	Soil	0.42	19.84	31.19	140.1	55	20.9	9.6	523	4.47	6.5	0.8	0.4	2.9	38.3	0.24	0.30	0.33	25	0.36	0.054	
1097631	Soil	0.52	25.80	28.19	90.2	115	20.2	10.2	530	3.12	7.0	0.9	<0.2	2.6	88.7	0.15	0.20	0.43	29	0.77	0.054	
1097632	Soil	0.46	31.65	28.60	107.7	170	27.9	10.1	310	3.22	7.7	1.4	<0.2	2.4	117.3	0.19	0.28	0.37	22	1.18	0.089	



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 29, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1097336	Soil	16.9	26.5	0.72	85.7	0.003	3	1.62	0.002	0.08	<0.1	4.8	0.12	0.02	45	<0.1	<0.02	3.9	0.77	<0.1	0.06
1097337	Soil	12.1	27.2	0.60	108.1	0.004	2	1.73	0.001	0.08	<0.1	2.9	0.13	<0.02	24	<0.1	0.05	4.7	1.05	<0.1	0.05
1097338	Soil	10.9	24.2	0.47	70.4	0.005	2	1.55	0.002	0.07	<0.1	2.0	0.11	0.02	29	0.2	<0.02	4.5	1.09	<0.1	<0.02
1097339	Soil	12.2	29.9	0.65	123.1	0.006	2	1.75	0.003	0.06	0.1	2.9	0.12	<0.02	28	0.2	0.04	4.9	0.99	<0.1	0.03
1097340	Soil	13.3	31.4	0.74	119.0	0.007	2	1.87	0.003	0.08	<0.1	3.2	0.12	<0.02	18	<0.1	0.04	4.9	1.05	<0.1	0.04
1097341	Soil	21.2	30.3	0.79	110.9	0.003	2	1.80	0.003	0.07	<0.1	5.6	0.10	0.03	49	0.3	0.05	4.2	0.82	<0.1	0.08
1097342	Soil	13.4	27.7	0.68	146.0	0.008	2	1.60	0.005	0.07	<0.1	3.7	0.10	0.03	66	0.4	0.04	4.3	0.94	<0.1	0.04
1097620	Soil	7.5	17.0	0.28	74.1	0.002	2	0.99	0.002	0.06	<0.1	1.6	0.07	0.02	26	0.2	0.05	3.6	1.21	<0.1	0.03
1097621	Soil	7.3	20.1	0.47	108.2	0.002	3	1.28	0.003	0.09	<0.1	5.2	0.13	0.03	92	0.4	0.06	3.4	1.87	<0.1	0.14
1097622	Soil	6.8	18.3	0.45	91.4	0.002	3	1.08	0.003	0.07	<0.1	3.4	0.08	0.05	51	0.4	0.03	3.0	1.08	<0.1	0.08
1097623	Soil	4.2	15.8	0.34	52.2	0.002	5	0.90	0.006	0.06	<0.1	2.9	0.06	0.08	27	0.2	0.05	2.6	1.24	<0.1	0.08
1097624	Soil	8.0	22.2	0.56	102.2	0.003	2	1.26	0.003	0.06	<0.1	3.8	0.07	0.04	35	0.4	<0.02	3.3	0.92	<0.1	0.08
1097625	Soil	9.1	21.2	1.08	94.0	0.002	2	1.15	0.004	0.06	<0.1	3.7	0.07	0.05	42	0.5	0.03	3.2	0.68	<0.1	0.09
1097626	Soil	14.1	26.0	1.19	143.9	0.005	3	1.38	0.004	0.07	<0.1	3.5	0.07	0.03	66	0.4	0.02	4.2	0.85	<0.1	0.07
1097627	Soil	10.8	21.0	1.37	103.3	0.004	3	1.24	0.004	0.07	<0.1	3.6	0.10	0.05	74	0.4	0.05	3.3	1.10	<0.1	0.07
1097628	Soil	9.2	19.2	1.15	78.3	0.004	4	1.01	0.004	0.06	<0.1	3.3	0.06	0.04	70	0.4	0.05	2.9	0.86	<0.1	0.05
1097629	Soil	10.3	11.7	0.13	76.5	<0.001	3	0.80	0.002	0.09	<0.1	4.9	0.07	0.04	31	0.2	0.04	2.0	0.55	<0.1	0.06
1097630	Soil	4.9	19.3	0.39	73.6	0.001	2	1.31	0.002	0.07	<0.1	3.3	0.08	0.03	<5	0.2	0.07	3.4	1.17	<0.1	0.03
1097631	Soil	6.0	21.1	0.34	134.7	0.002	2	1.37	0.004	0.08	<0.1	3.3	0.11	0.03	17	0.2	0.05	4.8	1.37	<0.1	0.06
1097632	Soil	7.0	20.6	0.43	86.1	0.002	2	1.36	0.004	0.07	<0.1	4.6	0.07	0.08	32	0.4	0.05	3.8	1.41	<0.1	0.13



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 29, 2011

Page: 12 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001349.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1097336	Soil	0.35	8.7	0.5	<0.05	2.9	14.25	37.7	0.03	<1	1.2	30.6	<10	<2
1097337	Soil	0.44	11.8	0.8	<0.05	1.8	5.68	27.7	0.04	<1	0.8	28.1	<10	<2
1097338	Soil	0.58	11.3	0.5	<0.05	0.7	4.87	25.1	0.02	<1	0.8	25.1	<10	<2
1097339	Soil	0.73	11.7	1.3	<0.05	1.6	5.30	29.3	0.07	<1	0.8	36.4	<10	<2
1097340	Soil	0.56	11.0	0.9	<0.05	2.4	4.87	33.0	0.03	<1	0.9	30.4	<10	<2
1097341	Soil	0.39	10.2	0.7	<0.05	3.0	16.00	43.2	0.05	<1	1.3	34.5	<10	<2
1097342	Soil	0.56	9.6	0.7	<0.05	1.8	9.75	32.7	0.03	<1	1.0	28.9	<10	<2
1097620	Soil	0.31	9.5	0.9	<0.05	1.1	3.17	16.1	0.03	<1	0.4	23.5	<10	<2
1097621	Soil	0.27	7.2	0.9	<0.05	5.5	11.64	17.8	0.05	<1	1.2	48.6	<10	<2
1097622	Soil	0.24	7.9	0.9	<0.05	2.7	8.53	15.7	0.03	<1	0.8	37.6	<10	<2
1097623	Soil	0.19	5.4	0.7	<0.05	4.3	8.33	11.3	0.04	<1	0.7	33.3	<10	<2
1097624	Soil	0.32	6.5	1.0	<0.05	2.6	7.69	19.3	0.04	<1	0.9	37.6	<10	<2
1097625	Soil	0.29	5.7	1.0	<0.05	3.2	10.37	18.8	0.03	<1	0.9	35.9	<10	<2
1097626	Soil	0.44	9.1	0.8	<0.05	2.3	9.90	29.2	0.03	<1	0.9	33.9	<10	<2
1097627	Soil	0.39	8.2	0.4	<0.05	2.6	11.38	21.9	0.03	<1	0.8	29.9	<10	<2
1097628	Soil	0.24	5.8	0.9	<0.05	2.2	8.98	20.5	0.03	<1	0.7	32.5	<10	<2
1097629	Soil	0.17	8.7	0.6	<0.05	1.6	10.78	28.8	0.05	<1	0.8	3.6	<10	<2
1097630	Soil	0.16	7.9	1.5	<0.05	1.5	5.65	22.3	0.04	<1	0.8	49.0	<10	<2
1097631	Soil	0.36	11.4	0.7	<0.05	2.0	6.03	14.0	0.04	<1	1.0	35.5	<10	<2
1097632	Soil	0.24	7.5	4.5	<0.05	4.0	14.34	18.9	0.03	<1	1.3	48.9	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 29, 2011

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001349.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
1098115	Soil	1.05	19.18	30.67	71.9	291	18.0	12.6	813	4.25	10.5	0.7	<0.2	0.5	9.5	0.24	0.56	0.36	40	0.08	0.104
REP 1098115	QC	1.09	19.44	30.92	74.9	311	18.2	12.9	830	4.27	11.0	0.7	0.4	0.7	9.5	0.25	0.55	0.36	39	0.08	0.109
1098127	Soil	0.55	13.09	36.52	104.8	81	17.5	9.0	1360	3.27	12.0	0.9	2.1	3.0	21.4	0.23	0.88	0.22	27	5.00	0.065
REP 1098127	QC	0.50	12.59	34.59	101.8	74	17.1	8.7	1312	3.16	11.3	0.8	<0.2	2.9	20.7	0.24	0.85	0.21	27	4.83	0.063
1096631	Soil	0.50	23.55	28.32	81.9	116	21.7	10.3	776	3.02	13.8	1.4	2.8	3.5	21.4	0.20	1.12	0.25	25	4.31	0.083
REP 1096631	QC	0.47	23.00	26.97	79.0	108	21.8	10.0	762	2.92	13.5	1.4	3.6	3.5	21.0	0.19	1.13	0.25	25	4.15	0.083
1096646	Soil	0.55	25.25	22.68	67.9	79	27.9	12.0	387	3.25	6.9	3.0	1.2	3.7	31.8	0.06	0.33	0.31	26	0.61	0.034
REP 1096646	QC	0.53	24.94	23.02	67.2	83	27.5	11.7	397	3.21	6.9	3.1	1.0	3.8	31.8	0.07	0.35	0.31	26	0.61	0.034
617809	Soil	0.42	22.74	19.81	94.9	124	29.1	7.9	172	2.48	4.8	3.7	0.6	2.1	68.4	0.18	0.27	0.26	15	1.58	0.063
REP 617809	QC	0.42	22.49	19.40	97.6	142	29.5	8.0	165	2.45	4.8	3.6	0.3	2.1	68.7	0.17	0.26	0.27	14	1.56	0.064
617826	Soil	0.54	19.21	22.27	74.6	39	25.1	10.6	565	4.05	9.5	1.1	0.9	4.8	8.0	0.12	0.38	0.29	26	0.28	0.026
REP 617826	QC	0.54	19.55	22.58	75.0	36	25.8	11.1	566	4.07	9.7	1.1	0.3	4.8	8.5	0.13	0.39	0.31	27	0.26	0.026
1097616	Soil	0.84	14.73	15.70	64.0	133	19.4	9.7	1185	2.63	8.9	0.8	1.3	1.4	16.7	0.20	0.69	0.18	28	3.58	0.079
REP 1097616	QC	0.78	14.26	15.13	61.9	142	21.1	9.9	1149	2.56	9.1	0.8	1.8	1.3	17.2	0.16	0.68	0.24	27	3.54	0.080
617968	Soil	0.44	27.12	25.54	113.6	90	34.5	13.3	409	4.03	4.5	0.6	0.5	4.4	26.3	0.07	0.18	0.34	15	0.19	0.034
REP 617968	QC	0.36	26.55	24.82	111.8	77	33.2	13.3	399	3.91	4.1	0.6	0.8	4.5	25.8	0.08	0.17	0.32	15	0.18	0.033
1098223	Soil	0.45	39.72	31.04	102.2	105	32.9	15.1	331	3.39	12.7	1.2	1.0	3.6	83.9	0.10	0.39	0.40	18	0.65	0.053
REP 1098223	QC	0.49	41.64	32.50	107.4	115	34.9	15.9	344	3.54	13.3	1.2	1.3	3.8	87.9	0.11	0.44	0.42	19	0.67	0.055
1098233	Soil	0.44	20.14	21.27	82.5	12	21.0	11.0	247	3.27	7.9	0.6	0.3	3.7	9.6	0.15	0.33	0.34	26	0.36	0.019
REP 1098233	QC	0.45	20.73	21.77	80.9	12	21.1	11.0	249	3.30	8.1	0.6	<0.2	3.8	9.5	0.13	0.36	0.36	26	0.37	0.018
1098999	Soil	0.58	17.72	24.24	65.0	57	16.2	6.3	139	3.38	5.9	0.5	0.3	2.4	6.7	0.09	0.35	0.33	20	0.07	0.026
REP 1098999	QC	0.62	18.24	25.35	67.5	52	16.9	6.6	142	3.49	6.2	0.5	0.3	2.5	7.0	0.09	0.38	0.35	21	0.07	0.028
617976	Soil	0.44	24.20	26.14	75.6	117	25.4	14.1	582	4.12	6.3	0.5	0.3	3.5	7.1	0.09	0.33	0.34	28	0.06	0.036
REP 617976	QC	0.48	26.33	29.13	80.4	120	27.5	15.0	630	4.38	6.7	0.6	0.6	3.8	8.0	0.12	0.36	0.36	29	0.08	0.039
617831	Soil	0.44	28.49	32.73	83.4	52	26.1	18.9	674	4.02	5.1	0.6	0.4	5.1	8.1	0.06	0.33	0.44	28	0.03	0.033
REP 617831	QC	0.42	30.41	33.63	90.2	64	27.7	20.4	722	4.32	5.4	0.7	0.6	5.3	8.0	0.08	0.33	0.46	30	0.02	0.035
1096501	Soil	0.52	21.34	32.72	172.8	103	23.4	10.8	1665	4.02	10.1	1.5	1.1	5.2	21.9	0.69	0.92	0.28	25	2.49	0.094
REP 1096501	QC	0.53	21.38	32.97	166.5	104	22.7	10.6	1662	4.02	10.0	1.5	1.0	5.2	22.8	0.72	0.96	0.27	25	2.52	0.094

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 29, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001349.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
1098115	Soil	6.8	27.3	0.32	128.5	0.008	2	1.35	0.001	0.11	<0.1	1.1	0.10	0.04	58	0.3	0.05	5.8	2.46	<0.1	<0.02
REP 1098115	QC	6.8	28.6	0.33	130.9	0.007	2	1.35	0.001	0.10	<0.1	1.2	0.11	0.04	46	0.4	0.04	6.0	2.37	<0.1	<0.02
1098127	Soil	11.2	21.0	3.36	76.4	0.006	3	1.40	0.006	0.07	<0.1	3.7	0.13	<0.02	130	0.3	0.02	3.4	0.66	<0.1	0.06
REP 1098127	QC	10.8	19.3	3.24	74.1	0.005	2	1.36	0.006	0.07	<0.1	3.5	0.12	<0.02	123	0.2	0.03	3.4	0.66	<0.1	0.05
1096631	Soil	13.1	23.1	2.62	101.2	0.005	3	1.41	0.005	0.08	<0.1	3.7	0.10	0.03	186	0.4	0.06	3.6	0.67	<0.1	0.06
REP 1096631	QC	13.1	23.4	2.54	102.1	0.005	4	1.38	0.006	0.09	<0.1	3.7	0.11	0.03	192	0.4	0.05	3.7	0.81	<0.1	0.05
1096646	Soil	10.8	31.5	0.66	122.3	0.004	2	1.66	0.003	0.11	<0.1	4.0	0.11	0.02	50	0.3	0.02	5.4	1.46	<0.1	0.06
REP 1096646	QC	11.1	33.2	0.66	126.4	0.005	2	1.66	0.003	0.11	<0.1	3.9	0.10	0.02	49	0.4	0.05	5.5	1.32	<0.1	0.07
617809	Soil	5.8	17.4	0.48	134.4	0.002	4	1.20	0.007	0.10	<0.1	3.2	0.08	0.12	55	0.7	0.03	3.0	0.77	<0.1	0.09
REP 617809	QC	6.2	17.5	0.47	135.8	0.004	6	1.20	0.007	0.11	<0.1	3.3	0.09	0.12	43	0.7	<0.02	3.2	1.18	<0.1	0.09
617826	Soil	10.6	27.8	0.66	86.7	0.002	2	1.95	0.002	0.11	<0.1	3.3	0.13	<0.02	30	0.2	0.05	4.6	0.98	<0.1	0.06
REP 617826	QC	11.1	29.3	0.65	91.3	0.002	2	1.98	0.002	0.12	<0.1	3.5	0.13	<0.02	20	0.1	0.03	4.9	1.12	<0.1	0.04
1097616	Soil	9.6	20.1	2.38	100.4	0.010	<1	1.20	0.007	0.05	0.1	2.1	0.08	0.07	58	0.4	0.05	3.0	0.55	<0.1	0.03
REP 1097616	QC	9.7	19.8	2.34	99.8	0.011	2	1.17	0.007	0.05	<0.1	2.0	0.06	0.07	49	0.4	0.03	3.0	0.57	<0.1	0.05
617968	Soil	6.4	19.5	0.32	74.7	0.002	3	1.41	0.003	0.08	<0.1	4.7	0.14	0.02	30	0.3	0.02	3.5	2.28	<0.1	0.03
REP 617968	QC	6.3	18.3	0.33	71.7	0.002	4	1.36	0.003	0.07	<0.1	4.9	0.12	0.02	54	0.4	<0.02	3.7	2.21	<0.1	0.04
1098223	Soil	6.4	23.2	0.59	65.1	0.002	3	1.37	0.004	0.08	<0.1	5.4	0.07	0.03	27	0.4	0.05	4.2	2.58	<0.1	0.08
REP 1098223	QC	6.9	24.3	0.61	69.1	0.003	3	1.43	0.004	0.09	<0.1	5.7	0.08	0.03	27	0.3	0.05	4.6	2.70	<0.1	0.09
1098233	Soil	8.7	20.9	0.43	81.9	0.002	1	1.33	0.001	0.08	<0.1	2.6	0.08	<0.02	40	0.1	0.03	4.8	0.74	<0.1	0.03
REP 1098233	QC	8.4	20.7	0.43	81.6	0.003	1	1.30	0.001	0.08	<0.1	2.7	0.09	<0.02	15	0.2	0.03	4.7	0.73	<0.1	0.04
1098999	Soil	6.8	14.3	0.13	44.8	0.004	2	0.79	0.002	0.08	<0.1	1.3	0.13	<0.02	10	0.1	<0.02	3.4	0.54	<0.1	<0.02
REP 1098999	QC	7.3	13.9	0.14	47.3	0.003	2	0.81	0.002	0.08	<0.1	1.4	0.12	<0.02	22	0.1	0.04	3.5	0.56	<0.1	<0.02
617976	Soil	6.2	28.0	0.36	90.9	0.003	<1	1.76	0.002	0.11	<0.1	3.0	0.09	<0.02	28	<0.1	0.03	6.0	1.18	<0.1	0.03
REP 617976	QC	7.2	31.6	0.39	98.3	0.003	<1	1.89	0.003	0.12	<0.1	3.2	0.10	<0.02	29	<0.1	0.04	6.4	1.27	<0.1	0.02
617831	Soil	7.0	30.0	0.41	99.8	0.003	2	1.83	<0.001	0.12	<0.1	3.1	0.15	0.02	15	<0.1	<0.02	6.2	3.53	<0.1	0.04
REP 617831	QC	7.0	31.7	0.43	102.4	0.003	2	1.97	<0.001	0.12	<0.1	3.2	0.14	0.02	20	0.1	0.03	6.6	3.52	<0.1	0.06
1096501	Soil	17.0	19.9	1.44	114.2	0.004	2	1.37	0.005	0.06	<0.1	5.5	0.09	0.04	141	0.3	0.06	3.5	0.70	<0.1	0.04
REP 1096501	QC	16.8	19.9	1.45	109.7	0.004	2	1.35	0.005	0.06	<0.1	5.6	0.09	0.04	137	0.1	0.06	3.4	0.69	<0.1	0.06

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 29, 2011

Page: 1 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001349.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
1098115	Soil	0.31	18.3	6.6	<0.05	0.2	2.73	18.4	0.04	<1	0.7	24.9	<10	<2
REP 1098115	QC	0.31	17.6	6.7	<0.05	0.2	2.84	18.4	0.04	<1	0.7	25.6	<10	<2
1098127	Soil	0.31	7.3	2.6	<0.05	1.5	11.12	22.5	0.03	<1	0.9	12.7	<10	<2
REP 1098127	QC	0.29	7.1	1.7	<0.05	1.5	10.68	22.3	0.03	<1	0.8	12.6	<10	<2
1096631	Soil	0.37	7.1	2.4	<0.05	2.1	13.42	28.4	0.04	<1	0.8	20.7	<10	<2
REP 1096631	QC	0.41	8.0	2.3	<0.05	2.0	13.10	28.9	0.03	<1	0.9	22.2	<10	<2
1096646	Soil	0.43	12.6	3.2	<0.05	1.9	9.96	23.5	0.03	<1	1.0	35.5	<10	<2
REP 1096646	QC	0.44	12.7	3.8	<0.05	2.0	9.98	22.9	0.03	<1	1.0	35.3	<10	<2
617809	Soil	0.37	7.2	0.7	<0.05	3.3	10.33	13.2	0.02	<1	0.9	29.5	<10	<2
REP 617809	QC	0.32	9.0	0.8	<0.05	3.0	10.56	14.2	<0.02	<1	0.9	29.1	<10	<2
617826	Soil	0.30	13.8	1.1	<0.05	2.6	6.09	25.2	0.03	<1	1.1	31.9	<10	<2
REP 617826	QC	0.31	15.0	1.1	<0.05	2.5	6.02	27.0	0.03	<1	1.1	33.5	<10	<2
1097616	Soil	0.45	6.4	0.7	<0.05	1.3	8.86	21.0	<0.02	<1	0.5	10.3	<10	<2
REP 1097616	QC	0.50	6.6	0.6	<0.05	1.2	8.75	20.9	0.02	<1	0.4	9.9	<10	<2
617968	Soil	0.21	10.3	1.5	<0.05	1.2	12.32	25.3	0.05	<1	2.0	35.7	<10	<2
REP 617968	QC	0.21	9.9	1.2	<0.05	1.4	12.10	24.5	0.02	<1	0.6	37.5	<10	<2
1098223	Soil	0.19	7.2	0.8	<0.05	3.7	12.44	15.2	0.04	<1	1.0	56.7	<10	<2
REP 1098223	QC	0.21	7.8	0.9	<0.05	4.1	13.10	16.5	0.04	<1	1.1	60.2	<10	<2
1098233	Soil	0.38	10.4	0.7	<0.05	2.2	2.98	17.8	0.03	<1	0.5	32.7	<10	<2
REP 1098233	QC	0.35	9.9	0.7	<0.05	2.1	2.98	17.2	0.04	<1	0.6	31.9	<10	<2
1098999	Soil	0.31	9.5	0.6	<0.05	0.5	2.03	14.0	<0.02	<1	0.5	10.8	<10	<2
REP 1098999	QC	0.34	9.6	0.7	<0.05	0.5	2.12	14.7	0.03	<1	0.5	11.0	<10	<2
617976	Soil	0.47	11.2	1.3	<0.05	1.3	4.15	15.3	0.03	<1	0.9	30.3	<10	<2
REP 617976	QC	0.51	12.3	2.4	<0.05	1.4	4.35	17.2	0.03	<1	1.2	33.0	<10	<2
617831	Soil	0.25	18.4	2.5	<0.05	2.3	4.00	15.1	0.04	<1	1.5	49.2	<10	<2
REP 617831	QC	0.29	17.7	2.5	<0.05	2.5	4.10	15.3	0.03	<1	1.6	51.8	<10	<2
1096501	Soil	0.34	6.6	0.7	<0.05	1.9	16.95	34.1	0.04	<1	0.9	24.5	<10	<2
REP 1096501	QC	0.34	6.6	0.7	<0.05	2.0	17.07	33.3	0.04	1	0.8	23.9	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: October 29, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001349.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1098131	Soil	0.53	23.71	23.23	80.9	70	28.9	12.4	647	3.55	9.6	1.3	2.0	5.6	14.8	0.09	0.47	0.33	31	0.31	0.025
REP 1098131	QC	0.57	24.01	24.69	81.3	71	29.4	12.2	666	3.71	10.1	1.4	1.2	5.9	15.0	0.10	0.54	0.33	32	0.32	0.027
1098133	Soil	0.59	19.04	22.93	94.9	77	24.1	10.3	1079	3.37	9.5	1.1	2.0	3.6	29.2	0.19	0.44	0.33	29	0.54	0.052
REP 1098133	QC	0.62	19.43	23.19	96.1	83	24.8	10.8	1084	3.40	9.8	1.1	1.0	3.8	30.2	0.19	0.41	0.34	31	0.54	0.052
1097334	Soil	0.81	22.23	21.48	77.8	116	27.8	11.7	892	3.59	10.6	2.3	1.2	3.0	22.2	0.17	0.70	0.29	30	1.05	0.054
REP 1097334	QC	0.74	22.66	21.71	76.2	121	27.6	12.3	892	3.70	10.6	2.3	1.4	2.9	21.1	0.19	0.70	0.30	30	1.03	0.051
1097339	Soil	0.80	15.11	20.59	74.0	65	21.4	8.1	515	3.51	9.6	1.1	1.7	4.1	14.9	0.22	0.57	0.36	41	0.49	0.040
REP 1097339	QC	0.77	15.01	20.61	79.6	59	21.4	8.4	530	3.55	9.4	1.1	1.0	4.1	16.3	0.23	0.55	0.33	42	0.55	0.040
Reference Materials																					
STD DS8	Standard	12.87	109.5	123.3	310.3	1844	37.6	7.6	615	2.51	24.0	2.7	112.8	6.5	63.7	2.36	5.56	6.44	41	0.74	0.080
STD DS8	Standard	12.94	105.9	122.7	323.9	1817	37.8	7.7	623	2.53	24.0	2.8	114.6	6.8	63.3	2.27	5.29	6.13	42	0.73	0.079
STD DS8	Standard	12.71	108.8	127.5	310.4	1734	35.2	6.9	595	2.45	24.9	2.9	119.3	7.1	70.4	2.28	5.13	7.20	40	0.72	0.079
STD DS8	Standard	11.85	108.5	117.1	329.7	1666	36.8	7.4	572	2.31	23.0	2.4	106.7	5.8	55.7	2.23	5.17	5.64	38	0.64	0.072
STD DS8	Standard	12.24	100.6	121.9	301.1	1679	35.5	6.9	600	2.35	24.2	2.5	110.6	5.9	69.9	2.29	5.64	6.76	37	0.67	0.079
STD DS8	Standard	12.50	105.3	123.4	298.0	1683	37.0	7.5	568	2.37	22.8	2.6	116.7	6.2	59.9	2.09	5.06	6.29	39	0.66	0.074
STD DS8	Standard	12.78	105.6	119.4	288.6	1725	37.2	7.1	593	2.35	23.5	2.6	97.4	6.4	63.4	2.23	4.85	6.28	37	0.67	0.076
STD DS8	Standard	13.31	107.5	123.9	313.0	1783	38.3	7.7	619	2.45	23.6	2.8	110.9	6.9	62.2	2.16	5.02	6.28	41	0.75	0.076
STD DS8	Standard	12.55	112.1	131.0	308.3	1715	36.9	7.6	603	2.47	25.3	3.1	121.3	7.1	67.4	2.37	5.83	7.42	44	0.70	0.085
STD DS8	Standard	12.94	122.3	118.3	334.3	1750	36.9	7.4	598	2.55	23.4	2.9	115.5	7.5	72.6	2.21	6.04	6.57	43	0.73	0.088
STD DS8	Standard	13.67	107.7	118.8	295.1	1776	36.7	7.5	632	2.48	24.7	2.7	103.0	7.0	68.6	2.32	5.42	6.45	42	0.74	0.079
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 29, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001349.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
1098131	Soil	20.0	31.8	0.84	93.5	0.004	2	1.97	0.003	0.12	<0.1	5.1	0.14	<0.02	48	0.2	0.03	5.6	1.16	<0.1	0.08
REP 1098131	QC	21.0	33.7	0.88	100.1	0.004	3	2.06	0.004	0.13	<0.1	5.2	0.15	<0.02	54	0.1	0.03	5.8	1.25	<0.1	0.09
1098133	Soil	11.5	26.6	0.56	144.9	0.004	1	1.62	0.003	0.09	0.1	3.4	0.11	<0.02	40	0.2	<0.02	4.8	1.45	<0.1	0.06
REP 1098133	QC	12.2	27.9	0.57	151.6	0.004	2	1.69	0.003	0.10	<0.1	3.4	0.10	<0.02	52	0.2	0.02	4.9	1.52	<0.1	0.04
1097334	Soil	13.9	27.5	0.75	161.0	0.011	2	1.49	0.004	0.07	0.1	3.8	0.11	0.04	84	0.2	<0.02	4.1	0.87	<0.1	0.06
REP 1097334	QC	13.3	26.5	0.74	156.2	0.010	2	1.41	0.004	0.07	0.1	4.0	0.10	0.03	66	0.2	<0.02	3.9	0.82	<0.1	0.04
1097339	Soil	12.2	29.9	0.65	123.1	0.006	2	1.75	0.003	0.06	0.1	2.9	0.12	<0.02	28	0.2	0.04	4.9	0.99	<0.1	0.03
REP 1097339	QC	12.4	30.5	0.68	126.8	0.006	1	1.85	0.003	0.07	<0.1	2.8	0.12	<0.02	18	0.3	0.04	5.0	1.05	<0.1	0.03
Reference Materials																					
STD DS8	Standard	14.7	124.8	0.63	255.3	0.105	2	0.98	0.103	0.43	2.7	2.2	5.42	0.16	205	5.1	5.01	4.7	2.45	<0.1	0.08
STD DS8	Standard	14.8	126.3	0.62	265.3	0.110	2	0.93	0.092	0.43	3.1	2.3	5.61	0.17	209	5.4	4.87	4.9	2.53	0.2	0.08
STD DS8	Standard	16.0	115.2	0.60	273.1	0.109	2	0.91	0.089	0.41	2.7	2.3	5.38	0.16	203	4.9	5.01	4.7	2.46	0.1	0.07
STD DS8	Standard	12.5	112.2	0.56	239.3	0.106	2	0.82	0.076	0.37	2.7	1.6	5.11	0.16	162	4.9	4.78	4.4	2.31	0.1	0.05
STD DS8	Standard	15.6	113.3	0.59	278.3	0.111	3	0.88	0.082	0.38	2.7	2.1	5.24	0.15	198	5.1	4.59	4.7	2.38	<0.1	0.06
STD DS8	Standard	13.5	117.6	0.59	244.1	0.104	2	0.87	0.079	0.40	2.8	1.9	5.16	0.16	187	4.6	4.81	4.3	2.25	0.1	0.06
STD DS8	Standard	14.6	115.3	0.59	260.2	0.106	2	0.86	0.078	0.38	2.6	2.0	5.12	0.15	198	5.0	4.59	4.1	2.31	<0.1	0.08
STD DS8	Standard	16.7	122.9	0.62	267.5	0.116	3	0.94	0.094	0.42	3.2	2.3	5.57	0.16	197	5.4	5.00	4.9	2.58	0.1	0.11
STD DS8	Standard	16.0	122.2	0.61	277.8	0.113	3	0.91	0.085	0.40	2.8	2.3	5.48	0.15	199	5.1	5.09	4.5	2.47	<0.1	0.07
STD DS8	Standard	16.4	119.5	0.62	268.8	0.126	3	0.95	0.098	0.44	3.1	2.5	5.63	0.17	178	5.0	5.04	4.6	2.49	<0.1	0.08
STD DS8	Standard	17.2	115.3	0.61	281.7	0.116	3	1.04	0.128	0.45	2.9	2.5	5.33	0.16	173	4.8	4.85	4.9	2.39	<0.1	0.07
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 29, 2011

Page: 2 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001349.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
1098131	Soil	0.38	13.2	0.7	<0.05	3.0	13.97	37.2	0.04	<1	1.2	37.8	<10	<2
REP 1098131	QC	0.41	13.9	0.8	<0.05	3.0	14.74	39.4	0.03	<1	1.3	39.2	<10	<2
1098133	Soil	0.48	12.0	1.1	<0.05	1.5	8.93	24.6	0.05	<1	0.9	33.7	<10	<2
REP 1098133	QC	0.44	12.9	0.9	<0.05	1.4	8.99	25.7	0.03	<1	1.0	36.0	<10	<2
1097334	Soil	0.59	8.7	1.1	<0.05	1.5	12.54	27.4	0.03	<1	0.9	21.4	<10	<2
REP 1097334	QC	0.64	8.3	1.0	<0.05	1.8	12.29	26.2	0.04	<1	1.0	21.2	<10	<2
1097339	Soil	0.73	11.7	1.3	<0.05	1.6	5.30	29.3	0.07	<1	0.8	36.4	<10	<2
REP 1097339	QC	0.76	12.4	1.3	<0.05	1.4	5.56	30.7	0.04	<1	0.8	37.4	<10	<2
Reference Materials														
STD DS8	Standard	1.34	38.4	6.5	<0.05	1.6	5.77	26.8	2.28	56	4.5	26.8	114	349
STD DS8	Standard	1.34	40.0	6.2	<0.05	1.8	6.22	28.3	2.20	57	5.1	28.0	120	355
STD DS8	Standard	1.37	38.2	7.1	<0.05	1.6	6.14	27.8	2.30	45	4.9	27.3	117	343
STD DS8	Standard	1.08	36.4	5.9	<0.05	1.8	5.20	23.7	1.99	72	4.8	22.5	116	316
STD DS8	Standard	1.25	37.3	6.4	<0.05	1.8	6.25	27.5	2.10	49	4.8	27.6	109	324
STD DS8	Standard	1.09	33.9	5.9	<0.05	1.6	5.15	23.5	1.98	48	4.8	25.3	114	332
STD DS8	Standard	1.20	34.5	6.2	<0.05	1.6	5.60	25.0	2.01	46	5.0	25.1	118	344
STD DS8	Standard	1.43	38.8	6.4	<0.05	2.1	6.60	30.1	2.24	55	5.2	26.7	124	356
STD DS8	Standard	1.35	37.7	7.2	<0.05	1.6	5.91	28.3	2.34	51	5.6	29.4	111	333
STD DS8	Standard	1.18	37.4	7.3	<0.05	1.8	6.09	27.3	2.50	58	5.4	30.9	111	357
STD DS8	Standard	1.32	37.1	6.8	<0.05	2.1	6.32	30.6	2.19	58	4.6	28.1	116	314
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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www.acmelab.com

Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: October 29, 2011

Page: 3 of 3 **Part** 1

QUALITY CONTROL REPORT

WHI11001349.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001349.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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Page: 3 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001349.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10



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Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 29, 2011
Report Date: October 08, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001350.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-24
P.O. Number
Number of Samples: 321

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: David Clark
database backup
Simon Ridgway
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, 1F05, and RJSV.

ADDITIONAL COMMENTS



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www.acmelab.com

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 830 - 355 Burrard St.
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Project: Scarlet
 Report Date: October 08, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1097633	Soil			0.47	26.15	29.07	96.0	80	22.6	11.5	812	2.85	6.3	1.1	3.8	4.0	81.7	0.51	0.69	0.62	16	0.87	0.061
617757	Soil			0.58	26.71	30.51	73.0	57	27.8	11.8	478	3.77	9.6	0.9	3.4	5.3	12.0	0.11	0.56	0.45	19	0.17	0.032
617758	Soil			0.74	21.05	23.83	70.4	40	23.8	11.2	386	3.53	8.6	0.7	2.6	4.6	14.0	0.14	0.44	0.40	25	0.13	0.020
617759	Soil			0.66	32.06	31.55	132.6	114	32.9	15.5	537	3.39	10.7	1.1	1.9	3.9	76.7	0.27	0.52	0.45	14	1.40	0.077
617760	Soil			0.62	30.38	25.55	85.8	101	29.1	12.7	624	3.13	8.7	1.2	2.2	5.2	40.3	0.21	0.54	0.40	20	1.50	0.057
617761	Soil			0.58	19.94	29.59	103.1	134	24.5	9.6	507	3.37	10.1	1.7	2.0	5.4	48.4	0.25	0.62	0.41	22	1.35	0.048
617762	Soil			0.64	19.72	26.28	89.8	74	26.6	12.4	712	3.35	8.7	1.2	2.2	5.8	22.3	0.26	0.54	0.46	25	1.10	0.042
617763	Soil			0.60	22.28	21.46	80.1	63	27.6	11.8	539	3.38	9.0	1.0	2.0	6.1	16.2	0.10	0.51	0.35	29	0.33	0.029
617764	Soil			0.69	15.98	18.68	105.5	77	19.6	9.9	807	3.02	8.1	1.1	1.0	2.5	22.3	0.35	0.53	0.33	36	0.75	0.058
617765	Soil			0.41	19.83	22.07	72.1	88	24.1	10.2	546	3.61	9.0	1.2	1.3	5.0	16.6	0.09	0.43	0.36	23	0.71	0.040
617766	Soil			0.70	27.71	19.88	101.7	192	27.3	10.8	676	2.95	8.1	1.5	2.2	2.1	39.1	0.27	0.60	0.33	28	1.38	0.136
617767	Soil			0.80	10.19	18.29	102.7	60	16.2	8.3	444	3.55	7.8	1.0	0.5	3.3	15.5	0.24	0.48	0.32	46	0.21	0.047
617768	Soil			0.69	16.34	21.83	78.4	31	24.0	8.7	277	4.21	8.4	0.8	0.6	4.3	6.8	0.07	0.36	0.33	34	0.06	0.032
617769	Soil			0.47	21.37	27.38	123.8	102	24.6	10.1	381	2.91	9.2	1.1	1.2	3.1	58.3	0.09	0.46	0.30	13	3.03	0.077
617770	Soil			1.06	26.43	36.70	128.3	147	29.9	11.3	409	3.06	9.4	1.2	1.3	3.7	85.6	0.21	0.45	0.32	12	2.77	0.081
617771	Soil			0.41	15.51	26.06	73.7	98	17.7	9.1	1930	3.22	10.1	1.2	0.9	1.6	33.0	0.17	0.90	0.24	18	8.23	0.138
617772	Soil			0.57	14.68	28.61	130.8	92	27.3	11.0	1315	4.72	13.0	2.1	0.8	6.0	13.1	0.23	0.76	0.38	39	0.73	0.056
617773	Soil			0.62	18.48	26.88	98.0	143	26.8	10.9	1246	4.25	11.2	1.7	1.2	6.0	14.8	0.19	0.60	0.41	33	0.72	0.057
617774	Soil			0.68	14.55	21.12	186.5	154	23.4	10.7	976	4.06	9.0	2.0	1.6	3.6	24.5	0.26	0.46	0.32	38	0.59	0.063
617775	Soil			0.46	15.21	22.21	64.3	127	23.5	10.6	1602	3.97	9.1	1.8	0.9	5.7	22.5	0.15	0.50	0.29	26	3.34	0.066
617776	Soil			0.62	18.84	22.33	109.6	106	21.7	9.0	657	3.27	7.8	1.6	0.9	3.2	26.2	0.30	0.47	0.28	30	0.88	0.055
617777	Soil			0.23	14.06	23.67	48.3	125	15.2	7.3	1373	2.40	6.3	1.3	0.8	1.0	42.8	0.11	0.49	0.18	12	10.10	0.108
617778	Soil			0.76	10.63	17.49	46.7	27	15.2	6.8	226	3.21	6.6	0.8	0.7	4.0	16.3	<0.01	0.32	0.28	44	0.31	0.020
617779	Soil			0.63	16.96	31.95	113.6	11	19.5	13.3	806	4.80	11.4	0.7	0.5	4.1	9.4	0.06	0.42	0.34	25	0.09	0.045
1098451	Soil			0.63	12.87	19.43	52.2	43	17.6	9.0	689	3.10	7.3	1.4	1.2	3.1	18.6	0.09	0.35	0.29	28	0.76	0.036
1098452	Soil			0.61	50.78	133.4	95.3	116	44.3	59.7	5163	4.90	5.3	1.0	2.5	4.1	16.2	<0.01	0.20	0.48	26	0.12	0.036
1098453	Soil			0.59	37.61	47.96	79.4	55	35.5	33.2	1949	4.25	2.8	0.8	1.8	4.9	13.5	<0.01	0.17	0.38	29	0.09	0.034
1098454	Soil			0.54	40.57	52.91	80.1	65	33.0	36.7	2101	4.36	3.3	0.9	1.6	4.9	11.6	<0.01	0.23	0.39	29	0.09	0.048
1098455	Soil			0.51	37.02	37.72	79.9	44	35.2	30.0	1424	4.24	2.6	0.8	1.3	4.9	11.6	<0.01	0.17	0.37	31	0.07	0.030
1098456	Soil			0.47	28.74	28.21	39.0	100	25.8	17.0	786	3.16	30.2	0.7	1.6	4.4	17.3	<0.01	3.75	0.38	13	3.42	0.049



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Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1097633	Soil	5.6	18.7	0.35	93.6	0.002	4	1.25	0.003	0.07	<0.1	3.4	0.08	0.02	24	0.3	0.03	3.5	1.12	<0.1	0.08
617757	Soil	11.0	26.1	0.67	55.5	0.001	3	1.73	0.001	0.12	<0.1	3.3	0.10	0.03	38	0.2	0.04	3.9	0.77	<0.1	0.08
617758	Soil	10.1	27.7	0.65	68.3	0.002	3	1.85	<0.001	0.09	<0.1	2.5	0.13	<0.02	13	0.2	0.02	4.6	0.88	<0.1	0.05
617759	Soil	6.6	18.7	0.55	77.1	0.003	5	1.12	0.004	0.09	<0.1	4.3	0.10	0.05	45	0.3	<0.02	3.0	1.49	<0.1	0.09
617760	Soil	15.0	27.1	1.21	105.6	0.004	4	1.45	0.003	0.10	<0.1	4.1	0.09	0.03	66	0.3	<0.02	3.9	0.80	<0.1	0.06
617761	Soil	14.8	25.2	0.86	87.9	0.004	5	1.42	0.003	0.08	<0.1	4.7	0.10	0.03	74	0.3	0.03	3.5	0.75	<0.1	0.07
617762	Soil	16.3	27.8	1.05	129.1	0.004	2	1.62	0.003	0.07	<0.1	4.5	0.09	0.02	65	0.3	<0.02	4.0	0.71	<0.1	0.07
617763	Soil	16.7	30.4	0.78	142.8	0.005	3	1.80	0.002	0.08	<0.1	4.3	0.11	<0.02	42	0.3	<0.02	4.5	1.07	<0.1	0.07
617764	Soil	10.4	26.8	0.55	141.9	0.009	2	1.54	0.003	0.07	0.1	2.8	0.09	0.03	36	0.3	<0.02	4.3	0.88	<0.1	0.04
617765	Soil	12.6	25.2	0.71	112.4	0.002	2	1.72	0.001	0.06	<0.1	3.7	0.09	0.02	50	0.2	<0.02	4.4	0.70	<0.1	0.08
617766	Soil	14.6	29.0	0.77	125.3	0.011	4	1.44	0.006	0.08	0.1	4.2	0.09	0.05	134	0.5	<0.02	3.8	0.94	<0.1	0.03
617767	Soil	10.6	25.8	0.35	154.5	0.007	2	1.86	0.001	0.06	0.1	2.3	0.12	<0.02	29	0.2	0.02	4.9	1.25	<0.1	<0.02
617768	Soil	7.6	31.8	0.67	79.1	0.002	3	2.29	<0.001	0.08	<0.1	2.4	0.13	<0.02	18	0.2	0.03	5.7	1.42	<0.1	0.07
617769	Soil	6.2	15.1	1.72	51.3	0.002	3	0.87	0.005	0.07	<0.1	3.4	0.07	0.03	41	0.3	0.03	2.5	1.17	<0.1	0.08
617770	Soil	6.6	19.2	1.25	52.0	0.001	3	0.83	0.004	0.08	<0.1	4.3	0.07	0.05	47	0.4	0.05	2.4	1.09	<0.1	0.08
617771	Soil	11.3	18.1	4.58	98.5	0.003	5	1.41	0.006	0.08	<0.1	2.3	0.08	0.04	51	0.4	0.03	3.1	0.69	<0.1	0.06
617772	Soil	18.1	34.4	0.81	131.1	0.004	3	2.43	0.001	0.10	<0.1	5.1	0.14	0.03	60	0.3	0.04	5.8	1.23	<0.1	0.09
617773	Soil	17.5	32.0	0.84	139.4	0.004	3	2.02	0.003	0.09	<0.1	5.0	0.10	0.02	62	0.3	<0.02	5.1	1.04	<0.1	0.07
617774	Soil	15.4	31.6	0.62	167.5	0.007	2	2.06	0.002	0.07	<0.1	3.6	0.14	0.02	74	0.2	0.04	5.0	1.25	<0.1	0.03
617775	Soil	18.3	28.8	2.19	132.0	0.003	3	1.86	0.003	0.08	<0.1	4.7	0.11	0.03	56	0.3	<0.02	4.2	1.10	<0.1	0.07
617776	Soil	14.5	26.8	0.61	99.3	0.004	3	1.57	0.003	0.10	<0.1	3.2	0.10	0.03	58	0.4	0.03	4.4	1.08	<0.1	0.03
617777	Soil	8.7	13.7	5.14	83.0	0.004	5	0.90	0.009	0.06	<0.1	1.8	0.06	0.02	71	0.5	<0.02	1.9	0.71	<0.1	0.03
617778	Soil	11.3	24.6	0.41	76.2	0.004	1	1.85	<0.001	0.06	<0.1	2.0	0.14	<0.02	14	0.2	<0.02	6.2	1.02	<0.1	0.02
617779	Soil	6.9	21.6	0.41	97.1	0.002	<1	1.51	<0.001	0.07	<0.1	2.0	0.10	<0.02	23	0.2	0.03	4.4	0.82	<0.1	0.03
1098451	Soil	9.8	20.7	0.51	139.4	0.005	1	1.25	0.003	0.06	<0.1	2.8	0.08	<0.02	23	0.2	<0.02	3.8	0.85	<0.1	0.02
1098452	Soil	5.6	37.6	0.77	158.5	0.004	<1	2.42	0.007	0.13	<0.1	6.9	0.25	<0.02	59	<0.1	<0.02	8.9	3.94	<0.1	0.04
1098453	Soil	4.6	39.5	0.71	283.1	0.006	1	2.19	0.008	0.16	<0.1	6.0	0.16	<0.02	26	<0.1	<0.02	7.7	3.35	<0.1	0.03
1098454	Soil	4.5	37.8	0.67	209.5	0.004	<1	2.12	0.006	0.14	<0.1	5.8	0.14	0.02	35	0.1	<0.02	7.3	3.14	<0.1	0.04
1098455	Soil	4.3	37.2	0.74	215.4	0.006	1	2.23	0.008	0.16	<0.1	5.8	0.14	<0.02	17	<0.1	<0.02	7.9	3.06	<0.1	0.02
1098456	Soil	5.3	15.4	1.89	110.0	0.002	3	0.81	0.006	0.15	<0.1	4.7	0.11	0.05	103	<0.1	<0.02	2.9	1.82	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 08, 2011

Page: 2 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1097633	Soil	0.32	8.1	4.3	<0.05	2.5	8.13	14.9	0.10	<1	0.7	40.8	<10	<2
617757	Soil	0.20	7.7	4.1	<0.05	2.8	6.35	25.7	0.06	<1	1.0	39.0	<10	<2
617758	Soil	0.21	11.3	3.3	<0.05	2.4	3.23	22.4	0.04	<1	0.9	43.1	<10	<2
617759	Soil	0.21	6.9	3.3	<0.05	3.5	12.04	18.4	0.05	1	0.9	41.0	<10	<2
617760	Soil	0.39	7.2	3.3	<0.05	3.1	10.67	31.9	0.05	1	0.7	35.6	<10	<2
617761	Soil	0.44	7.7	1.6	<0.05	3.2	11.88	33.0	0.06	<1	0.9	30.8	<10	<2
617762	Soil	0.52	8.0	2.9	<0.05	2.7	12.69	37.4	0.06	<1	0.9	30.3	<10	<2
617763	Soil	0.45	9.6	2.5	<0.05	3.1	11.53	35.8	0.04	1	1.1	37.3	<10	<2
617764	Soil	0.76	10.6	1.9	<0.05	1.3	5.42	23.1	0.04	1	0.6	21.3	<10	<2
617765	Soil	0.31	8.7	0.9	<0.05	2.8	9.90	22.7	0.04	<1	0.9	32.8	<10	<2
617766	Soil	0.65	8.0	1.2	<0.05	1.6	13.95	30.1	0.04	1	0.7	27.5	<10	<2
617767	Soil	0.89	10.2	1.5	<0.05	0.8	4.60	28.7	0.04	<1	0.8	30.1	<10	<2
617768	Soil	0.37	12.5	2.2	<0.05	3.2	2.56	15.9	0.04	<1	0.7	54.3	<10	<2
617769	Soil	0.17	6.0	2.9	<0.05	2.9	9.77	14.6	0.04	<1	0.7	31.3	<10	<2
617770	Soil	0.17	5.9	11.0	<0.05	3.6	13.03	18.1	0.05	<1	0.8	31.3	<10	<2
617771	Soil	0.20	8.7	2.8	<0.05	1.8	11.92	22.3	0.03	<1	0.9	18.4	<10	<2
617772	Soil	0.58	16.0	1.5	<0.05	3.4	14.15	27.4	0.05	<1	1.4	30.1	<10	<2
617773	Soil	0.52	11.5	3.4	<0.05	3.0	15.64	32.8	0.04	<1	1.0	31.8	<10	<2
617774	Soil	0.66	10.5	1.2	<0.05	1.2	9.69	33.8	0.04	<1	0.9	28.3	<10	<2
617775	Soil	0.39	11.5	1.8	<0.05	2.4	15.17	38.3	0.04	<1	1.2	32.2	<10	<2
617776	Soil	0.51	12.9	2.2	<0.05	1.5	10.16	29.0	0.03	<1	0.8	25.5	<10	<2
617777	Soil	0.17	6.5	1.4	<0.05	1.3	9.19	17.0	0.02	<1	0.5	16.6	<10	<2
617778	Soil	0.53	9.2	2.5	<0.05	1.9	2.83	23.8	0.03	<1	0.5	37.2	<10	<2
617779	Soil	0.39	10.7	1.2	<0.05	1.7	3.17	19.4	0.05	<1	0.6	38.3	<10	<2
1098451	Soil	0.47	9.0	1.3	<0.05	1.1	5.94	22.3	<0.02	<1	0.5	21.9	<10	<2
1098452	Soil	0.05	15.1	7.2	<0.05	1.8	11.06	28.2	0.05	<1	1.7	51.3	<10	<2
1098453	Soil	0.14	17.9	5.8	<0.05	1.4	9.91	17.6	0.03	<1	1.5	37.0	<10	<2
1098454	Soil	0.18	15.1	5.1	<0.05	1.3	10.07	17.5	0.05	<1	1.8	35.7	<10	<2
1098455	Soil	0.14	17.3	4.4	<0.05	1.3	8.38	14.5	0.03	<1	1.3	35.7	<10	<2
1098456	Soil	0.10	10.1	4.3	<0.05	1.2	9.78	13.6	0.02	1	1.1	11.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1098457	Soil	0.61	23.55	24.21	58.2	101	22.7	11.4	928	3.53	17.2	1.4	2.1	2.4	26.4	0.04	1.86	0.29	23	1.00	0.084	
1098458	Soil	0.59	38.89	32.21	97.8	139	30.8	15.7	658	3.17	18.2	1.2	3.7	5.3	92.6	0.03	1.97	0.31	24	4.31	0.083	
1098459	Soil	0.66	43.57	24.84	87.2	127	34.1	18.1	649	3.22	12.3	1.1	2.1	6.2	260.0	0.02	0.36	0.33	20	4.85	0.066	
1098460	Soil	0.65	23.49	22.91	79.8	193	27.0	10.2	388	2.81	11.8	1.5	2.6	2.9	60.5	0.04	0.99	0.25	30	1.79	0.101	
1098461	Soil	0.56	20.15	37.89	61.1	225	27.8	7.2	167	2.13	15.9	1.1	2.7	1.6	108.4	<0.01	2.29	0.33	9	2.72	0.066	
1098462	Soil	0.43	17.35	25.37	81.8	229	23.4	7.3	250	1.98	7.8	1.2	0.6	1.5	211.3	<0.01	0.72	0.24	9	3.48	0.102	
1098463	Soil	0.84	20.63	31.15	66.1	491	22.1	8.7	362	2.97	6.5	1.5	4.4	2.4	119.8	0.15	0.34	0.39	25	1.15	0.061	
1098464	Soil	0.98	56.75	62.78	59.0	373	18.3	7.5	213	5.46	13.2	2.8	4.9	7.0	66.4	0.11	0.61	0.57	18	0.37	0.049	
1098465	Soil	0.70	18.22	21.65	70.7	113	20.4	8.8	324	2.58	6.2	1.3	3.3	2.6	35.4	0.12	0.34	0.30	28	0.36	0.051	
1098466	Soil	1.60	42.12	48.22	160.3	345	50.8	18.2	336	4.74	9.0	1.3	1.7	3.7	48.9	0.16	0.50	0.39	15	0.08	0.067	
1098467	Soil	1.13	49.48	45.39	108.6	215	46.1	26.3	648	4.25	16.8	1.4	2.7	5.5	411.2	0.17	0.79	0.38	14	9.09	0.085	
1098468	Soil	0.62	29.22	23.32	63.9	76	21.6	10.3	250	3.20	8.5	1.3	1.5	2.6	69.4	0.08	0.38	0.34	24	0.89	0.032	
1098469	Soil	0.62	40.78	68.77	70.1	27	37.5	21.2	4202	3.77	3.4	1.3	3.1	5.8	10.7	0.16	0.46	0.37	41	0.31	0.045	
1098470	Soil	0.85	66.12	137.0	109.5	114	53.4	65.1	5265	5.20	5.2	0.9	3.4	4.1	21.6	0.14	0.29	0.51	26	0.18	0.024	
1098471	Soil	0.53	54.60	57.64	88.4	102	41.1	32.5	1720	4.08	1.9	0.9	3.4	4.4	13.8	0.05	0.15	0.40	27	0.17	0.033	
1098472	Soil	0.65	64.62	100.7	109.0	75	48.8	102.7	4264	4.73	5.0	1.1	1.8	4.1	11.6	0.09	0.23	0.44	24	0.10	0.026	
1098473	Soil	1.16	54.23	53.00	117.7	205	42.3	36.6	1468	4.04	15.5	1.9	3.8	4.3	10.4	0.18	0.75	0.44	26	0.40	0.049	
1098474	Soil	0.54	27.01	30.69	34.2	102	21.7	14.1	765	2.79	7.5	2.0	1.7	1.5	22.3	0.08	0.53	0.36	12	1.15	0.063	
1098475	Soil	0.97	16.53	23.33	78.7	99	16.8	8.3	1119	2.92	22.5	1.1	1.5	1.2	18.8	0.33	6.31	0.24	23	3.65	0.111	
1098476	Soil	0.68	20.22	26.96	120.8	120	19.7	9.3	1073	3.03	14.4	1.5	2.4	2.3	36.4	0.22	2.29	0.23	20	6.21	0.098	
1098477	Soil	0.80	21.34	25.13	74.6	96	26.2	10.4	808	3.24	14.0	1.8	3.5	2.9	17.5	0.23	1.66	0.26	29	2.11	0.095	
1098478	Soil	0.76	22.97	20.99	69.6	160	25.7	10.5	918	3.28	13.6	1.6	2.3	3.0	27.6	0.22	1.29	0.25	27	3.01	0.112	
1098479	Soil	0.66	35.58	28.32	90.5	57	36.9	16.6	694	3.59	11.0	1.4	2.1	5.4	19.9	0.13	0.48	0.34	24	0.19	0.039	
1098480	Soil	0.45	32.30	19.80	78.9	186	26.1	10.6	376	2.72	6.5	1.7	2.3	1.5	125.7	0.12	0.32	0.28	18	1.90	0.062	
1098481	Soil	0.74	35.89	24.47	95.5	150	34.8	12.9	360	3.28	10.2	1.0	3.0	5.9	39.4	0.16	0.48	0.30	25	0.52	0.061	
1098482	Soil	0.53	51.98	22.15	65.5	236	23.5	8.1	302	2.36	5.8	4.9	1.4	1.3	204.1	0.14	0.46	0.28	14	3.13	0.071	
1098483	Soil	0.48	32.98	19.88	84.1	140	33.6	12.8	296	2.89	5.5	0.8	2.2	4.7	52.0	0.14	0.26	0.29	22	0.70	0.040	
1098484	Soil	0.51	34.06	22.15	87.8	142	31.0	12.3	266	3.01	8.4	1.4	3.1	4.1	62.1	0.10	0.37	0.31	21	0.90	0.047	
1098485	Soil	0.70	36.72	24.46	79.1	156	30.1	15.3	442	2.72	8.4	1.5	4.6	5.8	253.4	0.15	0.33	0.26	21	5.57	0.065	
1098486	Soil	0.41	29.03	28.34	71.7	165	29.6	14.5	538	3.24	8.7	1.1	1.3	2.9	139.6	0.09	0.36	0.31	16	1.98	0.039	



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1098457	Soil	11.0	22.6	0.59	160.4	0.004	4	1.36	0.005	0.11	<0.1	3.7	0.10	0.06	80	0.2	<0.02	3.8	1.35	<0.1	0.05
1098458	Soil	9.2	23.6	2.28	112.2	0.007	4	1.43	0.008	0.15	<0.1	4.4	0.14	<0.02	201	0.2	0.04	4.3	2.48	<0.1	0.08
1098459	Soil	9.6	25.5	0.85	117.4	0.004	5	1.60	0.005	0.14	<0.1	5.1	0.12	<0.02	105	0.3	<0.02	4.5	2.19	<0.1	0.10
1098460	Soil	14.6	24.6	0.79	106.9	0.010	3	1.42	0.008	0.10	0.1	3.6	0.10	0.04	103	0.3	0.04	3.8	1.20	<0.1	0.04
1098461	Soil	5.9	10.1	0.12	62.7	0.001	6	0.63	0.005	0.09	<0.1	2.3	0.11	0.06	242	0.7	<0.02	1.5	0.47	<0.1	0.02
1098462	Soil	10.1	9.8	0.17	113.3	0.002	6	0.61	0.007	0.09	<0.1	2.2	0.13	0.08	205	0.6	<0.02	1.5	0.91	<0.1	0.04
1098463	Soil	10.3	23.3	0.22	158.9	0.005	2	1.32	0.005	0.05	0.1	3.1	0.13	0.03	73	0.4	0.03	3.7	1.82	<0.1	0.04
1098464	Soil	6.8	26.0	0.29	87.8	0.002	3	1.04	0.045	0.08	<0.1	4.6	0.18	0.20	99	0.3	0.05	3.5	1.69	<0.1	0.13
1098465	Soil	9.2	26.6	0.49	108.1	0.008	2	1.32	0.004	0.07	0.1	2.7	0.10	0.02	29	0.2	<0.02	4.1	2.03	<0.1	0.03
1098466	Soil	4.1	19.3	0.23	101.7	0.002	1	1.50	0.007	0.06	<0.1	4.6	0.15	0.08	71	0.6	0.05	2.7	4.15	<0.1	0.07
1098467	Soil	4.5	21.3	0.39	71.7	0.003	3	1.02	0.005	0.07	<0.1	6.2	0.13	<0.02	41	0.4	0.07	3.0	2.83	<0.1	0.08
1098468	Soil	5.9	24.0	0.42	85.9	0.002	2	1.36	0.004	0.07	<0.1	2.6	0.10	0.03	28	0.3	0.04	4.9	1.41	<0.1	0.05
1098469	Soil	6.0	36.3	0.56	458.2	0.011	3	1.39	0.006	0.15	0.3	6.3	0.19	0.03	90	<0.1	0.07	4.5	4.40	<0.1	0.04
1098470	Soil	5.8	41.3	0.77	208.1	0.007	2	2.23	0.005	0.12	<0.1	7.0	0.30	<0.02	54	<0.1	0.05	8.6	5.88	<0.1	0.09
1098471	Soil	3.5	39.8	0.82	266.6	0.004	<1	2.08	0.005	0.13	<0.1	5.6	0.14	<0.02	35	<0.1	<0.02	8.0	2.50	<0.1	0.07
1098472	Soil	4.1	36.3	0.74	124.2	0.004	1	2.20	0.003	0.12	<0.1	6.4	0.28	<0.02	36	<0.1	0.02	7.9	4.82	<0.1	0.04
1098473	Soil	9.9	27.9	0.41	122.8	0.004	2	1.50	0.003	0.14	<0.1	6.8	0.19	0.03	48	0.2	0.03	5.4	2.16	<0.1	0.09
1098474	Soil	9.8	13.7	0.17	65.7	0.003	5	0.72	0.004	0.15	<0.1	4.0	0.12	0.11	77	0.2	0.03	2.2	1.83	<0.1	0.06
1098475	Soil	9.5	19.9	2.01	98.4	0.007	2	1.11	0.006	0.06	<0.1	2.2	0.10	0.05	101	0.2	0.04	3.2	0.78	<0.1	0.03
1098476	Soil	10.6	20.2	3.46	67.9	0.006	3	1.09	0.008	0.07	<0.1	3.2	0.13	0.02	122	0.3	0.05	3.0	1.00	<0.1	0.08
1098477	Soil	11.3	25.8	1.28	107.8	0.008	3	1.40	0.004	0.06	0.1	3.2	0.11	0.02	97	0.3	0.02	3.8	1.40	<0.1	0.05
1098478	Soil	13.9	25.1	1.91	102.6	0.011	3	1.21	0.007	0.07	0.1	4.1	0.10	0.03	61	0.3	<0.02	3.6	1.14	<0.1	0.04
1098479	Soil	13.4	31.6	0.85	109.7	0.006	3	1.81	0.003	0.07	<0.1	4.3	0.11	<0.02	22	0.3	0.08	4.8	2.04	<0.1	0.06
1098480	Soil	10.3	21.3	0.48	116.9	0.003	4	1.28	0.006	0.08	<0.1	3.4	0.08	0.07	110	0.6	0.04	3.5	1.24	<0.1	0.05
1098481	Soil	13.8	30.3	0.78	95.7	0.011	3	1.49	0.006	0.10	<0.1	5.4	0.09	<0.02	57	0.2	0.06	4.5	1.83	<0.1	0.08
1098482	Soil	10.4	18.5	0.37	125.5	0.002	6	1.02	0.012	0.10	<0.1	2.6	0.14	0.13	141	0.5	0.02	2.8	1.73	<0.1	0.12
1098483	Soil	11.7	32.2	0.84	96.9	0.006	3	1.68	0.004	0.10	<0.1	5.5	0.08	<0.02	66	0.2	0.03	5.0	1.60	<0.1	0.10
1098484	Soil	9.8	26.1	0.76	72.1	0.005	4	1.44	0.005	0.10	<0.1	5.1	0.09	0.03	59	0.3	0.04	4.3	1.75	<0.1	0.09
1098485	Soil	14.9	32.0	1.28	71.1	0.005	4	1.47	0.005	0.12	<0.1	5.0	0.12	<0.02	95	0.4	0.03	4.6	1.95	<0.1	0.09
1098486	Soil	7.4	22.1	0.46	88.2	0.002	4	1.37	0.005	0.08	<0.1	5.6	0.08	0.06	68	0.2	0.05	3.6	2.11	<0.1	0.09



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 3 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1098457	Soil	0.28	8.9	2.4	<0.05	1.6	11.46	23.4	0.03	<1	1.2	25.8	<10	<2
1098458	Soil	0.11	10.0	4.1	<0.05	4.3	9.19	20.7	0.03	<1	0.9	37.2	<10	<2
1098459	Soil	0.11	9.4	3.2	<0.05	6.2	10.51	21.0	0.03	<1	1.0	44.9	<10	<2
1098460	Soil	0.52	8.2	2.4	<0.05	1.8	14.12	28.0	0.03	<1	0.9	28.3	<10	<2
1098461	Soil	0.14	5.3	4.7	<0.05	1.3	10.36	15.6	<0.02	<1	0.7	5.4	<10	<2
1098462	Soil	0.19	6.3	3.8	<0.05	1.6	12.28	24.1	<0.02	<1	0.7	9.1	<10	<2
1098463	Soil	0.52	9.0	4.3	<0.05	1.5	9.83	29.2	0.05	2	1.0	26.1	<10	<2
1098464	Soil	0.03	5.7	6.0	<0.05	6.3	10.40	13.1	0.06	<1	1.1	19.4	<10	<2
1098465	Soil	0.30	9.6	2.7	<0.05	1.2	5.22	20.1	0.03	<1	0.7	31.2	<10	<2
1098466	Soil	0.06	6.9	2.8	<0.05	2.7	8.95	11.2	0.06	4	1.7	36.2	<10	<2
1098467	Soil	0.05	5.7	6.9	<0.05	5.9	14.00	13.8	0.06	2	1.2	35.3	<10	<2
1098468	Soil	0.24	9.1	1.8	<0.05	2.4	4.44	14.4	0.04	1	0.8	38.8	<10	<2
1098469	Soil	0.23	18.5	15.6	<0.05	1.3	37.50	19.6	0.04	<1	3.1	20.6	<10	2
1098470	Soil	<0.02	17.4	7.4	<0.05	3.7	14.19	32.1	0.05	1	1.5	48.1	<10	<2
1098471	Soil	0.17	14.1	8.9	<0.05	2.1	13.98	15.7	0.05	<1	2.1	34.9	<10	<2
1098472	Soil	0.03	16.4	1.9	<0.05	1.9	14.42	26.7	0.05	<1	2.3	39.8	<10	<2
1098473	Soil	0.21	13.4	2.3	<0.05	3.0	21.66	25.3	0.04	<1	1.9	19.6	<10	<2
1098474	Soil	0.18	9.8	3.0	<0.05	1.7	14.21	23.3	0.04	<1	1.1	5.4	<10	<2
1098475	Soil	0.29	7.1	1.9	<0.05	1.1	8.44	21.2	0.03	<1	0.8	15.9	<10	<2
1098476	Soil	0.17	6.7	1.6	<0.05	1.7	10.33	23.1	0.03	<1	0.8	22.9	<10	<2
1098477	Soil	0.39	9.0	2.5	<0.05	1.5	10.94	33.8	0.03	<1	0.9	25.9	<10	<2
1098478	Soil	0.31	6.7	1.6	<0.05	1.8	15.56	29.7	0.04	<1	0.9	25.0	<10	<2
1098479	Soil	0.17	8.7	1.6	<0.05	2.7	9.69	38.7	0.05	<1	1.2	47.6	<10	<2
1098480	Soil	0.31	6.9	1.5	<0.05	1.9	12.67	22.9	0.03	<1	1.0	30.7	<10	<2
1098481	Soil	0.27	7.8	3.2	<0.05	4.7	13.20	29.0	0.04	<1	1.0	40.6	<10	<2
1098482	Soil	0.16	7.8	2.2	<0.05	5.1	16.42	13.0	0.04	<1	0.9	20.9	<10	<2
1098483	Soil	0.26	8.2	2.9	<0.05	4.0	11.85	26.3	0.04	<1	1.1	52.2	<10	<2
1098484	Soil	0.22	7.9	2.9	<0.05	3.9	10.39	22.7	0.04	<1	0.9	42.5	<10	<2
1098485	Soil	0.09	9.2	4.1	<0.05	6.1	11.98	32.9	0.04	<1	1.0	42.2	<10	<2
1098486	Soil	0.18	7.3	1.6	<0.05	3.2	16.41	23.0	0.04	<1	1.2	44.5	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
617251	Soil			0.65	37.19	31.77	52.5	82	34.2	25.3	1099	3.65	11.3	1.0	1.6	4.8	7.7	0.07	0.97	0.39	17	0.80	0.041
617252	Soil			0.69	26.15	27.76	74.5	102	25.7	13.8	964	3.69	12.5	1.2	1.6	3.0	16.4	0.14	1.12	0.31	22	1.34	0.072
617253	Soil			0.71	28.80	24.66	78.1	124	29.6	13.6	643	3.24	10.3	1.6	2.1	3.3	44.2	0.13	0.42	0.30	23	0.73	0.066
617254	Soil			0.80	26.65	22.86	85.0	69	25.3	12.4	641	3.12	9.3	1.3	2.0	2.4	31.9	0.15	0.46	0.28	29	0.45	0.063
617255	Soil			0.69	22.94	21.75	102.0	170	21.4	9.8	1294	3.42	10.1	2.1	2.0	1.2	33.4	0.37	0.69	0.30	27	1.09	0.144
617256	Soil			1.32	34.79	79.37	236.9	496	41.0	10.3	386	2.91	33.4	12.3	8.8	4.3	46.6	0.16	5.97	0.33	17	3.44	0.658
617257	Soil			0.83	13.85	27.21	34.0	91	16.0	6.8	577	1.72	6.6	1.0	1.2	0.8	30.6	0.18	0.47	0.18	10	1.85	0.066
617258	Soil			0.64	30.40	38.38	139.8	278	41.7	15.5	551	4.24	6.8	1.2	0.6	5.7	73.9	0.17	0.25	0.36	11	0.72	0.063
617259	Soil			0.50	21.81	40.51	105.1	231	25.9	9.6	286	2.82	7.0	1.5	1.2	1.7	95.4	0.12	0.43	0.29	13	1.71	0.070
617260	Soil			0.68	27.63	23.23	88.1	160	30.6	12.2	394	3.24	9.1	1.5	1.4	3.8	62.9	0.20	0.40	0.27	26	1.07	0.065
617261	Soil			0.98	45.81	48.37	108.8	354	44.3	24.7	806	4.36	15.7	1.3	1.5	4.4	78.1	0.12	0.61	0.37	16	0.95	0.059
617262	Soil			0.55	30.12	33.67	77.9	60	24.4	24.9	1629	5.50	3.8	0.5	0.7	3.1	4.0	0.12	0.23	0.36	30	0.04	0.047
617263	Soil			1.23	19.02	21.80	67.3	28	22.2	11.4	655	4.05	8.1	0.6	2.3	3.4	5.2	0.14	0.67	0.37	49	0.04	0.032
617264	Soil			0.57	25.76	22.27	64.4	39	26.9	13.1	348	3.38	3.5	0.6	3.3	1.8	5.3	0.12	0.40	0.33	35	0.04	0.034
617265	Soil			0.79	21.68	26.86	107.3	113	17.9	13.9	1402	3.27	4.8	0.6	0.9	0.6	5.9	0.43	0.34	0.34	34	0.04	0.074
617266	Soil			0.51	17.43	24.70	117.1	117	10.6	25.9	3779	4.46	5.4	0.4	0.6	1.2	4.1	0.41	0.36	0.36	39	0.02	0.105
617267	Soil			1.01	17.61	20.07	87.3	154	14.6	9.0	643	3.82	5.9	0.6	1.4	0.2	9.1	0.14	0.56	0.31	37	0.11	0.077
617268	Soil			0.61	27.26	30.89	73.3	58	20.9	11.8	604	3.52	5.8	0.4	0.6	2.4	5.6	0.14	0.25	0.46	29	0.03	0.050
617269	Soil			0.62	31.81	40.80	90.7	109	25.8	20.5	2061	4.18	6.0	0.6	<0.2	2.2	4.4	0.23	0.29	0.43	26	0.03	0.070
617270	Soil			0.38	30.41	48.82	97.9	177	30.8	21.6	1134	3.90	5.5	0.9	2.5	3.5	10.4	0.06	0.22	0.45	30	0.09	0.037
617271	Soil			0.44	32.70	25.04	81.2	52	31.9	18.8	760	3.23	2.9	0.9	0.8	3.8	14.1	0.03	0.13	0.37	23	0.20	0.032
617272	Soil			0.64	26.33	27.37	73.2	65	20.5	14.2	571	5.18	4.4	0.5	1.4	2.9	4.5	0.10	0.34	0.36	35	0.03	0.041
617273	Soil			0.98	26.89	31.08	72.5	49	22.9	16.2	1760	4.03	6.1	0.7	0.8	1.8	10.1	0.17	0.45	0.34	37	0.18	0.057
617274	Soil			0.87	23.35	31.37	68.9	71	19.0	19.7	1397	3.09	5.6	0.8	1.1	0.7	12.9	0.16	0.42	0.29	30	0.16	0.084
617275	Soil			0.86	24.52	15.25	97.7	168	24.1	8.4	391	2.71	8.2	1.4	2.8	1.4	22.9	0.28	0.54	0.26	36	0.52	0.075
617276	Soil			1.06	23.30	16.35	80.6	182	26.9	10.5	693	2.52	12.3	0.7	2.6	3.2	26.3	0.36	1.46	0.21	32	3.41	0.082
617277	Soil			0.54	20.92	17.50	82.1	63	19.4	9.6	608	2.45	14.8	1.0	1.9	1.2	15.7	0.23	1.03	0.25	11	3.01	0.074
617278	Soil			0.71	18.32	25.72	88.5	161	22.0	9.3	1515	3.72	14.9	1.6	2.4	1.6	18.4	0.35	1.65	0.25	36	1.11	0.141
617279	Soil			0.62	14.80	19.01	58.8	128	17.1	7.4	1615	2.98	14.0	1.2	3.8	1.3	32.9	0.27	1.41	0.16	19	7.23	0.123
617280	Soil			0.72	23.16	21.40	73.7	31	26.4	12.4	549	3.54	11.6	1.2	0.7	3.1	9.6	0.17	0.56	0.31	26	0.17	0.036



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
617251	Soil	10.2	20.4	0.64	93.1	0.004	2	0.98	0.003	0.13	<0.1	5.3	0.13	<0.02	43	<0.1	0.05	3.4	1.77	<0.1	0.05
617252	Soil	12.2	22.8	0.86	91.8	0.004	3	1.33	0.004	0.10	<0.1	4.2	0.11	0.04	53	0.3	0.03	3.8	1.09	<0.1	0.07
617253	Soil	12.4	26.4	0.65	97.6	0.005	3	1.48	0.005	0.08	<0.1	3.9	0.09	0.03	42	0.2	0.05	4.4	1.48	<0.1	0.05
617254	Soil	10.2	27.6	0.66	100.4	0.007	2	1.56	0.005	0.08	<0.1	3.0	0.11	0.03	37	0.3	0.04	4.7	2.02	<0.1	0.04
617255	Soil	12.6	25.8	0.61	134.4	0.006	3	1.49	0.006	0.07	<0.1	2.7	0.12	0.11	72	0.5	0.04	4.1	1.17	<0.1	0.07
617256	Soil	8.1	20.2	0.66	44.8	0.003	4	0.94	0.006	0.10	0.1	2.1	0.16	0.07	711	1.4	0.21	2.5	0.21	<0.1	0.09
617257	Soil	5.8	16.4	0.21	64.5	0.002	2	0.65	0.005	0.04	<0.1	1.2	0.06	0.11	98	0.4	<0.02	1.8	0.49	<0.1	0.05
617258	Soil	10.2	16.2	0.27	109.3	0.001	2	1.11	0.004	0.08	<0.1	6.3	0.17	0.04	142	0.4	0.04	2.7	2.20	<0.1	0.08
617259	Soil	7.2	16.2	0.20	159.5	0.001	3	0.92	0.007	0.06	<0.1	2.7	0.13	0.09	225	0.5	<0.02	2.2	0.84	<0.1	0.07
617260	Soil	13.1	28.2	0.58	101.6	0.004	2	1.55	0.004	0.07	<0.1	4.1	0.11	0.04	57	0.3	0.07	4.1	1.55	<0.1	0.06
617261	Soil	7.9	22.7	0.40	144.7	0.001	2	1.40	0.003	0.07	<0.1	8.6	0.13	0.05	49	0.4	0.07	3.8	2.64	<0.1	0.16
617262	Soil	3.6	39.6	0.43	69.3	0.003	<1	2.34	0.003	0.10	<0.1	4.3	0.11	0.03	37	0.2	0.02	7.8	2.29	<0.1	0.05
617263	Soil	6.1	33.8	0.40	75.6	0.014	1	1.87	<0.001	0.09	0.2	2.6	0.11	<0.02	30	0.3	0.06	6.3	1.90	<0.1	0.03
617264	Soil	3.2	30.6	0.42	100.4	0.009	1	1.81	0.002	0.09	0.1	2.0	0.11	0.02	21	<0.1	0.02	4.9	1.86	<0.1	<0.02
617265	Soil	4.3	29.7	0.24	132.5	0.007	1	1.50	0.003	0.10	<0.1	1.4	0.10	0.06	51	0.3	0.03	6.2	1.44	<0.1	<0.02
617266	Soil	4.4	31.5	0.10	120.0	0.005	<1	1.56	0.001	0.09	<0.1	2.1	0.11	0.03	38	0.2	<0.02	8.0	1.29	<0.1	0.03
617267	Soil	4.8	29.2	0.25	105.8	0.009	1	1.22	0.002	0.12	<0.1	0.8	0.09	0.07	46	0.2	0.04	5.7	1.24	<0.1	<0.02
617268	Soil	4.6	30.0	0.35	83.5	0.003	<1	1.70	0.002	0.08	<0.1	2.5	0.10	0.03	39	0.2	0.02	6.3	2.50	<0.1	0.04
617269	Soil	3.9	32.6	0.31	117.0	0.003	1	2.00	0.002	0.09	<0.1	3.1	0.12	0.04	55	0.4	0.04	6.1	2.12	<0.1	0.06
617270	Soil	6.9	35.9	0.48	146.0	0.004	1	2.01	<0.001	0.13	<0.1	3.8	0.13	0.02	32	<0.1	<0.02	7.1	1.77	<0.1	0.03
617271	Soil	7.7	35.1	0.56	326.7	0.007	2	1.64	0.001	0.19	<0.1	3.7	0.15	<0.02	24	0.1	0.02	5.9	2.14	<0.1	0.04
617272	Soil	4.7	34.8	0.37	42.8	0.006	<1	1.97	0.002	0.07	<0.1	2.9	0.10	<0.02	53	0.3	<0.02	6.9	2.49	<0.1	0.04
617273	Soil	7.2	31.6	0.45	453.4	0.009	1	1.86	0.004	0.08	0.1	3.0	0.12	0.03	26	0.2	<0.02	5.9	2.29	<0.1	<0.02
617274	Soil	5.7	25.5	0.36	136.8	0.008	1	1.44	0.004	0.08	0.1	1.7	0.12	0.07	43	0.3	<0.02	4.8	2.06	<0.1	<0.02
617275	Soil	12.3	25.4	0.45	163.3	0.009	2	1.51	0.005	0.07	0.1	2.7	0.12	0.03	50	0.2	0.03	4.3	1.42	<0.1	<0.02
617276	Soil	10.7	21.1	2.31	106.0	0.022	2	0.99	0.010	0.07	0.1	2.9	0.11	<0.02	62	0.2	0.03	2.7	0.54	<0.1	0.05
617277	Soil	6.2	9.7	1.64	46.6	0.002	3	0.45	0.003	0.09	<0.1	2.7	0.08	0.06	78	0.1	0.08	1.3	0.54	<0.1	0.06
617278	Soil	14.2	23.6	0.62	161.9	0.009	2	1.47	0.006	0.05	0.1	2.8	0.10	0.07	93	0.2	0.03	3.5	0.63	<0.1	0.05
617279	Soil	9.1	15.0	4.07	66.7	0.010	3	0.87	0.008	0.04	<0.1	1.9	0.15	0.04	95	0.3	0.04	1.9	0.49	<0.1	0.04
617280	Soil	8.1	24.6	0.67	107.5	0.003	2	1.71	<0.001	0.07	<0.1	2.7	0.10	<0.02	30	0.2	0.04	4.4	1.36	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 4 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
617251	Soil	0.09	10.3	2.2	<0.05	1.4	11.46	27.3	0.04	<1	1.2	12.4	<10	<2
617252	Soil	0.22	9.1	1.8	<0.05	2.1	11.89	28.8	0.04	<1	1.1	23.3	<10	<2
617253	Soil	0.25	8.3	3.1	<0.05	2.2	11.71	29.3	0.03	<1	1.1	37.0	<10	<2
617254	Soil	0.33	11.0	3.3	<0.05	1.4	6.67	26.5	0.04	<1	0.9	34.9	<10	<2
617255	Soil	0.32	10.3	1.9	<0.05	1.6	12.50	25.9	0.02	<1	0.9	23.4	<10	<2
617256	Soil	0.08	4.1	1.6	<0.05	3.9	28.22	21.7	0.06	<1	0.4	3.4	<10	2
617257	Soil	0.11	4.5	8.2	<0.05	1.7	7.73	14.4	0.03	1	0.5	9.3	<10	<2
617258	Soil	0.09	7.3	3.3	<0.05	3.4	20.82	28.4	0.05	1	1.2	33.4	<10	<2
617259	Soil	0.20	7.0	24.9	<0.05	1.9	11.44	19.5	0.06	<1	1.0	16.8	<10	<2
617260	Soil	0.42	8.5	2.8	<0.05	2.4	12.25	32.3	0.04	<1	1.1	37.4	<10	<2
617261	Soil	0.12	6.9	3.5	<0.05	5.9	27.01	24.8	0.05	<1	1.5	41.7	<10	<2
617262	Soil	0.33	14.0	2.2	<0.05	2.1	6.33	13.2	0.04	<1	1.5	36.8	<10	<2
617263	Soil	0.83	13.4	4.2	<0.05	1.0	2.94	13.0	0.03	<1	0.7	24.6	<10	<2
617264	Soil	0.56	12.1	1.5	<0.05	0.5	2.93	9.7	0.03	<1	0.8	26.1	<10	<2
617265	Soil	0.45	14.0	5.8	<0.05	0.1	2.69	10.6	0.03	<1	0.7	16.2	<10	<2
617266	Soil	0.47	14.2	1.9	<0.05	0.5	1.98	11.4	0.03	<1	0.8	10.3	<10	<2
617267	Soil	0.44	12.7	3.8	<0.05	<0.1	2.27	11.3	0.02	<1	0.5	11.7	<10	<2
617268	Soil	0.40	12.4	4.8	<0.05	1.1	3.15	12.4	0.04	<1	0.9	22.3	<10	<2
617269	Soil	0.34	16.4	3.7	<0.05	1.9	4.87	11.5	0.04	<1	1.4	28.8	<10	<2
617270	Soil	0.27	14.2	1.7	<0.05	1.1	8.96	26.8	0.03	<1	1.5	32.2	<10	<2
617271	Soil	0.28	16.8	2.0	<0.05	1.8	15.52	21.9	0.03	<1	1.5	30.0	<10	<2
617272	Soil	0.57	10.6	1.7	<0.05	1.6	3.59	12.0	0.03	<1	0.7	26.7	<10	<2
617273	Soil	0.38	12.6	1.9	<0.05	0.5	7.79	20.2	0.03	<1	1.4	25.9	<10	<2
617274	Soil	0.38	12.1	2.5	<0.05	0.2	4.04	14.2	<0.02	<1	1.1	18.8	<10	<2
617275	Soil	0.36	9.6	0.8	<0.05	0.6	11.23	23.5	0.03	<1	0.8	20.3	<10	<2
617276	Soil	0.40	4.6	1.5	<0.05	1.4	8.95	21.5	0.02	<1	0.6	13.7	<10	<2
617277	Soil	0.14	5.2	1.5	<0.05	1.4	7.57	13.9	<0.02	<1	0.6	2.9	<10	<2
617278	Soil	0.41	6.2	0.9	<0.05	1.5	12.72	25.2	0.04	<1	0.8	13.1	<10	<2
617279	Soil	0.27	3.9	0.5	<0.05	1.1	9.06	17.8	<0.02	<1	0.7	9.8	<10	<2
617280	Soil	0.29	8.2	0.8	<0.05	1.7	4.91	23.9	0.04	<1	1.1	41.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
617281	Soil			0.71	17.24	21.45	69.4	141	24.1	8.4	3014	6.69	17.6	2.0	1.2	1.6	15.1	0.47	1.32	0.24	30	3.62	0.181
617282	Soil			0.58	12.73	23.92	22.6	121	22.7	8.2	466	2.12	17.0	1.4	3.9	2.6	44.6	0.04	2.59	0.19	6	8.59	0.104
617283	Soil			0.80	12.57	29.59	100.3	149	17.2	4.6	1485	3.02	20.1	2.0	2.4	1.1	24.1	0.34	2.90	0.14	6	7.98	0.132
617284	Soil			0.93	38.40	42.25	72.5	142	27.4	15.6	444	4.63	14.7	1.6	3.0	4.0	12.0	0.08	0.46	0.41	22	0.08	0.038
617285	Soil			0.87	22.18	27.48	57.7	134	14.7	6.9	286	3.18	7.5	0.9	2.3	1.2	8.9	0.07	0.43	0.34	27	0.04	0.076
617286	Soil			0.49	19.22	45.75	95.7	147	19.7	8.9	807	3.09	14.8	1.1	5.5	1.7	63.2	0.16	1.31	0.20	7	8.86	0.077
617997	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
617998	Soil			0.53	47.24	49.36	97.8	46	38.0	35.2	2048	4.61	3.1	0.8	1.2	3.6	11.3	0.07	0.22	0.41	29	0.10	0.031
617999	Soil			0.48	38.07	33.35	82.9	65	34.9	26.6	1061	3.98	2.9	0.8	2.3	4.0	13.7	0.07	0.20	0.40	31	0.15	0.033
618000	Soil			0.50	36.11	37.11	74.8	79	27.1	28.6	1348	4.01	2.9	0.7	1.1	3.0	6.3	0.09	0.23	0.36	27	0.08	0.062
617301	Soil			0.40	44.64	46.34	83.3	59	35.1	32.1	2134	4.16	2.7	1.0	2.0	4.5	12.0	0.05	0.19	0.39	29	0.16	0.035
617302	Soil			0.78	14.36	18.21	61.9	133	17.6	7.4	908	2.73	10.7	1.1	0.8	1.3	25.8	0.28	1.49	0.22	27	3.81	0.081
617303	Soil			0.56	6.23	11.14	122.7	68	7.5	3.1	2761	3.26	13.9	1.5	1.1	0.4	16.6	0.51	1.99	0.07	8	9.43	0.087
617304	Soil			0.48	21.15	22.24	99.2	154	21.8	8.1	390	2.19	9.3	1.2	1.5	2.5	44.0	0.15	1.51	0.27	12	1.91	0.078
617305	Soil			0.57	32.44	21.77	86.6	145	29.2	12.7	421	2.84	8.5	1.6	2.3	2.6	223.7	0.16	0.45	0.27	16	4.11	0.063
617306	Soil			0.55	31.15	19.57	67.5	133	26.3	12.6	590	2.60	8.1	1.3	3.0	3.2	211.9	0.08	0.34	0.27	16	3.40	0.041
617307	Soil			0.40	35.13	22.25	90.1	167	31.3	11.9	310	3.20	7.9	0.7	1.4	2.9	73.7	0.12	0.32	0.30	18	0.98	0.045
617401	Soil			0.46	61.13	23.23	86.5	39	35.3	21.4	1882	3.61	2.2	0.9	1.0	4.4	10.9	0.04	0.27	0.19	33	0.11	0.032
617402	Soil			0.40	36.25	25.50	73.6	49	31.5	16.2	944	3.67	6.2	0.9	1.4	5.2	10.3	0.10	0.44	0.32	27	0.25	0.029
617403	Soil			0.36	33.38	30.65	60.6	29	29.4	19.4	1054	3.86	6.1	0.8	0.7	5.9	7.4	0.08	0.41	0.36	26	0.12	0.029
617404	Soil			0.49	30.22	46.31	73.1	42	31.3	19.9	1320	4.22	8.8	1.0	1.5	4.4	14.2	0.13	0.57	0.37	25	0.19	0.045
617405	Soil			0.56	32.02	30.13	81.9	44	28.7	24.0	1000	5.00	7.8	1.0	0.5	4.8	8.2	0.14	0.64	0.35	31	0.09	0.037
617406	Soil			0.41	29.88	32.90	71.2	89	26.3	31.4	1305	4.75	5.4	0.7	0.4	5.3	5.3	0.09	0.40	0.36	28	0.04	0.026
617407	Soil			0.47	35.17	27.76	110.8	66	29.3	19.5	583	3.52	6.4	1.6	1.0	4.4	19.4	0.10	0.43	0.33	27	0.65	0.049
617408	Soil			0.67	41.83	24.77	90.1	114	28.9	11.2	307	3.06	12.1	2.0	1.9	4.6	18.0	0.15	0.94	0.33	24	0.83	0.043
617409	Soil			0.40	31.33	19.63	68.6	70	25.5	16.5	751	4.48	2.8	0.6	<0.2	4.3	3.7	0.09	0.21	0.35	32	0.03	0.030
617410	Soil			0.50	25.81	29.89	70.0	77	20.0	14.2	567	5.30	3.7	0.5	0.7	3.8	4.1	0.09	0.24	0.37	34	0.02	0.037
617411	Soil			0.38	38.99	40.79	93.7	46	33.8	35.6	1411	4.68	3.9	0.7	<0.2	4.9	4.7	0.11	0.19	0.41	28	0.06	0.036
617412	Soil			1.72	43.90	46.44	114.1	171	32.4	23.9	845	2.70	19.8	2.9	1.3	3.3	32.1	0.18	0.90	0.39	23	1.77	0.050
617413	Soil			0.32	21.93	29.00	109.3	132	22.6	8.8	580	2.76	7.7	1.4	0.6	2.6	61.8	0.18	0.59	0.25	10	4.41	0.062



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 08, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
617281	Soil	17.2	26.4	2.17	143.0	0.006	2	1.67	0.002	0.05	<0.1	3.1	0.12	0.09	117	0.4	0.06	3.6	0.76	<0.1	0.06
617282	Soil	3.4	7.3	3.84	22.1	0.001	2	0.25	0.002	0.06	<0.1	2.2	0.08	<0.02	142	0.5	<0.02	0.6	0.50	<0.1	0.03
617283	Soil	6.2	9.0	3.88	31.2	0.002	2	0.27	0.005	0.04	<0.1	1.5	0.06	0.03	256	0.5	0.04	0.5	0.22	<0.1	0.03
617284	Soil	9.8	26.3	0.57	70.1	0.002	2	1.60	0.002	0.08	<0.1	3.7	0.18	0.04	72	0.3	0.03	3.9	1.58	<0.1	0.08
617285	Soil	4.4	17.3	0.16	39.5	0.004	2	1.05	0.002	0.06	0.1	1.7	0.10	0.05	49	0.4	0.04	3.7	2.68	<0.1	<0.02
617286	Soil	4.0	8.9	4.63	48.8	0.002	2	0.43	0.004	0.05	<0.1	2.5	0.41	0.02	207	0.3	0.03	1.0	1.21	<0.1	0.03
617997	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
617998	Soil	5.0	37.4	0.71	184.6	0.006	<1	2.31	0.003	0.11	<0.1	6.3	0.15	<0.02	34	0.2	<0.02	8.1	2.41	<0.1	0.03
617999	Soil	4.5	39.2	0.67	291.2	0.006	<1	2.04	0.003	0.14	<0.1	5.6	0.15	<0.02	36	0.1	0.03	7.9	2.59	<0.1	0.04
618000	Soil	3.1	35.4	0.46	219.0	0.005	1	1.88	0.003	0.13	<0.1	3.6	0.15	0.06	32	<0.1	0.04	6.8	3.44	<0.1	0.03
617301	Soil	5.1	36.7	0.68	313.4	0.006	<1	2.03	<0.001	0.13	<0.1	6.2	0.14	<0.02	24	<0.1	0.06	7.4	2.69	<0.1	0.04
617302	Soil	10.7	19.8	2.21	102.5	0.011	2	1.03	0.002	0.04	0.1	2.2	0.08	0.04	106	0.4	<0.02	2.9	0.76	<0.1	0.03
617303	Soil	5.5	7.9	5.01	85.2	0.005	1	0.40	0.003	0.02	<0.1	0.9	0.04	<0.02	132	0.2	<0.02	0.9	0.18	<0.1	<0.02
617304	Soil	8.5	15.0	0.91	59.9	0.002	3	0.78	<0.001	0.07	<0.1	3.0	0.09	0.05	154	0.3	<0.02	2.4	0.46	<0.1	0.06
617305	Soil	7.6	20.2	0.93	85.5	0.003	3	1.14	0.002	0.09	<0.1	3.4	0.10	0.06	83	0.5	<0.02	3.1	1.61	<0.1	0.12
617306	Soil	7.5	20.7	0.74	82.8	0.002	3	1.21	<0.001	0.10	<0.1	3.7	0.09	0.03	68	0.2	0.06	3.6	1.22	<0.1	0.10
617307	Soil	7.2	22.7	0.62	69.9	0.002	3	1.42	<0.001	0.08	<0.1	5.0	0.10	0.03	56	0.2	0.06	3.9	1.43	<0.1	0.08
617401	Soil	3.9	38.6	0.71	175.0	0.011	2	1.94	0.001	0.17	<0.1	4.5	0.18	0.02	29	<0.1	<0.02	7.4	3.11	<0.1	<0.02
617402	Soil	8.7	31.0	0.63	167.9	0.005	2	1.79	<0.001	0.10	<0.1	4.6	0.11	<0.02	39	0.1	<0.02	5.1	1.64	<0.1	0.04
617403	Soil	8.1	29.6	0.58	182.8	0.004	2	1.85	0.003	0.11	<0.1	4.5	0.11	<0.02	23	<0.1	<0.02	5.5	1.51	<0.1	0.05
617404	Soil	7.7	29.1	0.58	113.0	0.003	3	1.83	0.004	0.09	<0.1	4.5	0.12	0.02	23	0.1	0.03	5.2	2.27	<0.1	0.03
617405	Soil	6.3	33.7	0.61	189.4	0.002	2	2.32	0.003	0.12	<0.1	3.9	0.13	<0.02	33	<0.1	0.02	6.6	2.68	<0.1	0.05
617406	Soil	4.1	32.0	0.50	163.0	0.003	2	2.05	0.003	0.13	<0.1	3.3	0.15	<0.02	21	<0.1	<0.02	6.3	3.23	<0.1	0.05
617407	Soil	5.6	32.4	0.58	123.2	0.004	3	1.79	0.004	0.15	<0.1	4.5	0.14	0.03	40	0.1	<0.02	5.9	2.69	<0.1	0.05
617408	Soil	11.4	25.3	0.57	108.8	0.005	3	1.36	0.002	0.15	<0.1	4.9	0.15	0.04	69	0.2	<0.02	4.7	1.63	<0.1	0.06
617409	Soil	2.7	34.8	0.49	100.0	0.004	2	2.05	0.005	0.12	<0.1	3.4	0.13	<0.02	34	<0.1	0.03	7.5	3.44	<0.1	0.03
617410	Soil	2.8	31.6	0.37	85.2	0.005	2	1.88	0.005	0.11	<0.1	2.8	0.11	0.02	26	<0.1	0.03	7.5	2.96	<0.1	0.03
617411	Soil	3.9	36.9	0.65	141.1	0.004	2	2.24	0.004	0.14	<0.1	4.4	0.13	<0.02	18	<0.1	<0.02	7.1	2.59	<0.1	0.04
617412	Soil	8.4	18.1	0.23	147.8	0.002	4	1.10	0.004	0.14	<0.1	4.7	0.16	0.06	57	0.4	0.04	3.3	0.92	<0.1	0.07
617413	Soil	7.2	12.2	2.03	70.8	0.002	5	0.69	0.006	0.09	<0.1	3.0	0.13	0.03	137	0.4	0.04	2.0	0.73	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 5 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
617281	Soil	0.23	6.3	0.7	<0.05	1.9	24.92	27.7	0.03	<1	1.0	15.5	<10	<2
617282	Soil	0.05	2.1	1.9	<0.05	1.7	8.72	10.3	<0.02	<1	0.5	1.1	<10	<2
617283	Soil	0.07	1.8	2.2	<0.05	1.1	10.90	14.3	<0.02	<1	0.4	1.2	<10	<2
617284	Soil	0.12	7.7	2.9	<0.05	2.9	8.51	25.6	0.05	<1	1.1	37.5	<10	<2
617285	Soil	0.37	8.4	3.5	<0.05	0.6	2.56	9.8	0.02	<1	0.5	12.5	<10	<2
617286	Soil	0.07	3.4	1.6	<0.05	1.4	9.15	9.7	0.03	2	0.6	12.0	<10	<2
617997	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
617998	Soil	0.20	13.6	2.0	<0.05	1.6	9.10	18.6	0.05	<1	1.8	38.5	<10	<2
617999	Soil	0.25	16.1	4.5	<0.05	1.2	10.24	16.6	0.04	<1	1.7	30.6	<10	<2
618000	Soil	0.50	15.8	3.6	<0.05	0.9	5.09	10.2	0.03	<1	1.5	24.8	<10	<2
617301	Soil	0.18	14.5	1.2	<0.05	1.4	16.21	20.3	0.02	<1	1.8	32.5	<10	<2
617302	Soil	0.49	5.8	0.7	<0.05	1.3	9.41	22.4	<0.02	<1	0.7	14.7	<10	<2
617303	Soil	0.09	1.7	0.8	<0.05	0.4	8.50	10.1	<0.02	<1	0.3	2.3	<10	<2
617304	Soil	0.19	5.0	0.8	<0.05	2.2	9.78	21.2	0.03	<1	0.6	16.2	<10	2
617305	Soil	0.23	5.9	1.4	<0.05	4.3	9.61	17.0	0.02	<1	0.9	31.8	<10	<2
617306	Soil	0.17	6.1	1.2	<0.05	4.4	7.74	18.0	0.03	<1	0.8	37.1	<10	<2
617307	Soil	0.21	6.3	1.1	<0.05	2.5	12.60	18.6	0.05	<1	1.1	48.3	<10	<2
617401	Soil	0.59	19.7	2.3	<0.05	1.4	8.35	13.6	0.03	<1	2.0	33.9	<10	<2
617402	Soil	0.40	11.1	1.5	<0.05	1.9	10.94	20.8	0.03	<1	1.7	33.3	<10	<2
617403	Soil	0.31	11.4	2.0	<0.05	1.4	10.18	24.8	0.02	<1	1.5	29.4	<10	<2
617404	Soil	0.32	11.5	1.9	<0.05	1.5	10.12	29.0	0.04	<1	1.5	41.1	<10	<2
617405	Soil	0.40	16.6	2.5	<0.05	1.8	5.83	19.1	0.04	<1	2.1	56.1	<10	<2
617406	Soil	0.42	17.8	2.8	<0.05	2.0	3.61	10.6	0.05	<1	1.4	42.8	<10	<2
617407	Soil	0.53	15.7	1.8	<0.05	2.0	8.53	17.3	0.03	<1	1.4	36.4	<10	<2
617408	Soil	0.52	14.3	1.6	<0.05	2.2	14.98	23.6	0.04	<1	1.1	22.0	<10	<2
617409	Soil	0.48	18.0	1.5	<0.05	1.6	3.56	6.7	0.02	<1	1.1	36.7	<10	<2
617410	Soil	0.65	18.1	3.2	<0.05	1.7	3.21	7.0	0.03	<1	0.6	28.5	<10	<2
617411	Soil	0.38	16.0	1.4	<0.05	1.8	6.15	15.4	0.05	<1	1.6	37.2	<10	<2
617412	Soil	0.39	11.9	2.4	<0.05	2.5	14.02	23.6	0.04	<1	1.8	12.7	<10	<2
617413	Soil	0.14	5.8	0.7	<0.05	1.6	9.03	16.2	0.03	1	0.7	17.3	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
617414	Soil			0.30	23.19	19.80	69.0	99	22.5	9.3	315	2.87	6.3	0.8	0.3	2.6	79.8	0.11	0.23	0.29	13	1.03	0.048
617415	Soil			1.16	18.72	22.60	81.8	27	18.9	9.5	465	4.69	8.3	0.6	0.5	4.6	7.6	0.11	0.60	0.43	49	0.05	0.049
617416	Soil			0.96	20.50	26.18	79.2	52	17.8	9.6	591	3.16	7.0	0.7	<0.2	1.2	13.2	0.12	0.46	0.38	40	0.17	0.084
617417	Soil			0.45	29.07	52.07	69.9	38	25.6	24.5	1444	3.11	5.8	0.8	0.6	3.6	14.6	0.07	0.27	0.42	26	0.07	0.040
617418	Soil			0.58	21.15	28.05	78.7	93	19.0	15.8	814	3.07	3.7	1.9	0.8	2.0	44.5	0.09	0.21	0.35	26	0.64	0.097
617419	Soil			0.61	22.40	29.71	70.9	43	15.5	19.3	1310	5.70	6.6	0.4	0.3	3.1	4.5	0.07	0.27	0.49	36	0.02	0.059
617420	Soil			0.77	19.65	25.50	55.9	19	12.1	7.4	287	3.22	6.2	0.7	1.0	3.1	7.2	0.13	0.28	0.38	41	0.03	0.042
617421	Soil			0.60	18.59	20.76	74.0	47	18.7	10.4	511	3.58	7.0	0.9	0.4	3.4	15.8	0.12	0.32	0.37	37	0.16	0.051
617422	Soil			0.37	30.89	28.68	84.5	36	26.9	17.8	1645	3.88	4.0	0.8	<0.2	6.1	7.0	0.06	0.34	0.34	37	0.06	0.032
617423	Soil			0.54	20.48	21.63	70.2	28	20.1	11.7	601	3.38	7.6	0.9	0.3	3.1	11.8	0.16	0.41	0.31	31	0.18	0.047
617424	Soil			0.56	29.29	20.82	75.4	88	25.6	11.3	447	3.11	6.4	0.8	4.1	4.8	23.3	0.12	0.59	0.28	31	0.60	0.037
617425	Soil			0.52	29.28	25.47	89.4	88	25.8	12.2	1250	3.60	12.7	1.3	1.5	4.9	30.2	0.14	1.23	0.28	22	3.11	0.071
617426	Soil			0.56	21.39	24.12	71.6	126	17.6	8.1	696	3.42	10.9	1.9	0.8	1.7	42.1	0.23	1.08	0.27	26	1.25	0.088
617427	Soil			0.54	24.90	27.50	62.8	100	17.7	17.2	666	3.95	6.0	0.6	0.2	3.7	16.6	0.09	0.36	0.36	30	0.36	0.033
617428	Soil			0.66	33.24	20.68	89.8	152	25.9	11.4	354	3.11	11.8	1.9	1.8	3.2	17.5	0.18	0.82	0.30	29	1.03	0.052
617429	Soil			0.55	35.18	48.32	100.4	88	26.7	28.6	2154	6.49	6.7	0.6	0.6	3.7	4.9	0.22	0.23	0.43	36	0.02	0.068
617430	Soil			0.40	20.30	21.39	47.7	20	14.7	11.0	367	4.26	2.4	0.7	0.5	4.3	3.2	0.08	0.21	0.34	34	0.01	0.028
617431	Soil			0.64	23.38	25.19	132.6	142	22.2	9.7	853	3.17	16.8	1.2	2.0	2.4	46.4	0.29	2.04	0.27	18	2.68	0.093
617432	Soil			0.46	36.71	34.63	80.4	49	32.3	21.6	815	3.66	5.6	1.1	1.4	5.1	15.4	0.07	0.29	0.40	24	0.36	0.039
617433	Soil			0.30	20.84	34.90	92.1	157	23.8	11.0	625	3.00	8.1	1.4	0.9	3.5	56.5	0.15	0.58	0.36	13	1.23	0.057
617434	Soil			0.49	18.41	34.50	114.8	151	20.8	8.2	727	3.10	16.1	1.4	1.8	2.6	48.5	0.20	1.46	0.27	12	3.40	0.093
617435	Soil			0.41	25.23	26.62	91.8	170	27.6	12.3	396	3.38	6.1	0.8	0.6	3.7	81.3	0.09	0.24	0.36	13	0.78	0.048
617436	Soil			0.42	25.35	25.25	100.7	172	25.4	12.0	515	2.96	6.5	1.4	0.8	2.3	174.4	0.16	0.36	0.34	13	1.34	0.057
617437	Soil			0.44	19.96	31.65	58.7	135	12.4	14.4	495	3.07	6.0	1.0	<0.2	2.4	38.8	0.05	0.19	0.37	17	0.37	0.105
617438	Soil			0.42	19.43	21.20	110.0	78	22.6	12.9	644	2.91	11.5	1.1	1.0	3.3	27.0	0.21	0.73	0.27	20	0.70	0.057
1097634	Soil			0.49	35.94	28.07	82.1	59	31.0	24.6	2436	3.88	1.7	0.6	0.9	3.7	8.0	0.07	0.22	0.34	26	0.09	0.069
1097635	Soil			0.78	49.11	57.92	74.5	47	33.5	20.3	3127	3.73	4.8	1.2	0.6	4.6	10.7	0.12	0.42	0.38	30	0.14	0.041
1097636	Soil			0.69	52.27	82.49	94.1	118	31.7	69.7	3401	5.42	6.2	0.9	0.6	3.0	10.6	0.09	0.27	0.45	33	0.08	0.086
1097637	Soil			0.85	9.22	54.81	1428	96	10.2	5.5	2451	3.91	15.3	2.2	<0.2	1.4	47.1	3.85	1.92	0.15	17	8.52	0.121
1097638	Soil			0.51	22.80	16.10	66.6	126	23.7	10.3	438	2.79	6.8	2.2	<0.2	2.6	74.9	0.09	0.31	0.28	25	1.21	0.068



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
617414	Soil	8.9	16.2	0.41	93.0	0.001	3	1.22	0.004	0.08	<0.1	3.6	0.08	0.04	64	0.2	0.03	2.9	0.73	<0.1	0.05
617415	Soil	8.5	35.1	0.40	54.5	0.013	2	1.96	0.002	0.09	0.1	2.5	0.12	<0.02	39	0.3	0.03	7.3	2.72	<0.1	0.04
617416	Soil	8.5	28.8	0.31	133.1	0.007	2	1.70	0.004	0.10	0.1	1.7	0.12	0.05	24	0.2	0.05	6.4	2.45	<0.1	<0.02
617417	Soil	7.4	27.9	0.44	180.9	0.006	2	1.69	0.003	0.16	<0.1	3.6	0.20	0.02	16	<0.1	0.02	5.9	4.29	<0.1	<0.02
617418	Soil	6.4	28.7	0.42	202.9	0.005	3	1.60	0.005	0.13	<0.1	2.8	0.15	0.08	24	0.3	<0.02	6.2	2.57	<0.1	0.05
617419	Soil	4.1	32.3	0.29	54.6	0.003	<1	1.84	0.003	0.09	<0.1	2.5	0.09	<0.02	26	0.1	0.04	8.4	2.43	<0.1	0.04
617420	Soil	7.9	25.7	0.26	83.9	0.004	2	1.49	0.005	0.09	<0.1	2.4	0.11	<0.02	23	0.1	0.03	7.4	1.68	<0.1	<0.02
617421	Soil	6.8	28.5	0.35	105.2	0.003	1	1.77	0.004	0.09	<0.1	2.5	0.09	<0.02	24	0.1	0.03	6.8	1.71	<0.1	0.02
617422	Soil	3.9	32.5	0.49	247.8	0.005	2	1.96	0.004	0.14	<0.1	4.3	0.13	<0.02	24	<0.1	0.04	5.6	1.68	<0.1	0.04
617423	Soil	6.7	25.7	0.41	99.0	0.005	2	1.58	0.004	0.10	<0.1	2.6	0.10	<0.02	21	<0.1	0.02	5.4	1.29	<0.1	0.03
617424	Soil	10.6	26.5	0.69	141.2	0.013	2	1.59	0.010	0.10	<0.1	4.2	0.10	<0.02	41	0.1	0.03	4.6	1.35	<0.1	0.04
617425	Soil	12.0	24.5	1.99	151.1	0.005	3	1.41	0.006	0.10	<0.1	5.5	0.13	0.03	99	0.1	0.02	4.0	1.43	<0.1	0.07
617426	Soil	10.7	22.7	0.53	134.7	0.005	3	1.45	0.007	0.09	<0.1	3.2	0.10	0.07	86	0.4	<0.02	4.0	0.95	<0.1	0.04
617427	Soil	5.1	25.0	0.41	100.6	0.002	1	1.68	0.007	0.10	<0.1	3.6	0.13	<0.02	21	<0.1	0.03	7.1	1.92	<0.1	0.04
617428	Soil	11.4	27.9	0.52	103.7	0.006	4	1.46	0.002	0.13	<0.1	4.3	0.15	0.04	87	0.2	0.02	4.6	1.12	<0.1	0.05
617429	Soil	4.1	46.9	0.44	90.3	0.003	<1	2.86	0.005	0.10	<0.1	4.2	0.13	0.03	44	0.4	<0.02	8.8	3.02	<0.1	0.05
617430	Soil	2.7	28.3	0.27	57.2	0.005	1	1.81	0.005	0.11	<0.1	2.7	0.12	<0.02	13	0.1	<0.02	7.2	2.33	<0.1	0.03
617431	Soil	9.1	19.5	1.46	85.6	0.003	5	1.14	0.006	0.09	<0.1	3.7	0.10	0.04	169	0.2	0.03	3.0	0.72	<0.1	0.05
617432	Soil	6.2	30.7	0.59	156.4	0.004	2	1.88	0.003	0.18	<0.1	5.4	0.15	0.03	30	<0.1	<0.02	6.0	2.35	<0.1	0.05
617433	Soil	10.8	14.2	0.37	117.9	0.001	5	1.00	0.005	0.11	<0.1	4.3	0.09	0.04	181	0.4	<0.02	2.5	0.68	<0.1	0.06
617434	Soil	8.4	12.9	1.61	81.1	0.001	5	0.72	0.006	0.09	<0.1	3.6	0.10	0.04	227	0.4	0.03	1.9	0.64	<0.1	0.04
617435	Soil	4.8	16.6	0.36	84.9	0.001	3	1.03	0.003	0.09	<0.1	4.2	0.09	0.03	63	0.3	0.03	2.6	1.14	<0.1	0.08
617436	Soil	5.8	15.7	0.40	90.5	0.001	5	0.98	0.006	0.08	<0.1	3.5	0.09	0.06	77	0.5	0.05	2.6	1.00	<0.1	0.04
617437	Soil	4.7	13.9	0.21	67.1	0.002	2	0.89	0.004	0.08	<0.1	3.4	0.09	0.06	59	0.2	0.03	2.6	1.30	<0.1	0.04
617438	Soil	7.7	19.8	0.62	84.9	0.004	2	1.15	0.004	0.09	<0.1	3.4	0.09	0.03	76	0.2	0.03	3.6	0.77	<0.1	0.06
1097634	Soil	3.9	33.0	0.51	171.2	0.006	3	2.06	0.003	0.20	<0.1	4.0	0.15	0.04	50	0.4	<0.02	7.2	2.77	<0.1	0.03
1097635	Soil	7.6	31.0	0.56	301.6	0.010	3	1.63	0.003	0.12	<0.1	5.3	0.15	0.02	25	0.4	0.02	5.6	2.84	<0.1	<0.02
1097636	Soil	5.5	42.1	0.59	101.9	0.004	1	2.41	0.007	0.12	<0.1	6.5	0.16	0.05	71	0.3	0.04	8.6	5.01	<0.1	0.03
1097637	Soil	9.9	12.4	5.19	76.4	0.004	3	1.01	0.009	0.03	<0.1	2.0	0.19	0.04	975	0.5	0.06	2.2	0.57	<0.1	0.04
1097638	Soil	9.4	25.0	0.60	136.8	0.004	4	1.59	0.003	0.09	0.1	4.0	0.10	0.06	66	0.7	0.06	4.6	1.38	<0.1	0.09



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 08, 2011

Page: 6 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
617414	Soil	0.18	6.7	0.7	<0.05	1.6	10.95	18.7	0.03	<1	0.8	31.6	<10	<2
617415	Soil	0.83	16.5	1.8	<0.05	1.6	3.23	18.5	0.03	<1	0.7	31.3	<10	<2
617416	Soil	0.56	18.9	1.4	<0.05	0.3	6.53	18.5	0.03	<1	0.9	27.4	<10	<2
617417	Soil	0.20	21.5	1.5	<0.05	0.6	7.10	26.1	0.02	<1	1.8	34.3	<10	<2
617418	Soil	0.56	23.8	1.5	<0.05	1.3	8.38	17.4	0.04	<1	1.2	29.4	<10	<2
617419	Soil	0.44	14.6	1.7	<0.05	1.4	2.63	10.0	0.04	<1	0.7	22.7	<10	<2
617420	Soil	0.49	17.5	1.4	<0.05	0.7	3.17	16.9	0.03	<1	0.5	16.8	<10	<2
617421	Soil	0.41	13.8	1.3	<0.05	0.9	3.37	15.7	0.03	<1	1.0	35.1	<10	<2
617422	Soil	0.53	16.5	1.3	<0.05	1.3	3.92	11.2	0.04	<1	1.7	29.7	<10	<2
617423	Soil	0.44	13.0	1.1	<0.05	1.0	4.49	18.2	0.02	<1	0.7	28.9	<10	<2
617424	Soil	0.51	9.7	1.0	<0.05	2.0	9.04	20.4	0.03	<1	0.9	27.4	<10	<2
617425	Soil	0.27	10.5	0.9	<0.05	2.2	15.19	24.1	0.04	1	1.4	25.8	<10	<2
617426	Soil	0.52	9.0	0.9	<0.05	1.2	10.65	19.6	0.04	<1	0.9	22.9	<10	<2
617427	Soil	0.38	12.4	1.5	<0.05	1.3	6.76	13.8	0.02	<1	1.1	23.2	<10	<2
617428	Soil	0.56	13.1	0.8	<0.05	1.1	12.67	22.1	0.03	<1	1.0	20.5	<10	<2
617429	Soil	0.42	15.8	1.7	<0.05	1.8	4.56	11.4	0.05	<1	1.8	43.5	<10	<2
617430	Soil	0.56	16.4	3.1	<0.05	1.7	3.36	6.4	0.03	<1	0.6	16.8	<10	<2
617431	Soil	0.27	6.1	0.6	<0.05	1.6	11.61	19.3	0.03	<1	0.9	24.5	<10	<2
617432	Soil	0.41	16.9	2.8	<0.05	2.0	12.80	20.5	0.04	<1	1.7	28.0	<10	<2
617433	Soil	0.23	7.1	0.8	<0.05	2.0	12.97	26.2	0.02	<1	1.1	17.2	<10	<2
617434	Soil	0.15	5.8	1.2	<0.05	1.8	11.85	19.9	0.03	<1	0.8	12.4	<10	<2
617435	Soil	0.14	6.6	0.8	<0.05	2.8	7.26	12.7	0.05	<1	0.9	33.4	<10	<2
617436	Soil	0.18	6.9	0.7	<0.05	1.8	8.95	13.4	0.04	<1	0.8	31.5	<10	<2
617437	Soil	0.15	8.5	0.9	<0.05	1.1	4.70	12.3	0.03	<1	0.7	15.4	<10	<2
617438	Soil	0.30	6.7	0.9	<0.05	1.6	7.14	18.9	0.03	<1	0.8	23.5	<10	<2
1097634	Soil	0.49	22.9	1.5	<0.05	1.3	5.82	12.7	0.04	<1	2.2	31.4	<10	<2
1097635	Soil	0.27	13.3	1.5	<0.05	0.8	10.95	26.3	0.04	<1	2.2	26.6	<10	<2
1097636	Soil	0.27	17.3	1.0	<0.05	1.4	7.94	24.5	0.05	<1	3.4	37.9	<10	<2
1097637	Soil	0.20	4.6	0.8	<0.05	0.8	10.07	17.7	<0.02	<1	0.9	8.0	<10	<2
1097638	Soil	0.45	9.5	0.7	<0.05	2.6	9.62	23.1	0.02	<1	1.1	36.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 08, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	MDL	ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
1097639	Soil	0.49	37.85	18.86	85.3	161	33.0	12.2	259	2.88	6.7	2.6	1.8	4.0	90.1	0.14	0.29	0.27	20	1.32	0.044
1097640	Soil	0.50	31.04	19.92	74.4	143	29.2	11.5	330	3.11	8.8	1.6	3.9	3.8	65.1	0.10	0.32	0.31	22	0.79	0.032
1097641	Soil	0.49	29.71	23.50	88.7	164	28.1	12.4	443	2.82	8.2	1.4	1.3	2.6	58.2	0.17	0.47	0.27	18	1.29	0.063
1097642	Soil	0.67	52.03	71.53	100.6	105	29.4	41.9	1671	4.63	6.4	1.0	<0.2	5.0	9.2	0.07	0.25	0.48	27	0.04	0.045
1097643	Soil	0.62	26.66	30.40	99.3	90	16.3	11.1	899	3.58	4.0	0.5	<0.2	2.0	7.1	0.24	0.28	0.40	34	0.05	0.082
1097644	Soil	1.04	23.29	27.89	100.6	44	22.4	15.2	1101	3.90	6.6	0.7	<0.2	1.7	7.5	0.20	0.48	0.43	46	0.05	0.045
1097645	Soil	0.93	26.17	40.74	104.0	57	21.2	20.0	1606	4.50	7.0	0.6	<0.2	3.5	6.5	0.17	0.43	0.44	40	0.05	0.065
1097646	Soil	0.42	17.20	11.40	74.5	15	29.3	16.4	707	3.90	1.4	0.6	<0.2	4.6	16.8	0.05	0.14	0.25	20	0.05	0.020
1097647	Soil	1.41	20.52	22.53	106.3	99	20.4	10.6	635	3.87	9.3	0.7	<0.2	2.6	8.3	0.22	0.77	0.43	53	0.05	0.045
1097648	Soil	0.74	34.86	49.92	96.4	48	35.9	36.9	2335	3.90	5.4	1.2	0.5	5.2	13.2	0.05	0.33	0.53	29	0.08	0.043
1097649	Soil	1.06	35.69	53.30	100.5	57	26.0	30.9	1842	4.52	7.7	0.8	<0.2	2.4	8.4	0.16	0.46	0.44	36	0.05	0.067
1097650	Soil	0.63	33.40	44.65	94.1	29	32.1	28.2	1310	4.20	6.2	0.8	<0.2	5.1	14.6	0.11	0.28	0.40	33	0.10	0.031
1097651	Soil	0.67	25.03	22.73	87.8	46	18.6	16.6	770	3.83	4.6	0.6	0.2	3.5	8.5	0.16	0.28	0.41	31	0.03	0.055
1097652	Soil	0.46	31.81	47.27	86.2	49	27.4	23.4	1154	4.00	3.8	0.8	<0.2	4.3	8.6	0.08	0.21	0.43	31	0.06	0.046
1097653	Soil	0.90	23.73	52.36	100.4	89	21.7	36.2	863	3.23	6.0	0.6	<0.2	3.4	8.1	0.16	0.26	0.42	25	0.04	0.045
1097654	Soil	0.31	67.52	64.89	106.0	97	34.9	27.7	2645	3.73	3.1	1.0	<0.2	7.9	11.5	0.02	0.13	0.37	27	0.13	0.019
1097655	Soil	0.90	42.05	68.01	91.6	81	30.1	33.1	1603	4.26	8.7	1.0	0.8	4.8	16.3	0.07	0.41	0.52	31	0.06	0.047
1097656	Soil	0.82	44.65	67.34	93.3	219	27.8	36.5	3374	4.20	5.7	1.2	0.5	1.8	17.2	0.16	0.28	0.47	29	0.14	0.100
1097657	Soil	0.49	27.11	25.11	79.7	26	34.4	16.1	464	3.43	6.2	0.8	<0.2	5.3	18.5	0.08	0.25	0.39	32	0.08	0.022
1097658	Soil	0.62	26.86	31.82	80.3	64	23.3	21.3	1242	4.31	4.9	0.5	<0.2	3.5	7.2	0.08	0.24	0.34	33	0.04	0.041
1097659	Soil	0.87	26.68	21.19	69.3	84	11.2	11.8	666	7.15	4.6	0.5	<0.2	3.1	3.7	0.11	0.33	0.36	38	0.02	0.067
1097660	Soil	0.76	19.07	24.04	68.9	84	19.1	14.5	555	4.39	5.6	0.5	<0.2	2.9	7.3	0.10	0.36	0.33	41	0.04	0.032
617351	Soil	0.55	10.99	17.19	70.0	36	13.5	10.7	424	3.81	4.6	0.4	<0.2	3.3	4.3	0.08	0.25	0.40	32	0.03	0.034
617352	Soil	0.92	17.70	32.95	106.2	53	20.4	15.6	700	4.40	6.6	0.6	<0.2	5.0	5.4	0.15	0.38	0.39	37	0.03	0.039
617353	Soil	0.90	24.86	37.81	71.5	161	24.8	21.5	865	3.93	6.3	0.8	<0.2	3.4	5.8	0.11	0.46	0.40	32	0.04	0.046
617354	Soil	0.87	28.20	38.96	116.8	103	18.7	18.9	1936	6.50	6.2	0.5	<0.2	3.5	5.5	0.17	0.23	0.51	44	0.03	0.070
617355	Soil	0.72	26.08	28.77	94.8	95	23.9	18.3	819	5.17	6.5	0.5	0.3	3.6	6.0	0.14	0.25	0.42	36	0.04	0.041
617356	Soil	0.87	26.73	34.80	93.5	58	24.9	18.9	756	5.16	8.4	0.6	<0.2	3.3	5.2	0.09	0.80	0.42	37	0.03	0.045
617357	Soil	0.49	36.37	24.80	78.5	132	31.2	12.3	634	3.58	6.4	1.9	1.7	5.0	14.7	0.14	0.44	0.34	25	0.20	0.044
617358	Soil	0.45	22.42	24.70	88.3	61	25.1	15.7	754	3.47	6.3	0.9	2.4	3.3	16.8	0.11	0.39	0.37	28	0.20	0.047



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097639	Soil	12.9	28.4	0.86	83.9	0.002	4	1.56	0.002	0.11	0.1	5.1	0.09	0.04	110	0.6	0.03	4.2	1.22	<0.1	0.14
1097640	Soil	11.6	25.2	0.68	97.0	0.003	5	1.59	0.002	0.12	<0.1	5.5	0.08	0.03	58	0.6	<0.02	4.5	1.34	<0.1	0.07
1097641	Soil	9.1	19.1	0.75	90.1	0.004	4	1.14	0.003	0.10	<0.1	4.0	0.10	0.05	103	0.6	0.02	3.3	1.35	<0.1	0.04
1097642	Soil	7.3	36.1	0.48	110.1	0.003	<1	1.91	0.005	0.12	<0.1	6.2	0.15	0.02	29	0.1	<0.02	7.6	4.03	<0.1	<0.02
1097643	Soil	5.8	27.8	0.23	151.6	0.003	1	1.75	0.001	0.15	<0.1	1.9	0.12	0.06	44	0.4	0.04	8.0	1.35	<0.1	0.04
1097644	Soil	9.1	35.0	0.38	146.0	0.011	1	1.78	0.002	0.13	<0.1	2.5	0.13	0.03	42	0.3	0.05	7.3	2.36	<0.1	<0.02
1097645	Soil	6.2	31.7	0.27	103.9	0.005	2	2.02	0.002	0.13	<0.1	3.2	0.15	0.03	42	0.3	0.02	8.0	2.02	0.1	0.03
1097646	Soil	6.8	19.3	0.21	154.5	0.004	1	1.19	0.002	0.17	<0.1	4.2	0.16	<0.02	18	0.3	<0.02	4.7	2.88	<0.1	<0.02
1097647	Soil	11.0	33.6	0.35	108.7	0.022	2	1.80	<0.001	0.17	<0.1	2.6	0.17	0.03	45	0.5	<0.02	7.8	2.02	<0.1	<0.02
1097648	Soil	8.8	31.6	0.47	220.4	0.007	1	1.84	0.002	0.20	<0.1	5.4	0.24	0.02	37	0.4	0.05	6.8	5.55	<0.1	0.05
1097649	Soil	8.1	35.5	0.35	102.0	0.007	1	1.76	0.003	0.11	<0.1	3.6	0.13	0.03	40	0.4	0.05	7.4	3.40	<0.1	<0.02
1097650	Soil	10.2	39.0	0.59	88.6	0.006	2	1.93	0.004	0.10	<0.1	4.9	0.10	<0.02	17	0.2	0.04	8.3	3.04	<0.1	<0.02
1097651	Soil	6.3	30.8	0.30	142.2	0.004	2	1.79	0.002	0.14	<0.1	3.0	0.14	0.03	38	0.2	<0.02	7.7	3.55	<0.1	0.04
1097652	Soil	6.8	39.1	0.45	147.3	0.003	2	1.95	0.002	0.13	<0.1	3.8	0.12	0.02	31	0.2	0.02	7.8	4.52	<0.1	0.06
1097653	Soil	5.5	28.5	0.35	168.4	0.004	2	1.67	0.001	0.19	<0.1	2.9	0.20	0.03	25	0.3	<0.02	6.5	4.62	<0.1	0.05
1097654	Soil	11.3	37.6	0.67	369.6	0.012	2	1.89	0.002	0.16	<0.1	4.8	0.19	<0.02	20	0.2	<0.02	8.3	5.03	<0.1	0.05
1097655	Soil	8.9	35.8	0.48	207.5	0.006	2	1.99	0.003	0.18	<0.1	4.6	0.22	0.04	38	0.3	0.02	7.8	5.72	<0.1	0.05
1097656	Soil	9.7	38.2	0.42	200.0	0.005	2	1.90	0.005	0.16	<0.1	3.5	0.19	0.10	53	0.5	0.03	7.5	5.08	<0.1	0.05
1097657	Soil	11.8	39.6	0.59	134.3	0.006	<1	2.01	0.005	0.11	<0.1	4.4	0.11	0.02	15	0.3	0.03	7.3	2.30	<0.1	0.04
1097658	Soil	6.6	35.0	0.40	91.0	0.003	2	1.99	0.003	0.10	<0.1	3.4	0.11	<0.02	30	0.2	0.03	8.0	3.19	<0.1	0.06
1097659	Soil	4.2	30.1	0.18	58.9	0.003	<1	1.84	0.002	0.08	<0.1	2.7	0.13	0.03	40	0.2	0.04	10.0	2.44	<0.1	0.04
1097660	Soil	6.5	32.0	0.37	115.4	0.005	2	1.95	0.002	0.11	<0.1	3.3	0.10	<0.02	30	0.3	0.04	7.9	1.83	<0.1	0.02
617351	Soil	4.7	24.6	0.27	68.9	0.003	3	1.67	<0.001	0.12	<0.1	2.2	0.13	<0.02	18	0.3	<0.02	7.5	2.48	<0.1	0.04
617352	Soil	7.2	31.3	0.38	74.0	0.004	2	2.09	<0.001	0.11	<0.1	2.5	0.13	<0.02	28	0.6	<0.02	8.0	2.72	<0.1	0.07
617353	Soil	7.2	34.6	0.36	106.8	0.005	1	1.84	<0.001	0.10	<0.1	3.1	0.13	0.03	36	0.6	<0.02	6.5	2.43	0.1	0.07
617354	Soil	6.1	44.4	0.31	80.2	0.003	1	2.14	0.004	0.11	<0.1	3.3	0.09	0.03	30	0.3	0.02	10.5	2.90	<0.1	0.06
617355	Soil	6.1	38.1	0.37	95.0	0.003	1	1.99	0.003	0.10	<0.1	4.1	0.09	<0.02	21	0.4	0.04	8.3	2.47	<0.1	0.04
617356	Soil	5.6	36.0	0.42	80.1	0.004	2	2.09	0.002	0.12	<0.1	3.2	0.11	0.02	26	0.5	0.04	8.0	2.84	<0.1	0.04
617357	Soil	12.6	31.8	0.54	251.9	0.003	2	1.77	0.002	0.12	<0.1	6.3	0.11	0.02	47	0.7	<0.02	5.1	1.70	<0.1	0.07
617358	Soil	6.9	32.1	0.52	96.2	0.005	2	1.64	0.004	0.13	<0.1	4.0	0.12	0.03	21	0.3	<0.02	6.0	2.48	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 7 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1097639	Soil	0.26	8.1	1.6	<0.05	6.1	11.68	25.1	0.04	<1	1.4	40.5	<10	<2
1097640	Soil	0.29	9.1	0.7	<0.05	3.7	12.60	24.1	0.04	<1	1.4	43.1	<10	<2
1097641	Soil	0.25	8.2	1.1	<0.05	2.3	11.07	19.2	0.03	<1	1.2	28.9	<10	<2
1097642	Soil	0.11	17.2	0.9	<0.05	1.8	9.45	22.9	0.04	<1	1.7	29.2	<10	<2
1097643	Soil	0.48	20.7	1.3	<0.05	1.6	4.02	13.8	0.02	<1	0.6	22.0	<10	<2
1097644	Soil	0.47	18.9	1.2	<0.05	0.3	4.83	21.9	0.03	<1	0.8	25.1	<10	<2
1097645	Soil	0.64	23.1	1.8	<0.05	1.8	4.51	15.8	0.03	<1	1.3	25.3	<10	<2
1097646	Soil	0.14	23.6	0.8	<0.05	0.5	6.11	17.0	0.04	<1	1.5	16.4	<10	3
1097647	Soil	0.89	23.6	1.6	<0.05	0.2	3.59	25.3	0.02	<1	0.6	20.5	<10	<2
1097648	Soil	0.20	29.0	0.9	<0.05	1.3	14.90	33.2	0.03	<1	2.6	30.7	<10	<2
1097649	Soil	0.35	17.1	1.4	<0.05	0.6	6.64	24.2	0.03	<1	1.6	27.0	<10	<2
1097650	Soil	0.16	13.2	1.2	<0.05	1.2	7.44	29.1	0.04	<1	1.5	35.4	<10	<2
1097651	Soil	0.38	24.8	1.2	<0.05	1.4	4.09	14.7	0.03	<1	1.4	28.1	<10	<2
1097652	Soil	0.21	19.7	1.3	<0.05	2.0	5.96	20.1	0.03	<1	1.9	32.4	<10	<2
1097653	Soil	0.41	25.6	1.4	<0.05	1.5	3.50	15.9	0.03	<1	1.6	24.5	<10	<2
1097654	Soil	0.17	27.0	2.0	<0.05	2.7	15.13	34.3	0.03	<1	1.8	38.1	<10	<2
1097655	Soil	0.31	27.5	1.7	<0.05	1.6	9.03	27.8	0.03	<1	2.2	31.0	<10	<2
1097656	Soil	0.36	23.7	1.8	<0.05	1.1	15.86	31.8	0.04	<1	2.5	25.3	<10	<2
1097657	Soil	0.28	14.3	1.2	<0.05	1.4	7.37	28.7	0.03	<1	1.4	31.7	<10	<2
1097658	Soil	0.25	16.6	1.2	<0.05	1.3	3.83	17.9	0.04	<1	1.5	29.6	<10	<2
1097659	Soil	0.58	16.5	1.3	<0.05	2.1	2.60	8.9	0.04	<1	1.0	12.0	<10	<2
1097660	Soil	0.47	15.4	1.7	<0.05	1.0	3.07	14.1	0.03	<1	0.9	35.6	<10	<2
617351	Soil	0.42	20.7	1.4	<0.05	2.6	2.23	10.9	0.02	<1	0.9	19.5	<10	<2
617352	Soil	0.41	20.0	2.6	<0.05	2.8	2.72	16.6	0.02	<1	1.8	38.8	<10	<2
617353	Soil	0.51	15.5	2.3	<0.05	1.9	5.14	19.4	0.04	<1	1.2	26.9	<10	<2
617354	Soil	0.38	18.9	4.9	<0.05	1.9	3.69	13.9	0.05	<1	1.0	23.6	<10	<2
617355	Soil	0.39	16.4	2.5	<0.05	1.6	3.52	14.9	0.03	<1	1.1	31.7	<10	<2
617356	Soil	0.56	17.3	1.8	<0.05	1.8	3.03	13.1	0.03	<1	1.3	36.1	<10	<2
617357	Soil	0.38	12.6	1.3	<0.05	2.7	16.83	27.1	0.03	2	1.7	30.1	<10	<2
617358	Soil	0.35	14.7	2.2	<0.05	1.3	5.81	16.4	0.04	<1	1.3	27.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
Unit	MDL	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
617359	Soil	0.60	38.49	22.55	74.3	80	20.8	13.2	1301	2.94	4.2	1.0	0.5	2.7	14.8	0.18	0.30	0.32	26	0.40	0.055
617360	Soil	0.50	52.56	32.41	89.2	75	35.5	21.0	837	4.17	4.1	0.8	1.8	3.9	5.7	0.06	0.33	0.32	28	0.09	0.027
617361	Soil	0.43	24.48	20.81	68.8	20	21.2	11.6	458	3.62	7.5	0.7	1.2	2.9	4.3	0.06	0.46	0.30	24	0.04	0.028
617362	Soil	0.50	27.79	24.17	74.3	85	32.4	16.4	707	3.12	11.7	0.8	1.4	3.6	38.0	0.21	0.76	0.26	15	2.85	0.054
617363	Soil	0.43	32.00	22.58	91.1	69	29.0	13.2	522	3.24	8.3	0.8	0.3	3.2	41.5	0.13	0.42	0.23	16	1.61	0.053
1096528	Soil	0.60	29.51	21.84	77.1	37	23.4	22.0	1105	4.11	5.6	0.7	0.3	3.1	3.7	0.06	0.31	0.38	29	0.03	0.045
1096529	Soil	0.37	29.58	38.51	84.0	12	29.2	20.8	822	3.54	3.6	0.7	<0.2	2.9	6.5	0.07	0.20	0.33	26	0.05	0.029
1096530	Soil	0.67	23.86	17.17	70.9	53	12.4	7.7	394	3.86	4.7	0.5	<0.2	1.0	9.1	0.08	0.28	0.33	37	0.12	0.080
1096531	Soil	0.65	27.76	28.01	85.4	83	17.4	10.6	544	3.66	4.6	0.6	0.2	2.0	5.6	0.15	0.30	0.36	27	0.03	0.076
1096532	Soil	0.54	28.34	45.14	118.7	72	37.4	29.7	2445	4.31	3.7	1.0	1.5	2.2	10.1	0.07	0.21	0.27	37	0.16	0.086
1096533	Soil	0.55	50.70	51.95	109.3	52	32.0	39.2	1789	4.32	5.2	0.7	0.3	2.8	7.4	0.05	0.21	0.40	26	0.06	0.047
1096534	Soil	0.68	35.96	47.33	82.6	69	29.3	31.2	1543	4.08	5.9	0.8	0.3	2.7	7.9	0.09	0.26	0.35	27	0.06	0.050
1096535	Soil	0.59	35.24	51.19	89.5	23	33.3	41.4	1800	4.25	6.2	0.8	<0.2	3.6	10.6	0.04	0.25	0.33	30	0.07	0.039
1096536	Soil	0.69	46.64	27.39	73.9	117	29.1	23.1	1972	4.36	4.7	0.7	0.3	2.6	5.4	0.16	0.34	0.27	35	0.11	0.050
1096537	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1096538	Soil	1.12	21.35	15.50	83.2	60	15.5	12.3	712	4.06	6.8	0.5	0.2	2.2	3.7	0.10	0.54	0.34	53	0.03	0.040
1096539	Soil	0.74	43.43	50.32	79.6	61	26.6	63.5	2675	5.41	5.2	1.0	0.6	2.4	7.6	0.15	0.31	0.34	32	0.07	0.077
1096540	Soil	0.45	45.63	50.36	94.2	36	36.1	48.0	2147	5.71	2.8	0.5	0.2	3.5	4.2	0.07	0.16	0.38	29	0.03	0.032
1096541	Soil	0.48	24.21	27.68	70.1	81	18.3	24.8	2093	4.69	3.0	0.5	0.4	2.1	3.7	0.16	0.20	0.27	30	0.04	0.059
1096542	Soil	0.45	9.43	22.67	426.1	76	11.4	5.3	1468	2.58	14.2	1.4	1.1	1.0	39.6	0.80	1.83	0.12	12	8.25	0.094
1096543	Soil	0.50	18.66	16.64	80.7	85	18.9	8.8	644	2.51	8.7	1.7	<0.2	1.1	30.3	0.22	0.84	0.19	18	1.83	0.080
1096544	Soil	0.91	14.39	21.77	76.9	66	18.1	7.0	2995	6.49	24.3	3.8	1.3	1.4	17.6	0.22	2.56	0.16	16	5.16	0.106
1096545	Soil	0.50	19.87	23.88	112.8	130	24.0	8.6	760	3.11	10.7	1.0	0.9	1.9	39.3	0.14	1.36	0.21	8	3.43	0.059
1096546	Soil	0.55	13.93	21.29	164.6	102	15.3	5.4	1758	3.59	13.5	1.5	0.4	1.2	32.9	0.49	2.14	0.13	8	7.60	0.092
1096547	Soil	0.44	26.32	27.16	98.5	137	26.5	9.8	256	3.98	5.8	0.8	0.9	3.6	34.6	0.08	0.32	0.27	11	0.41	0.028
1096548	Soil	0.36	26.17	20.04	104.9	156	30.1	12.4	307	2.92	6.3	1.1	0.7	2.4	70.3	0.10	0.28	0.26	16	1.08	0.055
1096549	Soil	0.34	25.11	16.67	85.3	152	25.1	9.8	312	2.57	5.2	1.5	0.8	1.5	77.0	0.08	0.28	0.23	17	1.25	0.062
1096550	Soil	0.36	24.20	17.61	85.6	130	24.4	9.7	317	2.61	5.2	2.3	0.5	1.9	68.3	0.06	0.26	0.25	17	1.09	0.056
1097343	Soil	0.72	33.59	49.62	82.0	137	37.2	21.0	>10000	4.96	6.8	1.2	0.5	5.3	28.3	0.22	0.30	0.29	26	0.28	0.047
1097344	Soil	0.39	31.29	27.78	100.7	113	28.7	22.6	819	3.96	3.8	0.6	<0.2	3.2	4.8	0.09	0.20	0.33	25	0.03	0.049



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
617359	Soil	7.8	27.0	0.35	223.9	0.006	3	1.38	0.006	0.11	<0.1	4.5	0.12	0.05	40	0.4	0.02	5.2	2.43	<0.1	0.04
617360	Soil	4.0	31.2	0.68	141.6	0.006	4	1.77	0.004	0.10	<0.1	4.3	0.09	<0.02	20	0.2	<0.02	6.0	2.24	<0.1	0.03
617361	Soil	4.2	23.5	0.44	78.3	0.002	<1	1.53	0.001	0.08	<0.1	2.7	0.08	0.02	14	0.2	0.03	5.0	1.13	<0.1	0.05
617362	Soil	7.6	15.0	1.79	52.7	0.003	3	1.01	0.004	0.08	<0.1	4.7	0.11	0.06	71	0.3	0.03	2.5	0.91	<0.1	0.08
617363	Soil	7.1	17.5	1.01	65.8	0.004	4	1.10	0.003	0.08	<0.1	3.6	0.09	0.04	55	0.4	<0.02	3.2	1.25	<0.1	0.06
1096528	Soil	4.3	28.3	0.40	111.8	0.004	2	1.91	<0.001	0.11	<0.1	3.5	0.14	0.02	32	0.3	0.09	6.3	2.94	<0.1	0.09
1096529	Soil	4.8	30.6	0.52	112.4	0.004	1	1.74	0.002	0.09	<0.1	3.1	0.10	<0.02	27	0.3	<0.02	6.2	3.32	<0.1	0.04
1096530	Soil	3.9	27.4	0.22	66.6	0.004	<1	1.46	0.003	0.07	<0.1	1.4	0.09	0.04	31	0.2	<0.02	7.1	1.96	<0.1	0.02
1096531	Soil	3.5	25.8	0.30	70.3	0.003	1	1.62	0.002	0.08	<0.1	1.8	0.09	0.05	33	0.4	<0.02	6.0	2.08	<0.1	0.05
1096532	Soil	10.7	41.6	0.70	182.3	0.020	2	2.17	0.004	0.15	<0.1	3.7	0.15	0.07	142	0.6	<0.02	7.8	2.77	<0.1	0.04
1096533	Soil	5.6	33.2	0.49	101.6	0.003	<1	1.78	0.003	0.08	<0.1	5.0	0.13	<0.02	35	0.4	<0.02	6.6	3.63	<0.1	0.03
1096534	Soil	5.3	31.6	0.50	113.8	0.004	<1	1.79	0.004	0.09	<0.1	5.5	0.11	0.03	25	0.2	0.05	5.5	2.56	<0.1	0.05
1096535	Soil	6.1	32.0	0.57	78.6	0.004	2	1.80	0.003	0.08	<0.1	4.5	0.15	<0.02	32	0.2	<0.02	6.8	3.79	<0.1	0.05
1096536	Soil	3.6	32.5	0.44	133.8	0.007	<1	1.85	0.004	0.11	<0.1	2.8	0.09	0.03	37	0.2	0.05	5.7	2.46	<0.1	<0.02
1096537	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1096538	Soil	5.9	28.3	0.29	57.1	0.007	2	1.68	0.002	0.07	0.1	2.3	0.10	0.02	38	0.2	0.05	7.6	1.80	<0.1	0.03
1096539	Soil	5.2	40.5	0.51	69.2	0.005	2	2.06	0.004	0.08	<0.1	5.3	0.11	0.04	55	0.3	0.05	7.0	3.49	<0.1	0.03
1096540	Soil	2.9	41.9	0.68	174.3	0.004	2	2.47	0.003	0.09	<0.1	5.1	0.12	<0.02	18	0.1	0.05	8.2	3.49	<0.1	0.05
1096541	Soil	2.6	29.6	0.34	116.0	0.005	1	1.60	0.005	0.10	<0.1	3.3	0.10	0.04	52	0.1	<0.02	7.0	1.78	<0.1	0.04
1096542	Soil	7.2	10.0	5.90	45.6	0.003	5	0.66	0.009	0.03	<0.1	1.7	0.05	0.11	465	0.4	0.07	1.7	0.38	<0.1	0.02
1096543	Soil	7.2	18.3	0.63	113.8	0.004	2	1.12	0.005	0.05	<0.1	2.2	0.06	0.10	85	0.3	0.07	3.0	0.53	<0.1	0.06
1096544	Soil	8.6	13.9	3.06	89.6	0.003	2	1.06	0.008	0.04	<0.1	2.5	0.07	0.10	122	0.4	0.04	2.3	0.39	<0.1	0.06
1096545	Soil	5.2	8.0	1.69	31.4	0.001	2	0.45	0.004	0.07	<0.1	2.7	0.14	0.07	179	0.3	<0.02	1.3	0.56	<0.1	0.03
1096546	Soil	6.9	7.6	4.83	43.7	0.002	5	0.40	0.009	0.05	<0.1	1.8	0.09	0.11	193	0.6	0.05	1.0	0.40	<0.1	0.03
1096547	Soil	3.8	12.4	0.27	55.5	0.001	2	0.75	0.002	0.05	<0.1	3.3	0.10	0.04	68	0.4	0.05	1.9	1.17	<0.1	0.05
1096548	Soil	6.4	17.7	0.48	77.3	0.003	2	1.07	0.003	0.07	<0.1	4.5	0.07	0.05	68	0.5	0.03	3.0	1.49	<0.1	0.11
1096549	Soil	7.5	18.4	0.51	82.1	0.003	5	1.09	0.004	0.06	<0.1	3.8	0.06	0.06	64	0.4	<0.02	3.0	1.25	<0.1	0.06
1096550	Soil	7.6	19.6	0.51	78.9	0.003	2	1.10	0.002	0.06	<0.1	3.5	0.05	0.06	61	0.5	0.04	3.2	1.00	<0.1	0.06
1097343	Soil	15.4	28.2	0.57	338.4	0.003	<1	2.25	0.002	0.10	<0.1	8.1	0.13	0.03	63	0.8	0.04	5.6	1.57	<0.1	0.10
1097344	Soil	3.6	36.7	0.45	80.9	0.008	3	1.65	0.002	0.13	<0.1	3.1	0.11	0.03	30	0.2	<0.02	7.1	3.56	<0.1	0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
617359	Soil	0.61	12.8	1.1	<0.05	1.0	11.44	18.5	0.03	<1	1.3	19.4	<10	<2
617360	Soil	0.30	11.0	4.1	<0.05	1.2	7.79	13.9	0.03	<1	1.0	29.9	<10	<2
617361	Soil	0.26	9.4	0.5	<0.05	1.6	3.82	10.9	0.02	2	1.1	27.5	<10	<2
617362	Soil	0.16	4.8	0.6	<0.05	2.6	11.11	18.1	0.03	<1	0.9	21.3	<10	<2
617363	Soil	0.23	5.7	0.5	<0.05	2.5	8.86	16.1	0.03	<1	0.5	29.3	<10	<2
1096528	Soil	0.28	17.8	0.8	<0.05	1.8	5.42	14.0	0.03	3	1.8	32.7	<10	<2
1096529	Soil	0.18	12.1	0.7	<0.05	1.6	5.44	16.3	0.04	2	1.6	34.9	<10	<2
1096530	Soil	0.43	14.5	0.9	<0.05	0.6	4.65	10.8	<0.02	<1	0.9	10.9	<10	<2
1096531	Soil	0.28	14.6	0.8	<0.05	1.4	2.78	9.1	0.04	2	1.4	21.0	<10	<2
1096532	Soil	0.51	18.6	1.2	<0.05	0.4	19.65	42.0	0.03	<1	1.3	41.1	<10	<2
1096533	Soil	0.11	12.6	0.9	<0.05	1.0	9.39	24.9	0.06	<1	3.5	37.6	<10	<2
1096534	Soil	0.16	12.1	1.2	<0.05	1.4	9.59	19.2	0.04	<1	2.7	31.3	<10	<2
1096535	Soil	0.16	12.1	1.0	<0.05	1.0	6.44	24.5	0.02	<1	1.8	36.1	<10	<2
1096536	Soil	0.51	14.3	0.9	<0.05	1.0	3.45	10.5	0.03	<1	1.2	30.0	<10	<2
1096537	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1096538	Soil	0.76	12.9	0.9	<0.05	0.8	2.49	13.7	0.03	<1	0.2	26.6	<10	<2
1096539	Soil	0.33	11.3	1.1	<0.05	1.1	5.66	20.9	0.05	<1	3.1	30.4	<10	<2
1096540	Soil	0.14	13.4	1.3	<0.05	1.8	5.71	14.1	0.03	<1	1.8	47.3	<10	<2
1096541	Soil	0.47	13.7	0.9	<0.05	1.0	3.82	7.3	<0.02	2	1.2	15.4	<10	<2
1096542	Soil	0.12	3.3	1.3	<0.05	1.0	8.83	14.1	<0.02	<1	1.1	10.3	<10	<2
1096543	Soil	0.34	4.6	0.4	<0.05	1.8	8.06	17.8	<0.02	2	0.5	19.8	<10	<2
1096544	Soil	0.15	4.3	0.9	<0.05	1.7	13.24	17.8	<0.02	<1	0.9	9.8	<10	<2
1096545	Soil	0.05	4.3	0.8	<0.05	1.0	9.07	15.1	0.04	<1	0.5	5.2	<10	<2
1096546	Soil	0.06	3.4	0.6	<0.05	1.2	10.24	16.0	<0.02	<1	0.2	3.7	<10	<2
1096547	Soil	0.07	4.3	0.4	<0.05	2.2	5.83	10.2	0.03	<1	1.0	18.3	<10	<2
1096548	Soil	0.21	6.4	0.4	<0.05	2.7	8.57	16.0	0.04	5	1.4	31.8	<10	<2
1096549	Soil	0.27	6.5	0.3	<0.05	2.3	9.70	15.8	0.03	<1	0.7	32.0	<10	<2
1096550	Soil	0.25	5.8	0.4	<0.05	2.7	9.64	16.2	<0.02	2	1.2	30.5	<10	<2
1097343	Soil	0.15	9.6	1.2	<0.05	3.7	53.30	46.1	0.03	3	2.2	37.6	<10	<2
1097344	Soil	0.40	18.4	1.8	<0.05	2.0	4.10	9.8	<0.02	4	1.2	31.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1097345	Soil			0.58	31.43	53.51	78.7	48	26.2	33.8	2744	4.20	4.8	0.9	0.4	2.5	7.9	0.05	0.27	0.40	29	0.04	0.050
1097346	Soil			0.61	18.33	16.04	79.9	43	13.4	8.7	441	3.76	4.6	0.4	<0.2	3.3	4.3	0.13	0.33	0.32	35	0.03	0.034
1097347	Soil			0.60	24.48	19.41	78.9	97	18.6	12.6	621	4.23	6.7	0.7	0.4	2.6	6.4	0.13	0.41	0.32	35	0.07	0.050
1097348	Soil			0.58	30.09	33.78	87.6	38	21.4	18.8	812	5.00	6.6	0.4	0.3	2.7	4.3	0.08	0.27	0.37	33	0.02	0.048
1097349	Soil			0.93	21.20	25.92	89.5	16	24.7	14.2	677	4.26	9.3	0.6	<0.2	3.9	5.3	0.19	0.78	0.31	42	0.04	0.035
1097350	Soil			0.50	25.02	31.63	100.2	42	25.6	16.4	869	4.97	8.4	0.8	<0.2	3.8	4.4	0.15	0.78	0.29	28	0.04	0.041
617901	Soil			0.84	22.71	60.05	83.4	25	25.0	16.8	794	3.25	6.1	0.7	0.3	3.2	5.5	0.10	0.43	0.26	39	0.04	0.017
617902	Soil			1.05	29.35	25.68	74.8	39	22.5	20.1	1499	3.52	8.1	0.8	2.6	2.3	7.0	0.12	0.62	0.50	26	<0.01	0.056
617903	Soil			1.07	35.14	41.73	97.0	63	21.6	18.9	4020	4.90	10.3	1.0	2.0	3.1	7.3	0.23	0.50	0.57	28	0.02	0.079
617904	Soil			0.91	43.36	78.92	160.0	102	46.3	54.5	5124	5.13	10.7	1.7	2.0	6.2	18.8	0.09	0.34	0.56	16	0.06	0.046
617201	Soil			0.84	25.70	61.74	52.4	195	24.6	12.7	1834	4.36	24.8	1.6	2.9	2.6	20.9	0.22	3.89	0.40	21	3.46	0.162
617202	Soil			0.79	19.31	33.92	66.1	190	20.7	9.3	3306	5.45	22.4	1.6	3.3	1.3	16.6	0.41	3.41	0.27	23	4.38	0.190
617203	Soil			1.15	25.80	50.85	98.8	223	26.1	11.1	2950	6.32	48.1	2.5	5.2	2.7	12.0	0.39	5.94	0.35	34	1.81	0.135
617204	Soil			0.53	10.08	14.14	60.5	78	10.8	4.0	1054	1.99	8.5	1.0	0.6	0.6	34.8	0.20	1.13	0.15	11	8.25	0.110
617205	Soil			0.82	28.24	32.46	122.6	240	34.7	12.7	624	4.07	8.0	1.2	0.6	4.5	90.3	0.29	0.47	0.41	12	0.80	0.072
617206	Soil			1.18	26.94	33.56	84.2	329	28.1	11.7	239	3.93	9.2	1.0	3.7	2.7	18.5	0.11	0.64	0.36	21	0.02	0.057
617287	Soil			0.77	43.15	53.16	94.2	50	35.2	29.7	1071	4.39	6.5	0.9	1.1	3.6	10.1	0.10	0.34	0.52	23	0.03	0.043
617288	Soil			0.73	51.36	91.55	99.6	46	41.6	35.4	1883	5.67	5.0	0.9	1.1	3.7	20.3	0.09	0.25	0.50	22	0.08	0.050
617289	Soil			0.74	25.87	15.62	63.7	20	24.5	10.0	365	3.00	4.8	0.7	0.4	2.1	8.2	0.06	0.51	0.27	26	0.05	0.043
617290	Soil			1.30	30.67	18.66	87.2	56	30.6	11.7	352	3.09	10.0	0.9	2.1	3.8	10.9	0.21	1.01	0.28	35	0.04	0.034
617291	Soil			0.91	46.18	75.59	102.7	105	38.8	52.0	4485	4.57	8.9	1.3	0.9	3.9	19.9	0.15	0.48	0.48	24	0.07	0.080
617292	Soil			0.39	50.26	45.56	119.0	31	42.9	32.0	958	5.28	6.1	0.8	0.6	5.2	7.0	0.04	0.20	0.61	25	<0.01	0.035
617293	Soil			0.47	30.06	28.94	100.0	100	28.8	18.6	1012	4.14	4.1	0.6	0.5	3.2	8.0	0.09	0.13	0.45	23	0.02	0.068
617294	Soil			0.67	19.86	27.11	151.6	158	18.1	15.5	878	4.78	6.0	0.5	0.5	2.3	7.3	0.30	0.37	0.51	26	0.03	0.086
617295	Soil			0.55	35.04	47.02	102.0	268	33.6	24.0	1122	3.72	5.6	0.9	0.9	5.3	14.8	0.04	0.21	0.57	19	0.03	0.027
617296	Soil			0.56	13.67	27.62	55.4	62	16.1	9.4	422	3.72	5.8	0.3	0.3	2.6	11.4	0.05	0.34	0.31	14	0.08	0.055
617297	Soil			0.43	21.28	42.97	53.2	88	11.1	4.9	233	4.18	8.1	0.4	<0.2	1.9	9.7	0.03	0.35	0.48	7	0.02	0.062
617298	Soil			0.73	42.24	47.87	171.5	295	70.2	27.3	1018	5.07	9.7	1.2	0.5	7.2	82.4	0.21	0.31	0.53	8	0.62	0.034
617299	Soil			0.38	31.27	40.50	138.6	187	42.3	18.0	572	4.46	8.5	0.7	0.8	6.7	108.9	0.13	0.22	0.56	9	1.67	0.047
617300	Soil			0.55	21.36	56.11	217.6	164	25.7	8.9	2944	6.20	29.7	1.2	2.5	1.3	26.3	0.66	2.51	0.34	13	3.71	0.198



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 08, 2011

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15		
				La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
				ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02		
1097345	Soil			5.3	30.1	0.39	150.4	0.005	2	1.74	0.002	0.14	<0.1	3.5	0.16	0.03	23	0.3	<0.02	6.1	5.11	<0.1	0.04
1097346	Soil			4.4	23.1	0.22	77.6	0.002	1	1.56	0.002	0.08	<0.1	1.9	0.11	<0.02	26	0.2	0.02	7.0	2.11	<0.1	0.07
1097347	Soil			5.2	27.3	0.32	70.4	0.004	1	1.71	0.003	0.07	<0.1	2.7	0.09	0.02	19	0.2	0.03	6.5	2.21	<0.1	0.03
1097348	Soil			3.9	33.4	0.35	56.8	0.002	<1	1.86	0.003	0.06	<0.1	3.1	0.08	0.02	32	0.1	0.05	7.3	2.94	<0.1	0.03
1097349	Soil			7.7	29.8	0.40	77.7	0.009	<1	1.81	0.003	0.08	0.1	2.9	0.10	<0.02	40	0.4	<0.02	5.9	2.05	<0.1	0.05
1097350	Soil			5.5	29.2	0.42	73.3	0.002	2	1.86	0.003	0.07	<0.1	3.1	0.09	<0.02	39	0.3	0.02	5.2	1.33	<0.1	0.09
617901	Soil			8.4	31.2	0.49	97.0	0.016	1	1.78	0.002	0.06	<0.1	2.8	0.12	<0.02	21	0.4	0.02	6.4	2.04	<0.1	<0.02
617902	Soil			6.7	28.0	0.38	89.5	0.010	2	1.72	0.002	0.07	<0.1	3.8	0.13	0.04	20	0.4	0.02	5.6	3.01	<0.1	<0.02
617903	Soil			10.3	34.4	0.26	139.3	0.004	1	1.75	0.003	0.08	<0.1	4.2	0.17	0.03	49	0.4	0.04	8.1	2.76	<0.1	0.04
617904	Soil			11.2	30.7	0.48	207.5	0.003	<1	1.73	<0.001	0.07	<0.1	7.6	0.19	<0.02	50	0.2	<0.02	6.0	2.79	<0.1	0.03
617201	Soil			23.3	21.3	1.97	73.5	0.005	2	1.11	0.005	0.04	<0.1	4.3	0.18	0.04	387	0.5	0.04	2.5	0.32	<0.1	0.06
617202	Soil			14.9	20.8	2.63	120.2	0.007	4	1.20	0.005	0.03	<0.1	2.3	0.14	0.06	176	0.5	0.04	2.6	0.37	<0.1	0.05
617203	Soil			19.2	34.3	1.14	134.6	0.007	2	1.68	0.003	0.03	0.1	4.7	0.18	0.05	526	0.6	0.06	4.1	0.94	<0.1	0.06
617204	Soil			6.0	10.3	5.52	58.1	0.005	2	0.66	0.010	0.02	<0.1	1.2	0.06	0.08	82	0.5	0.02	1.5	0.47	<0.1	0.03
617205	Soil			14.8	18.0	0.27	120.4	0.004	2	1.21	0.003	0.05	<0.1	5.2	0.15	0.03	73	0.4	0.03	3.1	3.05	<0.1	0.03
617206	Soil			5.5	20.1	0.20	59.5	0.006	2	1.23	0.003	0.04	<0.1	2.7	0.13	0.03	63	0.4	<0.02	3.9	3.15	<0.1	<0.02
617287	Soil			6.6	39.2	0.57	76.6	0.004	1	2.18	0.006	0.08	<0.1	6.5	0.12	<0.02	22	0.2	<0.02	7.9	2.53	<0.1	0.04
617288	Soil			5.3	46.1	0.76	78.8	0.006	1	2.46	0.003	0.08	<0.1	7.5	0.15	<0.02	23	0.2	<0.02	9.3	4.90	<0.1	0.03
617289	Soil			6.7	29.2	0.46	76.6	0.018	2	1.53	0.002	0.07	<0.1	2.4	0.11	<0.02	11	0.2	0.02	4.8	1.96	<0.1	<0.02
617290	Soil			12.6	31.5	0.56	133.3	0.026	2	1.72	0.002	0.06	0.2	3.0	0.12	<0.02	24	0.3	0.02	5.1	1.47	<0.1	<0.02
617291	Soil			11.3	39.9	0.55	159.3	0.010	3	1.99	0.004	0.15	<0.1	7.2	0.20	0.02	72	0.3	<0.02	7.9	5.88	<0.1	0.02
617292	Soil			5.6	49.7	0.64	93.9	0.003	<1	2.57	0.002	0.09	<0.1	5.0	0.12	<0.02	16	0.2	<0.02	9.2	5.14	<0.1	0.08
617293	Soil			4.9	40.3	0.48	125.4	0.002	<1	1.88	0.004	0.12	<0.1	3.2	0.09	0.02	36	0.1	<0.02	8.1	2.25	<0.1	0.04
617294	Soil			5.2	32.4	0.32	124.1	0.004	<1	1.72	0.001	0.12	<0.1	2.0	0.08	0.03	37	0.3	<0.02	7.8	1.40	<0.1	0.03
617295	Soil			9.1	35.2	0.56	154.6	0.007	1	1.74	0.002	0.16	<0.1	5.5	0.15	<0.02	24	<0.1	<0.02	7.3	2.63	<0.1	0.03
617296	Soil			4.6	21.9	0.32	138.3	0.003	<1	1.27	<0.001	0.12	<0.1	1.8	0.08	<0.02	19	0.1	<0.02	4.8	1.05	<0.1	0.02
617297	Soil			5.2	9.2	0.05	72.0	<0.001	<1	0.49	<0.001	0.05	<0.1	1.5	0.14	0.02	25	0.4	0.04	1.8	1.55	<0.1	0.04
617298	Soil			10.0	19.1	0.30	164.5	0.003	6	1.27	0.005	0.13	<0.1	7.4	0.29	0.06	138	0.7	0.02	3.4	3.62	<0.1	0.12
617299	Soil			11.6	18.0	0.30	159.7	0.004	6	1.14	0.003	0.17	<0.1	7.3	0.25	0.05	100	0.4	<0.02	3.3	3.41	<0.1	0.09
617300	Soil			10.9	16.0	1.83	144.3	0.002	5	0.89	0.003	0.06	<0.1	2.5	0.17	0.08	254	0.8	0.04	2.2	0.67	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 9 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1097345	Soil	0.23	21.6	1.2	<0.05	1.2	7.30	20.1	0.04	<1	2.9	27.9	<10	<2
1097346	Soil	0.37	15.3	1.2	<0.05	2.5	2.72	10.6	<0.02	<1	1.1	23.1	<10	<2
1097347	Soil	0.49	15.1	0.7	<0.05	1.4	4.10	13.4	0.05	<1	1.5	28.7	<10	<2
1097348	Soil	0.29	12.0	1.4	<0.05	1.5	3.14	11.0	0.03	2	1.6	28.7	<10	<2
1097349	Soil	0.57	11.8	0.8	<0.05	2.4	3.66	19.5	<0.02	<1	0.8	30.8	<10	<2
1097350	Soil	0.36	10.5	1.0	<0.05	2.3	4.20	18.6	0.03	<1	1.9	38.4	<10	<2
617901	Soil	0.37	11.5	0.6	<0.05	0.8	6.23	22.9	<0.02	<1	1.1	26.7	<10	<2
617902	Soil	0.37	16.8	1.0	<0.05	0.7	5.82	17.6	0.06	<1	1.2	26.5	<10	<2
617903	Soil	0.40	22.3	1.3	<0.05	1.4	14.14	26.4	0.04	<1	1.1	22.0	<10	<2
617904	Soil	0.11	11.8	1.5	<0.05	1.5	15.63	56.3	0.06	<1	2.1	42.1	<10	<2
617201	Soil	0.23	5.6	0.8	<0.05	1.7	19.74	33.3	0.05	<1	1.1	8.4	<10	<2
617202	Soil	0.26	5.5	0.5	<0.05	1.7	17.84	25.7	0.03	<1	0.7	7.1	<10	<2
617203	Soil	0.37	8.3	0.8	<0.05	1.9	29.00	32.0	0.04	<1	1.2	13.7	<10	<2
617204	Soil	0.19	3.8	0.9	<0.05	1.0	7.03	12.2	<0.02	<1	0.4	8.3	<10	<2
617205	Soil	0.28	9.8	0.7	<0.05	1.2	18.17	44.4	0.05	<1	1.4	37.7	<10	<2
617206	Soil	0.51	8.8	1.5	<0.05	1.1	4.50	12.1	0.05	<1	0.8	25.3	<10	<2
617287	Soil	0.22	11.9	1.7	<0.05	1.9	9.11	19.1	0.05	<1	1.5	41.8	<10	<2
617288	Soil	0.23	15.7	4.4	<0.05	1.6	8.65	22.7	0.05	<1	1.9	55.7	<10	2
617289	Soil	0.43	12.6	0.9	<0.05	0.2	4.40	14.1	<0.02	<1	0.7	24.3	<10	<2
617290	Soil	0.55	10.3	0.9	<0.05	0.4	4.98	29.6	0.03	<1	0.9	26.8	<10	<2
617291	Soil	0.36	24.6	3.0	<0.05	0.9	14.66	40.7	0.05	<1	2.2	39.1	<10	<2
617292	Soil	0.24	15.8	1.5	<0.05	2.6	6.12	18.3	0.06	<1	2.4	53.0	<10	<2
617293	Soil	0.38	20.0	1.3	<0.05	1.6	3.86	13.0	0.04	<1	1.3	34.6	<10	<2
617294	Soil	0.62	16.7	2.0	<0.05	1.0	2.94	11.4	0.05	<1	0.9	24.2	<10	<2
617295	Soil	0.22	17.6	1.8	<0.05	1.6	15.67	26.4	0.04	<1	1.6	32.5	<10	<2
617296	Soil	0.31	15.9	1.0	<0.05	1.0	2.79	10.7	0.02	<1	0.8	27.6	<10	<2
617297	Soil	0.03	7.6	1.0	<0.05	1.5	4.35	12.0	0.04	<1	0.5	4.7	<10	<2
617298	Soil	0.17	13.7	1.7	<0.05	5.0	20.24	30.6	0.06	<1	1.7	44.2	<10	<2
617299	Soil	0.24	15.3	1.4	<0.05	3.4	16.99	32.7	0.05	<1	1.3	32.6	<10	<2
617300	Soil	0.12	6.4	0.7	<0.05	1.4	16.31	21.0	0.04	<1	1.1	4.5	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
617308	Soil			0.75	65.13	105.3	105.8	460	25.6	13.1	534	10.84	15.5	0.8	2.6	8.3	17.2	0.10	0.53	0.56	13	0.02	0.079
617309	Soil			0.73	27.03	39.84	154.9	95	30.2	15.8	678	3.82	8.4	0.9	0.6	2.4	12.0	0.15	0.37	0.50	12	0.06	0.082
617310	Soil			0.39	10.48	17.39	57.3	89	9.8	4.4	4406	4.52	16.5	1.9	2.8	0.4	29.5	0.31	1.42	0.12	11	8.89	0.175
617311	Soil			0.13	6.70	15.80	14.0	58	5.7	2.7	2242	2.54	10.1	1.5	6.6	0.4	30.2	0.09	1.33	0.06	3	13.58	0.108
617312	Soil			0.19	8.94	11.98	59.2	55	8.3	4.8	966	1.62	7.2	0.9	2.8	0.5	28.0	0.20	1.16	0.09	6	11.95	0.118
617313	Soil			0.21	14.19	30.81	22.2	63	17.4	8.8	2156	2.08	16.5	0.9	7.9	0.6	53.1	0.13	1.87	0.17	8	10.01	0.127
617314	Soil			0.24	13.95	19.62	42.3	67	13.0	8.4	1240	2.17	14.6	0.9	3.2	1.2	41.5	0.13	1.67	0.21	8	9.41	0.132
617315	Soil			0.68	43.99	26.84	73.8	42	29.6	18.3	1050	3.58	4.7	0.8	1.7	3.3	11.7	0.05	0.43	0.35	23	0.13	0.059
617316	Soil			1.20	39.88	21.93	90.7	39	28.3	13.3	866	3.42	8.9	0.8	1.0	2.6	8.9	0.25	0.79	0.36	30	0.02	0.037
617317	Soil			0.51	51.60	43.46	88.6	33	37.8	22.7	1115	4.18	3.3	0.8	1.1	4.8	10.3	0.05	0.33	0.52	24	0.04	0.041
617318	Soil			0.66	32.45	36.07	110.0	141	26.9	18.8	979	5.34	6.7	0.7	0.7	2.6	11.2	0.24	0.27	0.53	24	0.20	0.096
617319	Soil			0.59	30.27	41.36	103.8	117	27.6	25.5	1663	4.22	6.9	0.8	0.5	4.1	8.9	0.09	0.27	0.52	25	<0.01	0.047
617320	Soil			0.42	24.67	33.76	81.3	150	27.9	16.8	736	3.77	7.7	0.6	0.6	5.7	6.2	0.04	0.38	0.42	16	<0.01	0.028
617321	Soil			0.60	32.03	39.64	118.1	285	34.5	14.6	723	3.84	7.0	0.7	3.5	3.3	119.8	0.21	0.30	0.47	8	1.99	0.071
617322	Soil			0.32	29.10	37.35	136.9	120	35.1	16.0	886	4.57	7.2	0.8	1.3	7.0	28.0	0.13	0.24	0.55	13	0.19	0.034
617323	Soil			0.44	7.90	13.25	37.7	76	8.2	3.7	2919	2.78	13.2	1.1	3.3	0.2	35.1	0.20	1.54	0.13	12	14.33	0.153
617324	Soil			1.00	14.65	43.60	102.4	145	21.8	7.0	679	2.51	11.9	0.9	1.6	2.1	4.9	0.09	1.72	0.31	9	0.74	0.047
617325	Soil			0.53	14.71	16.30	90.5	72	18.7	10.3	2773	5.13	14.5	0.7	2.9	0.9	9.5	0.35	1.20	0.26	28	1.07	0.146
617326	Soil			0.23	9.56	4.01	13.2	15	22.6	14.6	441	2.66	35.9	0.5	0.4	2.8	5.6	0.06	0.58	0.63	12	0.27	0.045
617327	Soil			0.70	21.28	13.82	76.1	63	14.4	7.5	558	2.61	6.6	0.8	0.6	0.7	7.9	0.19	0.39	0.43	24	0.18	0.098
617328	Soil			0.52	22.90	33.05	82.7	25	27.9	18.3	2441	3.74	4.3	0.8	0.6	3.6	7.1	0.10	0.45	0.39	36	0.11	0.061
617329	Soil			0.61	23.90	24.61	76.2	103	18.9	10.4	672	3.95	3.9	0.6	0.9	2.4	6.0	0.13	0.28	0.42	33	0.02	0.075
617330	Soil			0.62	31.23	42.12	94.8	43	26.9	23.6	1503	3.92	7.4	0.8	0.7	4.2	13.4	0.09	0.26	0.48	32	0.15	0.045
617331	Soil			0.51	27.60	59.63	96.6	48	27.6	27.6	1741	3.66	5.8	0.9	1.2	4.2	13.3	0.06	0.28	0.54	29	0.11	0.041
617332	Soil			0.55	30.64	65.71	122.2	74	28.1	29.8	1931	4.05	6.6	0.8	0.7	3.9	13.4	0.12	0.29	0.57	30	0.09	0.052
1266410	Soil			0.33	40.02	45.55	105.3	189	51.3	22.5	473	3.87	10.6	0.8	1.1	7.0	57.6	0.08	0.30	0.62	6	1.24	0.026
1266411	Soil			0.67	12.58	52.33	435.3	170	18.6	3.9	1623	2.44	24.1	1.8	2.1	0.3	53.4	1.06	1.82	0.16	16	10.95	0.236
1266412	Soil			0.41	16.26	32.06	10.3	196	13.7	4.3	1369	2.55	25.9	3.0	15.1	1.2	59.7	0.08	2.62	0.12	5	17.14	0.102
1266413	Soil			0.33	7.46	13.14	45.8	93	8.3	3.7	1318	1.70	13.1	1.5	3.4	0.3	66.7	0.22	1.22	0.09	10	16.53	0.117
1266414	Soil			0.69	17.99	40.88	363.8	225	17.9	7.3	4230	6.79	66.3	3.2	18.2	2.2	39.3	0.64	6.27	0.18	18	12.20	0.184



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 08, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
617308	Soil	4.2	24.0	0.12	107.6	0.001	2	0.69	0.005	0.08	<0.1	4.7	0.52	0.08	114	0.7	0.03	3.5	3.57	<0.1	0.05
617309	Soil	6.7	15.9	0.22	122.2	0.003	3	1.12	<0.001	0.14	<0.1	2.9	0.16	0.03	42	0.3	0.05	3.5	2.37	<0.1	0.03
617310	Soil	7.3	10.6	6.06	135.9	0.006	4	0.73	0.008	0.02	<0.1	1.0	0.10	0.12	74	0.5	0.02	1.4	0.32	<0.1	0.03
617311	Soil	3.9	3.9	9.16	42.3	0.003	2	0.17	0.011	<0.01	<0.1	0.7	0.06	0.05	93	0.6	0.02	0.4	0.10	<0.1	<0.02
617312	Soil	8.0	6.1	8.16	30.2	0.002	7	0.23	0.011	0.03	<0.1	1.4	0.06	0.08	66	0.4	0.02	0.6	0.13	<0.1	<0.02
617313	Soil	8.6	9.3	6.72	57.7	0.002	4	0.39	0.009	0.05	<0.1	1.6	0.12	0.09	203	0.5	0.03	1.0	0.14	<0.1	0.04
617314	Soil	4.8	7.3	6.77	48.8	0.002	4	0.39	0.007	0.04	<0.1	2.2	0.07	0.05	162	0.3	0.02	1.0	0.28	<0.1	0.04
617315	Soil	8.9	31.6	0.54	402.3	0.012	1	1.78	0.004	0.09	<0.1	4.3	0.10	<0.02	32	0.1	<0.02	6.0	2.77	<0.1	0.04
617316	Soil	8.2	32.4	0.51	126.8	0.020	<1	1.89	0.002	0.09	0.1	3.0	0.13	<0.02	35	0.3	0.05	5.8	2.64	<0.1	<0.02
617317	Soil	6.1	40.8	0.71	288.2	0.013	2	2.32	0.002	0.22	<0.1	5.5	0.21	<0.02	23	<0.1	0.05	7.8	4.30	<0.1	0.04
617318	Soil	6.1	43.3	0.45	82.0	0.005	<1	2.09	0.003	0.12	<0.1	2.8	0.11	0.03	36	0.2	0.04	8.0	2.47	<0.1	0.04
617319	Soil	7.4	36.9	0.44	142.1	0.004	1	2.07	0.002	0.14	<0.1	4.2	0.15	<0.02	17	0.2	0.03	7.5	2.56	<0.1	0.04
617320	Soil	8.8	29.4	0.45	88.3	0.004	<1	1.68	<0.001	0.09	<0.1	3.1	0.09	<0.02	43	0.1	<0.02	5.4	1.42	<0.1	0.05
617321	Soil	6.7	8.8	0.18	124.4	<0.001	4	0.61	0.005	0.09	<0.1	4.0	0.16	0.07	105	0.4	<0.02	1.5	1.64	<0.1	0.07
617322	Soil	11.9	16.1	0.29	134.5	0.004	4	1.10	0.003	0.15	<0.1	7.2	0.17	<0.02	64	0.2	<0.02	3.3	3.30	<0.1	0.06
617323	Soil	5.5	7.6	7.24	88.2	0.005	4	0.45	0.008	0.03	<0.1	0.7	0.11	0.03	56	0.5	<0.02	1.0	0.31	<0.1	0.02
617324	Soil	3.4	7.9	0.41	32.0	<0.001	2	0.48	0.001	0.06	<0.1	2.6	0.06	<0.02	147	0.2	0.04	1.3	0.31	<0.1	0.05
617325	Soil	15.0	15.5	0.38	128.7	0.003	3	0.90	0.002	0.05	<0.1	4.3	0.08	0.09	111	0.4	0.07	2.1	0.36	<0.1	0.04
617326	Soil	5.7	8.6	0.12	37.5	<0.001	3	0.53	0.001	0.16	<0.1	4.8	0.07	<0.02	47	<0.1	0.04	1.9	1.73	<0.1	0.06
617327	Soil	8.1	17.6	0.14	109.8	0.003	2	1.17	<0.001	0.12	<0.1	1.4	0.12	0.06	32	<0.1	0.04	4.2	1.34	<0.1	<0.02
617328	Soil	3.3	31.8	0.49	143.1	0.007	3	1.88	0.005	0.16	0.1	4.4	0.16	0.03	24	<0.1	0.06	5.6	3.61	<0.1	0.02
617329	Soil	5.7	34.5	0.37	90.2	0.003	1	1.96	0.005	0.10	<0.1	2.8	0.14	0.04	23	0.2	0.04	7.7	2.00	<0.1	0.07
617330	Soil	9.6	34.0	0.42	131.4	0.004	<1	1.98	0.003	0.14	<0.1	4.3	0.12	<0.02	36	<0.1	0.04	7.2	2.19	<0.1	0.03
617331	Soil	8.8	32.2	0.44	165.7	0.005	2	1.88	0.002	0.20	<0.1	4.3	0.17	<0.02	18	<0.1	0.03	7.0	3.01	<0.1	0.02
617332	Soil	8.6	34.1	0.45	143.4	0.004	<1	1.99	0.002	0.16	<0.1	3.6	0.14	<0.02	36	<0.1	0.03	7.6	3.86	<0.1	0.03
1266410	Soil	10.0	6.5	0.10	113.9	0.001	6	0.55	0.004	0.18	<0.1	6.0	0.29	0.03	238	0.1	<0.02	1.4	3.36	<0.1	0.05
1266411	Soil	5.6	12.3	4.71	71.8	0.003	4	0.58	0.009	0.05	<0.1	0.6	0.06	0.06	441	0.7	0.03	1.3	0.36	<0.1	0.02
1266412	Soil	4.1	5.3	8.40	32.7	0.001	3	0.21	0.013	0.04	<0.1	1.1	0.23	<0.02	705	0.9	0.10	0.5	0.20	<0.1	0.05
1266413	Soil	4.0	7.4	8.29	68.8	0.004	4	0.37	0.010	0.03	<0.1	0.6	0.07	<0.02	116	0.4	0.02	0.8	0.29	<0.1	<0.02
1266414	Soil	9.4	12.9	4.03	203.6	0.005	4	0.60	0.012	0.06	<0.1	2.3	0.43	<0.02	673	0.5	0.05	1.5	0.29	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 10 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
617308	Soil	0.05	8.6	0.7	<0.05	3.8	7.16	12.0	0.09	<1	0.7	9.6	<10	<2
617309	Soil	0.21	13.6	1.4	<0.05	0.8	7.02	19.9	0.05	<1	1.0	22.7	<10	<2
617310	Soil	0.12	2.9	0.6	<0.05	1.1	14.57	14.6	<0.02	<1	0.4	3.0	<10	<2
617311	Soil	0.04	0.9	1.6	<0.05	1.0	7.05	7.0	<0.02	<1	0.1	1.2	<10	<2
617312	Soil	0.05	1.7	1.0	<0.05	0.9	8.57	13.0	<0.02	<1	0.2	1.5	<10	<2
617313	Soil	0.06	2.7	1.5	<0.05	1.1	9.73	15.8	<0.02	<1	0.4	2.3	<10	<2
617314	Soil	0.07	3.7	0.7	<0.05	1.4	7.95	9.8	<0.02	<1	0.4	2.4	<10	<2
617315	Soil	0.34	11.3	1.6	<0.05	1.1	9.81	21.9	0.04	<1	1.7	30.3	<10	<2
617316	Soil	0.53	16.1	2.0	<0.05	0.3	4.49	18.7	0.04	<1	0.8	25.9	<10	<2
617317	Soil	0.35	27.7	1.8	<0.05	1.1	8.18	18.8	0.04	<1	2.3	37.3	<10	<2
617318	Soil	0.52	14.8	3.5	<0.05	1.4	4.67	17.9	0.05	<1	1.2	34.4	<10	<2
617319	Soil	0.28	18.9	1.6	<0.05	1.4	5.86	20.5	0.04	<1	1.6	35.4	<10	<2
617320	Soil	0.26	10.5	1.2	<0.05	1.8	5.65	23.2	0.03	<1	1.2	33.4	<10	<2
617321	Soil	0.05	5.9	1.6	<0.05	2.5	14.43	20.5	0.07	<1	0.9	10.8	<10	<2
617322	Soil	0.10	12.5	0.8	<0.05	3.6	19.28	34.7	0.06	<1	1.2	27.7	<10	<2
617323	Soil	0.08	3.2	1.1	<0.05	0.5	9.11	10.9	<0.02	<1	0.4	3.2	<10	<2
617324	Soil	0.06	3.1	1.8	<0.05	2.0	8.51	7.2	0.02	<1	0.5	2.1	<10	<2
617325	Soil	0.13	4.8	1.3	<0.05	1.3	19.33	29.3	0.04	<1	0.6	4.1	<10	<2
617326	Soil	0.08	7.1	1.2	<0.05	2.1	11.43	12.8	0.04	<1	1.4	2.4	<10	<2
617327	Soil	0.30	14.0	1.9	<0.05	0.5	4.21	18.4	0.03	<1	0.9	5.6	<10	<2
617328	Soil	0.33	18.8	1.8	<0.05	1.1	8.64	12.7	0.04	<1	2.5	26.4	<10	<2
617329	Soil	0.53	17.2	2.5	<0.05	2.1	4.02	14.3	0.04	<1	1.1	25.3	<10	<2
617330	Soil	0.26	15.1	1.6	<0.05	1.2	10.61	27.9	0.04	<1	1.4	31.6	<10	<2
617331	Soil	0.20	21.8	1.3	<0.05	1.2	10.87	28.7	0.04	<1	1.6	32.0	<10	<2
617332	Soil	0.31	19.6	1.2	<0.05	1.5	7.40	25.7	0.04	<1	1.8	38.7	<10	<2
1266410	Soil	0.06	10.9	2.5	<0.05	3.1	14.88	29.9	0.05	<1	1.2	4.6	<10	<2
1266411	Soil	0.10	3.5	1.0	<0.05	0.7	8.88	12.4	<0.02	<1	0.3	3.6	<10	<2
1266412	Soil	0.04	1.6	2.4	<0.05	1.4	7.81	7.6	<0.02	<1	0.4	1.4	<10	<2
1266413	Soil	0.08	2.9	0.9	<0.05	0.5	7.13	8.2	<0.02	<1	0.4	3.6	<10	<2
1266414	Soil	0.14	3.5	3.9	<0.05	1.3	13.05	18.4	0.03	<1	0.5	4.0	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1266415	Soil			0.77	17.78	37.93	111.3	256	20.6	9.6	2453	4.23	16.8	1.4	3.3	1.4	14.7	0.28	1.77	0.26	30	2.36	0.178
1266416	Soil			0.35	10.83	25.16	28.6	77	9.3	6.3	781	1.90	14.7	0.7	4.8	0.7	38.4	0.11	1.66	0.19	9	9.64	0.120
1266417	Soil			0.68	10.92	19.90	76.2	128	12.3	5.7	1478	2.30	11.5	0.6	3.4	0.5	34.6	0.30	1.33	0.15	24	9.45	0.110
1266418	Soil			0.39	19.11	12.93	40.8	35	12.5	13.0	1319	2.86	9.7	0.5	0.8	1.8	4.9	0.05	0.29	0.38	15	0.24	0.037
1266419	Soil			0.71	33.00	41.67	60.0	139	32.5	24.2	1487	4.23	7.9	1.1	1.0	2.8	17.2	0.11	0.43	0.42	21	0.38	0.099
1266420	Soil			1.18	19.97	16.08	69.5	18	21.9	9.8	232	3.40	14.9	0.6	1.7	2.0	8.5	0.13	0.87	0.43	41	0.06	0.027
1266421	Soil			0.53	18.14	11.43	34.6	43	12.7	12.4	542	2.80	4.2	0.4	1.1	1.1	4.0	0.09	0.36	0.45	21	0.05	0.050
1266422	Soil			0.86	59.29	29.30	81.7	118	36.1	24.4	2552	3.26	6.5	1.4	2.0	2.1	28.8	0.21	0.75	0.50	30	1.34	0.087
1266423	Soil			1.04	30.43	25.36	89.3	69	34.8	18.0	755	3.27	9.2	1.2	0.9	3.3	17.7	0.16	0.61	0.41	35	0.57	0.044
1266424	Soil			0.54	24.23	22.16	78.5	146	26.8	16.2	722	4.41	2.2	0.8	0.9	5.0	5.5	0.09	0.29	0.35	42	0.05	0.039
1266425	Soil			0.78	26.75	22.31	78.4	206	28.6	14.0	401	3.68	8.3	0.6	1.0	3.0	9.6	0.07	0.74	0.39	33	0.06	0.039
1266426	Soil			1.06	18.82	22.68	80.1	67	16.3	17.1	1400	4.29	5.3	0.5	0.7	3.8	6.6	0.18	0.40	0.39	51	0.04	0.040
1266427	Soil			0.72	25.93	21.13	87.5	126	29.7	17.0	773	4.29	5.0	0.6	0.8	4.2	6.0	0.10	0.33	0.38	44	0.03	0.032
1266428	Soil			0.65	22.97	26.88	77.5	117	26.4	14.9	604	4.17	5.4	0.6	1.0	4.0	6.9	0.08	0.43	0.39	35	0.03	0.042
1266429	Soil			0.54	27.90	30.57	93.4	73	24.4	15.6	562	5.11	5.7	0.6	0.6	3.4	6.2	0.14	0.18	0.50	35	0.03	0.051
1266430	Soil			0.72	23.96	34.80	79.0	132	15.8	11.0	669	4.86	6.6	0.6	2.1	3.5	5.8	0.19	0.39	0.56	38	0.04	0.054
1266431	Soil			0.80	15.71	25.07	74.5	50	22.4	11.7	339	3.70	6.5	0.5	0.5	3.9	6.4	0.11	0.40	0.34	35	0.03	0.027
1266432	Soil			0.65	18.33	45.92	97.6	98	26.5	21.5	1343	3.63	5.2	0.6	0.4	6.3	12.8	0.09	0.27	0.41	29	0.24	0.042
1266433	Soil			0.67	20.35	28.58	71.8	45	14.7	10.3	549	4.30	5.7	0.5	0.6	3.5	5.5	0.08	0.37	0.41	38	0.03	0.041
1266434	Soil			0.95	15.13	16.65	81.6	63	19.7	10.1	314	3.55	6.8	0.4	0.3	3.3	5.7	0.06	0.41	0.24	45	0.05	0.030
1266435	Soil			0.65	16.15	16.58	80.9	128	14.0	10.3	540	3.59	4.4	0.3	1.0	3.0	4.4	0.10	0.24	0.27	38	0.03	0.031
1266436	Soil			0.37	20.80	19.96	79.1	23	28.2	13.8	385	3.71	8.3	0.4	2.0	4.7	6.8	0.07	0.46	0.24	26	0.09	0.019
1266437	Soil			0.59	17.14	28.84	101.5	196	21.7	5.6	1193	2.27	23.5	2.9	21.7	1.0	29.2	0.21	2.86	0.13	12	8.11	0.259
1266438	Soil			0.17	3.43	6.50	26.7	34	4.9	1.4	880	1.13	8.3	1.5	0.5	0.2	33.5	0.10	1.55	0.03	6	12.20	0.086
1266439	Soil			0.36	6.27	12.57	26.4	65	9.0	3.2	1673	1.94	16.5	1.3	2.4	0.2	36.4	0.16	1.59	0.06	8	9.42	0.125
1266440	Soil			0.37	11.34	21.69	41.2	134	12.2	4.4	2114	2.36	16.4	1.5	5.8	0.5	34.5	0.18	1.80	0.09	12	8.76	0.134
1266441	Soil			0.17	4.26	11.57	34.9	36	5.4	2.8	862	1.07	6.1	0.7	1.3	0.4	42.8	0.08	0.98	0.04	6	9.14	0.089
1266442	Soil			0.14	15.08	49.43	18.7	113	10.9	9.7	763	1.64	17.8	0.8	20.2	1.1	58.0	0.06	3.55	0.10	7	10.30	0.113
1266443	Soil			0.52	11.83	25.14	34.8	128	13.3	6.0	1953	2.49	11.9	0.7	2.8	0.9	41.2	0.27	1.12	0.11	16	8.68	0.097
1266444	Soil			0.43	12.32	25.74	80.9	102	12.8	6.8	1994	2.86	14.5	0.9	1.8	0.5	26.0	0.23	1.45	0.15	19	6.91	0.169



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method Analyte	1F15																				
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1266415	Soil	17.7	19.6	1.11	115.2	0.005	3	1.27	0.009	0.08	<0.1	2.3	0.11	0.09	164	0.3	0.04	3.0	0.52	<0.1	0.06
1266416	Soil	4.2	7.6	4.85	46.0	0.002	4	0.39	0.009	0.09	<0.1	1.5	0.12	0.04	116	0.3	<0.02	1.0	1.00	<0.1	0.04
1266417	Soil	7.1	14.4	5.00	95.2	0.006	3	0.90	0.015	0.05	<0.1	1.1	0.12	0.04	148	0.4	<0.02	2.1	0.49	<0.1	0.02
1266418	Soil	4.4	9.5	0.16	89.5	0.002	2	0.77	0.003	0.14	<0.1	2.3	0.11	<0.02	23	0.1	0.06	2.5	1.03	<0.1	0.04
1266419	Soil	14.5	22.9	0.27	176.5	0.006	3	1.48	0.004	0.21	<0.1	6.6	0.17	0.07	56	<0.1	0.06	3.7	7.39	<0.1	0.06
1266420	Soil	9.5	25.0	0.38	75.2	0.017	2	1.40	0.003	0.09	0.1	2.4	0.10	<0.02	14	0.1	0.05	5.2	2.25	<0.1	<0.02
1266421	Soil	5.9	13.8	0.12	64.1	0.004	3	0.84	0.002	0.19	<0.1	1.9	0.10	0.02	15	<0.1	0.07	3.3	3.97	<0.1	<0.02
1266422	Soil	29.3	23.3	0.40	200.5	0.003	6	1.56	0.004	0.18	<0.1	4.6	0.17	0.06	63	<0.1	0.08	4.2	2.04	<0.1	0.08
1266423	Soil	11.5	31.7	0.50	127.8	0.015	3	1.76	0.004	0.20	<0.1	3.9	0.15	0.03	26	0.1	0.04	6.0	1.43	<0.1	0.04
1266424	Soil	3.3	39.4	0.55	205.4	0.006	2	2.45	0.003	0.21	<0.1	3.7	0.18	<0.02	27	0.1	<0.02	8.8	2.73	<0.1	0.06
1266425	Soil	8.1	31.0	0.54	133.0	0.008	2	1.88	0.004	0.12	<0.1	2.7	0.13	<0.02	38	<0.1	0.02	5.9	1.95	<0.1	<0.02
1266426	Soil	8.4	34.0	0.29	156.3	0.006	1	2.31	0.003	0.13	<0.1	3.1	0.13	<0.02	14	0.1	0.04	9.1	1.16	<0.1	0.04
1266427	Soil	5.6	40.4	0.64	139.1	0.012	2	2.41	0.004	0.22	<0.1	3.7	0.17	<0.02	21	<0.1	<0.02	9.5	2.78	<0.1	0.04
1266428	Soil	5.5	35.9	0.47	93.6	0.005	2	2.03	0.004	0.15	<0.1	3.0	0.13	<0.02	33	<0.1	0.03	7.4	1.79	<0.1	0.04
1266429	Soil	4.6	39.5	0.43	55.0	0.002	<1	2.19	0.005	0.08	<0.1	3.2	0.07	<0.02	32	<0.1	<0.02	8.0	1.98	<0.1	0.04
1266430	Soil	6.2	30.3	0.23	59.3	0.003	<1	1.80	0.004	0.10	<0.1	2.7	0.09	0.02	37	0.1	0.02	8.5	2.22	<0.1	0.05
1266431	Soil	8.2	29.5	0.42	86.1	0.004	<1	1.91	0.003	0.08	<0.1	2.5	0.12	<0.02	27	0.2	<0.02	6.5	1.33	<0.1	0.05
1266432	Soil	7.0	32.1	0.42	130.5	0.002	1	2.26	0.003	0.14	<0.1	3.5	0.15	<0.02	16	<0.1	<0.02	6.4	2.29	<0.1	0.05
1266433	Soil	6.9	27.9	0.25	71.5	0.003	<1	1.79	0.002	0.08	<0.1	2.3	0.10	<0.02	48	0.2	0.02	8.1	1.60	<0.1	0.04
1266434	Soil	8.1	27.4	0.37	93.0	0.010	3	1.79	0.002	0.07	0.2	2.1	0.08	<0.02	18	0.1	0.03	5.5	1.00	<0.1	0.04
1266435	Soil	6.4	23.9	0.25	91.1	0.004	<1	1.66	0.002	0.09	<0.1	2.3	0.09	<0.02	24	<0.1	0.08	6.3	0.91	<0.1	0.04
1266436	Soil	11.1	26.2	0.52	109.2	0.004	2	1.94	0.002	0.05	<0.1	2.7	0.08	<0.02	35	<0.1	0.04	4.9	1.08	<0.1	0.03
1266437	Soil	6.8	10.5	5.58	45.6	0.004	3	0.48	0.011	0.06	<0.1	1.4	0.14	0.12	482	0.7	0.07	0.9	0.36	<0.1	0.03
1266438	Soil	2.1	3.9	9.20	34.3	0.003	2	0.20	0.007	0.02	<0.1	0.6	0.06	0.14	19	<0.1	<0.02	0.4	0.17	<0.1	0.02
1266439	Soil	4.2	6.6	7.39	68.5	0.002	5	0.31	0.009	0.02	<0.1	0.4	0.07	0.15	95	0.3	0.07	0.7	0.19	<0.1	<0.02
1266440	Soil	6.0	9.2	6.39	80.0	0.003	1	0.49	0.011	0.03	<0.1	0.8	0.13	0.14	155	0.3	<0.02	0.9	0.21	<0.1	<0.02
1266441	Soil	2.8	4.3	6.96	51.4	0.004	1	0.29	0.008	0.02	<0.1	0.6	0.05	0.10	69	<0.1	<0.02	0.5	0.15	<0.1	<0.02
1266442	Soil	5.6	7.6	8.28	64.9	0.001	3	0.25	0.016	0.05	<0.1	1.6	0.14	0.13	608	<0.1	<0.02	0.8	0.16	<0.1	0.03
1266443	Soil	7.8	9.5	6.67	77.7	0.006	1	0.60	0.013	0.05	<0.1	1.6	0.15	0.11	180	<0.1	<0.02	1.2	0.32	<0.1	0.02
1266444	Soil	8.1	12.4	4.45	87.6	0.003	4	0.70	0.013	0.06	<0.1	1.1	0.09	0.16	74	<0.1	0.03	1.4	0.30	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 11 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1266415	Soil	0.26	6.0	1.1	<0.05	1.6	16.16	28.4	0.04	<1	0.8	8.2	<10	<2
1266416	Soil	0.09	4.2	3.6	<0.05	1.3	6.49	9.3	<0.02	<1	0.5	3.0	<10	<2
1266417	Soil	0.17	5.0	2.3	<0.05	0.6	7.47	14.5	0.02	<1	0.5	7.1	<10	<2
1266418	Soil	0.12	10.5	2.1	<0.05	1.0	3.88	11.0	0.03	<1	0.9	5.6	<10	<2
1266419	Soil	0.26	17.8	2.8	<0.05	1.3	23.59	43.2	0.04	<1	1.2	20.4	<10	<2
1266420	Soil	0.68	10.2	2.2	<0.05	0.4	3.80	20.5	0.03	<1	0.9	22.8	<10	<2
1266421	Soil	0.23	18.9	2.5	<0.05	0.2	2.87	13.4	0.03	<1	0.6	4.3	<10	<2
1266422	Soil	0.21	16.4	3.9	<0.05	1.6	25.27	56.5	0.04	<1	1.6	20.7	<10	2
1266423	Soil	0.69	16.2	3.4	<0.05	1.0	8.81	33.6	0.03	<1	1.1	26.6	<10	<2
1266424	Soil	1.00	27.4	3.4	<0.05	2.4	3.98	8.2	0.05	<1	1.5	38.3	<10	<2
1266425	Soil	0.59	13.7	1.7	<0.05	0.8	4.96	18.8	0.04	<1	1.2	32.0	<10	<2
1266426	Soil	0.78	21.9	2.4	<0.05	2.3	3.43	17.5	0.05	<1	1.0	34.8	<10	<2
1266427	Soil	0.71	25.2	2.1	<0.05	1.5	4.39	13.7	0.04	<1	1.1	38.4	<10	<2
1266428	Soil	0.64	17.3	3.0	<0.05	1.5	3.46	14.4	0.04	1	1.1	35.2	<10	<2
1266429	Soil	0.40	9.6	1.5	<0.05	1.6	3.77	11.3	0.06	<1	1.1	36.1	<10	<2
1266430	Soil	0.57	14.8	4.1	<0.05	1.9	3.75	14.7	0.05	<1	0.6	15.7	<10	<2
1266431	Soil	0.65	15.3	1.6	<0.05	2.0	3.25	19.4	0.03	<1	0.9	32.2	<10	<2
1266432	Soil	0.35	17.7	3.3	<0.05	2.2	7.72	35.6	0.05	<1	1.7	43.5	<10	<2
1266433	Soil	0.56	14.1	1.3	<0.05	2.7	3.40	14.7	0.03	<1	0.8	28.7	<10	<2
1266434	Soil	0.82	11.6	1.3	<0.05	1.7	2.38	16.9	0.03	2	0.9	36.9	<10	4
1266435	Soil	0.49	15.8	1.6	<0.05	1.5	2.51	14.0	0.02	2	0.9	21.5	<10	3
1266436	Soil	0.22	9.1	0.6	<0.05	1.9	3.76	28.0	0.02	<1	0.6	33.1	<10	2
1266437	Soil	0.09	3.3	0.6	<0.05	1.5	14.14	14.8	<0.02	<1	0.4	3.0	<10	<2
1266438	Soil	0.03	1.5	0.7	<0.05	0.7	6.27	4.6	<0.02	2	<0.1	0.9	<10	2
1266439	Soil	0.02	1.6	0.7	<0.05	0.4	10.53	9.9	0.02	<1	0.6	2.0	<10	3
1266440	Soil	0.06	2.7	1.3	<0.05	1.1	12.10	13.6	<0.02	2	0.7	2.4	<10	<2
1266441	Soil	0.06	1.7	0.9	<0.05	0.7	4.61	6.8	<0.02	2	0.5	1.9	<10	<2
1266442	Soil	0.05	1.7	2.5	<0.05	1.2	7.06	12.5	<0.02	<1	0.2	1.4	<10	2
1266443	Soil	0.12	2.9	0.5	<0.05	0.8	7.41	16.1	<0.02	<1	0.2	4.4	<10	<2
1266444	Soil	0.09	3.6	1.4	<0.05	0.9	9.08	17.5	0.03	<1	0.5	3.1	<10	2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	0.02	2	0.01	0.001
1266445	Soil	0.51	16.67	12.69	38.0	39	12.9	10.0	262	2.15	6.8	0.4	4.2	0.6	4.2	0.12	0.47	0.38	18	0.05	0.023
1266446	Soil	0.51	30.42	32.65	103.7	84	25.8	27.5	1581	3.80	4.3	0.6	2.2	2.8	6.0	0.13	0.27	0.50	30	0.09	0.043
1266447	Soil	0.56	49.17	93.29	103.0	56	43.9	72.8	3076	4.70	3.9	0.9	2.6	4.2	12.0	0.10	0.23	0.44	26	0.08	0.029
617157	Soil	0.25	3.54	12.43	12.0	31	4.5	1.5	572	0.73	4.6	0.9	3.1	0.2	30.2	0.08	0.58	0.04	3	11.42	0.054
617158	Soil	0.31	12.09	24.21	495.9	140	12.7	5.3	2614	3.39	20.2	1.5	13.2	0.6	26.5	0.69	2.08	0.13	10	9.92	0.145
617159	Soil	0.37	9.55	24.74	29.4	98	8.9	3.9	1898	4.44	40.4	2.2	24.6	0.6	33.5	0.17	2.64	0.09	3	13.50	0.144
617160	Soil	0.26	10.39	25.49	933.0	122	9.2	4.3	2211	3.37	14.8	1.3	6.3	0.7	29.9	1.38	1.49	0.12	6	13.02	0.103
617161	Soil	0.30	8.31	21.18	39.4	64	6.9	4.0	882	1.35	10.0	0.7	3.3	0.3	49.9	0.13	1.64	0.08	5	13.74	0.094
617162	Soil	0.63	13.49	22.01	105.1	124	13.5	6.8	1333	2.21	13.0	0.6	3.5	0.4	25.1	0.33	1.43	0.15	15	5.55	0.140
617163	Soil	0.72	24.03	32.39	70.1	107	23.2	14.4	491	2.73	16.9	0.7	5.5	1.7	22.6	0.16	1.39	0.33	14	4.15	0.082
617164	Soil	0.84	28.50	28.67	88.3	166	26.2	14.4	1419	2.89	7.3	1.4	2.9	0.9	22.7	0.46	0.61	0.29	28	1.32	0.099
617165	Soil	0.39	44.99	31.61	80.9	50	36.3	28.1	786	3.72	3.9	0.6	1.7	4.5	10.5	0.07	0.16	0.45	26	0.15	0.020
617166	Soil	0.61	26.06	19.58	109.5	79	22.0	20.6	1073	4.00	3.4	0.6	1.3	2.9	4.7	0.19	0.30	0.39	36	0.04	0.043
617167	Soil	0.75	27.52	23.51	79.1	39	18.3	14.7	998	3.92	4.4	0.6	1.0	0.7	4.0	0.15	0.38	0.33	31	0.02	0.071
617168	Soil	0.65	23.15	16.95	66.1	40	18.2	12.6	494	3.81	3.1	0.7	3.3	3.4	4.3	0.10	0.37	0.33	40	0.04	0.037
617169	Soil	0.53	30.26	20.85	81.0	38	25.0	15.6	699	3.88	2.7	0.6	1.5	3.7	4.1	0.13	0.26	0.36	33	0.02	0.031
617170	Soil	0.73	28.64	22.61	88.3	53	26.3	18.7	1138	4.08	4.6	0.6	0.5	3.0	4.9	0.16	0.34	0.40	34	0.03	0.049
617171	Soil	0.63	35.31	28.27	84.4	72	24.9	20.4	1256	3.86	4.2	0.7	0.8	3.2	4.2	0.10	0.32	0.36	34	0.03	0.041
617172	Soil	0.82	26.28	26.01	76.5	46	31.1	17.8	591	3.96	6.4	0.7	0.9	3.5	5.5	0.10	0.40	0.36	36	0.04	0.035
617173	Soil	1.15	21.07	17.90	83.5	159	22.6	11.4	687	4.82	7.5	0.6	<0.2	3.9	5.3	0.24	0.60	0.37	49	0.03	0.043
617174	Soil	0.73	23.17	28.61	103.2	119	24.1	20.1	1129	4.21	5.6	0.6	1.0	3.3	6.0	0.17	0.38	0.41	40	0.04	0.044



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 08, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1266445	Soil	4.8	11.8	0.15	48.5	0.007	2	0.67	0.001	0.11	<0.1	1.1	0.09	<0.02	36	<0.1	0.04	2.1	2.44	<0.1	<0.02
1266446	Soil	5.9	29.9	0.35	125.8	0.005	2	1.92	<0.001	0.16	<0.1	3.2	0.15	0.02	24	<0.1	<0.02	6.7	1.83	<0.1	0.03
1266447	Soil	5.0	32.2	0.65	143.8	0.007	2	2.07	0.003	0.13	<0.1	6.2	0.25	<0.02	29	<0.1	<0.02	6.9	3.93	<0.1	0.03
617157	Soil	1.8	3.4	6.27	18.7	0.002	2	0.11	0.008	0.01	<0.1	0.3	0.03	<0.02	48	<0.1	<0.02	0.2	0.07	<0.1	<0.02
617158	Soil	6.8	9.8	5.09	70.9	0.003	3	0.45	0.008	0.03	<0.1	1.0	0.09	0.04	756	0.2	<0.02	0.9	0.20	<0.1	<0.02
617159	Soil	4.1	5.8	6.75	43.3	0.003	3	0.23	0.008	0.03	<0.1	0.8	0.10	<0.02	99	0.3	0.05	0.6	0.11	<0.1	0.03
617160	Soil	5.9	7.3	6.84	49.9	0.003	5	0.32	0.010	0.04	<0.1	1.2	0.07	<0.02	284	0.2	0.03	0.9	0.18	<0.1	0.04
617161	Soil	3.0	4.6	6.97	46.0	0.002	5	0.27	0.009	0.03	<0.1	0.6	0.10	<0.02	47	0.2	<0.02	0.6	0.14	<0.1	0.03
617162	Soil	5.7	10.9	2.90	104.1	0.003	5	0.80	0.005	0.04	<0.1	0.8	0.11	0.08	111	0.2	<0.02	1.6	0.40	<0.1	0.03
617163	Soil	5.5	12.0	2.41	60.5	0.005	4	0.66	0.005	0.11	<0.1	2.9	0.13	0.04	101	<0.1	0.05	1.5	2.05	<0.1	0.04
617164	Soil	12.1	23.5	0.39	146.9	0.009	3	1.29	0.004	0.09	<0.1	2.3	0.11	0.08	57	0.2	<0.02	3.7	1.24	<0.1	0.03
617165	Soil	5.2	33.1	0.60	126.1	0.007	2	1.85	0.003	0.17	<0.1	5.1	0.16	<0.02	10	<0.1	<0.02	6.8	2.49	<0.1	0.06
617166	Soil	3.7	32.6	0.37	142.8	0.006	2	1.89	<0.001	0.16	<0.1	2.9	0.15	0.02	43	<0.1	<0.02	7.9	1.61	<0.1	0.03
617167	Soil	3.7	29.4	0.30	76.6	0.005	2	1.68	0.002	0.08	<0.1	1.7	0.12	0.06	37	0.1	0.02	6.6	1.68	<0.1	<0.02
617168	Soil	3.7	29.0	0.29	106.7	0.008	2	1.69	0.001	0.14	<0.1	2.7	0.14	<0.02	21	<0.1	<0.02	7.1	2.13	<0.1	0.02
617169	Soil	3.6	32.0	0.42	128.5	0.006	1	1.92	<0.001	0.15	<0.1	3.3	0.13	<0.02	19	<0.1	<0.02	7.2	2.06	<0.1	0.05
617170	Soil	4.0	34.5	0.41	94.9	0.006	1	2.15	0.001	0.13	<0.1	3.2	0.13	0.04	31	0.2	0.03	7.4	2.29	<0.1	0.05
617171	Soil	3.9	31.1	0.40	120.5	0.006	1	1.91	0.001	0.11	<0.1	2.9	0.14	0.02	22	0.1	0.04	6.6	2.19	<0.1	0.05
617172	Soil	4.7	34.7	0.49	135.7	0.011	2	2.04	<0.001	0.15	<0.1	3.0	0.14	0.02	24	<0.1	<0.02	6.7	2.80	<0.1	0.04
617173	Soil	7.6	34.1	0.39	105.9	0.012	1	1.88	<0.001	0.11	0.1	2.9	0.11	<0.02	39	0.2	<0.02	7.7	1.18	<0.1	0.04
617174	Soil	5.8	35.9	0.35	114.0	0.006	1	2.18	0.001	0.14	<0.1	3.1	0.12	0.02	54	0.2	<0.02	7.0	1.41	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 12 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001350.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1266445	Soil	0.20	9.0	1.0	<0.05	<0.1	2.00	11.6	0.05	2	0.6	5.7	<10	<2
1266446	Soil	0.33	19.6	1.7	<0.05	0.9	6.71	17.7	0.05	2	1.2	26.6	<10	<2
1266447	Soil	0.10	16.1	1.7	<0.05	1.6	12.13	27.2	0.05	2	1.9	36.8	<10	<2
617157	Soil	0.03	0.7	4.7	<0.05	0.5	3.38	3.5	<0.02	<1	0.2	0.9	<10	<2
617158	Soil	0.07	2.5	1.0	<0.05	0.8	10.68	13.5	<0.02	2	0.4	2.5	<10	<2
617159	Soil	0.04	1.3	1.0	<0.05	0.9	7.28	8.4	<0.02	<1	0.2	1.4	<10	<2
617160	Soil	0.05	2.2	1.9	<0.05	0.9	8.30	10.6	<0.02	<1	0.2	2.2	<10	<2
617161	Soil	0.04	1.4	3.9	<0.05	0.7	4.30	6.3	<0.02	<1	0.3	1.9	<10	<2
617162	Soil	0.12	3.9	0.9	<0.05	0.6	7.17	11.6	0.02	<1	0.7	5.0	<10	<2
617163	Soil	0.16	7.0	4.2	<0.05	1.5	7.89	11.4	<0.02	<1	1.0	6.0	<10	<2
617164	Soil	0.39	8.9	2.1	<0.05	0.7	13.74	25.4	0.04	<1	1.3	13.5	<10	<2
617165	Soil	0.07	15.8	2.1	<0.05	2.3	9.72	16.1	0.04	<1	1.4	31.2	<10	<2
617166	Soil	0.56	23.8	1.4	<0.05	1.1	3.83	9.1	0.03	<1	1.1	20.7	<10	<2
617167	Soil	0.42	13.4	2.3	<0.05	0.5	3.96	9.0	0.04	<1	1.0	14.3	<10	<2
617168	Soil	0.60	20.6	1.3	<0.05	1.0	3.30	8.8	0.03	<1	0.8	17.6	<10	<2
617169	Soil	0.55	20.9	1.9	<0.05	1.6	4.49	8.5	0.03	<1	1.2	25.2	<10	<2
617170	Soil	0.55	18.6	1.2	<0.05	1.8	4.43	12.4	0.04	<1	1.1	29.6	<10	<2
617171	Soil	0.54	16.8	1.3	<0.05	1.5	3.89	9.9	0.03	2	1.3	26.4	<10	<2
617172	Soil	0.64	17.5	1.6	<0.05	1.3	3.77	11.1	0.03	<1	1.3	30.3	<10	<2
617173	Soil	0.82	14.2	1.4	<0.05	1.8	3.55	15.3	0.04	<1	0.6	31.1	<10	<2
617174	Soil	0.65	16.3	1.4	<0.05	1.2	3.74	13.9	0.03	<1	1.3	30.3	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: October 08, 2011

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001350.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
617766	Soil	0.70	27.71	19.88	101.7	192	27.3	10.8	676	2.95	8.1	1.5	2.2	2.1	39.1	0.27	0.60	0.33	28	1.38	0.136
REP 617766	QC	0.65	28.45	20.26	105.8	192	28.0	11.1	683	2.97	8.0	1.5	2.8	2.5	39.7	0.28	0.61	0.32	27	1.36	0.137
1098460	Soil	0.65	23.49	22.91	79.8	193	27.0	10.2	388	2.81	11.8	1.5	2.6	2.9	60.5	0.04	0.99	0.25	30	1.79	0.101
REP 1098460	QC	0.65	23.70	23.39	80.3	212	27.0	10.0	394	2.82	12.2	1.5	2.5	3.0	61.5	0.02	1.01	0.25	30	1.84	0.106
1098480	Soil	0.45	32.30	19.80	78.9	186	26.1	10.6	376	2.72	6.5	1.7	2.3	1.5	125.7	0.12	0.32	0.28	18	1.90	0.062
REP 1098480	QC	0.50	31.54	20.08	79.6	189	26.6	10.8	379	2.71	6.6	1.7	1.5	1.6	130.7	0.11	0.37	0.28	18	1.94	0.063
617252	Soil	0.69	26.15	27.76	74.5	102	25.7	13.8	964	3.69	12.5	1.2	1.6	3.0	16.4	0.14	1.12	0.31	22	1.34	0.072
REP 617252	QC	0.67	26.93	28.11	76.8	95	25.8	14.4	986	3.67	12.8	1.1	1.8	3.2	16.2	0.11	1.15	0.32	22	1.36	0.071
617266	Soil	0.51	17.43	24.70	117.1	117	10.6	25.9	3779	4.46	5.4	0.4	0.6	1.2	4.1	0.41	0.36	0.36	39	0.02	0.105
REP 617266	QC	0.54	17.93	25.33	115.6	129	11.5	27.1	3782	4.58	5.2	0.4	0.5	1.5	4.0	0.40	0.34	0.36	39	0.02	0.107
617306	Soil	0.55	31.15	19.57	67.5	133	26.3	12.6	590	2.60	8.1	1.3	3.0	3.2	211.9	0.08	0.34	0.27	16	3.40	0.041
REP 617306	QC	0.53	34.65	20.91	71.1	146	29.8	13.4	642	2.80	8.7	1.4	2.8	3.6	230.9	0.10	0.30	0.29	18	3.56	0.043
617418	Soil	0.58	21.15	28.05	78.7	93	19.0	15.8	814	3.07	3.7	1.9	0.8	2.0	44.5	0.09	0.21	0.35	26	0.64	0.097
REP 617418	QC	0.58	22.01	27.61	79.1	91	20.1	16.4	837	3.04	3.6	1.9	<0.2	2.0	43.3	0.10	0.19	0.34	26	0.63	0.094
617432	Soil	0.46	36.71	34.63	80.4	49	32.3	21.6	815	3.66	5.6	1.1	1.4	5.1	15.4	0.07	0.29	0.40	24	0.36	0.039
REP 617432	QC	0.43	34.62	33.29	75.0	48	32.0	21.8	787	3.66	5.4	1.0	1.0	4.8	14.3	0.09	0.28	0.40	24	0.34	0.039
1097640	Soil	0.50	31.04	19.92	74.4	143	29.2	11.5	330	3.11	8.8	1.6	3.9	3.8	65.1	0.10	0.32	0.31	22	0.79	0.032
REP 1097640	QC	0.47	30.61	19.57	73.2	142	27.9	10.9	333	3.08	8.7	1.5	1.6	3.9	62.3	0.08	0.33	0.30	22	0.78	0.034
1097657	Soil	0.49	27.11	25.11	79.7	26	34.4	16.1	464	3.43	6.2	0.8	<0.2	5.3	18.5	0.08	0.25	0.39	32	0.08	0.022
REP 1097657	QC	0.55	28.23	25.98	84.6	25	35.9	16.2	491	3.64	6.5	0.8	1.2	5.2	19.4	0.09	0.25	0.39	35	0.09	0.022
1096532	Soil	0.54	28.34	45.14	118.7	72	37.4	29.7	2445	4.31	3.7	1.0	1.5	2.2	10.1	0.07	0.21	0.27	37	0.16	0.086
REP 1096532	QC	0.43	27.86	44.22	116.3	70	35.3	28.5	2347	4.23	3.3	1.0	1.1	2.3	9.9	0.07	0.21	0.28	36	0.14	0.080
1097344	Soil	0.39	31.29	27.78	100.7	113	28.7	22.6	819	3.96	3.8	0.6	<0.2	3.2	4.8	0.09	0.20	0.33	25	0.03	0.049
REP 1097344	QC	0.40	30.62	27.55	98.9	78	26.8	23.2	763	3.89	4.1	0.6	<0.2	3.0	4.5	0.09	0.17	0.35	24	0.03	0.050
617293	Soil	0.47	30.06	28.94	100.0	100	28.8	18.6	1012	4.14	4.1	0.6	0.5	3.2	8.0	0.09	0.13	0.45	23	0.02	0.068
REP 617293	QC	0.42	31.45	30.35	101.5	117	28.8	18.9	1054	4.12	4.5	0.6	0.5	3.5	8.0	0.09	0.14	0.46	20	0.02	0.069
617308	Soil	0.75	65.13	105.3	105.8	460	25.6	13.1	534	10.84	15.5	0.8	2.6	8.3	17.2	0.10	0.53	0.56	13	0.02	0.079
REP 617308	QC	0.76	65.53	102.9	104.3	454	25.4	13.1	535	10.86	15.6	0.9	1.1	8.1	17.3	0.10	0.54	0.53	13	0.01	0.075

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001350.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
617766	Soil	14.6	29.0	0.77	125.3	0.011	4	1.44	0.006	0.08	0.1	4.2	0.09	0.05	134	0.5	<0.02	3.8	0.94	<0.1	0.03
REP 617766	QC	14.8	28.5	0.77	121.9	0.010	3	1.44	0.005	0.08	0.1	4.2	0.08	0.05	145	0.5	<0.02	3.8	0.89	<0.1	0.05
1098460	Soil	14.6	24.6	0.79	106.9	0.010	3	1.42	0.008	0.10	0.1	3.6	0.10	0.04	103	0.3	0.04	3.8	1.20	<0.1	0.04
REP 1098460	QC	14.5	25.0	0.80	106.1	0.010	4	1.45	0.008	0.10	0.1	3.9	0.10	0.03	94	0.3	0.05	3.9	1.19	<0.1	0.04
1098480	Soil	10.3	21.3	0.48	116.9	0.003	4	1.28	0.006	0.08	<0.1	3.4	0.08	0.07	110	0.6	0.04	3.5	1.24	<0.1	0.05
REP 1098480	QC	10.6	21.4	0.52	117.3	0.003	4	1.26	0.006	0.08	<0.1	3.4	0.09	0.06	115	0.6	0.03	3.7	1.26	<0.1	0.04
617252	Soil	12.2	22.8	0.86	91.8	0.004	3	1.33	0.004	0.10	<0.1	4.2	0.11	0.04	53	0.3	0.03	3.8	1.09	<0.1	0.07
REP 617252	QC	12.4	22.5	0.85	93.3	0.004	3	1.32	0.004	0.09	<0.1	4.2	0.12	0.03	57	0.2	0.06	3.9	1.07	<0.1	0.06
617266	Soil	4.4	31.5	0.10	120.0	0.005	<1	1.56	0.001	0.09	<0.1	2.1	0.11	0.03	38	0.2	<0.02	8.0	1.29	<0.1	0.03
REP 617266	QC	4.3	32.4	0.10	126.0	0.004	<1	1.57	<0.001	0.08	<0.1	2.1	0.10	0.03	80	0.2	0.04	8.2	1.23	<0.1	0.03
617306	Soil	7.5	20.7	0.74	82.8	0.002	3	1.21	<0.001	0.10	<0.1	3.7	0.09	0.03	68	0.2	0.06	3.6	1.22	<0.1	0.10
REP 617306	QC	8.3	22.6	0.79	90.7	0.002	3	1.33	<0.001	0.11	<0.1	3.9	0.09	0.03	82	0.4	0.05	3.8	1.37	<0.1	0.08
617418	Soil	6.4	28.7	0.42	202.9	0.005	3	1.60	0.005	0.13	<0.1	2.8	0.15	0.08	24	0.3	<0.02	6.2	2.57	<0.1	0.05
REP 617418	QC	6.1	28.5	0.40	205.7	0.004	2	1.56	0.005	0.12	<0.1	2.5	0.14	0.08	24	0.3	<0.02	6.0	2.23	<0.1	0.05
617432	Soil	6.2	30.7	0.59	156.4	0.004	2	1.88	0.003	0.18	<0.1	5.4	0.15	0.03	30	<0.1	<0.02	6.0	2.35	<0.1	0.05
REP 617432	QC	6.1	30.9	0.58	156.0	0.004	2	1.88	0.003	0.18	<0.1	5.2	0.14	0.03	30	<0.1	0.03	5.8	2.34	<0.1	0.07
1097640	Soil	11.6	25.2	0.68	97.0	0.003	5	1.59	0.002	0.12	<0.1	5.5	0.08	0.03	58	0.6	<0.02	4.5	1.34	<0.1	0.07
REP 1097640	QC	11.8	25.2	0.67	92.9	0.003	5	1.59	0.002	0.12	<0.1	5.4	0.08	0.03	64	0.4	0.06	4.5	1.33	<0.1	0.07
1097657	Soil	11.8	39.6	0.59	134.3	0.006	<1	2.01	0.005	0.11	<0.1	4.4	0.11	0.02	15	0.3	0.03	7.3	2.30	<0.1	0.04
REP 1097657	QC	12.1	40.2	0.63	138.9	0.005	1	2.11	0.005	0.11	<0.1	4.6	0.10	0.03	11	0.2	<0.02	7.7	2.32	<0.1	0.03
1096532	Soil	10.7	41.6	0.70	182.3	0.020	2	2.17	0.004	0.15	<0.1	3.7	0.15	0.07	142	0.6	<0.02	7.8	2.77	<0.1	0.04
REP 1096532	QC	10.4	41.1	0.69	173.7	0.020	1	2.12	0.004	0.15	<0.1	3.3	0.16	0.06	105	0.4	<0.02	7.8	2.79	<0.1	<0.02
1097344	Soil	3.6	36.7	0.45	80.9	0.008	3	1.65	0.002	0.13	<0.1	3.1	0.11	0.03	30	0.2	<0.02	7.1	3.56	<0.1	0.02
REP 1097344	QC	3.7	33.8	0.47	79.2	0.008	7	1.62	0.002	0.13	<0.1	2.8	0.11	0.03	52	0.5	0.05	6.6	3.36	<0.1	0.04
617293	Soil	4.9	40.3	0.48	125.4	0.002	<1	1.88	0.004	0.12	<0.1	3.2	0.09	0.02	36	0.1	<0.02	8.1	2.25	<0.1	0.04
REP 617293	QC	5.2	40.3	0.49	124.5	0.002	<1	1.98	0.004	0.12	<0.1	3.4	0.09	<0.02	45	0.1	<0.02	8.4	2.34	<0.1	0.06
617308	Soil	4.2	24.0	0.12	107.6	0.001	2	0.69	0.005	0.08	<0.1	4.7	0.52	0.08	114	0.7	0.03	3.5	3.57	<0.1	0.05
REP 617308	QC	4.2	24.3	0.12	104.9	0.001	2	0.70	0.006	0.08	<0.1	4.6	0.50	0.08	105	0.6	0.04	3.6	3.61	<0.1	0.07

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 1 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001350.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
617766	Soil	0.65	8.0	1.2	<0.05	1.6	13.95	30.1	0.04	1	0.7	27.5	<10	<2
REP 617766	QC	0.62	8.0	1.2	<0.05	1.8	14.20	30.1	0.04	<1	0.8	28.6	<10	<2
1098460	Soil	0.52	8.2	2.4	<0.05	1.8	14.12	28.0	0.03	<1	0.9	28.3	<10	<2
REP 1098460	QC	0.45	8.4	2.5	<0.05	1.7	14.56	28.1	<0.02	<1	0.9	30.5	<10	<2
1098480	Soil	0.31	6.9	1.5	<0.05	1.9	12.67	22.9	0.03	<1	1.0	30.7	<10	<2
REP 1098480	QC	0.30	7.0	1.6	<0.05	2.0	12.91	23.6	0.03	<1	1.0	31.0	<10	<2
617252	Soil	0.22	9.1	1.8	<0.05	2.1	11.89	28.8	0.04	<1	1.1	23.3	<10	<2
REP 617252	QC	0.22	8.6	1.8	<0.05	2.2	12.05	29.3	0.03	<1	1.2	23.4	<10	<2
617266	Soil	0.47	14.2	1.9	<0.05	0.5	1.98	11.4	0.03	<1	0.8	10.3	<10	<2
REP 617266	QC	0.52	12.8	2.0	<0.05	0.7	2.00	11.7	0.03	<1	0.8	9.9	<10	<2
617306	Soil	0.17	6.1	1.2	<0.05	4.4	7.74	18.0	0.03	<1	0.8	37.1	<10	<2
REP 617306	QC	0.22	7.0	0.9	<0.05	4.7	8.45	19.2	0.02	<1	1.0	39.6	<10	<2
617418	Soil	0.56	23.8	1.5	<0.05	1.3	8.38	17.4	0.04	<1	1.2	29.4	<10	<2
REP 617418	QC	0.58	21.4	1.4	<0.05	1.5	8.27	16.6	0.03	<1	1.2	29.2	<10	<2
617432	Soil	0.41	16.9	2.8	<0.05	2.0	12.80	20.5	0.04	<1	1.7	28.0	<10	<2
REP 617432	QC	0.36	16.2	2.6	<0.05	1.9	11.87	19.8	0.03	<1	1.5	26.9	<10	<2
1097640	Soil	0.29	9.1	0.7	<0.05	3.7	12.60	24.1	0.04	<1	1.4	43.1	<10	<2
REP 1097640	QC	0.26	9.1	0.6	<0.05	3.4	12.22	24.6	0.02	<1	1.1	40.6	<10	<2
1097657	Soil	0.28	14.3	1.2	<0.05	1.4	7.37	28.7	0.03	<1	1.4	31.7	<10	<2
REP 1097657	QC	0.27	14.2	1.3	<0.05	1.5	7.88	28.8	0.03	<1	1.3	33.4	<10	<2
1096532	Soil	0.51	18.6	1.2	<0.05	0.4	19.65	42.0	0.03	<1	1.3	41.1	<10	<2
REP 1096532	QC	0.50	18.9	1.3	<0.05	0.4	18.92	40.0	0.02	<1	1.5	39.0	<10	3
1097344	Soil	0.40	18.4	1.8	<0.05	2.0	4.10	9.8	<0.02	4	1.2	31.6	<10	<2
REP 1097344	QC	0.29	16.7	2.4	<0.05	1.9	3.88	10.1	<0.02	<1	1.2	32.0	<10	<2
617293	Soil	0.38	20.0	1.3	<0.05	1.6	3.86	13.0	0.04	<1	1.3	34.6	<10	<2
REP 617293	QC	0.34	19.5	1.4	<0.05	1.6	3.98	13.4	0.04	<1	1.3	36.3	<10	<2
617308	Soil	0.05	8.6	0.7	<0.05	3.8	7.16	12.0	0.09	<1	0.7	9.6	<10	<2
REP 617308	QC	0.06	8.6	0.7	<0.05	3.7	6.97	11.7	0.08	<1	0.6	9.8	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: October 08, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001350.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
617327	Soil	0.70	21.28	13.82	76.1	63	14.4	7.5	558	2.61	6.6	0.8	0.6	0.7	7.9	0.19	0.39	0.43	24	0.18	0.098
REP 617327	QC	0.72	21.18	14.12	75.6	66	14.2	7.6	559	2.64	6.8	0.8	0.7	0.7	7.6	0.18	0.37	0.44	25	0.19	0.098
1266431	Soil	0.80	15.71	25.07	74.5	50	22.4	11.7	339	3.70	6.5	0.5	0.5	3.9	6.4	0.11	0.40	0.34	35	0.03	0.027
REP 1266431	QC	0.75	15.26	24.16	73.8	52	22.0	11.4	326	3.62	6.6	0.5	0.8	3.8	7.3	0.10	0.43	0.33	37	0.04	0.027
1266434	Soil	0.95	15.13	16.65	81.6	63	19.7	10.1	314	3.55	6.8	0.4	0.3	3.3	5.7	0.06	0.41	0.24	45	0.05	0.030
REP 1266434	QC	0.95	14.99	16.99	82.6	78	19.9	9.7	320	3.62	7.3	0.4	0.9	3.2	6.0	0.08	0.43	0.24	46	0.05	0.031
617168	Soil	0.65	23.15	16.95	66.1	40	18.2	12.6	494	3.81	3.1	0.7	3.3	3.4	4.3	0.10	0.37	0.33	40	0.04	0.037
REP 617168	QC	0.78	25.43	18.13	71.7	45	19.2	13.4	529	4.08	3.4	0.7	1.1	3.9	4.8	0.11	0.40	0.36	41	0.04	0.039
Reference Materials																					
STD DS8	Standard	12.96	103.5	129.4	315.3	1780	35.2	6.8	607	2.40	25.3	2.7	119.6	6.6	74.3	2.36	5.80	7.33	38	0.71	0.082
STD DS8	Standard	11.55	107.5	116.6	327.4	1651	38.0	7.4	587	2.39	23.7	2.4	107.5	5.7	55.2	2.23	5.06	5.67	39	0.66	0.076
STD DS8	Standard	11.93	109.2	112.3	316.2	1584	38.9	6.7	578	2.39	23.1	2.5	96.6	5.9	55.8	2.08	4.75	5.71	39	0.67	0.080
STD DS8	Standard	12.50	105.3	123.4	298.0	1683	37.0	7.5	568	2.37	22.8	2.6	116.7	6.2	59.9	2.09	5.06	6.29	39	0.66	0.074
STD DS8	Standard	12.77	110.0	128.7	323.6	1804	38.3	7.4	605	2.48	24.5	2.7	110.4	6.6	64.7	2.31	5.46	6.76	41	0.70	0.079
STD DS8	Standard	12.47	103.1	117.9	298.0	1768	36.2	7.3	591	2.40	23.4	2.6	102.7	6.6	57.7	2.14	5.03	6.03	40	0.68	0.077
STD DS8	Standard	14.00	114.4	129.4	338.3	1971	39.8	7.8	619	2.56	25.7	3.0	122.4	7.2	71.4	2.39	5.88	6.97	42	0.76	0.076
STD DS8	Standard	13.09	101.6	121.9	297.5	1697	36.6	7.1	618	2.43	25.7	2.8	115.6	6.9	70.6	2.21	5.68	6.79	40	0.71	0.085
STD DS8	Standard	12.77	104.3	118.0	297.2	1713	36.1	7.2	591	2.36	24.7	2.7	124.2	6.8	70.8	2.39	5.43	6.70	38	0.71	0.081
STD DS8	Standard	13.78	118.0	131.8	330.7	1846	38.0	7.8	633	2.46	26.7	3.2	109.3	7.8	72.9	2.57	6.16	7.84	29	0.72	0.086
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: October 08, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001350.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
617327	Soil	8.1	17.6	0.14	109.8	0.003	2	1.17	<0.001	0.12	<0.1	1.4	0.12	0.06	32	<0.1	0.04	4.2	1.34	<0.1	<0.02
REP 617327	QC	8.2	17.5	0.14	112.8	0.002	2	1.18	<0.001	0.12	<0.1	1.4	0.12	0.06	36	<0.1	0.04	4.3	1.28	<0.1	0.02
1266431	Soil	8.2	29.5	0.42	86.1	0.004	<1	1.91	0.003	0.08	<0.1	2.5	0.12	<0.02	27	0.2	<0.02	6.5	1.33	<0.1	0.05
REP 1266431	QC	8.6	29.8	0.39	83.9	0.007	1	1.98	0.003	0.10	<0.1	2.5	0.13	<0.02	24	<0.1	0.03	6.6	1.59	<0.1	0.04
1266434	Soil	8.1	27.4	0.37	93.0	0.010	3	1.79	0.002	0.07	0.2	2.1	0.08	<0.02	18	0.1	0.03	5.5	1.00	<0.1	0.04
REP 1266434	QC	8.3	28.9	0.36	95.2	0.009	3	1.82	0.002	0.07	<0.1	2.1	0.09	<0.02	19	<0.1	<0.02	5.6	1.02	<0.1	0.03
617168	Soil	3.7	29.0	0.29	106.7	0.008	2	1.69	0.001	0.14	<0.1	2.7	0.14	<0.02	21	<0.1	<0.02	7.1	2.13	<0.1	0.02
REP 617168	QC	4.2	31.9	0.31	119.2	0.009	2	1.71	0.002	0.14	<0.1	2.9	0.16	<0.02	37	<0.1	<0.02	7.6	2.34	<0.1	0.03
Reference Materials																					
STD DS8	Standard	16.7	116.9	0.59	275.7	0.113	3	0.97	0.111	0.42	3.0	2.3	5.46	0.15	209	5.1	5.18	5.0	2.37	<0.1	0.10
STD DS8	Standard	12.7	113.8	0.58	239.1	0.105	4	0.83	0.078	0.38	2.8	1.6	5.17	0.17	170	4.9	4.79	4.3	2.38	<0.1	0.06
STD DS8	Standard	12.4	110.2	0.58	241.6	0.108	4	0.85	0.080	0.38	2.6	1.8	4.96	0.16	175	5.3	4.39	4.0	2.21	<0.1	0.03
STD DS8	Standard	13.5	117.6	0.59	244.1	0.104	2	0.87	0.079	0.40	2.8	1.9	5.16	0.16	187	4.6	4.81	4.3	2.25	0.1	0.06
STD DS8	Standard	14.0	122.1	0.62	264.2	0.108	2	0.91	0.088	0.42	2.8	2.0	5.50	0.17	204	5.2	5.10	4.6	2.36	<0.1	0.09
STD DS8	Standard	13.7	116.3	0.61	256.3	0.107	3	0.92	0.086	0.41	3.0	2.1	5.30	0.16	205	5.1	4.85	4.6	2.43	<0.1	0.07
STD DS8	Standard	17.9	129.1	0.62	279.1	0.124	3	0.95	0.096	0.43	3.1	2.4	5.49	0.17	207	5.6	5.62	4.9	2.57	0.1	0.06
STD DS8	Standard	16.0	119.2	0.61	289.2	0.113	3	0.92	0.089	0.41	3.0	2.1	5.27	0.15	191	5.1	5.06	4.6	2.36	<0.1	0.07
STD DS8	Standard	15.6	112.8	0.59	286.5	0.114	3	0.92	0.094	0.41	2.8	2.2	5.04	0.15	199	4.8	4.70	4.4	2.29	0.2	0.07
STD DS8	Standard	18.0	123.8	0.62	292.9	0.123	3	0.92	0.088	0.42	3.2	2.4	5.64	0.15	196	5.0	5.22	4.9	2.63	<0.1	0.09
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 08, 2011

Page: 2 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001350.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
617327	Soil	0.30	14.0	1.9	<0.05	0.5	4.21	18.4	0.03	<1	0.9	5.6	<10	<2
REP 617327	QC	0.26	13.8	2.1	<0.05	0.6	4.35	18.8	0.05	<1	0.9	5.6	<10	<2
1266431	Soil	0.65	15.3	1.6	<0.05	2.0	3.25	19.4	0.03	<1	0.9	32.2	<10	<2
REP 1266431	QC	0.69	16.4	1.5	<0.05	1.5	3.29	20.1	0.03	<1	1.0	33.2	<10	<2
1266434	Soil	0.82	11.6	1.3	<0.05	1.7	2.38	16.9	0.03	2	0.9	36.9	<10	4
REP 1266434	QC	0.89	11.8	1.4	<0.05	1.8	2.31	17.1	<0.02	<1	0.7	36.3	<10	<2
617168	Soil	0.60	20.6	1.3	<0.05	1.0	3.30	8.8	0.03	<1	0.8	17.6	<10	<2
REP 617168	QC	0.69	22.6	1.5	<0.05	1.2	3.70	9.8	0.02	<1	0.8	18.9	<10	<2
Reference Materials														
STD DS8	Standard	1.31	38.2	6.8	<0.05	1.9	6.34	29.6	2.21	54	5.4	29.6	113	368
STD DS8	Standard	1.15	37.6	6.1	<0.05	1.8	5.19	23.7	2.16	46	4.7	26.4	128	302
STD DS8	Standard	1.14	34.4	5.7	<0.05	1.7	4.80	23.1	1.95	43	5.9	26.9	125	307
STD DS8	Standard	1.09	33.9	5.9	<0.05	1.6	5.15	23.5	1.98	48	4.8	25.3	114	332
STD DS8	Standard	1.16	37.5	6.7	<0.05	1.7	5.49	25.2	2.18	55	5.6	26.4	116	341
STD DS8	Standard	1.26	37.4	6.0	<0.05	1.9	5.79	25.6	2.14	55	5.0	26.6	111	343
STD DS8	Standard	1.61	39.6	6.9	<0.05	2.2	6.75	32.0	2.34	65	4.9	25.7	111	366
STD DS8	Standard	1.38	37.0	7.1	<0.05	1.7	6.25	28.9	2.10	53	5.1	28.6	124	333
STD DS8	Standard	1.34	34.1	6.8	<0.05	1.6	6.26	28.4	2.07	48	4.7	27.5	110	344
STD DS8	Standard	1.46	40.3	7.5	<0.05	2.0	6.93	30.8	2.42	59	5.0	29.1	118	354
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: October 08, 2011

Page: 3 of 3 **Part** 1

QUALITY CONTROL REPORT

WHI11001350.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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Project: Scarlet

Report Date: October 08, 2011

Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001350.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15		
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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Page: 3 of 3 **Part** 3

QUALITY CONTROL REPORT

WHI11001350.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10



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Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 29, 2011
Report Date: October 30, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001351.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-24
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: database backup
Simon Ridgway
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, 1F05, and RJSV.

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
617175	Soil			0.51	27.10	32.83	102.7	65	27.8	20.5	1163	4.30	5.7	0.6	1.9	3.6	6.1	0.15	0.31	0.42	33	0.06	0.049
617176	Soil			0.52	31.76	31.67	109.2	119	23.5	18.8	750	4.37	5.9	0.5	0.9	3.2	6.6	0.15	0.19	0.44	33	0.04	0.042
617177	Soil			0.83	32.36	35.78	82.9	57	33.2	21.5	861	4.20	7.8	0.6	1.3	3.1	7.6	0.08	0.45	0.36	38	0.07	0.037
617178	Soil			0.67	31.53	26.12	122.9	99	31.2	20.5	770	4.49	6.2	0.6	0.3	3.3	5.7	0.22	0.29	0.40	37	0.03	0.055
617179	Soil			1.21	25.49	35.07	80.3	64	25.0	20.1	1267	4.02	7.7	0.6	0.8	2.6	6.9	0.26	0.59	0.35	44	0.06	0.044
617180	Soil			0.59	20.62	26.75	75.4	74	28.8	14.8	436	3.76	6.4	0.5	0.4	3.8	8.9	0.09	0.29	0.30	34	0.17	0.033
617181	Soil			0.59	17.86	37.22	130.3	43	26.7	29.3	666	3.89	3.9	0.5	0.4	5.9	4.7	0.25	0.27	0.30	30	0.03	0.039
617182	Soil			0.56	19.41	35.97	115.2	66	22.5	25.2	1751	3.46	4.4	0.6	<0.2	3.6	8.5	0.15	0.24	0.37	33	0.07	0.051
617183	Soil			0.52	22.20	35.60	106.4	130	27.7	23.0	976	4.29	5.0	0.5	<0.2	2.6	9.4	0.13	0.25	0.38	32	0.11	0.072
617184	Soil			0.65	11.06	17.57	36.6	82	14.1	6.1	895	1.84	14.7	1.4	7.0	0.4	27.9	0.18	1.74	0.13	11	8.68	0.146
617185	Soil			0.50	18.08	36.11	20.0	133	16.4	9.3	434	1.91	18.2	1.2	37.8	1.8	28.0	0.05	2.68	0.17	9	6.76	0.137
617186	Soil			0.66	10.11	16.20	44.3	118	11.5	5.2	912	1.72	10.7	1.0	4.0	0.3	27.4	0.34	1.25	0.12	13	8.67	0.154
617187	Soil			0.21	8.53	21.85	107.1	80	6.8	3.5	838	1.90	35.4	0.9	18.0	0.6	61.5	0.19	2.72	0.03	5	12.18	0.096
617188	Soil			0.67	18.00	78.64	47.5	261	21.6	9.7	858	3.02	18.9	0.7	3.6	2.2	15.4	0.15	1.26	0.22	18	2.89	0.090
617189	Soil			0.26	22.73	8.52	33.9	37	10.5	16.6	807	1.99	2.1	0.4	0.7	1.0	5.4	0.16	0.19	0.36	13	0.13	0.045
617190	Soil			0.34	32.93	31.68	53.0	30	22.7	29.9	1368	3.16	4.4	0.5	0.4	3.1	5.7	0.05	0.23	0.37	17	0.06	0.033
617191	Soil			0.77	21.98	21.21	64.5	85	22.3	18.0	953	3.64	5.4	0.6	0.6	0.9	11.3	0.13	0.48	0.33	30	0.17	0.061
617192	Soil			0.41	39.36	43.35	72.4	114	28.1	32.5	1810	3.89	3.2	0.8	1.0	2.6	8.2	0.26	0.16	0.33	23	0.13	0.066
617193	Soil			1.14	19.91	19.85	73.6	44	18.3	11.4	550	4.29	6.5	0.5	1.9	2.4	5.5	0.15	0.56	0.26	43	0.04	0.047
617194	Soil			0.83	28.78	30.45	81.3	50	29.6	21.0	757	3.63	6.7	0.6	1.6	3.8	7.4	0.16	0.45	0.30	35	0.06	0.039
617195	Soil			0.51	26.71	28.77	66.6	83	22.0	33.0	2672	3.76	2.9	0.6	1.1	3.5	10.4	0.13	0.19	0.29	28	0.10	0.040
617196	Soil			0.60	34.97	29.19	94.8	60	34.6	24.7	2208	4.26	2.8	0.8	0.8	5.7	4.6	0.09	0.34	0.30	45	0.03	0.034
617197	Soil			0.52	32.52	30.56	84.2	72	33.9	26.7	2164	4.04	3.7	0.8	0.9	4.3	7.6	0.06	0.25	0.27	33	0.06	0.052
617198	Soil			0.33	44.81	27.38	78.5	14	43.3	20.8	613	4.50	1.6	1.1	0.5	3.1	8.9	0.02	0.29	0.32	43	0.08	0.038
617199	Soil			1.09	17.47	20.22	66.8	69	21.1	13.3	716	3.85	7.5	0.6	0.8	2.6	7.0	0.09	0.56	0.28	43	0.06	0.038
617200	Soil			0.68	23.58	18.36	71.9	45	16.9	9.3	436	4.23	8.1	0.4	1.0	2.0	4.4	0.15	0.61	0.31	34	0.02	0.049
617207	Soil			0.56	37.00	35.76	90.9	74	32.3	27.5	1241	4.55	4.4	0.7	1.0	3.0	9.6	0.21	0.29	0.33	34	0.06	0.048
617208	Soil			0.47	100.8	48.27	94.1	39	36.6	29.6	4448	4.48	2.7	1.0	3.0	4.5	10.2	0.11	0.20	0.34	30	0.24	0.057
617209	Soil			0.47	27.31	27.84	112.1	108	28.2	19.5	1535	5.13	2.7	0.6	0.3	1.5	9.2	0.31	0.20	0.29	30	0.28	0.113
617210	Soil			0.60	28.09	23.23	84.8	45	28.9	20.6	1580	3.80	3.5	0.6	0.8	3.0	6.8	0.08	0.35	0.31	37	0.05	0.054



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15				
				La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf		
				ppm	ppm	%	ppm	%	%	%	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm				
				0.5	0.5	0.01	0.5	0.001		1	0.01	0.001		0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
617175	Soil			5.1	34.1	0.37	105.7	0.002	<1	2.12	0.003	0.12	<0.1	2.9	0.10	0.02	29	0.1	<0.02	6.6	1.47	<0.1	0.03		
617176	Soil			5.1	35.5	0.30	77.6	0.001	<1	1.97	0.005	0.12	<0.1	3.2	0.10	<0.02	19	0.2	<0.02	7.5	1.61	<0.1	0.04		
617177	Soil			7.5	36.9	0.47	77.7	0.004	<1	2.16	0.003	0.10	<0.1	3.6	0.12	<0.02	18	0.2	0.03	6.2	2.30	<0.1	<0.02		
617178	Soil			5.9	39.6	0.41	119.4	0.002	<1	2.21	0.006	0.14	<0.1	3.3	0.09	<0.02	24	0.1	0.02	7.0	1.27	<0.1	0.03		
617179	Soil			7.7	32.7	0.32	126.3	0.006	<1	1.85	0.004	0.09	0.1	2.5	0.10	0.03	50	0.3	0.03	6.1	1.50	<0.1	<0.02		
617180	Soil			7.5	33.5	0.48	107.9	0.002	<1	2.22	0.003	0.09	<0.1	3.1	0.10	<0.02	24	0.1	<0.02	5.8	1.38	<0.1	0.04		
617181	Soil			6.4	26.8	0.31	76.8	0.001	<1	2.26	0.001	0.13	<0.1	2.8	0.15	<0.02	27	0.2	<0.02	5.3	1.91	<0.1	0.07		
617182	Soil			7.5	31.7	0.32	175.1	0.003	<1	1.95	0.003	0.22	<0.1	3.1	0.15	<0.02	20	0.1	<0.02	6.4	1.49	<0.1	<0.02		
617183	Soil			4.3	34.5	0.39	174.2	0.003	<1	2.05	0.002	0.19	<0.1	2.5	0.11	0.03	23	0.2	<0.02	6.5	1.68	<0.1	0.04		
617184	Soil			5.7	9.0	4.80	39.4	0.004	3	0.40	0.010	0.04	<0.1	0.8	0.08	0.03	190	0.3	0.03	0.9	0.23	<0.1	0.04		
617185	Soil			5.3	8.9	3.89	28.2	<0.001	3	0.29	0.008	0.07	0.1	2.1	0.11	<0.02	514	0.3	0.03	1.0	0.13	<0.1	0.07		
617186	Soil			5.4	9.7	4.79	54.4	0.003	3	0.65	0.010	0.04	<0.1	0.6	0.06	0.05	119	0.3	0.02	1.2	0.26	<0.1	0.03		
617187	Soil			2.3	5.2	6.64	28.4	0.002	2	0.15	0.007	0.02	0.5	0.7	0.22	<0.02	324	0.4	<0.02	0.5	0.11	<0.1	0.02		
617188	Soil			7.7	12.5	1.63	77.5	0.002	4	0.74	0.006	0.14	<0.1	2.2	0.12	0.11	667	0.3	0.05	1.8	0.45	<0.1	0.08		
617189	Soil			3.4	7.8	0.10	105.4	0.001	1	0.64	0.002	0.22	<0.1	1.7	0.11	0.03	41	0.1	0.05	2.5	3.57	<0.1	<0.02		
617190	Soil			4.7	17.2	0.28	92.6	0.001	<1	1.29	0.003	0.17	<0.1	3.5	0.10	<0.02	18	0.1	0.02	4.0	2.50	<0.1	<0.02		
617191	Soil			5.3	23.2	0.34	190.0	0.004	<1	1.42	0.005	0.13	<0.1	1.6	0.10	0.04	27	0.3	0.05	4.7	1.88	<0.1	<0.02		
617192	Soil			4.5	33.1	0.43	134.5	0.002	<1	1.86	0.005	0.16	<0.1	4.2	0.12	0.06	52	0.1	<0.02	5.8	1.42	<0.1	0.04		
617193	Soil			6.4	27.8	0.27	76.5	0.004	<1	1.68	0.003	0.08	<0.1	2.1	0.10	<0.02	37	0.3	0.04	6.0	1.52	<0.1	<0.02		
617194	Soil			6.5	31.3	0.46	93.8	0.003	<1	1.95	0.004	0.11	<0.1	2.8	0.11	<0.02	37	0.3	0.02	6.4	2.15	<0.1	0.03		
617195	Soil			4.2	34.1	0.40	146.7	0.002	<1	2.04	0.005	0.12	<0.1	3.6	0.15	0.04	30	0.2	<0.02	6.5	2.40	<0.1	0.06		
617196	Soil			4.5	40.3	0.64	236.3	0.007	<1	2.44	0.004	0.19	<0.1	4.2	0.17	<0.02	8	0.2	0.02	7.9	2.86	<0.1	0.08		
617197	Soil			3.8	38.6	0.59	299.3	0.004	<1	2.24	0.004	0.17	<0.1	3.9	0.15	0.02	24	0.2	<0.02	7.1	2.97	<0.1	0.05		
617198	Soil			2.4	45.2	0.69	407.7	0.010	<1	1.80	0.006	0.26	0.1	3.4	0.19	<0.02	11	<0.1	<0.02	5.8	2.93	<0.1	<0.02		
617199	Soil			8.0	29.7	0.35	87.8	0.008	<1	1.73	0.003	0.11	0.1	2.1	0.09	0.02	39	0.3	0.03	5.9	1.37	<0.1	<0.02		
617200	Soil			6.0	25.9	0.18	59.7	0.003	<1	1.41	0.003	0.08	<0.1	2.0	0.07	<0.02	75	0.3	<0.02	6.4	1.26	<0.1	<0.02		
617207	Soil			6.4	41.8	0.62	81.2	0.003	<1	2.38	0.008	0.10	<0.1	4.7	0.12	0.03	32	0.4	0.04	7.6	2.41	<0.1	0.06		
617208	Soil			5.7	35.6	0.63	456.7	0.002	<1	2.30	0.008	0.15	<0.1	10.2	0.15	0.03	34	<0.1	0.03	6.8	3.15	<0.1	0.08		
617209	Soil			2.5	36.8	0.42	107.4	0.003	<1	2.16	0.006	0.11	<0.1	2.3	0.06	0.07	34	0.2	0.03	6.7	1.04	<0.1	0.04		
617210	Soil			4.1	33.3	0.42	240.0	0.005	<1	1.98	0.005	0.19	<0.1	3.0	0.17	0.03	35	0.2	0.05	6.9	2.37	<0.1	0.02		



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 2 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
617175	Soil	0.46	13.2	1.2	<0.05	1.3	4.17	13.0	0.05	<1	1.5	34.0	<10	<2
617176	Soil	0.29	14.3	1.1	<0.05	1.3	4.11	12.5	0.04	1	1.3	31.8	<10	<2
617177	Soil	0.41	11.7	0.9	<0.05	0.7	5.68	24.0	0.04	<1	1.6	32.0	<10	<2
617178	Soil	0.35	13.1	1.5	<0.05	1.2	3.92	14.5	0.04	<1	1.2	35.7	<10	<2
617179	Soil	0.88	11.3	1.2	<0.05	0.9	3.54	18.7	0.03	<1	1.4	32.0	<10	<2
617180	Soil	0.50	10.4	1.0	<0.05	1.2	7.36	23.2	0.03	<1	1.1	32.3	<10	<2
617181	Soil	0.38	16.4	0.8	<0.05	2.2	3.70	19.7	0.03	<1	1.6	41.8	<10	<2
617182	Soil	0.29	21.0	1.9	<0.05	0.8	6.16	23.3	0.03	<1	1.2	30.4	<10	<2
617183	Soil	0.46	16.1	1.5	<0.05	1.0	3.81	12.0	0.03	<1	1.2	40.3	<10	<2
617184	Soil	0.08	2.2	0.3	<0.05	0.8	7.44	11.5	<0.02	<1	0.3	2.8	<10	<2
617185	Soil	0.06	2.0	1.4	<0.05	1.7	7.19	11.9	<0.02	<1	0.3	1.9	<10	<2
617186	Soil	0.12	3.1	0.4	<0.05	0.7	7.46	11.7	<0.02	<1	0.4	3.6	<10	<2
617187	Soil	0.02	0.9	0.6	<0.05	0.8	4.02	5.6	<0.02	<1	0.4	1.2	<10	<2
617188	Soil	0.14	4.8	0.4	<0.05	2.4	8.48	16.3	0.02	<1	0.9	5.8	<10	<2
617189	Soil	0.13	19.3	1.0	<0.05	0.3	2.03	8.1	0.03	<1	0.6	3.3	<10	<2
617190	Soil	0.07	12.4	0.6	<0.05	0.8	5.53	14.2	0.03	<1	1.3	17.3	<10	<2
617191	Soil	0.44	12.5	0.9	<0.05	0.2	3.01	13.4	0.03	<1	1.1	19.0	<10	<2
617192	Soil	0.44	12.3	1.4	<0.05	1.0	9.96	14.3	0.04	<1	1.9	23.7	<10	<2
617193	Soil	0.71	11.2	0.8	<0.05	0.6	2.71	14.4	0.04	<1	0.6	18.2	<10	<2
617194	Soil	0.44	11.5	1.2	<0.05	1.3	4.53	16.1	0.03	<1	1.1	27.9	<10	<2
617195	Soil	0.33	15.6	1.0	<0.05	1.5	6.57	12.5	0.03	<1	1.3	23.5	<10	<2
617196	Soil	0.56	24.5	1.0	<0.05	1.9	5.79	12.7	0.04	<1	2.0	31.1	<10	<2
617197	Soil	0.53	18.9	1.0	<0.05	1.8	5.19	11.3	0.03	<1	2.0	33.4	<10	<2
617198	Soil	0.38	23.9	1.4	<0.05	0.4	5.22	7.2	0.04	<1	2.2	24.1	<10	<2
617199	Soil	0.80	12.3	0.7	<0.05	0.6	3.08	17.1	0.03	<1	0.7	23.4	<10	<2
617200	Soil	0.41	10.5	0.6	<0.05	0.5	2.97	13.4	0.03	<1	0.6	13.0	<10	<2
617207	Soil	0.33	12.3	0.9	<0.05	1.3	7.01	18.9	0.04	<1	1.5	37.4	<10	<2
617208	Soil	0.17	14.4	1.1	<0.05	1.9	26.90	23.7	0.05	<1	2.6	32.2	<10	<2
617209	Soil	0.40	8.8	2.2	<0.05	1.2	3.27	6.7	0.03	<1	1.2	29.8	<10	<2
617210	Soil	0.77	23.5	0.7	<0.05	0.9	3.70	10.8	0.04	<1	1.3	24.2	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
617211	Soil	0.64	39.17	71.17	111.8	59	34.9	48.6	2599	4.83	5.2	0.8	0.5	4.2	10.9	0.09	0.23	0.32	32	0.08	0.058
617212	Soil	0.38	23.46	21.14	123.3	159	25.4	14.0	1381	4.11	3.4	0.4	0.3	2.3	6.8	0.50	0.18	0.43	30	0.06	0.069
617213	Soil	0.40	32.41	29.06	110.2	43	32.0	17.9	637	3.96	5.0	0.5	0.8	2.7	20.4	0.16	0.11	0.36	30	0.24	0.056
617214	Soil	0.37	23.75	23.68	101.5	142	25.5	17.0	798	4.07	4.2	0.4	0.6	3.4	5.9	0.09	0.14	0.34	30	0.03	0.036
617215	Soil	0.34	32.51	44.82	85.5	87	31.2	22.4	1716	3.92	4.9	0.6	0.7	3.1	9.8	0.09	0.16	0.34	26	0.11	0.048
617216	Soil	0.40	16.77	21.96	94.4	178	15.8	8.8	455	3.77	3.1	0.3	1.5	2.8	6.5	0.13	0.16	0.30	36	0.03	0.041
617217	Soil	0.27	13.12	13.06	30.8	51	17.2	18.6	1614	3.40	20.2	0.5	5.6	1.1	14.3	0.13	0.81	0.32	11	7.65	0.113
617218	Soil	0.73	27.99	17.03	45.2	56	20.8	13.3	757	3.14	6.0	0.6	1.7	3.2	5.3	0.03	0.17	0.30	12	0.21	0.050
617219	Soil	0.33	41.41	46.63	72.0	108	54.0	28.2	3041	5.87	6.7	0.6	1.7	6.4	6.7	0.03	0.19	0.45	19	0.15	0.041
617220	Soil	0.48	52.24	26.70	84.4	54	44.7	24.1	953	3.42	3.3	1.0	1.9	6.2	11.5	0.08	0.35	0.39	28	0.40	0.037
617221	Soil	0.60	112.4	40.34	90.1	271	60.0	57.2	4955	3.85	6.8	1.0	5.8	6.5	12.1	0.23	0.38	0.38	25	0.40	0.035
617222	Soil	0.27	58.94	21.19	86.7	25	42.1	25.5	766	4.82	1.0	1.2	1.0	6.2	21.1	<0.01	0.20	0.33	37	0.11	0.033
617223	Soil	0.55	39.87	25.02	94.3	74	30.3	26.5	889	3.97	4.0	0.7	0.3	3.6	10.1	0.07	0.23	0.40	35	0.09	0.040
617224	Soil	0.61	44.00	36.52	94.9	27	38.1	35.6	985	4.40	4.7	0.7	0.3	4.2	10.5	0.03	0.26	0.40	34	0.10	0.025
617225	Soil	0.69	41.30	33.32	91.2	49	34.4	35.6	1116	4.39	4.6	0.8	0.5	4.2	7.9	0.04	0.28	0.37	41	0.07	0.035
617226	Soil	0.60	34.98	28.73	83.2	44	35.4	29.3	977	4.13	4.4	0.7	1.1	4.5	10.9	0.02	0.23	0.40	39	0.08	0.027
617227	Soil	0.53	47.22	63.29	91.2	50	44.4	61.2	1773	4.50	4.6	0.8	0.7	4.1	20.9	0.06	0.18	0.47	35	0.17	0.031
617228	Soil	0.61	37.81	32.37	99.7	58	27.8	28.1	2662	4.23	3.7	0.7	<0.2	2.1	6.5	0.14	0.31	0.33	41	0.14	0.050
617229	Soil	0.42	39.73	30.96	88.4	23	43.1	29.4	953	4.09	4.3	0.8	<0.2	5.4	11.1	0.02	0.22	0.33	34	0.10	0.024
617230	Soil	0.81	31.06	28.45	85.8	35	29.7	15.5	482	5.01	8.0	0.7	<0.2	4.6	6.9	0.06	0.38	0.41	45	0.04	0.042
617231	Soil	0.72	33.82	24.01	110.3	41	21.6	14.2	1126	4.61	6.2	0.5	<0.2	3.3	5.5	0.10	0.26	0.43	47	0.04	0.050
617232	Soil	0.61	42.49	54.84	120.1	36	43.8	48.6	1480	4.81	6.8	0.8	<0.2	4.0	14.0	0.04	0.18	0.45	34	0.09	0.037
617233	Soil	0.55	39.07	51.17	111.0	86	35.7	36.8	1554	4.42	5.6	0.8	<0.2	3.0	12.5	0.38	0.16	0.47	34	0.08	0.059
617234	Soil	0.87	21.00	25.05	105.5	24	22.3	11.5	346	4.54	6.6	0.5	<0.2	4.3	7.4	0.14	0.38	0.34	44	0.08	0.039
617235	Soil	0.91	22.07	33.37	99.1	287	26.6	15.5	870	4.16	7.3	0.6	<0.2	3.0	8.7	0.15	0.46	0.34	42	0.08	0.056
617236	Soil	0.53	20.92	35.10	147.7	121	24.6	21.9	1390	3.79	5.0	0.5	<0.2	3.9	6.7	0.19	0.18	0.40	39	0.05	0.049
617237	Soil	0.73	23.79	28.93	125.6	193	24.4	17.5	1189	4.10	6.0	0.6	0.5	3.5	6.6	0.15	0.25	0.35	43	0.04	0.046
617238	Soil	0.57	60.06	49.03	88.5	74	47.2	54.8	2272	4.41	4.8	0.7	1.0	5.1	13.4	0.02	0.17	0.47	30	0.18	0.029
617239	Soil	0.46	46.24	26.75	89.4	34	40.0	27.4	763	4.28	4.0	0.8	0.6	4.7	11.5	0.04	0.18	0.37	32	0.11	0.023
617240	Soil	0.47	42.41	28.73	87.7	22	38.8	28.9	885	3.88	4.0	0.8	<0.2	4.7	10.2	0.04	0.17	0.39	32	0.09	0.022



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
617211	Soil	7.7	37.7	0.49	105.9	0.002	<1	2.42	0.005	0.14	<0.1	5.7	0.17	<0.02	31	0.2	<0.02	7.5	3.63	<0.1	0.03
617212	Soil	4.2	33.0	0.32	142.8	0.002	<1	1.93	0.005	0.15	<0.1	2.4	0.06	0.04	29	0.3	0.03	7.1	1.21	<0.1	0.04
617213	Soil	3.9	38.0	0.57	98.9	0.001	<1	1.95	0.007	0.13	<0.1	3.2	0.08	0.03	24	0.2	0.03	7.5	1.59	<0.1	0.03
617214	Soil	4.6	35.1	0.40	118.1	<0.001	<1	2.25	0.004	0.17	<0.1	3.1	0.10	<0.02	28	0.2	0.02	6.9	1.27	<0.1	0.04
617215	Soil	5.8	33.3	0.48	121.7	0.001	<1	2.07	0.005	0.14	<0.1	3.8	0.10	0.03	23	0.2	<0.02	6.4	1.51	<0.1	0.05
617216	Soil	5.9	28.7	0.21	167.2	0.001	<1	1.90	0.004	0.18	<0.1	2.2	0.10	<0.02	26	0.2	<0.02	7.5	0.71	<0.1	0.02
617217	Soil	5.6	6.4	4.34	56.9	0.001	6	0.33	0.005	0.05	<0.1	1.5	0.14	0.04	177	0.3	0.04	0.9	0.40	<0.1	0.07
617218	Soil	4.3	7.4	0.10	87.8	<0.001	3	0.54	0.001	0.11	<0.1	3.5	0.07	0.03	26	0.2	<0.02	1.6	2.86	<0.1	0.06
617219	Soil	13.3	19.5	0.29	148.7	0.005	5	1.11	<0.001	0.18	<0.1	12.5	0.21	<0.02	82	0.2	<0.02	3.6	6.18	<0.1	0.04
617220	Soil	16.6	26.9	0.47	171.5	0.011	5	1.55	0.002	0.29	<0.1	5.9	0.17	0.03	40	0.3	0.04	5.1	2.61	<0.1	0.08
617221	Soil	20.5	23.7	0.36	455.8	0.005	3	1.54	0.003	0.16	<0.1	8.2	0.22	0.03	148	0.4	0.03	5.3	2.34	<0.1	0.12
617222	Soil	4.3	40.8	0.67	829.2	0.011	2	1.92	0.005	0.18	0.1	5.8	0.14	<0.02	39	0.2	<0.02	7.3	4.68	<0.1	0.04
617223	Soil	4.5	36.3	0.50	170.9	0.005	2	2.13	0.002	0.19	<0.1	4.0	0.15	0.02	24	0.2	<0.02	8.3	2.30	<0.1	0.05
617224	Soil	5.6	36.7	0.63	120.5	0.007	2	2.10	0.002	0.14	<0.1	5.2	0.14	<0.02	26	0.2	<0.02	8.1	3.19	<0.1	0.04
617225	Soil	5.0	38.6	0.56	204.5	0.008	2	2.17	0.002	0.17	<0.1	4.4	0.17	<0.02	21	0.2	0.03	8.4	2.99	<0.1	0.03
617226	Soil	5.5	39.4	0.60	301.8	0.007	2	2.21	0.002	0.17	<0.1	4.4	0.14	<0.02	22	0.2	<0.02	8.7	2.28	<0.1	0.03
617227	Soil	6.8	42.0	0.67	152.2	0.006	1	2.21	0.005	0.15	<0.1	7.3	0.16	<0.02	49	0.2	<0.02	8.9	3.94	<0.1	0.04
617228	Soil	4.3	36.3	0.43	162.9	0.010	3	1.99	0.005	0.17	<0.1	3.1	0.14	0.04	29	0.3	0.04	7.1	2.22	<0.1	0.03
617229	Soil	4.2	40.2	0.65	170.0	0.011	2	2.00	0.003	0.23	<0.1	5.2	0.19	<0.02	13	<0.1	<0.02	7.7	3.64	<0.1	0.04
617230	Soil	8.4	44.2	0.45	68.9	0.008	1	2.18	0.003	0.10	<0.1	4.0	0.11	<0.02	43	0.4	0.02	8.4	2.46	<0.1	0.04
617231	Soil	5.4	33.7	0.20	109.5	0.002	1	1.76	0.004	0.12	<0.1	3.3	0.10	0.02	47	0.1	0.04	9.1	1.44	<0.1	0.04
617232	Soil	6.6	38.9	0.42	93.5	0.004	1	1.90	0.003	0.11	<0.1	5.3	0.12	<0.02	21	0.1	0.02	7.8	4.78	<0.1	0.03
617233	Soil	7.1	41.0	0.39	131.7	0.003	1	2.09	0.004	0.15	<0.1	4.4	0.11	0.03	32	0.2	<0.02	8.4	2.30	<0.1	0.03
617234	Soil	7.1	33.3	0.34	100.9	0.006	2	1.91	0.002	0.14	<0.1	2.7	0.11	<0.02	28	0.3	0.03	7.7	1.49	<0.1	0.03
617235	Soil	8.3	33.2	0.40	128.5	0.009	2	1.88	0.002	0.13	<0.1	2.6	0.10	0.03	38	0.3	0.02	6.6	1.52	<0.1	<0.02
617236	Soil	6.9	36.5	0.31	194.8	0.003	1	2.27	<0.001	0.18	<0.1	3.1	0.14	0.02	36	0.2	<0.02	8.4	1.36	<0.1	0.03
617237	Soil	8.3	34.2	0.32	185.2	0.005	1	2.05	0.002	0.15	<0.1	3.2	0.12	<0.02	34	0.2	0.04	7.8	1.35	<0.1	0.04
617238	Soil	6.3	36.0	0.59	182.3	0.006	1	2.02	0.005	0.22	<0.1	6.4	0.26	<0.02	44	<0.1	<0.02	8.2	5.17	<0.1	0.05
617239	Soil	6.0	37.3	0.63	227.6	0.006	1	2.10	0.005	0.15	<0.1	6.0	0.13	<0.02	25	0.1	<0.02	8.0	2.79	<0.1	0.04
617240	Soil	5.1	36.3	0.64	127.2	0.006	1	2.01	0.005	0.14	<0.1	5.5	0.13	<0.02	11	0.1	<0.02	8.1	2.92	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 3 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
617211	Soil	0.19	17.5	0.9	<0.05	1.5	8.76	33.3	0.05	<1	1.7	39.6	<10	<2
617212	Soil	0.44	15.5	0.7	<0.05	1.1	3.04	10.9	0.03	<1	1.2	25.3	<10	<2
617213	Soil	0.44	9.2	0.8	<0.05	1.1	3.36	11.3	0.04	<1	1.2	29.5	<10	<2
617214	Soil	0.22	18.0	0.9	<0.05	1.6	3.96	11.2	0.03	<1	1.3	32.0	<10	<2
617215	Soil	0.22	11.5	1.1	<0.05	1.4	7.42	15.9	0.03	<1	1.5	28.9	<10	<2
617216	Soil	0.34	17.9	1.0	<0.05	1.1	2.71	13.0	0.03	<1	0.8	20.0	<10	<2
617217	Soil	0.04	2.6	1.0	<0.05	2.0	10.53	15.0	0.03	<1	0.4	1.9	<10	<2
617218	Soil	0.07	8.6	0.6	<0.05	1.6	7.24	12.4	0.04	<1	0.9	2.8	<10	<2
617219	Soil	0.12	16.3	3.2	<0.05	1.1	15.75	65.7	0.08	1	1.6	17.0	<10	<2
617220	Soil	0.32	21.0	1.0	<0.05	2.4	12.95	43.0	0.03	<1	1.3	23.2	<10	<2
617221	Soil	0.21	18.4	0.8	<0.05	3.7	38.80	55.4	0.02	<1	1.6	19.7	<10	2
617222	Soil	0.45	22.6	2.5	<0.05	1.1	12.21	15.7	0.03	<1	2.3	30.1	<10	<2
617223	Soil	0.42	24.2	1.0	<0.05	1.4	6.76	12.5	0.03	<1	1.6	27.9	<10	<2
617224	Soil	0.21	17.5	1.3	<0.05	1.7	7.68	18.5	0.04	<1	1.8	38.0	<10	<2
617225	Soil	0.47	24.6	1.1	<0.05	1.1	6.25	14.2	0.03	<1	1.7	31.3	<10	<2
617226	Soil	0.36	21.5	1.6	<0.05	1.4	7.12	15.2	0.03	<1	1.6	31.9	<10	<2
617227	Soil	0.13	17.1	2.0	<0.05	1.5	19.49	32.0	0.03	<1	1.5	42.7	<10	<2
617228	Soil	0.63	21.9	1.1	<0.05	0.7	5.37	11.9	0.03	<1	1.4	27.7	<10	<2
617229	Soil	0.26	26.1	1.0	<0.05	1.1	7.85	17.5	0.03	<1	1.8	32.3	<10	<2
617230	Soil	0.61	14.6	1.2	<0.05	1.7	4.72	24.0	0.04	<1	1.0	31.5	<10	<2
617231	Soil	0.43	17.7	1.1	<0.05	1.4	3.88	12.2	0.04	<1	0.9	24.6	<10	<2
617232	Soil	0.12	17.8	1.5	<0.05	1.1	9.42	26.4	0.05	<1	1.8	41.2	<10	<2
617233	Soil	0.29	16.3	1.3	<0.05	1.0	8.26	21.5	0.05	<1	1.9	37.5	<10	<2
617234	Soil	0.69	18.5	1.4	<0.05	1.3	3.14	16.4	0.04	<1	0.9	40.5	<10	<2
617235	Soil	0.72	16.8	1.2	<0.05	0.4	3.68	22.2	0.03	<1	1.2	38.3	<10	<2
617236	Soil	0.46	23.8	1.1	<0.05	1.5	3.58	16.5	0.04	<1	1.2	42.3	<10	<2
617237	Soil	0.60	23.2	1.1	<0.05	1.2	3.99	18.7	0.03	<1	1.3	36.5	<10	<2
617238	Soil	0.07	25.4	1.7	<0.05	2.1	14.59	26.4	0.05	<1	1.9	36.5	<10	<2
617239	Soil	0.12	16.8	1.0	<0.05	2.1	10.76	17.6	0.03	<1	1.6	35.3	<10	<2
617240	Soil	0.09	17.0	0.9	<0.05	2.6	8.20	16.5	0.04	<1	1.5	31.7	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
617241	Soil			1.00	52.67	94.38	131.2	53	38.6	57.1	5165	5.16	6.5	0.7	<0.2	3.8	12.0	0.12	0.28	0.40	34	0.19	0.050
617242	Soil			0.32	65.04	29.37	87.4	22	41.7	27.7	1816	4.75	1.4	0.9	0.5	5.3	14.5	0.06	0.19	0.29	38	0.14	0.034
617243	Soil			0.43	41.24	33.22	85.5	28	43.2	37.3	1248	4.01	4.1	1.0	0.8	6.1	17.6	0.03	0.14	0.42	35	0.15	0.018
617244	Soil			0.66	37.51	33.40	102.0	22	30.9	26.0	1272	5.01	5.0	0.7	<0.2	4.1	8.3	0.15	0.31	0.42	42	0.05	0.049
617245	Soil			0.35	28.32	29.97	79.3	43	36.3	21.7	1333	4.31	2.7	1.0	<0.2	3.5	6.9	0.05	0.36	0.33	45	0.10	0.047
617246	Soil			0.46	35.54	35.88	99.2	39	36.2	32.5	1555	4.45	5.1	1.0	<0.2	4.6	12.8	0.13	0.21	0.47	39	0.08	0.040
617247	Soil			0.43	34.72	38.91	87.0	96	32.0	34.2	2300	4.08	4.8	0.9	<0.2	4.4	12.4	0.15	0.18	0.40	34	0.07	0.036
617248	Soil			0.73	30.74	35.19	104.0	32	30.5	34.6	1424	5.11	6.3	0.8	<0.2	4.3	7.5	0.21	0.30	0.36	44	0.04	0.042
617249	Soil			0.82	24.40	32.34	114.2	62	23.8	13.6	634	5.32	9.8	0.7	<0.2	1.9	6.8	0.12	0.50	0.35	39	0.04	0.080
617250	Soil			0.70	24.28	22.74	128.6	112	21.7	14.6	644	4.33	5.4	0.5	<0.2	3.1	9.9	0.22	0.31	0.37	44	0.08	0.041
617501	Soil			0.38	29.46	25.55	73.3	87	27.7	16.5	634	3.11	10.1	0.8	1.0	3.2	17.9	0.10	0.50	0.36	17	1.79	0.055
617502	Soil			1.51	61.72	28.58	74.6	241	45.8	23.8	1254	4.48	10.5	2.0	5.6	3.0	19.4	0.17	0.87	0.45	31	1.43	0.077
617503	Soil			0.47	35.47	33.99	82.5	137	24.9	25.2	1573	4.10	6.3	0.7	2.0	3.2	7.9	0.11	0.42	0.49	27	0.12	0.059
617504	Soil			0.37	33.87	31.76	101.0	75	34.1	21.9	987	3.71	9.5	0.5	1.9	5.3	45.3	0.11	0.61	0.41	21	1.80	0.039
617505	Soil			0.33	27.46	27.36	79.4	85	28.6	14.4	883	3.54	8.8	0.8	2.4	4.2	38.5	0.12	0.52	0.39	21	1.04	0.050
617506	Soil			0.39	26.70	18.19	75.5	100	24.6	11.3	536	3.10	6.3	0.7	1.5	2.2	29.6	0.11	0.42	0.35	24	0.72	0.086
617507	Soil			0.35	20.81	20.25	87.5	128	19.5	7.0	679	2.24	5.2	0.7	2.2	2.7	65.3	0.09	0.36	0.29	10	3.00	0.063
617508	Soil			0.49	26.47	21.58	90.9	82	25.6	10.9	286	3.20	6.2	1.4	1.5	3.0	90.1	0.09	0.41	0.35	23	1.04	0.052
617509	Soil			0.42	28.61	24.65	103.6	94	28.2	13.4	600	3.37	7.5	0.9	1.9	3.4	82.1	0.13	0.50	0.33	21	1.13	0.052
617510	Soil			0.31	27.13	25.28	79.2	84	24.7	11.8	452	3.02	8.0	0.7	2.3	2.9	50.6	0.10	0.51	0.33	17	1.52	0.049
617511	Soil			0.36	28.91	26.64	80.6	92	25.7	11.9	524	3.16	8.8	0.7	2.0	3.3	36.8	0.10	0.55	0.33	17	1.78	0.051
617512	Soil			0.27	18.93	21.32	68.9	81	19.5	8.1	360	2.48	6.4	0.7	1.1	2.6	52.7	0.10	0.37	0.22	8	4.23	0.045
617513	Soil			0.44	30.26	21.25	74.3	66	23.2	10.6	531	2.80	5.7	1.1	1.4	2.4	66.3	0.10	0.33	0.32	19	1.88	0.042
617514	Soil			0.41	29.28	29.72	81.3	57	27.4	15.6	639	3.54	9.1	0.6	1.8	3.8	41.5	0.10	0.31	0.35	21	1.51	0.041
617515	Soil			0.37	26.95	30.30	109.7	134	34.8	14.8	522	3.13	6.9	0.7	0.5	5.7	27.9	0.07	0.20	0.30	9	0.34	0.031
617516	Soil			0.28	26.29	26.71	95.6	114	37.2	15.9	372	3.07	6.8	0.9	0.8	7.1	212.9	0.07	0.18	0.38	11	2.74	0.048
617517	Soil			0.35	29.75	37.03	75.3	113	36.9	16.5	299	3.23	8.3	0.7	0.6	6.3	108.2	0.04	0.23	0.45	7	1.90	0.026
617518	Soil			0.38	10.66	24.81	83.3	120	18.4	7.5	2066	3.11	27.0	1.6	7.0	0.6	32.6	0.32	1.85	0.14	11	10.51	0.121
617519	Soil			0.27	9.25	19.98	126.4	116	10.2	3.6	1188	2.01	20.8	1.8	7.2	0.7	46.0	0.29	2.07	0.29	9	13.34	0.102
617520	Soil			0.39	11.70	18.53	74.4	88	13.0	6.2	1844	3.47	11.2	1.3	2.9	0.8	17.7	0.28	0.81	0.21	20	6.32	0.121



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
617241	Soil	6.7	35.9	0.54	246.1	0.003	1	2.28	0.004	0.14	<0.1	6.7	0.28	0.03	44	0.3	<0.02	8.2	2.93	<0.1	0.05
617242	Soil	4.5	40.6	0.66	1227	0.007	2	2.26	0.004	0.16	<0.1	7.6	0.14	<0.02	23	0.1	<0.02	8.1	3.42	<0.1	0.04
617243	Soil	6.2	42.0	0.73	250.5	0.012	2	2.13	0.005	0.19	<0.1	5.7	0.17	<0.02	23	<0.1	<0.02	9.3	3.27	<0.1	0.06
617244	Soil	6.2	42.8	0.52	141.6	0.006	1	2.28	0.006	0.16	<0.1	4.8	0.13	0.02	33	0.2	0.03	9.3	2.46	<0.1	0.04
617245	Soil	2.8	42.6	0.57	229.0	0.014	4	1.78	0.007	0.25	0.2	4.3	0.21	0.03	23	0.2	0.02	6.0	3.42	<0.1	0.04
617246	Soil	6.5	45.9	0.59	105.1	0.006	2	2.40	0.004	0.17	<0.1	5.1	0.17	0.02	30	0.2	<0.02	9.7	5.15	<0.1	0.03
617247	Soil	7.8	42.7	0.50	115.3	0.006	2	2.16	0.006	0.15	<0.1	5.4	0.14	0.02	33	0.2	0.02	8.6	2.67	<0.1	0.05
617248	Soil	7.5	42.1	0.48	138.1	0.009	2	2.37	0.004	0.15	<0.1	5.4	0.14	<0.02	18	0.4	<0.02	8.8	3.45	<0.1	0.03
617249	Soil	6.5	34.3	0.35	87.7	0.007	2	2.00	0.003	0.10	<0.1	2.8	0.13	0.05	52	0.3	0.02	6.7	1.95	<0.1	0.02
617250	Soil	7.6	36.5	0.32	141.6	0.009	1	1.83	0.005	0.18	<0.1	3.4	0.11	<0.02	28	0.2	0.03	8.2	1.68	<0.1	<0.02
617501	Soil	7.1	15.3	1.12	93.9	0.003	4	0.94	0.004	0.19	<0.1	4.1	0.13	0.03	63	0.2	0.03	3.1	2.53	<0.1	0.05
617502	Soil	20.3	21.7	0.48	295.2	0.001	6	1.28	0.003	0.20	<0.1	5.6	0.16	0.07	65	0.4	0.06	3.7	0.81	0.1	0.07
617503	Soil	4.9	26.7	0.36	144.0	0.004	4	1.67	0.002	0.13	<0.1	3.0	0.13	0.04	47	0.4	0.02	5.8	1.96	<0.1	0.04
617504	Soil	10.3	25.3	1.10	102.7	0.004	3	1.58	0.003	0.10	<0.1	3.8	0.09	<0.02	98	0.3	<0.02	5.1	1.76	<0.1	0.05
617505	Soil	10.8	23.0	0.55	126.5	0.003	3	1.53	0.003	0.09	<0.1	4.0	0.08	0.04	116	0.4	<0.02	4.6	0.79	<0.1	0.07
617506	Soil	7.9	25.0	0.42	176.6	0.003	3	1.62	0.004	0.10	<0.1	3.0	0.10	0.06	112	0.2	<0.02	5.1	1.16	<0.1	0.07
617507	Soil	5.6	11.9	1.53	72.6	0.002	7	0.79	0.006	0.11	<0.1	3.4	0.11	0.07	75	0.6	0.04	2.2	1.40	<0.1	0.07
617508	Soil	6.9	26.9	0.58	108.4	0.003	5	1.53	0.007	0.09	<0.1	3.6	0.08	0.10	87	0.6	<0.02	5.3	1.12	<0.1	0.08
617509	Soil	8.2	25.3	0.63	117.7	0.003	6	1.51	0.007	0.11	<0.1	3.7	0.08	0.07	114	0.7	<0.02	4.8	1.18	<0.1	0.06
617510	Soil	8.2	18.1	0.56	97.8	0.002	3	1.35	0.003	0.07	<0.1	3.3	0.08	0.06	140	0.3	<0.02	3.8	1.17	<0.1	0.07
617511	Soil	8.9	22.4	0.92	95.5	0.003	4	1.39	0.003	0.09	<0.1	3.5	0.08	0.04	133	0.2	<0.02	4.2	1.05	<0.1	0.05
617512	Soil	4.6	9.1	2.25	59.2	0.001	5	0.57	0.004	0.09	<0.1	2.5	0.09	0.04	57	0.3	<0.02	1.6	1.22	<0.1	0.06
617513	Soil	6.0	21.6	0.48	161.2	0.003	4	1.34	0.005	0.10	<0.1	3.3	0.09	0.07	78	0.3	<0.02	4.3	1.12	<0.1	0.08
617514	Soil	7.3	22.2	0.85	117.4	0.002	3	1.57	0.003	0.10	<0.1	4.1	0.09	0.03	78	0.3	<0.02	4.8	1.09	<0.1	0.05
617515	Soil	7.3	9.5	0.19	126.5	<0.001	5	0.75	0.002	0.13	<0.1	4.5	0.14	<0.02	39	0.2	<0.02	1.9	2.17	<0.1	0.04
617516	Soil	8.4	13.1	0.22	234.8	0.004	7	0.86	0.004	0.26	<0.1	4.7	0.26	0.04	34	0.4	0.03	2.6	3.33	<0.1	0.07
617517	Soil	8.3	9.3	0.16	157.2	0.003	7	0.55	0.003	0.23	<0.1	5.0	0.25	0.09	97	0.5	0.02	1.9	2.66	<0.1	0.04
617518	Soil	4.6	10.4	6.34	66.2	0.003	4	0.37	0.008	0.04	<0.1	1.1	0.09	0.03	164	1.1	<0.02	1.1	0.34	<0.1	0.03
617519	Soil	3.9	6.8	8.27	38.8	0.003	4	0.24	0.009	0.03	<0.1	1.0	0.09	<0.02	286	0.7	<0.02	0.6	0.25	<0.1	0.03
617520	Soil	8.3	13.8	3.84	83.5	0.005	4	1.00	0.006	0.06	<0.1	1.7	0.10	0.06	76	0.5	<0.02	2.3	0.59	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 4 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
617241	Soil	0.19	17.4	2.5	<0.05	1.6	13.88	25.1	0.06	<1	2.1	37.5	<10	<2
617242	Soil	0.27	21.1	1.5	<0.05	1.5	14.24	16.2	0.04	<1	2.5	33.9	<10	<2
617243	Soil	0.07	20.7	1.2	<0.05	3.2	11.96	20.5	0.04	<1	1.8	34.7	<10	<2
617244	Soil	0.34	19.7	3.1	<0.05	1.3	6.98	18.6	0.04	<1	1.5	36.3	<10	<2
617245	Soil	0.47	27.3	1.9	<0.05	0.6	9.03	9.7	0.03	<1	2.0	22.5	<10	<2
617246	Soil	0.27	23.6	1.2	<0.05	1.5	7.17	22.5	0.04	<1	2.1	43.7	<10	<2
617247	Soil	0.25	18.4	1.3	<0.05	1.4	9.26	24.3	0.04	<1	1.5	36.4	<10	<2
617248	Soil	0.35	21.6	1.0	<0.05	1.3	6.26	23.1	0.05	<1	1.8	40.3	<10	<2
617249	Soil	0.58	15.6	1.4	<0.05	0.8	4.40	16.6	0.05	<1	1.2	35.5	<10	<2
617250	Soil	0.53	27.3	1.3	<0.05	0.6	4.02	16.4	0.03	<1	0.7	26.7	<10	<2
617501	Soil	0.15	12.4	1.1	<0.05	1.5	9.44	18.7	0.03	<1	1.1	14.3	<10	<2
617502	Soil	0.18	12.2	2.1	<0.05	1.8	22.16	41.3	0.04	<1	1.7	12.8	<10	<2
617503	Soil	0.54	16.1	0.7	<0.05	1.0	4.56	12.8	0.06	<1	1.5	28.3	<10	<2
617504	Soil	0.19	8.2	1.2	<0.05	1.8	8.83	24.6	0.04	<1	1.1	38.5	<10	<2
617505	Soil	0.37	8.1	0.9	<0.05	2.8	12.21	22.6	0.03	<1	1.1	27.3	<10	<2
617506	Soil	0.46	10.8	0.7	<0.05	1.6	8.51	16.2	0.03	<1	1.1	26.9	<10	<2
617507	Soil	0.19	8.1	0.7	<0.05	2.0	8.78	15.2	0.04	<1	0.6	17.0	<10	<2
617508	Soil	0.49	10.3	0.7	<0.05	2.1	8.49	15.6	0.04	<1	1.0	34.8	<10	<2
617509	Soil	0.39	9.9	0.7	<0.05	2.3	9.08	17.4	0.04	<1	0.9	32.7	<10	<2
617510	Soil	0.36	8.2	0.4	<0.05	2.0	10.28	17.1	0.03	<1	0.9	27.7	<10	<2
617511	Soil	0.32	7.6	1.9	<0.05	1.6	9.61	18.3	0.03	<1	0.8	28.5	<10	<2
617512	Soil	0.10	5.6	0.9	<0.05	1.8	6.91	12.1	0.03	1	0.7	14.6	<10	<2
617513	Soil	0.50	10.0	3.2	<0.05	2.6	9.04	12.2	0.03	<1	1.1	23.1	<10	<2
617514	Soil	0.33	8.4	1.4	<0.05	1.8	8.22	18.7	0.03	<1	1.1	34.3	<10	<2
617515	Soil	0.04	8.6	0.5	<0.05	2.4	10.39	20.9	0.03	<1	1.1	16.8	<10	<2
617516	Soil	0.11	18.9	0.7	<0.05	4.0	11.02	27.2	0.05	1	0.9	13.7	<10	<2
617517	Soil	0.18	14.2	1.4	<0.05	2.6	10.33	22.8	0.05	<1	0.9	7.8	<10	<2
617518	Soil	0.05	2.9	0.8	<0.05	1.0	7.19	9.9	<0.02	<1	0.3	3.0	<10	<2
617519	Soil	0.06	2.0	0.5	<0.05	0.7	7.45	7.9	<0.02	<1	0.3	2.1	<10	<2
617520	Soil	0.16	5.6	1.0	<0.05	0.8	9.97	14.3	<0.02	<1	0.8	7.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
617521	Soil			0.65	19.72	29.23	134.1	185	25.2	10.5	4023	6.65	19.9	1.4	9.1	1.6	13.5	0.45	1.38	0.25	25	2.22	0.138
617522	Soil			0.65	15.91	40.12	76.8	75	20.5	10.2	963	3.90	18.8	1.0	1.9	2.5	8.6	0.17	1.75	0.33	30	0.56	0.097
617523	Soil			0.72	19.09	29.75	74.6	52	22.6	12.3	1047	3.94	17.6	0.6	1.2	1.3	9.6	0.17	0.85	0.33	29	0.41	0.079
617524	Soil			0.20	21.73	9.54	31.4	32	14.5	24.3	887	2.62	9.7	0.6	0.8	1.6	4.8	0.17	0.26	0.43	11	0.18	0.068
617525	Soil			0.62	25.78	27.20	87.8	83	22.8	12.6	1102	3.34	29.2	0.7	1.9	1.8	11.8	0.24	0.79	0.34	18	1.90	0.083
617526	Soil			0.66	23.94	21.33	67.1	60	25.1	11.8	372	3.89	10.1	0.5	1.1	3.6	8.2	0.06	0.80	0.38	26	0.07	0.034
617527	Soil			0.79	20.15	17.84	65.8	114	23.6	10.2	353	3.17	8.3	0.6	3.0	3.0	7.3	0.08	0.52	0.27	39	0.08	0.038
617528	Soil			0.62	31.32	31.12	81.1	78	29.7	24.3	966	4.56	5.8	0.6	1.1	3.4	8.2	0.10	0.29	0.39	33	0.07	0.043
617529	Soil			0.70	23.61	22.54	69.1	110	20.3	12.1	671	3.39	5.9	0.7	0.7	2.6	16.8	0.09	0.31	0.32	33	0.13	0.055
617530	Soil			0.48	23.38	23.19	65.7	85	22.3	10.6	476	3.78	7.1	0.4	<0.2	3.4	5.7	0.10	0.36	0.30	28	0.04	0.029
617531	Soil			0.63	30.31	41.09	94.3	68	32.5	26.9	1996	4.03	6.1	0.7	2.1	4.5	13.5	0.08	0.39	0.30	38	0.17	0.053
617532	Soil			0.54	22.62	20.38	68.8	90	22.2	10.7	422	3.62	4.6	0.7	1.5	4.1	6.4	0.09	0.21	0.28	40	0.05	0.029
617533	Soil			0.47	32.75	26.19	91.3	78	31.5	15.1	679	3.59	8.3	0.6	2.1	5.0	35.3	0.12	0.45	0.34	24	0.93	0.037
617534	Soil			0.51	32.10	44.30	87.7	186	28.6	24.0	1679	3.91	7.5	0.8	0.8	4.0	14.6	0.10	0.38	0.33	27	0.16	0.050
617535	Soil			0.68	22.30	66.41	117.6	84	23.7	34.5	1579	4.31	3.5	0.8	1.9	3.6	10.7	0.13	0.21	0.43	35	0.11	0.069
617536	Soil			0.48	31.30	33.81	82.8	145	30.0	19.0	995	3.59	9.1	1.0	2.6	5.4	25.6	0.08	0.41	0.35	23	1.49	0.047
617537	Soil			0.33	23.22	19.73	70.9	45	29.5	12.6	401	3.50	5.0	0.5	0.7	5.5	11.6	0.04	0.20	0.29	28	0.15	0.019
617538	Soil			0.51	23.91	23.17	86.3	43	29.6	12.7	446	3.63	7.4	0.8	1.3	5.0	23.0	0.10	0.36	0.33	23	0.57	0.034
617590	Soil			0.45	35.21	55.43	138.9	275	42.8	20.6	972	4.82	9.6	1.2	3.9	4.8	21.1	0.25	0.38	0.48	10	0.18	0.054
617591	Soil			0.37	28.99	42.13	123.6	200	37.9	16.0	609	4.29	7.4	1.2	1.0	3.9	12.4	0.13	0.28	0.40	10	0.06	0.051
617592	Soil			0.44	15.95	22.00	83.0	226	20.2	8.1	358	3.00	5.4	0.8	0.3	2.2	31.1	0.07	0.23	0.62	13	0.28	0.085
617593	Soil			0.45	24.76	34.35	96.1	129	31.0	12.0	496	3.78	7.0	0.8	1.7	3.0	80.1	0.12	0.28	0.51	10	1.37	0.079
617594	Soil			0.44	31.20	39.04	111.1	183	34.8	15.0	541	3.77	7.6	0.9	0.2	4.9	66.3	0.14	0.27	0.32	8	0.83	0.049
617595	Soil			0.19	8.69	23.49	40.7	85	10.8	3.6	1314	2.24	17.0	2.1	4.7	0.7	47.8	0.16	2.00	0.10	5	15.04	0.111
617596	Soil			0.32	19.54	56.89	69.6	279	18.2	6.6	1762	4.44	39.6	2.5	7.2	2.0	35.0	0.21	4.17	0.20	10	11.52	0.180
617597	Soil			0.38	22.69	36.01	91.5	168	26.5	10.7	733	3.11	17.3	1.4	3.9	2.8	51.9	0.14	1.46	0.26	9	7.00	0.091
617598	Soil			0.24	11.38	25.53	110.1	70	10.7	5.8	884	2.03	13.1	0.8	5.6	1.0	49.3	0.20	1.37	0.14	6	13.72	0.103
617599	Soil			0.42	19.51	28.74	89.2	123	19.1	8.8	462	2.90	15.2	0.7	5.4	1.5	26.8	0.17	1.24	0.26	14	5.07	0.109
617600	Soil			0.50	20.62	34.58	111.1	141	22.1	9.0	911	3.55	15.0	1.1	3.3	1.9	27.7	0.28	1.40	0.25	13	5.66	0.130
617644	Soil			0.45	6.43	11.14	27.5	78	6.6	3.2	1171	1.40	13.7	0.6	2.7	0.2	48.5	0.20	1.29	0.07	7	15.64	0.079



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: October 30, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
617521	Soil	13.0	17.3	1.23	138.6	0.005	3	1.21	0.003	0.05	<0.1	2.5	0.19	0.08	223	0.6	0.05	3.0	0.71	<0.1	0.07
617522	Soil	13.4	21.8	0.36	125.3	0.003	3	1.65	<0.001	0.08	0.1	3.8	0.18	0.05	111	0.4	0.02	4.0	0.96	<0.1	0.08
617523	Soil	6.6	17.1	0.30	87.8	0.006	3	1.11	0.002	0.12	<0.1	2.5	0.12	0.06	31	0.2	0.05	3.4	1.88	<0.1	0.04
617524	Soil	4.8	6.6	0.10	59.3	0.002	3	0.56	<0.001	0.19	<0.1	3.5	0.10	0.04	16	0.2	0.06	2.1	4.07	<0.1	0.05
617525	Soil	6.6	12.6	0.89	114.0	0.003	4	0.84	0.002	0.12	<0.1	3.4	0.11	0.06	226	0.3	<0.02	2.7	2.07	<0.1	0.06
617526	Soil	8.3	24.5	0.38	57.5	0.004	3	1.52	<0.001	0.10	<0.1	2.6	0.10	<0.02	104	0.3	0.04	5.0	1.77	<0.1	0.04
617527	Soil	9.0	25.8	0.40	69.1	0.006	1	1.64	0.001	0.07	<0.1	2.5	0.11	0.02	26	0.3	0.03	5.3	1.02	<0.1	0.03
617528	Soil	5.5	33.2	0.46	110.1	0.004	2	2.07	0.002	0.14	<0.1	3.4	0.12	0.03	37	0.3	<0.02	7.1	2.36	<0.1	0.04
617529	Soil	7.5	27.0	0.37	186.2	0.003	1	1.72	0.002	0.11	<0.1	2.8	0.10	0.03	32	0.3	<0.02	6.6	1.56	<0.1	0.03
617530	Soil	7.1	23.8	0.36	82.8	0.002	1	1.65	<0.001	0.09	<0.1	2.7	0.09	<0.02	84	0.2	<0.02	5.4	0.82	<0.1	0.04
617531	Soil	7.0	35.5	0.63	150.3	0.015	3	2.05	0.003	0.15	<0.1	3.7	0.16	0.02	37	0.3	<0.02	7.4	2.77	<0.1	0.04
617532	Soil	8.2	31.4	0.40	117.8	0.004	1	2.10	<0.001	0.11	<0.1	3.2	0.13	<0.02	28	<0.1	<0.02	7.4	1.05	<0.1	0.03
617533	Soil	10.5	26.2	0.65	118.7	0.004	3	1.68	0.003	0.11	<0.1	4.2	0.08	0.02	96	0.2	<0.02	5.4	1.08	<0.1	0.09
617534	Soil	10.7	27.2	0.41	99.5	0.002	2	1.88	0.002	0.11	<0.1	4.4	0.09	0.03	24	0.2	<0.02	5.8	2.10	<0.1	0.05
617535	Soil	7.4	32.9	0.35	153.8	0.003	1	2.08	0.002	0.16	<0.1	3.4	0.16	0.04	36	0.2	0.04	7.7	2.98	<0.1	0.06
617536	Soil	10.7	28.3	1.05	219.1	0.004	2	1.64	0.003	0.12	<0.1	5.2	0.12	0.03	81	0.2	0.02	5.6	1.81	<0.1	0.07
617537	Soil	9.5	30.6	0.52	136.3	0.005	1	1.92	0.001	0.12	<0.1	4.4	0.11	<0.02	54	0.2	0.03	6.3	1.55	<0.1	0.03
617538	Soil	10.0	27.5	0.51	105.5	0.003	2	1.81	0.002	0.10	<0.1	4.0	0.09	0.02	72	0.1	<0.02	5.4	1.20	<0.1	0.06
617590	Soil	9.5	11.8	0.15	148.5	0.001	4	1.11	0.003	0.11	<0.1	4.5	0.27	0.02	38	0.3	0.06	2.0	2.66	<0.1	0.07
617591	Soil	7.4	12.9	0.24	73.9	0.001	3	1.30	0.002	0.10	<0.1	3.5	0.16	0.04	40	0.2	0.03	2.0	1.96	<0.1	0.06
617592	Soil	6.5	12.7	0.17	142.0	0.001	3	1.10	0.004	0.11	<0.1	2.9	0.10	0.05	28	0.2	0.04	2.6	1.02	<0.1	0.05
617593	Soil	9.4	8.5	0.11	213.5	<0.001	4	0.80	0.003	0.12	<0.1	4.0	0.18	0.05	95	0.2	0.05	1.9	0.93	<0.1	0.07
617594	Soil	5.8	12.0	0.21	98.2	<0.001	3	0.78	0.004	0.10	<0.1	3.8	0.16	0.07	49	0.2	0.04	1.7	1.91	<0.1	0.04
617595	Soil	3.5	6.1	7.60	39.9	0.003	2	0.26	0.008	0.03	<0.1	1.0	0.07	<0.02	74	0.4	0.06	0.6	0.19	<0.1	0.04
617596	Soil	4.5	11.0	5.51	53.9	0.002	5	0.47	0.008	0.09	<0.1	1.9	0.16	0.02	360	0.6	0.07	1.3	0.25	<0.1	0.07
617597	Soil	5.2	9.9	3.43	86.0	0.002	5	0.59	0.006	0.11	<0.1	2.9	0.13	<0.02	142	0.4	0.02	1.3	1.28	<0.1	0.03
617598	Soil	3.7	5.9	6.69	50.0	0.002	3	0.34	0.008	0.07	<0.1	1.5	0.13	<0.02	264	0.3	0.03	0.9	0.80	<0.1	0.03
617599	Soil	5.5	11.7	2.68	74.0	0.003	4	0.78	0.005	0.09	<0.1	2.7	0.12	0.04	119	0.3	0.06	1.9	1.18	<0.1	0.06
617600	Soil	6.7	12.5	2.92	80.2	0.003	4	0.80	0.007	0.09	<0.1	2.7	0.13	0.04	102	0.5	0.06	2.0	1.13	<0.1	0.07
617644	Soil	2.6	5.9	7.66	50.9	0.003	4	0.34	0.010	0.03	<0.1	0.5	0.12	<0.02	77	0.5	<0.02	0.8	0.28	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 5 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
617521	Soil			0.22	5.6	0.5	<0.05	1.6	16.26	24.3	0.03	<1	0.9	10.2	<10	<2
617522	Soil			0.35	10.2	0.8	<0.05	1.6	15.35	26.5	0.04	2	1.1	11.6	<10	<2
617523	Soil			0.34	11.0	0.8	<0.05	0.6	4.98	16.4	0.03	<1	0.9	12.5	<10	<2
617524	Soil			0.14	15.0	0.6	<0.05	1.0	5.23	13.4	0.03	<1	0.8	1.9	<10	<2
617525	Soil			0.33	10.0	1.4	<0.05	1.3	6.73	15.6	0.04	<1	1.0	8.0	<10	<2
617526	Soil			0.41	11.9	1.3	<0.05	1.0	4.32	21.7	0.03	<1	0.8	26.4	<10	<2
617527	Soil			0.78	9.8	0.7	<0.05	0.9	3.31	21.2	0.03	<1	0.5	20.7	<10	<2
617528	Soil			0.54	16.7	0.9	<0.05	1.4	3.94	13.7	0.05	<1	1.6	35.5	<10	<2
617529	Soil			0.49	14.7	1.3	<0.05	0.6	5.73	17.7	0.03	<1	1.1	30.0	<10	<2
617530	Soil			0.41	10.8	1.0	<0.05	1.1	3.58	15.6	0.03	<1	0.8	28.9	<10	<2
617531	Soil			0.72	19.3	3.5	<0.05	1.4	6.23	17.8	0.05	2	1.2	33.4	<10	<2
617532	Soil			0.76	16.5	1.0	<0.05	1.4	3.50	18.1	0.02	<1	0.9	37.8	<10	<2
617533	Soil			0.40	8.7	1.3	<0.05	2.8	8.97	23.2	0.03	<1	1.0	32.4	<10	<2
617534	Soil			0.23	14.4	1.3	<0.05	1.8	11.79	28.0	0.03	<1	1.3	37.7	<10	<2
617535	Soil			0.50	23.0	2.8	<0.05	1.5	5.53	20.3	0.05	<1	1.7	43.2	<10	<2
617536	Soil			0.34	12.0	1.7	<0.05	2.4	15.68	26.4	0.03	<1	1.3	28.0	<10	<2
617537	Soil			0.37	12.9	2.2	<0.05	1.4	8.81	24.1	0.02	<1	1.4	37.0	<10	<2
617538	Soil			0.43	11.2	0.8	<0.05	2.3	8.12	21.1	0.04	<1	1.1	34.5	<10	<2
617590	Soil			0.07	8.3	1.1	<0.05	2.3	14.49	26.8	0.08	<1	1.7	19.3	<10	<2
617591	Soil			0.11	8.0	0.8	<0.05	2.2	10.16	28.8	0.05	1	1.4	32.7	<10	<2
617592	Soil			0.15	10.5	1.2	<0.05	1.8	8.20	19.4	0.04	<1	1.1	20.6	<10	<2
617593	Soil			0.13	8.2	1.5	<0.05	1.8	11.81	24.6	0.05	<1	1.3	8.6	<10	<2
617594	Soil			0.04	7.0	2.9	<0.05	2.3	10.22	18.3	0.04	<1	0.8	22.8	<10	<2
617595	Soil			0.05	1.9	1.5	<0.05	1.3	7.22	7.7	<0.02	<1	0.2	2.6	<10	<2
617596	Soil			0.08	3.4	1.8	<0.05	2.0	9.84	10.5	<0.02	<1	0.4	4.1	<10	<2
617597	Soil			0.05	6.3	1.8	<0.05	1.4	9.08	13.9	0.03	<1	0.5	11.8	<10	<2
617598	Soil			0.05	4.0	2.9	<0.05	0.9	5.63	8.7	<0.02	1	0.5	4.2	<10	<2
617599	Soil			0.17	6.5	1.3	<0.05	1.5	8.03	13.0	<0.02	<1	1.0	9.8	<10	<2
617600	Soil			0.15	6.5	2.6	<0.05	1.7	10.21	16.0	0.03	<1	0.8	12.2	<10	<2
617644	Soil			0.06	2.5	0.7	<0.05	0.6	3.71	6.2	<0.02	<1	0.3	2.9	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
617645	Soil			0.32	27.30	26.13	80.3	28	29.6	22.9	883	4.00	2.7	0.7	<0.2	4.7	7.6	0.05	0.25	0.32	34	0.12	0.032
617646	Soil			0.31	43.79	27.35	80.1	57	29.6	21.3	1153	4.01	3.2	0.5	0.5	3.0	7.6	0.08	0.21	0.37	27	0.08	0.059
617647	Soil			0.72	21.88	23.96	62.8	34	21.4	14.9	1082	3.75	5.5	0.5	<0.2	3.9	7.2	0.11	0.47	0.30	39	0.07	0.045
617648	Soil			0.40	81.72	23.98	74.3	38	29.5	16.6	6169	4.14	2.2	0.9	1.0	5.0	3.9	0.09	0.30	0.32	39	0.05	0.043
617649	Soil			0.38	17.60	13.74	106.4	101	27.6	14.1	899	4.25	1.2	0.6	<0.2	3.9	6.5	0.13	0.21	0.29	41	0.06	0.058
617650	Soil			0.42	21.13	21.56	99.4	135	24.6	11.4	494	4.15	3.4	0.4	<0.2	3.1	7.1	0.12	0.17	0.35	37	0.04	0.045
617651	Soil			0.78	31.31	60.76	137.9	261	40.7	13.4	561	4.01	10.2	1.3	<0.2	3.9	86.1	0.22	0.31	0.41	12	1.15	0.095
617652	Soil			0.31	25.93	30.10	112.8	164	31.1	11.7	356	3.40	7.7	0.9	<0.2	2.5	102.4	0.14	0.22	0.40	12	1.31	0.089
617653	Soil			0.52	19.98	61.08	119.7	199	22.8	9.6	752	3.36	21.7	1.0	0.3	2.6	22.1	0.27	1.37	0.31	12	0.66	0.085
617654	Soil			0.58	25.90	84.93	65.7	553	28.4	8.6	4315	8.62	31.0	3.7	2.3	2.3	22.6	0.44	2.47	0.22	12	5.93	0.293
617655	Soil			0.51	16.78	43.55	122.6	198	17.8	5.8	1753	4.11	29.1	1.1	5.3	0.6	15.8	0.33	3.22	0.24	19	3.13	0.170
617656	Soil			0.14	3.30	7.25	19.3	31	3.3	1.7	1530	1.36	5.3	1.1	<0.2	0.1	33.6	0.16	0.54	0.02	3	16.15	0.106
617657	Soil			0.55	16.76	28.37	54.4	145	16.6	6.9	3764	5.21	27.1	1.5	5.1	1.3	24.7	0.32	1.91	0.15	17	7.20	0.185
617658	Soil			0.30	7.59	9.90	38.7	58	9.4	3.9	2538	2.43	11.1	0.9	0.5	0.3	39.7	0.31	0.92	0.07	11	12.84	0.123
617659	Soil			0.86	21.24	45.03	76.9	280	24.9	9.2	916	3.35	24.7	2.1	2.7	2.6	20.2	0.13	2.71	0.21	33	2.08	0.198
617660	Soil			0.34	15.59	60.54	284.0	111	14.5	6.0	707	2.58	12.9	1.0	2.1	1.5	31.4	0.36	1.14	0.18	11	8.94	0.110
617661	Soil			0.90	19.45	21.83	88.2	102	19.2	8.9	588	3.81	9.8	0.6	<0.2	2.2	7.9	0.17	0.84	0.30	38	0.07	0.054
617662	Soil			0.83	12.87	17.54	61.0	39	12.0	6.0	347	3.35	8.8	0.5	<0.2	3.5	4.7	0.10	0.62	0.32	42	0.03	0.025
617663	Soil			0.55	33.20	43.80	82.2	83	25.2	17.7	2122	4.49	5.0	0.7	<0.2	2.5	10.2	0.28	0.34	0.39	33	0.29	0.096
617664	Soil			0.60	39.01	66.53	88.2	129	31.8	37.5	2173	3.89	8.6	1.0	0.5	4.6	16.9	0.07	0.43	0.38	28	0.19	0.043
617665	Soil			0.70	27.02	26.47	84.4	47	28.5	15.9	672	3.67	9.6	0.8	0.7	4.3	13.9	0.13	0.92	0.31	36	0.10	0.035
617666	Soil			0.77	24.07	31.37	86.7	53	21.2	18.2	1184	4.74	8.8	0.6	<0.2	3.7	7.6	0.13	0.68	0.35	37	0.03	0.056
617667	Soil			0.76	20.44	23.05	62.6	93	15.5	12.9	1334	3.99	6.6	0.5	<0.2	2.6	6.7	0.13	0.42	0.37	41	0.03	0.057
617668	Soil			0.68	20.42	32.48	107.3	208	19.3	16.7	1128	4.38	7.8	0.5	<0.2	2.6	8.3	0.14	0.33	0.38	41	0.04	0.067
617669	Soil			1.40	22.69	27.82	81.9	131	27.5	12.1	388	3.82	10.7	0.7	3.7	4.4	10.4	0.14	0.98	0.47	50	0.06	0.031
617670	Soil			0.44	33.84	35.16	98.3	29	33.9	17.8	465	4.66	8.4	0.7	1.1	6.4	7.4	0.07	0.38	0.60	32	0.02	0.023
617671	Soil			0.63	21.05	31.08	113.0	132	27.2	18.0	772	4.27	6.0	0.5	1.0	3.9	7.6	0.14	0.36	0.52	37	0.03	0.044
617672	Soil			0.52	30.43	48.20	99.1	230	25.8	19.3	1693	4.06	5.1	0.8	1.3	3.8	9.8	0.10	0.26	0.53	34	0.06	0.070
617673	Soil			0.58	38.36	39.97	175.5	211	57.3	20.6	8174	3.95	7.5	1.0	1.8	6.0	71.7	0.14	0.38	0.39	<2	1.13	0.042
617674	Soil			0.68	43.39	54.66	110.3	193	36.5	16.7	749	5.63	9.8	1.2	2.1	5.8	19.1	0.14	0.42	0.42	16	0.12	0.062



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 30, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
617645	Soil	3.3	36.1	0.64	250.5	0.004	<1	2.21	0.004	0.18	<0.1	4.2	0.15	<0.02	11	<0.1	<0.02	7.7	2.44	<0.1	0.02
617646	Soil	3.7	32.1	0.61	247.4	0.003	<1	2.17	0.004	0.13	<0.1	3.3	0.09	0.03	25	0.2	0.04	6.9	2.95	<0.1	0.04
617647	Soil	6.0	27.7	0.37	231.7	0.005	<1	1.83	0.002	0.13	<0.1	2.8	0.10	<0.02	36	0.1	0.04	5.9	1.73	<0.1	0.02
617648	Soil	4.4	38.1	0.48	811.1	0.004	<1	2.49	<0.001	0.16	<0.1	5.6	0.15	<0.02	59	0.2	0.02	7.2	1.76	<0.1	0.04
617649	Soil	4.2	38.2	0.41	222.8	0.003	<1	2.74	<0.001	0.20	<0.1	3.5	0.17	<0.02	22	<0.1	0.04	8.5	1.54	<0.1	0.06
617650	Soil	4.7	38.8	0.45	109.9	0.001	<1	2.73	0.002	0.13	<0.1	3.2	0.12	<0.02	16	<0.1	0.02	8.7	1.65	<0.1	0.02
617651	Soil	11.3	10.9	0.23	117.2	<0.001	3	0.93	0.004	0.11	<0.1	4.6	0.11	0.05	38	0.6	0.03	2.0	0.96	<0.1	0.09
617652	Soil	12.9	13.6	0.25	143.4	0.001	4	1.01	0.003	0.11	<0.1	4.3	0.12	0.07	60	0.4	0.02	2.6	1.56	<0.1	0.07
617653	Soil	11.2	10.2	0.18	86.8	0.001	<1	0.72	0.002	0.06	<0.1	3.5	0.11	0.05	363	0.2	0.04	1.6	0.90	<0.1	0.05
617654	Soil	9.1	12.9	2.52	71.9	0.001	2	0.49	0.005	0.08	<0.1	2.8	0.12	0.05	640	0.9	0.05	1.4	0.40	<0.1	0.06
617655	Soil	5.9	15.2	1.39	90.9	0.002	4	0.76	0.004	0.06	<0.1	1.6	0.13	0.10	246	0.5	0.06	2.0	0.29	<0.1	0.04
617656	Soil	2.2	4.3	8.26	46.9	0.002	2	0.21	0.011	0.02	<0.1	0.3	0.02	<0.02	24	0.3	<0.02	0.5	0.16	<0.1	<0.02
617657	Soil	9.6	13.7	3.93	98.1	0.005	2	0.86	0.007	0.05	<0.1	1.8	0.10	0.05	220	0.5	0.05	1.9	0.35	<0.1	0.04
617658	Soil	4.9	8.5	7.17	117.8	0.004	3	0.62	0.007	0.03	<0.1	0.7	0.06	<0.02	40	0.4	0.03	1.2	0.29	<0.1	<0.02
617659	Soil	12.7	20.3	1.23	113.6	0.009	3	1.16	0.007	0.08	0.1	3.0	0.09	0.04	293	0.3	0.07	2.9	0.66	<0.1	0.07
617660	Soil	6.3	9.9	4.65	54.2	0.003	4	0.60	0.007	0.07	<0.1	2.2	0.06	<0.02	96	0.3	0.02	1.7	0.75	<0.1	0.03
617661	Soil	7.9	23.9	0.31	94.9	0.011	<1	1.41	0.003	0.10	0.1	2.1	0.11	0.03	58	0.2	0.03	5.3	1.69	<0.1	<0.02
617662	Soil	8.3	18.6	0.15	78.6	0.006	1	1.22	0.001	0.09	<0.1	1.8	0.10	<0.02	29	<0.1	0.04	5.6	1.44	<0.1	<0.02
617663	Soil	4.9	36.1	0.43	151.8	0.006	<1	2.36	0.003	0.12	<0.1	3.8	0.11	0.07	43	0.2	0.06	6.8	3.16	<0.1	0.04
617664	Soil	13.0	36.9	0.58	141.2	0.002	<1	1.98	0.004	0.11	<0.1	6.0	0.11	<0.02	104	<0.1	0.03	7.0	2.11	<0.1	0.07
617665	Soil	9.7	32.5	0.55	128.1	0.011	<1	1.76	0.003	0.12	<0.1	3.6	0.11	<0.02	130	0.1	0.05	5.4	1.93	<0.1	<0.02
617666	Soil	7.7	33.4	0.35	50.2	0.008	<1	1.83	0.002	0.08	<0.1	2.9	0.07	0.02	66	0.3	0.04	6.1	2.49	<0.1	0.04
617667	Soil	8.0	27.7	0.21	106.2	0.004	<1	1.60	0.003	0.09	<0.1	2.3	0.09	0.02	38	0.2	0.03	7.3	1.66	<0.1	0.03
617668	Soil	6.9	32.3	0.29	101.2	0.004	<1	1.90	0.003	0.13	<0.1	2.4	0.08	0.03	26	0.1	0.03	7.4	1.46	<0.1	0.04
617669	Soil	11.3	31.6	0.44	91.2	0.015	2	2.02	0.001	0.12	0.1	2.5	0.13	<0.02	61	0.5	0.05	5.9	1.68	<0.1	0.02
617670	Soil	6.7	37.5	0.63	123.8	0.003	<1	2.36	<0.001	0.10	<0.1	3.6	0.12	<0.02	20	0.2	0.04	7.9	2.76	<0.1	0.04
617671	Soil	6.2	34.1	0.41	206.9	0.003	1	2.45	<0.001	0.18	<0.1	2.7	0.16	<0.02	32	0.3	0.04	7.6	2.32	<0.1	0.04
617672	Soil	6.5	32.2	0.32	186.1	0.002	1	2.22	0.001	0.17	<0.1	3.2	0.16	0.04	60	0.2	<0.02	7.4	2.16	<0.1	0.06
617673	Soil	3.6	5.0	0.08	209.5	<0.001	4	0.38	0.003	0.10	<0.1	2.8	0.21	0.03	122	0.4	0.07	1.0	4.26	<0.1	0.05
617674	Soil	8.8	17.4	0.21	132.6	0.001	2	1.27	0.001	0.09	<0.1	4.5	0.24	0.03	36	0.6	0.03	2.7	3.11	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 6 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
617645	Soil	0.36	20.5	1.7	<0.05	1.7	5.02	10.5	0.04	<1	2.1	33.2	<10	<2
617646	Soil	0.31	14.8	1.3	<0.05	1.3	3.92	10.8	0.04	<1	2.1	37.4	<10	<2
617647	Soil	0.51	16.1	0.9	<0.05	1.0	3.41	13.7	0.02	<1	1.2	28.4	<10	<2
617648	Soil	0.55	22.5	1.7	<0.05	1.7	8.18	15.1	0.04	<1	2.7	28.0	<10	<2
617649	Soil	0.81	28.8	2.2	<0.05	1.6	2.80	9.4	0.04	<1	1.3	41.7	<10	<2
617650	Soil	0.40	17.2	1.6	<0.05	1.2	2.82	11.4	0.04	<1	1.3	52.9	<10	<2
617651	Soil	0.10	7.6	1.2	<0.05	3.1	17.13	27.6	0.04	1	1.1	17.7	<10	<2
617652	Soil	0.24	9.7	0.9	<0.05	2.4	18.78	31.6	0.04	<1	1.4	27.2	<10	<2
617653	Soil	0.11	6.2	0.5	<0.05	1.3	12.72	30.1	0.02	<1	0.9	8.5	<10	<2
617654	Soil	0.07	3.6	0.4	<0.05	1.9	23.96	20.5	<0.02	<1	0.4	2.4	<10	<2
617655	Soil	0.10	4.0	0.8	<0.05	1.0	13.90	12.2	0.02	<1	0.5	4.2	<10	<2
617656	Soil	0.03	1.6	1.1	<0.05	0.5	4.74	4.5	<0.02	<1	0.2	1.5	<10	<2
617657	Soil	0.14	3.7	0.6	<0.05	1.2	13.95	19.0	<0.02	<1	0.6	6.2	<10	<2
617658	Soil	0.09	2.7	0.5	<0.05	0.4	8.73	10.9	<0.02	<1	1.0	4.7	<10	<2
617659	Soil	0.38	5.9	0.7	<0.05	1.6	14.88	25.7	0.03	<1	0.6	11.6	<10	<2
617660	Soil	0.11	5.5	0.8	<0.05	1.3	9.54	14.3	<0.02	<1	0.6	8.4	<10	<2
617661	Soil	0.66	16.0	1.0	<0.05	0.3	3.53	19.8	0.04	<1	0.7	19.1	<10	<2
617662	Soil	0.57	17.9	1.0	<0.05	0.8	2.53	17.4	0.03	<1	0.4	16.7	<10	<2
617663	Soil	0.55	15.1	2.1	<0.05	1.0	7.17	17.7	0.03	<1	1.7	33.9	<10	<2
617664	Soil	0.14	10.7	1.3	<0.05	2.1	26.26	38.4	0.03	1	1.5	36.1	<10	<2
617665	Soil	0.45	12.6	1.4	<0.05	0.5	6.27	25.3	0.03	<1	1.3	34.2	<10	<2
617666	Soil	0.55	10.6	1.3	<0.05	1.2	3.88	18.7	0.03	<1	0.8	31.4	<10	<2
617667	Soil	0.61	15.6	1.2	<0.05	1.0	3.28	17.6	0.03	<1	0.8	18.6	<10	<2
617668	Soil	0.56	17.6	1.3	<0.05	1.2	2.88	15.5	0.04	<1	1.0	36.7	<10	<2
617669	Soil	0.85	14.4	2.5	<0.05	1.2	3.45	22.7	0.06	<1	0.9	32.5	<10	<2
617670	Soil	0.20	14.0	1.6	<0.05	3.5	5.65	16.4	0.05	<1	1.6	47.8	<10	<2
617671	Soil	0.37	24.4	1.8	<0.05	1.8	3.55	13.3	0.03	<1	1.3	40.5	<10	<2
617672	Soil	0.53	21.2	1.8	<0.05	2.0	4.11	15.7	0.03	<1	1.6	28.9	<10	<2
617673	Soil	0.09	7.2	0.6	<0.05	4.7	10.08	12.2	0.03	<1	0.8	5.4	<10	<2
617674	Soil	0.05	8.8	0.8	<0.05	1.4	11.80	27.8	0.05	<1	1.3	22.3	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
617675	Soil			0.82	26.59	31.11	102.9	245	29.2	10.8	498	3.72	7.7	1.1	0.8	1.9	11.2	0.12	0.45	0.38	20	0.06	0.070
617676	Soil			0.58	34.70	40.37	107.9	172	42.8	18.9	791	4.86	6.7	0.8	<0.2	6.6	17.5	0.07	0.27	0.40	15	0.13	0.055
617677	Soil			0.50	20.40	25.96	97.0	116	21.3	9.0	315	3.32	6.9	0.5	0.9	1.1	6.7	0.12	0.32	0.45	19	0.05	0.057
617678	Soil			0.70	18.19	29.37	88.5	190	28.0	7.8	1566	6.28	21.8	1.9	2.5	3.8	10.5	0.18	1.28	0.42	23	1.08	0.136
617679	Soil			0.12	3.27	8.55	14.3	32	4.5	1.6	885	0.87	7.6	1.7	1.4	0.3	38.4	0.06	0.86	0.04	3	13.71	0.080
617680	Soil			0.66	49.00	49.94	189.4	213	61.0	25.6	1082	5.56	9.3	2.0	0.8	9.5	82.1	0.24	0.33	0.36	14	0.59	0.056
1097699	Soil			0.72	49.55	51.08	189.2	224	62.5	25.9	1076	5.48	9.2	2.1	0.7	9.6	83.2	0.27	0.35	0.41	13	0.61	0.059
1097700	Soil			0.58	39.69	81.08	74.8	128	42.7	25.6	667	4.99	8.0	1.4	0.5	8.2	15.7	0.06	0.34	0.47	15	0.07	0.040
617051	Soil			0.50	29.18	27.65	74.4	75	27.2	12.1	368	4.61	1.0	0.6	0.7	3.3	5.4	0.08	0.25	0.33	41	0.05	0.055
617052	Soil			0.56	29.13	26.83	76.8	63	33.6	15.1	506	3.57	7.2	0.7	2.0	5.1	39.3	0.07	0.41	0.38	26	0.62	0.036
617053	Soil			0.37	13.74	26.45	33.2	146	13.5	6.4	3755	5.10	23.5	1.4	28.7	1.4	26.1	0.17	2.60	0.15	11	6.65	0.154
617333	Soil			0.30	4.66	8.11	73.2	34	3.5	2.0	1268	0.96	4.9	0.7	<0.2	<0.1	32.6	0.30	0.42	0.07	5	13.85	0.101
617334	Soil			0.54	6.94	24.86	22.1	65	6.6	3.8	867	1.23	12.3	0.7	6.1	0.2	47.6	0.13	1.86	0.05	6	13.83	0.078
617335	Soil			0.34	27.63	21.59	24.1	73	21.5	20.0	1341	2.57	20.7	0.6	1.5	2.8	6.6	0.07	0.59	0.43	12	0.55	0.044
617336	Soil			0.47	21.34	24.77	36.7	43	17.9	14.7	1260	2.57	12.8	0.6	0.8	2.8	7.2	0.11	0.53	0.37	12	0.39	0.053
617337	Soil			0.56	29.16	29.33	74.2	109	24.3	17.5	1090	4.18	4.2	0.6	1.1	2.5	6.0	0.07	0.40	0.34	35	0.07	0.062
617338	Soil			0.67	17.80	18.52	67.2	66	15.7	10.8	413	4.00	5.5	0.5	1.2	3.9	5.2	0.14	0.39	0.35	42	0.02	0.032
617339	Soil			0.36	29.85	18.00	68.6	141	25.3	16.2	820	4.35	1.9	0.6	1.1	4.2	3.5	0.17	0.22	0.39	36	0.02	0.039
617340	Soil			0.77	31.96	32.78	122.2	75	27.0	24.9	1292	4.88	4.8	0.7	0.6	4.1	6.7	0.17	0.36	0.45	43	0.03	0.044
617341	Soil			0.72	13.33	14.53	61.7	102	15.7	9.3	566	3.54	4.0	0.6	1.4	3.9	6.7	0.05	0.35	0.31	51	0.05	0.041
617342	Soil			0.64	22.89	22.70	91.3	88	27.6	13.2	569	3.83	3.9	0.5	0.9	4.2	7.3	0.08	0.24	0.33	40	0.03	0.028
617343	Soil			0.51	23.69	20.89	108.3	96	29.9	20.6	1779	3.84	3.8	0.3	1.1	3.0	16.7	0.09	0.22	0.54	33	0.19	0.045
617344	Soil			0.79	27.62	27.22	74.6	103	27.8	13.7	578	4.26	6.3	0.6	1.3	3.6	5.7	0.09	0.39	0.39	35	0.03	0.045
617345	Soil			1.00	20.88	19.13	55.2	126	16.8	9.3	490	2.74	5.5	1.6	1.8	1.4	96.2	0.24	0.43	0.39	37	1.31	0.063
617346	Soil			0.72	15.99	34.95	156.8	152	19.9	9.4	8341	13.52	29.4	2.4	8.5	2.3	17.4	1.08	2.34	0.24	27	3.44	0.178
1267601	Soil			0.68	40.95	39.66	87.8	56	32.4	25.3	914	4.27	7.6	0.8	1.3	5.4	14.5	0.05	0.24	0.51	34	0.13	0.039
1267602	Soil			0.65	32.85	32.08	84.4	303	29.9	21.5	960	4.31	6.4	0.7	1.2	4.7	8.3	0.13	0.19	0.45	37	0.05	0.051
1267603	Soil			1.13	25.49	26.33	112.5	109	19.9	10.4	552	7.07	7.4	0.7	1.7	3.8	8.0	0.27	0.44	0.47	58	0.05	0.123
1267604	Soil			0.84	25.03	39.10	85.0	66	23.2	12.8	437	4.23	6.3	0.6	1.0	3.8	10.2	0.12	0.34	0.49	41	0.04	0.037
1267605	Soil			0.88	21.57	41.86	112.2	88	19.2	17.4	773	3.78	6.6	0.6	0.3	3.6	15.4	0.12	0.37	0.44	46	0.04	0.041



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
617675	Soil	6.0	14.9	0.17	109.0	0.001	2	1.13	0.003	0.08	<0.1	2.1	0.15	0.05	29	0.3	0.05	2.8	1.92	<0.1	0.04
617676	Soil	7.9	17.6	0.29	148.8	0.002	4	1.43	0.005	0.11	<0.1	5.5	0.21	<0.02	30	0.2	0.04	3.4	3.38	<0.1	0.04
617677	Soil	4.6	11.5	0.10	100.0	0.002	3	0.89	0.001	0.13	<0.1	1.5	0.16	0.03	37	0.3	0.03	3.4	1.77	<0.1	<0.02
617678	Soil	12.7	18.3	0.45	113.9	0.002	2	1.29	0.002	0.12	<0.1	4.1	0.14	0.06	243	0.4	0.05	2.7	1.32	<0.1	0.10
617679	Soil	1.9	2.9	7.04	31.0	0.002	2	0.14	0.007	0.01	<0.1	0.4	0.05	<0.02	22	0.5	<0.02	0.3	0.12	<0.1	0.03
617680	Soil	8.5	15.5	0.19	175.9	0.001	3	1.34	0.004	0.12	<0.1	5.6	0.27	0.04	46	0.3	<0.02	2.3	2.63	<0.1	0.11
1097699	Soil	8.5	15.7	0.21	179.3	0.001	3	1.35	0.004	0.13	<0.1	5.6	0.29	0.04	41	0.5	0.04	2.4	2.63	<0.1	0.11
1097700	Soil	8.7	17.9	0.25	137.1	0.003	3	1.28	0.003	0.16	<0.1	6.1	0.23	0.03	50	0.5	0.03	3.3	5.68	<0.1	0.06
617051	Soil	4.0	34.3	0.34	259.4	0.004	2	2.48	0.003	0.22	<0.1	3.2	0.19	0.03	34	0.2	0.02	8.7	2.18	<0.1	0.04
617052	Soil	9.2	30.6	0.56	153.3	0.005	2	1.72	0.005	0.13	<0.1	4.2	0.11	0.03	62	0.1	<0.02	5.7	1.58	<0.1	0.07
617053	Soil	10.2	9.0	3.20	96.0	0.005	3	0.60	0.004	0.06	<0.1	2.2	0.11	<0.02	307	0.4	0.05	1.4	0.37	<0.1	<0.02
617333	Soil	2.0	3.7	7.14	56.5	0.003	6	0.29	0.011	0.03	<0.1	0.2	0.04	0.03	202	0.4	0.03	0.6	0.24	<0.1	<0.02
617334	Soil	2.8	5.3	7.18	49.5	0.002	3	0.26	0.009	0.03	<0.1	0.5	0.19	<0.02	217	0.3	0.02	0.6	0.21	<0.1	<0.02
617335	Soil	5.8	9.4	0.20	78.7	<0.001	5	0.76	0.002	0.28	<0.1	4.0	0.13	0.04	36	0.1	0.09	2.1	2.70	<0.1	0.08
617336	Soil	7.3	10.2	0.19	74.2	0.001	5	0.76	0.001	0.25	<0.1	3.4	0.10	0.04	44	0.2	0.06	2.0	1.14	<0.1	0.07
617337	Soil	4.2	30.9	0.40	112.7	0.005	1	1.86	0.004	0.18	<0.1	2.6	0.14	0.03	50	0.2	0.03	6.8	3.19	<0.1	0.03
617338	Soil	6.6	25.9	0.23	88.5	0.002	<1	1.86	0.002	0.14	<0.1	2.6	0.14	<0.02	28	0.1	<0.02	7.7	1.94	<0.1	0.03
617339	Soil	2.9	35.3	0.53	72.2	0.002	<1	2.68	0.002	0.13	<0.1	3.7	0.14	<0.02	34	0.2	<0.02	8.7	2.19	<0.1	0.04
617340	Soil	6.5	37.5	0.38	163.4	0.004	2	2.75	0.005	0.18	<0.1	3.8	0.15	<0.02	37	0.3	0.06	8.5	3.28	<0.1	0.05
617341	Soil	7.9	28.8	0.31	150.9	0.008	1	2.01	0.002	0.18	<0.1	2.8	0.16	<0.02	21	0.1	0.05	8.1	1.57	<0.1	<0.02
617342	Soil	7.1	38.1	0.44	128.9	0.002	<1	2.74	0.003	0.14	<0.1	3.2	0.14	<0.02	20	0.2	0.02	8.5	2.05	<0.1	0.04
617343	Soil	5.1	34.4	0.50	329.5	0.002	<1	2.55	0.002	0.29	<0.1	3.4	0.13	0.02	42	0.2	0.03	7.8	1.23	<0.1	0.03
617344	Soil	6.9	33.4	0.40	85.0	0.003	1	2.15	0.002	0.17	<0.1	3.0	0.13	0.02	28	0.3	0.04	6.6	1.48	<0.1	0.03
617345	Soil	7.5	24.8	0.35	158.2	0.008	4	1.24	0.006	0.12	<0.1	2.2	0.11	0.06	18	0.5	0.04	5.6	1.33	<0.1	0.02
617346	Soil	25.0	22.0	1.70	226.7	0.009	4	1.53	0.005	0.08	0.1	3.4	0.18	0.06	164	0.9	0.05	3.7	0.82	<0.1	0.06
1267601	Soil	10.5	41.8	0.54	100.2	0.002	<1	2.34	0.008	0.13	<0.1	5.1	0.11	<0.02	11	0.1	0.03	8.2	3.07	<0.1	0.03
1267602	Soil	7.5	42.2	0.40	105.8	0.002	<1	2.47	0.006	0.16	<0.1	3.8	0.13	<0.02	34	0.3	0.03	8.0	1.73	<0.1	0.03
1267603	Soil	6.9	43.9	0.30	81.7	0.005	<1	2.34	0.004	0.13	<0.1	3.0	0.10	0.03	53	0.3	0.04	10.3	1.38	<0.1	0.04
1267604	Soil	7.3	34.9	0.32	107.2	0.003	<1	2.34	0.004	0.16	<0.1	3.2	0.15	<0.02	25	0.1	0.03	7.7	3.26	<0.1	0.04
1267605	Soil	7.9	32.1	0.30	147.1	0.004	1	2.50	0.002	0.19	<0.1	3.6	0.19	0.02	15	0.2	0.05	7.6	2.29	<0.1	0.03



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 7 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
617675	Soil	0.16	9.7	0.8	<0.05	1.0	6.78	17.5	0.04	<1	1.1	17.8	<10	<2
617676	Soil	0.10	13.0	0.8	<0.05	2.0	14.62	27.5	0.06	<1	1.3	46.5	<10	<2
617677	Soil	0.23	17.3	1.0	<0.05	0.7	2.91	11.9	0.04	<1	0.4	6.1	<10	<2
617678	Soil	0.20	10.4	0.7	<0.05	3.1	18.03	16.2	0.03	<1	1.3	7.1	<10	<2
617679	Soil	<0.02	1.0	0.4	<0.05	0.6	4.90	4.0	<0.02	<1	0.1	1.0	<10	<2
617680	Soil	0.03	8.4	1.2	<0.05	7.2	17.23	27.2	0.04	<1	1.5	22.4	12	<2
1097699	Soil	0.06	8.3	1.1	<0.05	7.6	17.35	27.1	0.05	1	1.4	23.3	<10	<2
1097700	Soil	0.10	15.5	0.9	<0.05	4.0	9.76	27.7	0.03	<1	1.1	25.4	<10	<2
617051	Soil	0.86	31.1	2.1	<0.05	1.4	2.50	8.0	0.03	<1	0.8	32.1	<10	<2
617052	Soil	0.52	12.4	2.1	<0.05	2.7	9.63	21.1	0.02	<1	1.3	34.7	<10	<2
617053	Soil	0.14	4.1	1.0	<0.05	0.7	12.17	18.9	<0.02	<1	0.4	3.2	<10	<2
617333	Soil	0.05	2.2	1.2	<0.05	0.3	3.24	4.6	<0.02	<1	0.2	1.8	<10	<2
617334	Soil	0.04	2.0	4.4	<0.05	0.3	4.17	6.4	<0.02	<1	0.2	1.9	<10	<2
617335	Soil	0.08	11.4	1.1	<0.05	2.1	8.03	14.3	<0.02	<1	1.4	3.6	<10	<2
617336	Soil	0.12	11.6	3.6	<0.05	1.7	6.62	18.0	0.03	<1	1.0	3.5	<10	<2
617337	Soil	0.65	19.5	1.9	<0.05	1.3	3.40	9.0	0.04	<1	0.9	24.5	<10	<2
617338	Soil	0.49	21.5	2.3	<0.05	2.0	3.03	13.8	0.04	<1	0.8	21.0	<10	<2
617339	Soil	0.34	21.5	2.2	<0.05	1.3	3.69	7.3	0.03	<1	0.9	37.2	<10	<2
617340	Soil	0.53	26.2	2.6	<0.05	1.8	4.44	14.4	0.05	<1	1.6	47.0	<10	<2
617341	Soil	0.65	23.5	2.6	<0.05	0.7	2.83	15.7	0.03	<1	0.5	18.1	<10	<2
617342	Soil	0.32	18.8	3.3	<0.05	1.5	3.45	14.9	0.04	<1	1.0	42.0	<10	3
617343	Soil	0.32	24.5	2.6	<0.05	1.2	2.84	11.1	0.03	<1	1.5	40.2	<10	<2
617344	Soil	0.65	19.9	3.5	<0.05	1.4	3.83	15.0	0.04	<1	0.8	28.3	<10	<2
617345	Soil	0.85	17.5	2.7	<0.05	0.5	3.28	15.1	0.03	<1	0.6	24.7	<10	<2
617346	Soil	0.39	7.7	1.0	<0.05	1.7	25.65	43.7	0.04	<1	0.6	6.5	<10	<2
1267601	Soil	0.18	14.3	5.4	<0.05	1.5	8.98	28.2	0.04	<1	1.6	39.9	<10	<2
1267602	Soil	0.32	17.7	3.5	<0.05	1.6	4.26	16.1	0.06	<1	1.3	37.9	<10	<2
1267603	Soil	0.87	17.4	6.0	<0.05	1.6	3.12	13.9	0.06	<1	0.9	31.3	<10	<2
1267604	Soil	0.32	20.4	6.0	<0.05	1.2	3.95	16.4	0.05	<1	1.1	44.7	<10	<2
1267605	Soil	0.47	25.8	2.8	<0.05	1.2	3.40	17.3	0.04	<1	1.1	34.4	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1267606	Soil		1.13	15.77	42.87	135.3	91	20.1	13.4	910	3.42	6.0	0.4	4.2	1.8	8.1	0.37	0.45	0.42	36	0.06	0.070
1267607	Soil		0.63	12.19	26.41	217.4	79	16.2	17.2	1311	3.70	4.2	0.4	1.7	3.4	7.4	0.44	0.28	0.43	41	0.04	0.069
1267608	Soil		0.57	16.74	35.07	117.2	150	22.9	12.9	436	4.09	3.7	0.4	2.1	3.5	7.4	0.12	0.22	0.40	33	0.03	0.051
1267501	Soil		0.45	36.43	24.68	32.7	90	27.2	31.6	1788	3.12	36.8	0.5	1.9	2.4	6.8	0.10	0.93	0.54	10	0.30	0.046
1267502	Soil		0.73	27.15	25.10	61.8	83	17.7	14.5	1138	3.37	6.8	0.5	2.3	1.2	5.4	0.37	0.52	0.38	26	0.06	0.071
1267503	Soil		0.53	36.13	40.92	84.2	56	27.6	29.6	1694	3.81	3.3	0.6	0.9	3.9	8.1	0.11	0.24	0.35	29	0.08	0.038
1267504	Soil		0.66	32.13	38.64	97.5	45	32.0	23.6	1761	4.38	6.4	0.8	1.1	4.9	10.4	0.12	0.42	0.43	39	0.08	0.045
1267505	Soil		0.60	25.77	25.23	83.1	121	24.6	17.9	1153	3.84	4.7	0.5	0.8	2.6	9.0	0.10	0.37	0.39	38	0.09	0.051
1267506	Soil		1.03	21.36	25.78	79.1	80	16.5	15.3	1441	3.89	7.3	0.5	1.2	2.0	7.6	0.29	0.66	0.34	42	0.05	0.055
1267507	Soil		0.86	21.44	19.76	70.0	115	15.0	9.5	487	4.10	6.4	0.5	2.6	1.9	6.9	0.21	0.57	0.35	43	0.05	0.061
1267508	Soil		0.87	32.62	67.77	88.1	50	23.9	44.7	2554	4.70	5.6	0.8	2.2	3.8	8.9	0.15	0.40	0.42	37	0.06	0.050
1267509	Soil		0.74	27.47	55.31	84.9	43	26.9	26.8	2436	4.05	5.2	0.7	0.9	4.5	10.5	0.11	0.40	0.36	38	0.08	0.049
1267510	Soil		0.83	45.82	44.11	98.9	87	21.5	26.9	7626	3.86	5.1	0.7	<0.2	2.0	6.3	0.48	0.54	0.39	38	0.09	0.066
1267511	Soil		0.49	26.27	32.13	112.9	155	29.6	21.5	3100	4.49	2.3	0.6	<0.2	3.0	6.5	0.15	0.24	0.34	50	0.04	0.072
1267512	Soil		0.58	13.04	29.88	95.0	96	27.9	20.0	1727	4.51	3.3	0.7	<0.2	4.7	5.7	0.14	0.40	0.37	43	0.07	0.041
1267513	Soil		0.54	27.79	27.04	80.2	185	28.1	16.3	1306	3.81	5.9	0.7	0.8	2.3	10.3	0.10	0.43	0.31	33	0.10	0.065
1267514	Soil		0.71	22.68	24.00	82.8	142	20.1	10.3	884	3.69	7.4	0.6	1.0	1.0	6.8	0.16	0.58	0.30	31	0.05	0.095
1267515	Soil		0.63	24.29	47.00	120.7	114	24.4	29.8	1628	3.91	6.4	0.6	0.5	3.9	11.7	0.10	0.26	0.41	36	0.10	0.053
1267516	Soil		0.44	21.10	37.62	113.2	212	20.9	19.4	1739	3.69	5.8	0.5	<0.2	2.3	12.4	0.13	0.23	0.39	33	0.14	0.076
1267517	Soil		0.77	17.05	17.14	70.8	217	9.0	10.0	1082	3.46	6.2	0.5	0.7	0.8	7.1	0.19	0.49	0.34	43	0.03	0.063
1267518	Soil		0.57	23.91	29.46	101.2	211	22.6	13.3	982	4.15	5.2	0.5	0.5	3.4	6.3	0.16	0.25	0.33	41	0.04	0.079
1267519	Soil		0.94	21.91	36.35	118.0	115	22.7	18.8	1329	4.36	7.1	0.5	<0.2	4.1	8.1	0.19	0.43	0.43	51	0.04	0.051
1267520	Soil		1.35	16.13	23.77	75.8	212	18.8	8.7	400	4.18	9.2	0.5	1.1	3.4	10.6	0.13	0.70	0.33	53	0.08	0.050
1267521	Soil		0.76	16.08	28.24	147.3	277	15.4	16.7	1156	3.45	4.7	0.4	<0.2	2.2	9.7	0.39	0.30	0.38	42	0.08	0.071
1267522	Soil		0.97	15.67	35.00	258.5	277	19.7	20.9	2040	3.54	3.6	0.4	1.0	2.9	13.6	0.55	0.18	0.45	41	0.14	0.077
1267523	Soil		0.63	9.68	20.39	41.2	107	9.5	4.6	1639	1.79	10.4	0.6	1.8	0.3	38.2	0.27	1.34	0.39	13	11.70	0.118
1267524	Soil		0.77	41.54	42.53	80.1	176	30.1	23.2	1852	3.21	29.5	0.6	1.4	2.7	7.4	0.22	1.04	0.46	14	0.35	0.056
1267525	Soil		0.39	25.75	25.74	31.9	99	17.3	17.0	1254	2.48	7.4	0.5	0.7	2.7	5.7	0.08	0.27	0.40	13	0.10	0.055
1267526	Soil		0.73	36.61	34.84	57.7	76	27.2	17.7	1376	2.90	15.6	0.8	2.5	2.0	16.5	0.16	0.96	0.42	15	2.31	0.097
1266448	Soil		0.39	42.26	23.51	62.2	47	27.1	18.9	3475	3.11	2.7	2.5	0.7	1.2	37.6	0.34	0.42	0.48	24	1.58	0.140



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267606	Soil	6.9	31.5	0.31	134.9	0.006	4	1.85	0.001	0.14	<0.1	1.9	0.11	<0.02	23	0.3	0.04	5.7	1.33	<0.1	<0.02
1267607	Soil	7.0	30.9	0.30	197.7	0.003	2	2.30	<0.001	0.19	<0.1	2.5	0.16	0.02	24	0.2	0.02	7.9	1.19	<0.1	0.03
1267608	Soil	4.7	37.9	0.40	146.2	0.002	3	2.18	<0.001	0.17	<0.1	2.9	0.13	<0.02	11	0.2	<0.02	7.9	2.21	<0.1	0.04
1267501	Soil	4.9	8.7	0.16	108.0	0.002	5	0.57	0.002	0.16	<0.1	3.8	0.14	0.03	70	0.2	0.09	1.5	4.72	<0.1	0.07
1267502	Soil	4.6	19.8	0.16	102.6	0.004	4	1.06	0.005	0.14	<0.1	2.1	0.12	0.06	61	0.3	0.04	4.0	2.03	<0.1	<0.02
1267503	Soil	4.6	33.3	0.49	220.2	0.003	2	2.28	0.005	0.18	<0.1	4.4	0.15	<0.02	21	<0.1	0.03	7.3	3.83	<0.1	0.06
1267504	Soil	5.6	35.3	0.49	381.8	0.007	5	2.18	0.004	0.23	<0.1	4.4	0.18	<0.02	15	0.2	0.04	7.7	3.25	<0.1	0.03
1267505	Soil	4.9	31.6	0.39	208.0	0.008	2	1.94	0.004	0.21	<0.1	2.9	0.14	0.02	24	0.2	0.03	7.6	2.16	<0.1	0.02
1267506	Soil	7.4	29.0	0.28	113.0	0.013	2	1.55	0.005	0.12	<0.1	2.4	0.12	0.03	35	0.3	0.04	6.6	2.48	<0.1	<0.02
1267507	Soil	7.2	27.8	0.27	75.6	0.009	2	1.63	0.003	0.12	<0.1	2.2	0.12	0.03	47	0.3	0.02	7.5	2.24	<0.1	<0.02
1267508	Soil	6.1	36.6	0.40	115.8	0.006	2	2.12	0.006	0.14	<0.1	4.8	0.18	0.02	43	0.2	0.04	7.8	5.51	<0.1	0.04
1267509	Soil	5.4	35.6	0.53	309.8	0.010	4	2.01	0.005	0.18	<0.1	5.4	0.17	<0.02	44	0.2	0.05	6.9	4.74	<0.1	0.02
1267510	Soil	5.5	32.3	0.31	255.8	0.008	2	2.05	0.002	0.15	<0.1	2.9	0.18	0.04	49	0.4	0.07	6.4	3.06	<0.1	<0.02
1267511	Soil	5.1	42.0	0.61	327.3	0.008	2	2.80	0.003	0.26	<0.1	3.6	0.19	0.02	29	0.2	0.03	10.7	2.17	<0.1	0.05
1267512	Soil	3.3	38.6	0.48	199.9	0.006	3	2.38	0.002	0.21	<0.1	3.5	0.17	0.02	29	0.3	0.05	7.2	2.43	<0.1	0.06
1267513	Soil	6.1	32.2	0.45	215.1	0.006	2	1.86	0.004	0.18	<0.1	2.7	0.12	0.03	33	0.1	0.03	5.8	1.74	<0.1	<0.02
1267514	Soil	7.0	29.8	0.39	188.4	0.006	2	1.69	0.003	0.10	<0.1	1.6	0.12	0.07	97	0.2	0.03	5.8	2.12	<0.1	0.03
1267515	Soil	6.7	37.8	0.42	147.3	0.003	2	2.48	0.004	0.19	<0.1	4.0	0.18	0.02	36	0.3	0.03	8.4	2.51	<0.1	0.04
1267516	Soil	6.0	32.6	0.35	171.2	0.004	2	1.79	0.010	0.19	<0.1	2.5	0.12	0.03	30	0.2	<0.02	7.8	1.91	<0.1	0.03
1267517	Soil	9.1	25.8	0.13	95.3	0.009	2	1.25	0.005	0.11	<0.1	1.5	0.11	0.03	44	0.3	0.04	7.1	1.86	<0.1	<0.02
1267518	Soil	6.6	34.0	0.29	126.7	0.003	1	2.07	0.008	0.13	<0.1	2.9	0.10	0.03	45	0.2	0.03	7.9	1.99	<0.1	0.03
1267519	Soil	9.5	37.2	0.38	133.2	0.005	2	2.67	0.002	0.18	<0.1	3.4	0.17	<0.02	30	0.4	0.04	8.9	2.46	<0.1	0.05
1267520	Soil	10.2	32.3	0.40	125.5	0.013	2	1.79	0.002	0.13	0.1	2.4	0.11	0.02	36	0.3	0.04	6.8	1.38	<0.1	<0.02
1267521	Soil	7.4	27.9	0.23	172.4	0.004	1	1.93	0.003	0.14	<0.1	2.1	0.15	<0.02	39	0.2	<0.02	7.7	1.74	<0.1	0.03
1267522	Soil	6.8	36.4	0.28	320.8	0.002	2	2.46	0.002	0.25	<0.1	2.8	0.16	<0.02	23	0.2	0.03	8.8	1.02	<0.1	0.06
1267523	Soil	4.5	10.5	6.47	76.7	0.005	5	0.65	0.014	0.04	<0.1	0.7	0.11	0.05	60	0.5	0.02	1.3	0.43	<0.1	0.03
1267524	Soil	7.9	11.3	0.15	93.4	0.003	4	0.72	0.004	0.19	<0.1	5.3	0.19	0.03	189	0.2	0.07	1.9	2.18	<0.1	0.05
1267525	Soil	5.1	14.3	0.16	97.2	0.002	4	0.87	0.002	0.21	<0.1	2.5	0.11	0.02	29	0.2	<0.02	3.1	3.11	<0.1	0.03
1267526	Soil	6.8	15.2	1.11	161.0	0.003	6	0.89	0.007	0.20	<0.1	3.7	0.13	0.08	74	0.2	0.05	2.7	1.97	<0.1	0.08
1266448	Soil	33.1	21.8	0.34	245.5	0.003	8	1.64	0.002	0.20	<0.1	4.7	0.14	0.10	47	0.3	0.08	4.1	2.20	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
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www.acmelab.com

Client: **Radius Gold Inc.**
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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1267606	Soil	0.61	16.3	12.4	<0.05	0.6	3.23	18.6	0.07	<1	0.7	35.3	<10	<2
1267607	Soil	0.58	24.5	2.3	<0.05	1.1	2.55	16.5	0.03	<1	0.8	38.6	<10	<2
1267608	Soil	0.34	22.2	10.0	<0.05	1.8	3.59	11.9	0.04	<1	1.3	52.5	<10	<2
1267501	Soil	0.07	9.8	2.2	<0.05	2.7	9.27	12.4	0.02	<1	0.8	3.0	<10	<2
1267502	Soil	0.41	13.8	2.7	<0.05	0.6	3.49	11.8	0.03	<1	1.0	6.9	<10	<2
1267503	Soil	0.25	23.8	2.2	<0.05	1.4	7.64	14.7	0.04	<1	2.1	31.1	<10	<2
1267504	Soil	0.45	27.9	3.4	<0.05	0.9	5.88	16.5	0.04	<1	1.6	28.8	<10	<2
1267505	Soil	0.67	25.2	1.5	<0.05	0.9	3.68	11.5	0.04	<1	1.4	25.4	<10	<2
1267506	Soil	0.79	16.5	4.1	<0.05	0.3	3.26	16.1	0.04	<1	0.8	19.0	<10	<2
1267507	Soil	0.73	17.9	1.7	<0.05	0.3	3.57	16.8	0.03	<1	0.7	17.1	<10	<2
1267508	Soil	0.33	20.8	11.7	<0.05	1.2	5.99	19.1	0.05	<1	1.7	37.2	<10	<2
1267509	Soil	0.43	23.2	3.4	<0.05	1.0	6.92	17.0	0.04	<1	1.8	35.4	<10	<2
1267510	Soil	0.55	26.6	3.7	<0.05	0.6	3.87	21.4	0.04	<1	1.9	20.4	<10	<2
1267511	Soil	0.60	34.9	2.8	<0.05	1.6	3.98	12.7	0.04	<1	1.5	43.4	<10	<2
1267512	Soil	0.67	28.7	2.7	<0.05	1.5	2.94	7.5	0.04	<1	1.5	30.5	<10	<2
1267513	Soil	0.51	17.6	1.7	<0.05	0.8	4.03	15.2	0.05	<1	1.7	27.4	<10	<2
1267514	Soil	0.40	13.4	3.9	<0.05	0.6	3.74	18.1	0.03	<1	0.6	23.1	<10	<2
1267515	Soil	0.37	25.3	2.9	<0.05	1.3	4.15	17.6	0.05	<1	1.4	45.4	<10	<2
1267516	Soil	0.57	22.2	3.3	<0.05	0.9	2.99	14.0	0.04	<1	1.3	32.5	<10	<2
1267517	Soil	0.41	20.2	1.6	<0.05	0.2	2.95	19.3	0.03	<1	0.5	6.8	<10	<2
1267518	Soil	0.58	23.8	3.2	<0.05	1.5	2.97	14.9	0.03	<1	1.1	34.4	<10	<2
1267519	Soil	0.69	27.1	2.8	<0.05	1.7	3.61	20.7	0.05	<1	1.2	50.4	<10	<2
1267520	Soil	0.99	14.0	4.6	<0.05	0.8	2.94	21.7	0.03	<1	0.8	34.0	<10	<2
1267521	Soil	0.55	24.4	5.2	<0.05	0.7	2.94	16.7	0.02	<1	0.8	27.6	<10	<2
1267522	Soil	0.39	29.9	8.6	<0.05	1.2	2.64	16.2	0.04	<1	0.8	42.1	<10	<2
1267523	Soil	0.14	3.8	5.2	<0.05	0.6	5.34	10.2	<0.02	<1	0.4	4.4	<10	<2
1267524	Soil	0.15	9.4	3.5	<0.05	1.3	10.48	19.0	0.03	<1	0.8	4.0	<10	<2
1267525	Soil	0.12	15.0	4.0	<0.05	0.6	3.69	12.8	0.03	<1	1.2	7.2	<10	<2
1267526	Soil	0.25	10.4	8.0	<0.05	2.9	14.04	17.2	0.03	<1	1.3	10.6	<10	<2
1266448	Soil	0.12	16.6	4.0	<0.05	0.8	31.07	70.0	0.06	<1	1.6	18.7	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Project: Scarlet
 Report Date: October 30, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	Analyte	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
Unit	MDL	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1266449	Soil	1.10	40.64	32.88	79.9	203	36.5	22.2	3067	3.74	8.2	1.1	2.3	2.8	34.3	0.33	0.62	0.40	39	1.79	0.082
1266450	Soil	0.58	31.52	46.03	78.2	95	26.3	24.2	3056	3.95	3.5	1.1	1.3	4.7	12.5	0.15	0.29	0.28	34	0.21	0.048
1266351	Soil	0.63	31.31	27.52	77.4	40	31.4	22.8	604	3.92	4.8	0.7	0.6	4.8	6.9	0.06	0.31	0.38	38	0.04	0.027
1266352	Soil	0.82	25.61	30.72	100.1	41	23.2	21.0	1777	4.65	5.9	0.6	0.3	3.9	6.9	0.10	0.35	0.36	46	0.05	0.041
1266353	Soil	0.44	26.20	20.72	75.2	73	29.4	16.6	531	3.63	3.8	0.5	<0.2	4.3	5.7	0.10	0.20	0.33	34	0.03	0.025
1266354	Soil	0.72	25.59	23.34	81.1	181	28.2	15.9	1183	3.63	4.9	0.7	1.3	3.6	7.9	0.09	0.40	0.28	44	0.06	0.035
1266355	Soil	0.61	29.22	40.04	86.0	268	25.2	32.4	3588	4.20	4.0	0.8	4.8	2.3	6.9	0.11	0.29	0.57	35	0.08	0.055
1266356	Soil	0.53	34.80	34.53	89.9	44	34.3	22.4	862	5.04	6.4	0.7	2.9	4.6	6.0	0.04	0.20	0.50	39	0.03	0.029
1266357	Soil	0.72	29.14	55.80	95.6	33	28.9	27.0	910	4.78	7.4	0.6	2.1	3.8	13.9	0.08	0.37	0.48	31	0.03	0.041
1266358	Soil	1.44	48.85	114.1	75.4	79	47.8	26.4	1152	8.43	17.1	0.8	1.6	7.0	53.2	0.03	0.49	0.30	16	0.07	0.174
1266359	Soil	0.57	23.41	30.62	102.8	70	23.9	19.6	564	3.91	5.4	0.6	1.5	3.7	6.8	0.07	0.22	0.49	31	0.06	0.034
1266360	Soil	0.57	30.67	40.60	107.8	84	32.0	21.8	1177	4.78	7.0	0.6	0.7	5.5	5.3	0.04	0.26	0.53	30	0.02	0.023
1266361	Soil	0.58	27.75	27.27	94.0	33	29.1	15.3	388	4.24	6.0	0.5	0.3	4.1	5.4	0.03	0.22	0.45	31	0.02	0.024
1266362	Soil	0.70	29.70	30.54	96.3	66	29.2	15.6	409	4.47	7.2	0.5	0.9	5.0	7.0	0.04	0.26	0.49	33	0.03	0.027
1266363	Soil	0.60	11.91	22.65	163.6	46	18.8	12.5	345	3.47	4.5	0.4	1.2	3.5	6.0	0.10	0.20	0.37	35	0.03	0.029
1266364	Soil	0.64	18.32	24.09	56.2	112	21.1	10.7	1189	2.96	8.8	0.6	1.5	0.8	15.4	0.24	0.94	0.24	20	5.38	0.106
1266365	Soil	0.80	21.87	17.23	30.5	32	21.0	13.8	491	2.61	6.5	0.5	0.3	2.5	5.3	0.04	0.56	0.52	17	0.22	0.039
1266366	Soil	0.37	19.11	16.05	36.6	23	17.8	10.6	192	2.07	7.6	0.4	0.2	2.4	7.2	0.01	0.46	0.40	15	0.14	0.018
1266367	Soil	0.62	25.64	24.75	66.1	97	22.8	11.5	590	2.87	7.0	0.7	1.8	1.6	54.8	0.07	0.52	0.31	16	1.44	0.069
1266368	Soil	0.55	38.34	29.61	103.3	96	33.4	17.5	741	3.76	10.5	0.5	0.7	6.3	58.2	0.12	1.09	0.36	22	2.20	0.044
1266369	Soil	0.57	32.40	28.64	94.4	66	33.4	16.5	695	4.10	9.6	0.7	1.0	5.6	14.0	0.06	0.69	0.36	27	0.18	0.023
1266370	Soil	0.49	85.52	27.20	86.0	51	35.4	16.2	883	3.91	8.1	0.8	1.6	6.4	15.1	0.04	0.52	0.34	27	0.25	0.022
1266371	Soil	0.58	71.81	32.74	80.3	70	37.3	15.7	1902	3.86	7.8	1.2	2.9	6.2	12.1	0.11	0.47	0.43	34	0.34	0.037
1266372	Soil	0.62	31.18	23.99	80.0	96	26.9	11.9	581	2.98	6.0	1.8	3.1	2.9	113.4	0.11	0.54	0.35	23	1.27	0.055
1266373	Soil	0.41	23.49	25.08	87.4	72	25.9	13.2	621	3.11	6.1	0.7	1.7	4.1	46.1	0.08	0.36	0.30	18	2.03	0.038
1266374	Soil	0.48	28.86	32.40	92.0	66	27.5	14.2	624	3.51	9.0	0.7	1.9	3.9	41.2	0.12	0.52	0.35	21	1.35	0.043
1266375	Soil	0.45	21.51	20.45	92.4	45	27.1	15.4	566	3.74	3.6	0.5	0.4	4.7	7.0	0.05	0.18	0.33	28	0.04	0.025
1266376	Soil	0.76	48.60	48.43	72.7	389	32.8	27.5	2725	4.92	4.6	1.3	1.7	2.6	5.8	0.23	0.26	0.42	27	0.05	0.095
1266377	Soil	0.80	31.67	58.31	102.3	198	30.4	25.0	1610	4.11	4.1	1.3	0.3	4.1	23.1	0.17	0.16	0.42	32	0.31	0.062
1266378	Soil	0.83	26.18	48.67	97.4	255	24.6	18.5	2287	4.75	4.3	0.8	0.8	3.9	9.1	0.10	0.17	0.40	34	0.11	0.072



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1266449	Soil	27.8	35.1	0.47	202.0	0.010	6	1.90	0.004	0.22	<0.1	5.8	0.18	0.05	78	0.3	0.05	5.4	1.67	<0.1	0.05
1266450	Soil	8.0	33.1	0.54	350.5	0.003	1	2.30	0.004	0.18	<0.1	5.4	0.19	0.02	30	<0.1	<0.02	7.5	3.09	<0.1	0.05
1266351	Soil	5.9	38.1	0.60	149.8	0.009	2	2.37	0.003	0.21	<0.1	4.4	0.18	<0.02	11	0.2	<0.02	8.4	2.60	<0.1	0.03
1266352	Soil	6.4	38.5	0.41	199.2	0.003	<1	2.38	0.004	0.15	<0.1	3.8	0.14	<0.02	27	0.2	0.02	8.6	2.27	<0.1	0.05
1266353	Soil	5.1	36.1	0.56	89.6	0.002	<1	2.22	0.002	0.17	<0.1	3.7	0.12	<0.02	17	0.1	<0.02	7.6	1.89	<0.1	0.04
1266354	Soil	6.6	37.0	0.57	187.4	0.008	3	2.09	0.003	0.19	<0.1	3.5	0.15	<0.02	33	0.2	0.02	6.9	2.08	<0.1	0.02
1266355	Soil	5.7	41.6	0.40	169.7	0.006	2	1.88	0.006	0.16	<0.1	3.4	0.17	0.04	40	0.2	0.03	7.5	2.27	<0.1	0.04
1266356	Soil	6.5	43.7	0.55	106.6	0.002	1	2.24	0.006	0.09	<0.1	4.2	0.11	<0.02	36	<0.1	0.02	8.7	2.66	<0.1	0.05
1266357	Soil	6.0	35.5	0.37	90.7	0.004	2	1.95	0.007	0.11	<0.1	3.6	0.13	0.05	42	0.2	0.03	6.5	3.35	<0.1	0.04
1266358	Soil	10.3	24.3	0.22	88.7	<0.001	1	1.44	0.011	0.08	<0.1	4.7	0.10	0.09	33	0.2	<0.02	4.3	1.26	<0.1	0.05
1266359	Soil	5.0	33.9	0.32	95.5	0.002	1	1.87	0.003	0.13	<0.1	2.8	0.13	<0.02	31	0.2	<0.02	6.6	1.87	<0.1	0.04
1266360	Soil	5.5	39.3	0.46	72.2	0.003	1	2.21	0.003	0.09	<0.1	3.5	0.12	<0.02	66	0.2	0.03	7.3	2.77	<0.1	0.09
1266361	Soil	5.2	36.2	0.44	75.7	0.004	1	2.03	0.003	0.11	<0.1	3.1	0.11	<0.02	18	<0.1	<0.02	7.2	2.65	<0.1	0.05
1266362	Soil	5.7	37.8	0.46	80.0	0.005	2	2.13	0.004	0.11	<0.1	3.5	0.12	<0.02	26	0.1	0.03	7.3	2.54	<0.1	0.05
1266363	Soil	5.9	30.3	0.33	159.9	0.002	2	2.23	0.004	0.13	<0.1	2.7	0.16	<0.02	18	<0.1	<0.02	7.7	1.85	<0.1	0.04
1266364	Soil	6.6	18.4	3.52	65.3	0.003	3	1.38	0.006	0.04	<0.1	1.3	0.09	0.05	116	0.2	<0.02	3.1	0.60	<0.1	0.02
1266365	Soil	5.7	17.6	0.24	54.3	0.002	3	0.96	0.002	0.20	<0.1	3.6	0.12	<0.02	21	<0.1	0.06	2.7	1.92	<0.1	0.04
1266366	Soil	6.2	14.4	0.22	52.2	0.003	3	0.91	0.002	0.22	<0.1	2.0	0.09	0.03	403	0.1	0.04	3.0	1.66	<0.1	<0.02
1266367	Soil	6.8	21.0	0.38	112.8	0.002	2	1.25	0.004	0.07	<0.1	2.2	0.06	0.09	98	0.2	0.04	3.6	0.71	<0.1	0.04
1266368	Soil	10.1	26.1	1.06	119.0	0.005	2	1.58	0.007	0.10	<0.1	3.6	0.09	<0.02	297	<0.1	0.04	4.6	2.19	0.1	0.07
1266369	Soil	12.6	29.3	0.54	118.1	0.003	1	1.85	0.004	0.07	<0.1	3.7	0.10	<0.02	133	0.1	<0.02	5.0	1.75	<0.1	0.04
1266370	Soil	12.3	29.9	0.56	261.0	0.004	2	1.88	0.005	0.08	<0.1	5.4	0.10	<0.02	100	<0.1	0.03	5.2	2.23	<0.1	0.04
1266371	Soil	11.6	31.0	0.54	293.6	0.005	3	1.92	0.006	0.12	0.1	6.6	0.12	<0.02	118	0.1	0.06	5.0	2.67	<0.1	0.05
1266372	Soil	6.4	27.0	0.55	133.2	0.005	8	1.48	0.010	0.10	<0.1	3.1	0.12	0.13	112	0.9	0.04	4.3	1.65	<0.1	0.04
1266373	Soil	8.0	22.9	1.39	85.0	0.003	3	1.35	0.007	0.08	<0.1	3.1	0.08	0.03	110	0.3	<0.02	4.1	1.17	<0.1	0.04
1266374	Soil	8.9	24.1	0.73	120.3	0.002	2	1.61	0.005	0.09	<0.1	3.6	0.09	0.03	150	0.2	0.03	4.6	0.97	<0.1	0.06
1266375	Soil	5.8	34.2	0.45	131.7	0.003	2	2.15	0.005	0.17	<0.1	3.3	0.20	<0.02	44	0.1	0.03	7.4	3.68	<0.1	0.05
1266376	Soil	7.9	39.7	0.24	102.1	0.006	2	1.76	0.006	0.13	<0.1	3.1	0.09	0.07	64	0.4	<0.02	5.9	2.06	<0.1	0.08
1266377	Soil	10.3	40.6	0.35	174.9	0.003	1	2.02	0.005	0.16	<0.1	4.2	0.12	0.04	52	0.2	<0.02	7.4	1.58	<0.1	0.03
1266378	Soil	5.2	41.6	0.31	199.3	0.003	2	2.10	0.005	0.14	<0.1	3.5	0.15	0.04	66	0.2	0.04	7.5	1.98	<0.1	0.04



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 Report Date: October 30, 2011

Page: 9 of 12 Part 3

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Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1266449	Soil	0.33	19.8	6.6	<0.05	1.3	26.71	55.5	0.06	<1	1.9	21.2	<10	<2
1266450	Soil	0.31	23.5	2.7	<0.05	1.6	12.52	23.6	0.04	<1	2.3	32.4	<10	<2
1266351	Soil	0.34	24.3	3.7	<0.05	1.3	5.73	15.6	0.05	<1	1.7	33.7	<10	<2
1266352	Soil	0.40	24.9	2.3	<0.05	1.4	4.62	15.2	0.05	<1	1.2	41.3	<10	<2
1266353	Soil	0.34	17.3	1.8	<0.05	1.8	3.70	13.5	0.04	<1	1.4	36.0	<10	<2
1266354	Soil	0.63	21.7	1.1	<0.05	0.8	3.99	17.0	0.04	<1	1.3	30.4	<10	<2
1266355	Soil	0.51	21.2	1.7	<0.05	0.9	7.12	20.3	0.05	1	1.5	22.8	<10	<2
1266356	Soil	0.30	13.6	1.9	<0.05	1.8	5.85	21.4	0.06	<1	1.6	40.6	<10	2
1266357	Soil	0.34	15.1	1.8	<0.05	1.3	4.84	19.1	0.05	<1	1.8	40.2	<10	<2
1266358	Soil	0.12	10.3	12.4	<0.05	1.4	12.64	31.2	0.04	<1	1.6	27.6	<10	<2
1266359	Soil	0.33	17.5	1.4	<0.05	1.4	4.11	14.9	0.04	<1	1.1	39.3	<10	<2
1266360	Soil	0.23	15.3	2.5	<0.05	2.7	5.91	19.1	0.03	<1	1.4	47.5	<10	<2
1266361	Soil	0.27	14.4	1.1	<0.05	1.8	4.46	12.9	0.04	<1	1.3	42.8	<10	<2
1266362	Soil	0.31	17.0	2.3	<0.05	2.4	4.83	14.9	0.06	<1	1.3	40.4	<10	<2
1266363	Soil	0.31	25.1	3.6	<0.05	1.5	3.00	14.0	0.04	<1	1.3	35.7	<10	<2
1266364	Soil	0.14	5.3	2.9	<0.05	0.8	8.20	15.9	0.03	1	0.6	18.5	<10	<2
1266365	Soil	0.21	13.6	2.7	<0.05	1.3	5.69	16.2	0.03	<1	1.2	9.4	<10	<2
1266366	Soil	0.20	14.0	1.4	<0.05	0.4	2.72	15.8	0.03	<1	0.8	12.3	<10	<2
1266367	Soil	0.26	8.1	1.1	<0.05	1.5	7.42	16.7	0.03	<1	0.8	20.8	<10	<2
1266368	Soil	0.07	8.0	0.6	<0.05	4.1	7.45	23.9	0.04	<1	0.8	33.4	<10	<2
1266369	Soil	0.23	9.3	0.5	<0.05	1.5	10.04	29.7	<0.02	2	1.5	36.7	<10	<2
1266370	Soil	0.29	10.6	1.0	<0.05	1.8	15.37	30.9	0.03	<1	2.0	38.2	<10	<2
1266371	Soil	0.39	13.6	1.7	<0.05	1.6	23.40	27.1	0.02	<1	2.5	30.2	<10	<2
1266372	Soil	0.58	13.5	3.0	<0.05	2.0	8.16	14.8	0.03	1	0.9	36.9	<10	<2
1266373	Soil	0.22	8.5	1.1	<0.05	2.3	7.48	19.5	0.03	<1	0.8	30.7	<10	<2
1266374	Soil	0.32	8.2	0.7	<0.05	1.9	9.61	20.9	0.03	<1	1.1	30.2	<10	<2
1266375	Soil	0.40	25.8	1.9	<0.05	2.1	4.60	14.6	0.04	<1	1.9	37.9	<10	<2
1266376	Soil	0.56	16.0	2.1	<0.05	2.0	7.32	23.8	0.05	<1	1.7	15.8	<10	<2
1266377	Soil	0.46	15.4	2.4	<0.05	1.2	16.51	30.7	0.05	<1	2.3	45.7	<10	<2
1266378	Soil	0.53	19.6	3.8	<0.05	1.7	6.23	16.1	0.04	1	1.5	33.4	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1267527	Soil			0.73	32.67	38.06	92.4	70	31.3	25.6	1198	4.23	6.2	0.6	1.5	3.2	7.9	0.13	0.51	0.34	40	0.06	0.040
1267528	Soil			0.87	32.56	36.90	111.0	117	29.8	26.4	1971	5.10	6.4	0.6	<0.2	2.8	10.1	0.17	0.40	0.39	40	0.12	0.072
1267529	Soil			0.78	24.68	32.19	100.2	86	27.5	17.7	1219	3.82	7.9	0.6	0.2	3.7	10.8	0.23	0.49	0.31	35	0.14	0.038
1267530	Soil			1.05	38.28	74.11	90.8	149	23.4	33.3	1381	4.88	6.9	0.6	1.0	3.1	6.6	0.19	0.37	0.41	43	0.07	0.065
1267531	Soil			0.69	28.78	36.93	95.3	46	26.6	29.2	1529	4.25	7.2	0.6	<0.2	3.4	6.7	0.14	0.35	0.35	37	0.05	0.048
1267532	Soil			0.82	28.56	26.69	84.5	154	31.8	16.7	1483	4.09	4.1	0.6	0.3	2.5	6.8	0.09	0.27	0.31	41	0.06	0.049
1267533	Soil			0.74	44.39	50.78	98.4	26	33.4	44.6	1954	4.66	5.4	0.9	<0.2	4.3	13.1	0.06	0.26	0.41	34	0.11	0.042
1267534	Soil			0.47	48.00	40.43	85.2	36	33.9	27.0	4921	4.14	2.3	1.2	1.7	6.2	9.1	0.05	0.22	0.38	33	0.23	0.029
1267535	Soil			0.98	55.20	84.90	97.8	42	44.1	52.2	2672	4.85	5.8	1.0	1.7	4.4	14.1	0.07	0.21	0.45	30	0.12	0.021
1267536	Soil			0.33	42.72	21.06	107.6	113	43.7	22.1	656	5.02	4.3	0.4	<0.2	4.3	5.3	0.03	0.11	0.43	43	0.03	0.028
1267537	Soil			0.44	32.52	31.11	90.5	39	33.6	24.3	1591	4.28	4.7	0.6	0.8	4.2	8.1	0.04	0.25	0.37	36	0.08	0.043
1267538	Soil			0.50	30.67	35.64	98.5	259	34.3	28.1	1639	4.17	3.9	0.6	<0.2	4.2	9.4	0.11	0.19	0.37	35	0.06	0.044
1267539	Soil			0.75	26.70	50.82	128.9	233	23.7	28.2	1684	4.00	6.4	0.9	3.5	2.5	9.4	0.18	0.28	0.49	28	0.11	0.075
1267540	Soil			1.18	28.21	63.82	115.4	670	22.9	22.1	2677	5.32	5.1	0.7	2.0	0.5	10.6	0.21	0.37	0.48	33	0.16	0.156
1267541	Soil			0.91	19.71	28.09	88.2	219	18.9	7.6	338	4.29	6.6	0.4	1.4	2.2	8.7	0.13	0.39	0.40	39	0.11	0.077
1267542	Soil			0.77	17.54	22.47	63.8	144	15.6	7.4	237	4.24	5.4	0.4	2.2	2.5	6.4	0.07	0.30	0.42	41	0.03	0.055
1267543	Soil			1.83	30.28	78.86	131.3	216	35.0	28.6	3977	3.86	5.4	0.6	2.2	1.8	17.3	0.41	0.28	0.45	26	0.21	0.089
1267544	Soil			0.73	15.17	35.97	126.0	97	25.3	15.1	360	4.56	5.6	0.4	0.5	4.3	10.7	0.10	0.35	0.52	37	0.08	0.033
1267545	Soil			1.43	36.24	65.76	94.4	91	38.8	26.5	1444	4.29	5.2	1.1	3.2	4.0	16.9	0.14	0.15	0.45	31	0.21	0.070
1267546	Soil			1.16	28.31	30.95	85.9	49	26.5	10.5	280	4.42	9.1	0.7	1.7	4.3	6.7	0.10	0.51	0.43	40	0.04	0.034
1267547	Soil			0.85	18.66	40.33	125.3	49	19.9	17.0	1036	4.10	5.6	0.5	<0.2	3.3	6.1	0.23	0.35	0.42	35	0.08	0.065
1267548	Soil			0.57	16.82	37.10	106.6	145	17.2	19.6	1482	3.40	3.3	0.5	<0.2	2.4	10.4	0.19	0.22	0.36	32	0.18	0.060
1267549	Soil			0.57	31.00	30.57	102.9	277	23.0	11.0	535	3.69	4.3	0.5	1.0	2.5	6.7	0.25	0.21	0.47	36	0.04	0.062
1267550	Soil			0.70	24.90	43.82	123.7	364	30.2	21.3	1520	4.25	4.1	0.6	0.6	3.6	13.6	0.09	0.21	0.44	36	0.17	0.059
1267551	Soil			0.49	13.29	15.08	57.8	74	17.4	8.0	220	2.99	4.9	0.5	0.5	3.9	7.4	0.06	0.20	0.27	34	0.09	0.016
1267552	Soil			0.58	13.95	16.07	66.7	106	19.7	9.0	381	3.34	5.6	0.5	0.8	3.8	6.9	0.06	0.15	0.29	32	0.08	0.019
1267553	Soil			0.68	46.91	23.39	89.7	440	33.3	11.3	1173	3.46	5.1	2.4	1.4	3.2	70.6	0.30	0.26	0.39	30	1.27	0.079
1267554	Soil			0.50	17.72	18.35	72.3	63	21.6	9.9	517	3.24	4.7	0.6	0.7	4.1	14.3	0.08	0.30	0.27	36	0.23	0.018
1267555	Soil			0.41	24.15	15.43	79.1	38	20.8	10.9	290	4.08	3.3	0.4	0.2	2.5	14.6	0.05	0.18	0.49	33	0.20	0.019
1267556	Soil			0.39	28.47	19.10	80.5	125	27.2	12.4	551	3.39	16.8	0.9	1.7	2.9	64.7	0.13	0.46	0.35	25	0.94	0.047



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: October 30, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267527	Soil	7.6	34.5	0.49	117.4	0.008	2	2.06	0.007	0.12	<0.1	3.4	0.14	0.02	35	0.2	0.05	6.8	2.82	<0.1	0.02
1267528	Soil	6.7	35.5	0.44	231.1	0.008	2	2.04	0.009	0.17	<0.1	3.6	0.12	0.02	36	0.2	0.04	7.7	1.69	<0.1	0.03
1267529	Soil	8.4	26.4	0.37	200.1	0.007	3	1.55	0.007	0.16	<0.1	3.3	0.13	<0.02	42	0.2	0.05	5.7	1.29	<0.1	0.03
1267530	Soil	5.2	37.9	0.34	146.0	0.005	2	2.49	0.009	0.10	<0.1	3.2	0.13	0.04	75	0.4	0.06	8.3	2.82	<0.1	0.05
1267531	Soil	6.9	31.3	0.36	161.1	0.005	2	1.90	0.007	0.12	<0.1	3.3	0.13	<0.02	40	0.3	0.04	7.1	2.78	<0.1	0.04
1267532	Soil	5.5	38.1	0.44	182.6	0.007	1	2.04	0.009	0.18	<0.1	2.9	0.14	0.03	48	0.2	0.02	8.5	1.58	<0.1	0.06
1267533	Soil	7.0	37.4	0.57	224.7	0.006	1	2.13	0.009	0.13	<0.1	6.5	0.15	<0.02	34	0.3	0.04	8.1	3.90	<0.1	0.03
1267534	Soil	6.4	33.7	0.61	589.0	0.010	2	1.81	0.007	0.18	<0.1	7.9	0.16	<0.02	69	<0.1	0.03	6.2	2.84	<0.1	0.04
1267535	Soil	5.2	38.1	0.67	163.8	0.004	1	2.23	0.007	0.11	<0.1	5.8	0.16	<0.02	25	<0.1	0.03	8.4	2.68	<0.1	0.03
1267536	Soil	3.8	45.5	1.01	135.7	0.004	2	3.06	0.006	0.13	<0.1	4.6	0.15	<0.02	19	<0.1	0.02	10.9	2.89	<0.1	0.08
1267537	Soil	5.0	37.4	0.58	216.1	0.008	2	2.16	0.007	0.19	<0.1	4.0	0.14	<0.02	41	0.1	0.06	7.7	2.30	<0.1	0.02
1267538	Soil	5.9	39.5	0.55	161.6	0.004	2	2.31	0.008	0.19	<0.1	4.2	0.15	<0.02	18	0.2	0.02	8.7	2.34	<0.1	0.03
1267539	Soil	6.0	30.7	0.28	166.1	0.003	2	1.62	0.005	0.13	<0.1	3.1	0.11	0.05	44	0.1	0.02	6.3	2.55	<0.1	0.02
1267540	Soil	4.3	44.0	0.24	124.8	0.004	2	1.43	0.007	0.12	<0.1	1.1	0.09	0.09	62	0.3	<0.02	6.8	1.41	<0.1	<0.02
1267541	Soil	6.3	31.4	0.22	83.2	0.003	2	1.53	0.005	0.11	<0.1	1.8	0.10	0.04	52	0.2	0.03	7.5	0.96	<0.1	<0.02
1267542	Soil	5.9	31.3	0.22	94.7	0.002	1	1.67	0.005	0.12	<0.1	2.2	0.12	0.03	29	0.1	0.03	8.7	0.95	<0.1	0.02
1267543	Soil	5.8	39.6	0.24	344.0	0.003	2	1.72	0.008	0.15	<0.1	3.3	0.13	0.07	94	0.2	0.05	5.5	1.33	<0.1	0.03
1267544	Soil	5.7	39.6	0.47	112.3	0.003	2	1.93	0.004	0.13	<0.1	3.2	0.10	<0.02	15	<0.1	0.04	9.6	1.12	<0.1	0.03
1267545	Soil	15.2	52.9	0.46	124.4	0.005	2	2.05	0.006	0.14	<0.1	6.5	0.13	0.05	52	0.1	<0.02	7.7	2.44	<0.1	<0.02
1267546	Soil	9.7	38.4	0.39	78.5	0.007	1	1.78	0.002	0.09	<0.1	3.2	0.12	<0.02	23	0.2	<0.02	7.6	2.63	<0.1	0.02
1267547	Soil	7.0	29.9	0.29	138.3	0.007	2	1.78	0.002	0.13	<0.1	2.6	0.15	0.03	37	0.3	0.05	6.8	2.41	<0.1	<0.02
1267548	Soil	6.3	26.6	0.24	212.4	0.003	1	1.72	0.001	0.17	<0.1	2.2	0.14	0.03	43	0.2	<0.02	7.0	1.40	<0.1	<0.02
1267549	Soil	6.7	32.4	0.20	178.1	0.003	1	1.79	0.002	0.17	<0.1	2.3	0.12	0.02	26	0.2	0.03	7.7	1.26	<0.1	0.04
1267550	Soil	6.4	42.8	0.46	294.3	0.004	2	2.18	0.002	0.24	<0.1	3.4	0.17	0.02	25	0.1	0.04	9.2	2.09	<0.1	0.03
1267551	Soil	9.9	25.8	0.36	100.0	0.006	2	1.52	0.003	0.08	<0.1	2.3	0.10	<0.02	16	0.1	<0.02	6.0	0.91	<0.1	0.02
1267552	Soil	8.5	29.3	0.38	125.7	0.003	1	1.74	0.002	0.10	<0.1	2.6	0.11	<0.02	18	0.1	<0.02	6.7	0.86	<0.1	0.03
1267553	Soil	26.5	30.0	0.37	442.3	0.002	2	2.44	0.005	0.14	<0.1	7.3	0.12	0.04	83	<0.1	0.03	5.9	1.87	<0.1	0.06
1267554	Soil	10.7	29.4	0.42	981.2	0.005	1	1.67	0.005	0.08	<0.1	3.0	0.09	<0.02	18	0.1	<0.02	6.1	0.96	<0.1	0.03
1267555	Soil	5.8	30.9	0.37	559.1	0.003	1	1.35	0.004	0.13	<0.1	3.9	0.07	<0.02	6	<0.1	<0.02	7.3	1.05	<0.1	0.02
1267556	Soil	9.3	30.5	0.52	537.3	0.003	3	1.70	0.008	0.11	<0.1	5.1	0.12	0.04	209	0.3	0.02	5.8	1.25	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 10 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1267527	Soil	0.60	17.5	2.9	<0.05	0.8	4.63	21.4	0.05	<1	1.6	35.9	<10	<2
1267528	Soil	0.59	20.6	2.6	<0.05	0.8	4.57	17.7	0.04	<1	1.5	32.8	<10	<2
1267529	Soil	0.60	17.5	2.7	<0.05	1.1	5.19	21.4	0.03	<1	1.1	24.4	<10	<2
1267530	Soil	0.81	15.4	8.5	<0.05	1.6	3.63	12.9	0.04	<1	2.0	39.9	<10	<2
1267531	Soil	0.40	16.1	0.9	<0.05	1.0	4.31	17.7	0.04	<1	1.3	34.3	<10	<2
1267532	Soil	0.66	22.4	6.8	<0.05	1.6	3.82	13.7	0.05	1	1.1	28.5	<10	<2
1267533	Soil	0.26	17.2	1.8	<0.05	1.5	12.09	25.7	0.05	<1	2.2	40.6	<10	<2
1267534	Soil	0.19	18.7	3.8	<0.05	2.1	24.46	19.2	0.05	<1	1.9	28.1	<10	<2
1267535	Soil	0.07	12.3	2.7	<0.05	1.7	13.63	21.0	0.04	<1	1.7	48.2	<10	<2
1267536	Soil	0.26	19.1	3.6	<0.05	2.5	4.21	10.1	0.04	<1	1.9	60.4	<10	<2
1267537	Soil	0.55	20.9	1.6	<0.05	1.2	4.75	14.7	0.05	<1	1.8	37.2	<10	<2
1267538	Soil	0.45	23.0	2.7	<0.05	1.6	4.70	17.1	0.05	1	1.8	41.9	<10	<2
1267539	Soil	0.45	17.3	4.2	<0.05	0.7	5.07	18.7	0.08	<1	1.5	24.7	<10	<2
1267540	Soil	0.38	15.4	20.9	<0.05	0.3	2.38	10.6	0.06	<1	0.7	13.5	<10	<2
1267541	Soil	0.88	16.2	6.4	<0.05	0.7	1.72	13.7	0.03	<1	0.6	17.2	<10	<2
1267542	Soil	0.85	22.6	3.4	<0.05	1.0	2.40	13.3	0.02	<1	0.5	14.7	<10	<2
1267543	Soil	0.47	19.4	37.9	<0.05	0.9	3.23	15.2	0.06	<1	1.4	20.3	<10	<2
1267544	Soil	0.57	16.2	3.7	<0.05	1.7	3.27	14.7	0.03	<1	1.0	35.1	<10	<2
1267545	Soil	0.39	14.0	9.1	<0.05	0.9	20.27	47.7	0.05	<1	1.8	29.0	<10	<2
1267546	Soil	0.59	12.7	5.5	<0.05	1.2	4.26	23.8	0.06	<1	1.1	30.2	<10	<2
1267547	Soil	0.60	23.1	3.6	<0.05	0.6	3.33	19.2	0.03	<1	1.1	36.3	<10	<2
1267548	Soil	0.60	23.1	7.1	<0.05	0.6	3.04	15.8	0.03	<1	1.0	32.3	<10	<2
1267549	Soil	0.77	22.4	1.2	<0.05	1.3	3.28	16.1	0.04	<1	0.8	22.7	<10	<2
1267550	Soil	0.56	27.1	3.3	<0.05	1.2	4.75	18.0	0.05	<1	1.3	40.1	<10	<2
1267551	Soil	0.61	14.7	1.5	<0.05	1.3	3.42	22.0	0.02	<1	0.6	20.7	<10	<2
1267552	Soil	0.54	13.9	1.6	<0.05	1.4	3.50	19.7	0.03	<1	0.6	26.8	<10	<2
1267553	Soil	0.63	21.8	1.4	<0.05	1.5	47.76	40.6	0.06	<1	2.9	26.3	<10	<2
1267554	Soil	0.70	14.9	1.4	<0.05	1.4	4.21	24.1	0.03	<1	0.9	32.1	<10	<2
1267555	Soil	0.28	19.8	1.1	<0.05	0.8	5.73	12.6	0.04	<1	1.0	23.2	<10	<2
1267556	Soil	0.56	21.1	1.4	<0.05	1.5	16.61	19.6	0.05	<1	1.1	30.5	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1267557	Soil			0.44	12.18	15.54	57.7	65	19.9	10.8	252	3.15	5.8	0.4	1.0	3.5	14.6	0.06	0.35	0.26	29	0.13	0.013
1267558	Soil			0.57	20.00	22.27	75.5	57	23.1	10.9	280	4.35	7.0	0.4	0.3	3.2	6.0	0.07	0.29	0.31	32	0.05	0.020
1267559	Soil			0.35	29.35	19.48	97.1	75	27.4	11.5	348	3.22	5.5	1.2	1.2	2.7	71.4	0.09	0.23	0.33	23	1.29	0.049
1267560	Soil			0.59	24.09	26.21	87.8	53	31.1	15.9	683	3.95	10.0	0.8	1.7	6.0	21.9	0.09	0.40	0.36	31	0.25	0.019
1267561	Soil			0.29	19.81	21.41	86.8	31	23.3	11.8	327	3.54	7.6	0.8	1.0	4.5	16.7	0.10	0.15	0.34	26	0.21	0.020
617539	Soil			0.47	21.53	15.51	51.7	32	23.4	10.7	178	3.42	4.6	0.4	0.8	3.6	7.9	0.05	0.22	0.32	24	0.07	0.030
617540	Soil			0.50	25.62	27.04	73.9	73	27.8	13.6	595	3.19	4.9	0.5	1.8	4.6	40.7	0.10	0.22	0.31	22	1.04	0.034
617541	Soil			0.41	27.27	23.67	75.6	112	27.9	12.4	291	3.13	4.1	0.4	1.4	4.6	22.8	0.06	0.14	0.34	23	0.77	0.039
617542	Soil			0.69	14.52	19.02	57.2	128	20.0	9.1	242	3.74	7.2	0.5	1.1	4.3	7.5	0.05	0.27	0.27	42	0.07	0.019
617543	Soil			0.68	28.31	25.89	49.1	173	19.2	10.9	720	3.13	5.3	1.1	0.6	5.2	20.0	0.11	0.20	0.40	41	0.19	0.031
617544	Soil			0.58	18.74	21.73	59.0	87	22.6	9.8	338	3.89	7.3	0.6	2.0	4.4	7.3	0.05	0.32	0.29	33	0.08	0.025
617545	Soil			0.41	27.35	24.46	81.9	53	30.2	14.5	426	4.07	6.0	0.6	0.7	5.7	11.8	0.05	0.13	0.36	26	0.20	0.023
617546	Soil			0.52	31.58	27.53	84.7	37	33.3	15.6	504	4.34	6.6	0.8	0.9	6.6	24.2	0.03	0.14	0.41	28	0.32	0.023
617547	Soil			0.57	24.64	24.75	66.1	61	23.5	12.8	470	3.59	5.2	1.0	0.3	4.5	24.2	0.07	0.15	0.36	34	0.26	0.019
617548	Soil			0.58	23.83	24.64	73.6	61	25.5	14.3	651	4.08	5.2	0.9	0.3	5.7	16.1	0.09	0.16	0.35	36	0.25	0.018
617549	Soil			0.44	29.00	24.44	73.6	84	27.7	13.3	741	3.65	5.6	1.2	1.3	3.7	64.9	0.11	0.18	0.37	28	1.13	0.043
617550	Soil			0.49	22.27	21.11	54.4	37	18.8	8.3	266	3.40	4.7	0.6	0.6	4.2	12.6	0.08	0.19	0.34	32	0.19	0.022
1267651	Soil			0.92	19.53	20.60	84.0	106	25.5	11.9	430	4.34	7.7	0.6	0.6	4.4	6.5	0.11	0.46	0.35	48	0.06	0.038
1267652	Soil			1.26	32.03	114.7	140.2	160	47.9	41.4	1714	7.21	19.5	0.8	5.3	4.9	9.8	0.18	1.05	0.42	35	0.06	0.071
1267653	Soil			1.35	19.28	16.89	107.4	97	23.4	9.9	338	3.94	9.2	0.6	2.1	3.7	6.3	0.16	0.65	0.45	47	0.05	0.043
1267654	Soil			1.03	25.72	29.31	91.1	112	29.5	14.3	456	3.88	7.6	0.6	1.3	3.9	7.7	0.11	0.37	0.42	37	0.04	0.035
1267655	Soil			0.84	26.84	24.51	95.8	104	30.2	13.1	376	4.10	6.6	0.5	0.8	3.6	6.1	0.14	0.34	0.46	37	0.04	0.036
1267656	Soil			0.46	16.54	14.61	121.0	75	22.7	11.9	295	3.46	4.3	0.4	0.4	3.6	9.1	0.08	0.22	0.45	34	0.08	0.023
1267657	Soil			0.56	13.68	14.77	61.0	30	21.3	8.8	234	2.92	6.1	0.6	0.7	4.3	8.9	0.05	0.30	0.31	39	0.09	0.021
1267658	Soil			0.60	23.70	9.02	61.8	61	27.9	10.0	180	3.58	3.2	0.5	0.4	3.0	9.3	0.06	0.29	0.33	28	0.10	0.022
1267659	Soil			0.51	22.89	18.55	72.2	158	27.3	10.3	444	3.09	6.3	1.4	0.7	4.4	27.6	0.08	0.34	0.33	29	0.42	0.031
1267663	Soil			0.65	20.34	19.76	71.7	34	29.5	12.4	345	3.53	7.3	0.7	0.9	5.4	6.9	0.05	0.34	0.32	38	0.06	0.018
1267664	Soil			0.50	14.27	17.25	73.7	43	18.1	8.9	328	3.55	4.7	0.3	<0.2	2.8	5.8	0.05	0.21	0.32	31	0.05	0.024
1267665	Soil			0.45	28.80	12.57	73.1	49	27.4	13.7	251	3.64	3.6	0.8	0.5	3.2	20.7	0.03	0.18	0.43	34	0.16	0.018
1267666	Soil			0.50	21.63	20.70	75.5	16	23.2	11.2	247	4.27	5.8	0.3	<0.2	2.9	14.3	0.04	0.14	0.34	29	0.11	0.011



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267557	Soil	7.2	27.6	0.38	313.3	0.005	1	1.35	0.003	0.10	<0.1	2.7	0.11	<0.02	45	0.1	0.03	5.5	0.75	<0.1	0.03
1267558	Soil	6.0	31.2	0.39	173.9	0.002	<1	1.73	0.002	0.11	<0.1	2.6	0.10	<0.02	30	0.1	0.03	6.9	0.89	<0.1	0.06
1267559	Soil	6.3	27.9	0.52	186.2	0.002	5	1.49	0.007	0.13	<0.1	4.8	0.11	0.10	93	0.7	<0.02	5.3	1.45	<0.1	0.07
1267560	Soil	12.1	33.4	0.53	154.7	0.008	2	1.61	0.006	0.11	<0.1	5.0	0.12	<0.02	48	0.2	0.03	6.2	1.45	<0.1	0.06
1267561	Soil	7.9	29.5	0.41	146.1	0.002	2	1.68	0.003	0.12	<0.1	3.6	0.09	<0.02	24	0.1	0.02	6.2	0.87	<0.1	0.05
617539	Soil	7.4	20.1	0.24	71.6	0.002	2	1.17	0.002	0.14	<0.1	2.7	0.09	<0.02	24	0.2	<0.02	4.5	0.67	<0.1	0.02
617540	Soil	9.2	26.8	0.58	137.5	0.004	6	1.36	0.005	0.16	<0.1	3.9	0.11	0.04	49	0.3	0.02	5.0	1.38	<0.1	0.07
617541	Soil	8.8	30.9	0.55	139.6	0.003	5	1.53	0.005	0.19	<0.1	4.5	0.13	0.06	63	0.5	<0.02	5.6	1.60	<0.1	0.07
617542	Soil	10.4	30.1	0.41	91.0	0.005	2	2.01	0.002	0.09	<0.1	2.5	0.12	<0.02	22	0.2	0.02	6.9	0.98	<0.1	0.05
617543	Soil	13.0	29.3	0.29	366.9	0.003	1	1.61	0.003	0.17	<0.1	3.4	0.11	<0.02	28	0.1	0.04	7.2	1.06	<0.1	0.02
617544	Soil	9.2	27.9	0.37	94.4	0.003	2	1.61	0.002	0.10	<0.1	2.8	0.11	<0.02	22	0.2	0.04	5.8	1.04	<0.1	0.04
617545	Soil	10.4	33.1	0.43	106.2	0.003	2	1.70	0.002	0.15	<0.1	4.2	0.11	<0.02	18	<0.1	<0.02	6.7	0.98	<0.1	0.04
617546	Soil	10.4	35.7	0.52	156.9	0.003	1	1.78	0.003	0.12	<0.1	5.1	0.10	<0.02	20	<0.1	0.03	6.9	1.19	<0.1	0.06
617547	Soil	10.1	32.6	0.45	185.2	0.002	2	1.90	0.004	0.12	<0.1	3.9	0.10	<0.02	17	0.2	<0.02	7.2	0.84	<0.1	0.04
617548	Soil	11.1	37.0	0.46	160.9	0.003	2	2.05	0.003	0.13	<0.1	4.3	0.11	<0.02	17	<0.1	<0.02	7.5	1.20	<0.1	0.05
617549	Soil	8.9	32.2	0.47	253.1	0.002	3	1.96	0.008	0.18	<0.1	4.8	0.11	0.05	43	0.3	0.03	6.6	1.07	<0.1	0.10
617550	Soil	9.7	25.7	0.29	159.6	0.002	1	1.54	0.003	0.15	<0.1	3.1	0.11	<0.02	17	<0.1	<0.02	7.1	0.72	<0.1	0.04
1267651	Soil	9.9	34.1	0.40	102.6	0.003	1	2.21	0.001	0.11	<0.1	2.9	0.13	<0.02	116	0.3	0.04	7.8	1.56	<0.1	0.03
1267652	Soil	6.9	33.0	0.31	113.7	0.002	1	2.10	<0.001	0.11	<0.1	5.0	0.17	<0.02	34	0.7	0.04	6.5	2.64	<0.1	0.05
1267653	Soil	9.6	33.0	0.48	100.9	0.007	1	1.78	<0.001	0.08	0.2	2.2	0.11	<0.02	40	0.5	0.05	6.5	1.19	<0.1	0.04
1267654	Soil	8.2	36.8	0.50	76.5	0.005	<1	1.78	<0.001	0.11	<0.1	2.9	0.10	<0.02	25	0.4	0.02	7.1	1.45	<0.1	0.05
1267655	Soil	6.7	36.5	0.45	88.3	0.003	<1	2.03	<0.001	0.11	<0.1	2.8	0.12	<0.02	21	0.4	0.03	7.4	1.86	<0.1	0.05
1267656	Soil	6.4	31.8	0.41	198.0	0.003	1	1.95	<0.001	0.16	<0.1	2.8	0.17	<0.02	19	0.2	<0.02	7.6	1.61	<0.1	0.08
1267657	Soil	11.7	28.9	0.52	139.8	0.009	1	1.66	<0.001	0.06	0.1	2.5	0.11	<0.02	15	0.3	0.02	6.2	1.04	<0.1	0.03
1267658	Soil	5.6	28.6	0.45	186.7	0.004	2	1.77	<0.001	0.16	<0.1	2.5	0.15	<0.02	18	0.3	0.03	6.2	1.94	<0.1	0.03
1267659	Soil	13.8	28.2	0.51	198.8	0.006	2	1.55	0.002	0.10	<0.1	4.1	0.09	<0.02	39	0.7	0.02	5.1	1.10	<0.1	0.06
1267663	Soil	10.1	32.7	0.46	112.9	0.006	1	2.16	<0.001	0.07	<0.1	3.0	0.12	<0.02	27	0.5	0.05	5.9	1.13	<0.1	0.07
1267664	Soil	5.8	26.8	0.35	111.8	0.004	<1	1.46	<0.001	0.09	<0.1	2.1	0.09	<0.02	22	0.2	<0.02	6.9	1.05	<0.1	<0.02
1267665	Soil	6.2	34.6	0.52	356.8	0.004	1	1.99	0.001	0.10	0.1	4.1	0.11	<0.02	19	0.5	0.03	8.0	2.20	<0.1	0.05
1267666	Soil	3.8	31.0	0.47	139.1	0.006	1	1.46	<0.001	0.07	<0.1	2.5	0.07	<0.02	14	0.2	0.03	7.0	0.91	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 30, 2011

Page: 11 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1267557	Soil	0.68	14.8	2.0	<0.05	1.5	2.55	16.8	0.03	<1	0.6	25.1	<10	<2
1267558	Soil	0.51	14.8	1.3	<0.05	2.1	2.46	13.4	0.04	1	0.6	40.7	<10	<2
1267559	Soil	0.55	16.8	1.1	<0.05	2.0	10.76	14.0	0.03	<1	1.2	33.0	<10	<2
1267560	Soil	0.33	14.0	1.2	<0.05	2.3	10.41	27.7	0.04	<1	1.1	34.5	<10	<2
1267561	Soil	0.39	14.6	1.5	<0.05	1.7	6.16	19.4	0.03	<1	1.0	33.0	<10	<2
617539	Soil	0.53	11.6	1.2	<0.05	0.9	3.15	16.4	0.03	<1	0.6	15.5	<10	<2
617540	Soil	0.69	17.1	6.1	<0.05	2.7	8.83	22.1	0.03	<1	1.1	29.5	<10	<2
617541	Soil	0.49	20.9	2.9	<0.05	2.5	9.90	20.7	0.04	<1	1.0	36.9	<10	<2
617542	Soil	0.81	13.9	1.1	<0.05	2.1	2.69	22.0	0.03	<1	0.7	33.6	<10	<2
617543	Soil	0.72	20.5	1.6	<0.05	1.4	12.39	28.7	0.04	<1	1.1	16.6	<10	<2
617544	Soil	0.58	14.6	2.7	<0.05	1.6	4.13	20.6	0.03	<1	0.7	22.6	<10	<2
617545	Soil	0.33	14.2	1.7	<0.05	1.9	7.78	26.4	0.03	<1	1.2	33.6	<10	<2
617546	Soil	0.29	12.2	1.7	<0.05	2.6	8.08	25.2	0.05	<1	1.3	32.6	<10	<2
617547	Soil	0.54	14.3	1.8	<0.05	2.2	7.65	24.1	0.04	<1	1.2	33.1	<10	<2
617548	Soil	0.50	17.4	1.7	<0.05	2.4	7.09	24.9	0.04	<1	1.3	34.2	<10	<2
617549	Soil	0.50	17.7	1.7	<0.05	3.0	12.07	18.4	0.05	<1	1.4	31.9	<10	<2
617550	Soil	0.44	18.8	1.7	<0.05	1.9	6.98	21.6	0.03	<1	0.9	18.5	<10	<2
1267651	Soil	0.83	17.4	1.6	<0.05	1.8	2.97	20.7	0.04	<1	0.9	39.5	<10	<2
1267652	Soil	0.41	15.6	1.5	<0.05	2.0	8.16	23.0	0.09	<1	1.8	47.8	<10	<2
1267653	Soil	0.87	13.9	1.3	<0.05	1.5	2.73	22.1	0.03	<1	0.7	40.5	<10	<2
1267654	Soil	0.64	13.9	2.7	<0.05	1.6	3.48	19.2	0.03	<1	1.0	35.9	<10	<2
1267655	Soil	0.46	16.3	1.6	<0.05	1.6	3.36	17.2	0.04	<1	1.3	31.9	<10	<2
1267656	Soil	0.32	23.1	1.3	<0.05	1.8	3.47	15.1	0.02	<1	1.1	37.9	<10	<2
1267657	Soil	0.66	11.0	0.7	<0.05	1.5	4.16	25.8	<0.02	<1	0.7	29.6	<10	<2
1267658	Soil	0.46	21.8	1.1	<0.05	1.4	3.37	12.7	0.02	<1	1.2	34.9	<10	<2
1267659	Soil	0.59	13.9	1.0	<0.05	2.0	18.17	27.5	0.03	<1	1.2	38.4	<10	<2
1267663	Soil	0.48	14.1	1.0	<0.05	3.0	4.34	25.3	0.03	<1	1.0	36.4	<10	<2
1267664	Soil	0.51	16.6	1.2	<0.05	1.0	2.22	13.4	<0.02	<1	0.6	22.2	<10	<2
1267665	Soil	0.59	20.8	1.4	<0.05	1.8	9.80	14.0	0.04	<1	1.6	40.4	<10	<2
1267666	Soil	0.33	12.7	1.3	<0.05	1.6	2.22	9.5	0.03	<1	0.5	36.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 30, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1267667	Soil	0.41	31.98	27.74	93.4	20	33.0	19.6	617	4.24	6.6	0.4	<0.2	4.2	17.0	0.04	0.18	0.46	29	0.14	0.011
1267668	Soil	0.38	39.49	30.35	104.5	19	36.6	25.9	898	4.40	6.1	0.4	0.6	4.2	9.7	0.03	0.16	0.46	29	0.10	0.013
1267669	Soil	0.35	43.49	28.03	103.5	16	36.6	20.6	878	4.48	5.2	0.5	0.7	4.2	8.3	0.04	0.13	0.41	32	0.08	0.020
1267670	Soil	0.34	39.96	19.36	90.2	24	35.6	14.8	399	4.47	4.3	0.5	0.7	4.3	8.0	0.02	0.13	0.43	33	0.06	0.013
1267671	Soil	0.36	36.29	21.38	97.7	21	33.6	16.0	420	4.38	5.6	0.4	1.4	3.8	9.0	0.03	0.16	0.41	31	0.06	0.016
1267672	Soil	0.54	28.62	21.57	92.9	39	22.4	11.6	346	4.30	5.8	0.5	1.2	3.7	16.8	0.03	0.16	0.41	29	0.18	0.030
1267673	Soil	0.52	33.12	12.56	88.7	30	24.5	9.0	176	4.11	4.9	0.3	<0.2	2.4	10.9	0.04	0.21	0.37	28	0.07	0.015
1267674	Soil	0.50	41.28	16.81	87.8	19	33.3	14.7	399	4.35	5.1	0.4	<0.2	3.3	8.9	0.03	0.22	0.41	31	0.07	0.014
1267675	Soil	0.43	41.69	24.86	101.4	18	39.8	19.3	556	4.96	6.8	0.4	0.6	4.2	9.8	0.02	0.20	0.49	34	0.09	0.014
617347	Soil	0.94	15.94	30.74	84.4	108	19.9	9.6	1156	4.53	8.3	0.6	0.3	4.6	5.9	0.11	0.21	0.32	28	0.07	0.035
617348	Soil	0.73	16.01	14.32	96.3	423	14.8	9.2	407	3.32	5.6	0.4	<0.2	3.1	7.3	0.15	0.30	0.35	43	0.06	0.033
617349	Soil	0.45	12.90	16.57	121.1	72	19.0	12.3	377	3.17	3.2	0.3	<0.2	3.1	8.8	0.10	0.19	0.34	33	0.05	0.027
617350	Soil	0.68	21.01	15.83	65.9	169	25.8	12.9	320	3.88	5.8	0.3	<0.2	2.6	6.7	0.06	0.28	0.36	28	0.05	0.037
1097037	Soil	0.38	38.47	19.10	144.9	45	35.0	14.9	421	4.55	4.8	0.5	0.6	3.5	14.5	0.10	0.17	0.41	32	0.17	0.038
1097038	Soil	0.40	48.74	29.30	112.1	35	36.6	24.4	836	4.88	5.4	0.5	<0.2	4.2	6.6	0.03	0.19	0.47	33	0.05	0.018
1097039	Soil	0.35	50.81	21.52	91.5	29	30.4	12.4	207	4.74	5.1	0.4	0.5	3.2	3.6	0.09	0.15	0.40	33	0.01	0.015
617001	Soil	0.37	16.82	15.87	106.6	148	24.3	13.7	560	3.19	3.7	0.3	<0.2	3.0	14.0	0.07	0.15	0.37	31	0.14	0.031
617002	Soil	0.61	8.26	15.28	62.5	117	11.7	6.6	226	2.51	4.1	0.3	<0.2	2.8	7.7	0.06	0.22	0.31	37	0.07	0.021
617003	Soil	0.41	12.51	17.92	125.6	64	26.9	15.0	749	3.48	4.7	0.3	<0.2	3.0	17.1	0.11	0.17	0.31	35	0.20	0.038
617004	Soil	0.53	18.60	13.79	71.3	49	28.4	15.1	384	3.36	4.8	0.5	0.6	3.0	18.6	0.05	0.25	0.36	31	0.23	0.025



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267667	Soil	5.3	32.1	0.61	98.8	0.006	2	1.73	0.001	0.09	<0.1	3.3	0.09	<0.02	20	0.3	0.02	6.8	1.25	<0.1	0.04
1267668	Soil	6.3	36.3	0.65	89.4	0.005	<1	1.87	<0.001	0.06	<0.1	4.4	0.07	<0.02	48	0.3	<0.02	7.0	0.88	<0.1	0.04
1267669	Soil	6.6	38.2	0.69	88.2	0.005	<1	1.96	<0.001	0.05	<0.1	4.2	0.06	<0.02	33	0.3	<0.02	7.4	0.75	<0.1	0.03
1267670	Soil	6.6	42.5	0.70	77.6	0.004	<1	2.08	0.001	0.06	<0.1	5.0	0.07	<0.02	30	0.4	0.02	8.1	1.03	<0.1	0.03
1267671	Soil	6.2	37.6	0.66	77.1	0.004	<1	1.92	0.001	0.07	<0.1	4.0	0.06	<0.02	24	0.3	0.04	7.1	1.20	<0.1	0.04
1267672	Soil	5.6	25.0	0.28	94.7	0.001	<1	1.06	0.003	0.07	<0.1	4.7	0.05	<0.02	75	0.4	<0.02	4.1	0.56	<0.1	0.03
1267673	Soil	4.2	21.5	0.25	74.4	0.002	<1	0.89	0.002	0.08	<0.1	3.7	0.06	<0.02	52	0.2	0.04	4.6	0.59	<0.1	<0.02
1267674	Soil	4.9	32.9	0.52	152.0	0.006	<1	1.54	0.001	0.08	<0.1	4.1	0.07	<0.02	46	0.1	0.03	6.0	0.93	<0.1	<0.02
1267675	Soil	6.2	43.2	0.77	111.6	0.007	<1	2.11	0.001	0.07	<0.1	4.2	0.06	<0.02	35	0.3	<0.02	7.9	0.93	<0.1	0.04
617347	Soil	8.2	24.2	0.23	163.1	0.002	1	1.43	<0.001	0.09	<0.1	2.8	0.09	<0.02	36	0.4	0.03	4.4	1.16	<0.1	0.03
617348	Soil	8.2	25.0	0.23	145.4	0.003	<1	1.77	<0.001	0.14	<0.1	1.9	0.11	<0.02	33	0.3	0.04	7.2	0.92	<0.1	0.02
617349	Soil	6.7	27.3	0.32	219.8	0.002	1	1.86	<0.001	0.18	<0.1	2.2	0.12	<0.02	13	0.2	0.03	6.8	1.00	<0.1	0.03
617350	Soil	5.0	31.4	0.48	86.4	0.002	<1	1.76	<0.001	0.12	<0.1	2.2	0.10	<0.02	24	0.3	<0.02	6.6	1.62	<0.1	0.03
1097037	Soil	5.9	36.0	0.67	105.8	0.006	1	1.91	0.003	0.09	<0.1	4.7	0.07	<0.02	41	0.4	<0.02	6.8	0.89	<0.1	0.03
1097038	Soil	6.6	39.0	0.72	100.0	0.008	1	2.07	0.001	0.07	<0.1	5.1	0.06	<0.02	47	0.3	<0.02	7.7	1.17	<0.1	0.03
1097039	Soil	4.6	38.0	0.56	76.8	0.003	1	2.31	<0.001	0.06	<0.1	4.0	0.11	<0.02	28	0.3	0.03	7.6	1.09	<0.1	0.04
617001	Soil	5.7	31.7	0.41	660.0	0.002	1	2.04	<0.001	0.24	<0.1	2.6	0.17	<0.02	21	0.3	0.03	8.0	1.32	<0.1	0.02
617002	Soil	8.4	20.8	0.24	157.8	0.005	<1	1.50	<0.001	0.11	<0.1	1.7	0.11	<0.02	18	0.3	<0.02	6.5	0.91	<0.1	<0.02
617003	Soil	7.4	34.8	0.47	288.6	0.003	1	2.25	0.005	0.24	<0.1	2.8	0.13	<0.02	24	0.3	0.03	8.8	1.33	<0.1	0.03
617004	Soil	5.9	35.0	0.56	210.9	0.005	2	1.77	0.003	0.12	<0.1	3.2	0.10	<0.02	15	0.3	0.02	7.1	2.07	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 12 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001351.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1267667	Soil	0.27	15.0	1.2	<0.05	1.8	3.55	15.4	0.03	<1	1.1	37.3	<10	<2
1267668	Soil	0.15	7.4	1.0	<0.05	1.4	5.92	19.3	0.04	<1	1.2	37.2	<10	<2
1267669	Soil	0.19	6.2	1.0	<0.05	1.3	5.73	19.8	0.04	<1	1.3	38.2	<10	<2
1267670	Soil	0.21	9.2	1.5	<0.05	1.2	7.07	18.5	0.03	1	1.2	41.3	<10	<2
1267671	Soil	0.21	8.8	1.2	<0.05	1.4	5.23	16.7	0.03	<1	1.1	38.5	<10	<2
1267672	Soil	0.21	7.1	1.0	<0.05	0.7	5.24	14.4	0.04	<1	0.9	15.2	<10	<2
1267673	Soil	0.20	8.9	1.0	<0.05	0.8	2.79	9.8	0.03	<1	0.6	11.7	<10	<2
1267674	Soil	0.29	10.0	1.2	<0.05	0.8	4.07	12.3	0.03	<1	1.1	31.3	<10	<2
1267675	Soil	0.27	8.7	1.3	<0.05	1.6	4.81	16.8	0.04	<1	1.2	44.6	<10	<2
617347	Soil	0.38	13.1	1.1	<0.05	1.0	6.44	23.9	0.04	<1	1.0	20.7	<10	<2
617348	Soil	0.56	18.6	1.3	<0.05	1.1	2.52	17.8	<0.02	<1	0.7	32.0	<10	<2
617349	Soil	0.34	20.8	1.3	<0.05	0.9	2.80	15.1	0.03	<1	0.8	27.5	<10	<2
617350	Soil	0.37	16.0	4.6	<0.05	1.0	2.44	12.2	<0.02	<1	1.2	39.9	<10	<2
1097037	Soil	0.45	9.5	1.0	<0.05	0.9	5.97	14.7	0.03	<1	1.0	38.5	<10	<2
1097038	Soil	0.26	9.5	1.2	<0.05	1.1	6.12	18.1	0.03	<1	1.2	41.1	<10	<2
1097039	Soil	0.28	12.7	1.0	<0.05	1.3	3.67	12.6	0.05	<1	1.3	42.3	<10	<2
617001	Soil	0.40	28.1	1.4	<0.05	1.1	2.68	12.3	0.02	<1	1.3	28.9	<10	<2
617002	Soil	0.58	19.6	1.3	<0.05	0.7	2.75	18.7	<0.02	<1	0.5	14.3	<10	<2
617003	Soil	0.43	29.0	1.5	<0.05	0.8	2.28	16.6	0.03	<1	1.1	29.6	<10	<2
617004	Soil	0.53	16.1	1.5	<0.05	1.7	4.64	13.2	0.03	<1	1.1	29.8	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 30, 2011

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001351.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
617184	Soil	0.65	11.06	17.57	36.6	82	14.1	6.1	895	1.84	14.7	1.4	7.0	0.4	27.9	0.18	1.74	0.13	11	8.68	0.146
REP 617184	QC	0.63	10.86	18.23	35.4	86	14.1	6.1	901	1.88	14.7	1.5	5.2	0.5	28.2	0.17	1.79	0.12	11	9.17	0.155
617207	Soil	0.56	37.00	35.76	90.9	74	32.3	27.5	1241	4.55	4.4	0.7	1.0	3.0	9.6	0.21	0.29	0.33	34	0.06	0.048
REP 617207	QC	0.49	37.73	35.72	94.6	76	33.2	26.9	1229	4.65	4.4	0.8	0.7	3.0	9.8	0.23	0.26	0.32	34	0.06	0.047
617221	Soil	0.60	112.4	40.34	90.1	271	60.0	57.2	4955	3.85	6.8	1.0	5.8	6.5	12.1	0.23	0.38	0.38	25	0.40	0.035
REP 617221	QC	0.58	110.4	38.54	85.7	251	58.9	57.5	4746	3.73	6.4	1.0	4.4	6.5	11.5	0.22	0.35	0.33	24	0.38	0.032
617236	Soil	0.53	20.92	35.10	147.7	121	24.6	21.9	1390	3.79	5.0	0.5	<0.2	3.9	6.7	0.19	0.18	0.40	39	0.05	0.049
REP 617236	QC	0.49	21.28	35.54	149.1	125	25.3	22.7	1419	3.86	5.0	0.5	<0.2	4.0	6.7	0.16	0.18	0.41	40	0.05	0.049
617505	Soil	0.33	27.46	27.36	79.4	85	28.6	14.4	883	3.54	8.8	0.8	2.4	4.2	38.5	0.12	0.52	0.39	21	1.04	0.050
REP 617505	QC	0.32	27.65	27.32	80.5	81	28.6	14.7	900	3.58	8.5	0.8	2.5	4.3	38.4	0.11	0.55	0.38	21	1.04	0.050
617523	Soil	0.72	19.09	29.75	74.6	52	22.6	12.3	1047	3.94	17.6	0.6	1.2	1.3	9.6	0.17	0.85	0.33	29	0.41	0.079
REP 617523	QC	0.73	20.52	30.26	78.1	49	24.5	12.5	1051	3.95	18.4	0.7	1.1	1.6	9.7	0.18	0.93	0.33	28	0.41	0.082
617645	Soil	0.32	27.30	26.13	80.3	28	29.6	22.9	883	4.00	2.7	0.7	<0.2	4.7	7.6	0.05	0.25	0.32	34	0.12	0.032
REP 617645	QC	0.32	26.55	24.64	79.8	18	28.5	22.1	829	3.81	2.7	0.7	<0.2	4.4	7.6	0.04	0.24	0.32	33	0.09	0.029
617653	Soil	0.52	19.98	61.08	119.7	199	22.8	9.6	752	3.36	21.7	1.0	0.3	2.6	22.1	0.27	1.37	0.31	12	0.66	0.085
REP 617653	QC	0.55	20.84	64.96	121.7	210	24.5	9.8	785	3.49	22.7	1.0	0.3	2.8	23.2	0.26	1.49	0.32	12	0.66	0.087
617669	Soil	1.40	22.69	27.82	81.9	131	27.5	12.1	388	3.82	10.7	0.7	3.7	4.4	10.4	0.14	0.98	0.47	50	0.06	0.031
REP 617669	QC	1.38	22.24	27.15	78.7	144	28.2	11.3	381	3.72	10.4	0.7	1.9	4.4	9.0	0.14	0.92	0.39	46	0.07	0.030
617340	Soil	0.77	31.96	32.78	122.2	75	27.0	24.9	1292	4.88	4.8	0.7	0.6	4.1	6.7	0.17	0.36	0.45	43	0.03	0.044
REP 617340	QC	0.82	33.05	33.19	130.2	71	27.6	25.1	1305	4.92	4.9	0.7	1.2	4.2	6.7	0.18	0.36	0.46	43	0.03	0.046
1267503	Soil	0.53	36.13	40.92	84.2	56	27.6	29.6	1694	3.81	3.3	0.6	0.9	3.9	8.1	0.11	0.24	0.35	29	0.08	0.038
REP 1267503	QC	0.52	35.91	40.40	87.0	52	27.6	28.9	1649	3.70	3.4	0.6	1.0	3.7	8.0	0.11	0.25	0.35	28	0.08	0.038
1267517	Soil	0.77	17.05	17.14	70.8	217	9.0	10.0	1082	3.46	6.2	0.5	0.7	0.8	7.1	0.19	0.49	0.34	43	0.03	0.063
REP 1267517	QC	0.77	17.82	17.34	71.1	226	9.9	10.6	1131	3.56	6.3	0.5	0.4	0.7	7.4	0.19	0.51	0.33	44	0.03	0.063
1266362	Soil	0.70	29.70	30.54	96.3	66	29.2	15.6	409	4.47	7.2	0.5	0.9	5.0	7.0	0.04	0.26	0.49	33	0.03	0.027
REP 1266362	QC	0.67	28.82	29.31	98.2	69	28.5	14.8	386	4.30	7.2	0.5	<0.2	4.9	6.6	0.03	0.25	0.46	33	0.03	0.025
1267527	Soil	0.73	32.67	38.06	92.4	70	31.3	25.6	1198	4.23	6.2	0.6	1.5	3.2	7.9	0.13	0.51	0.34	40	0.06	0.040
REP 1267527	QC	0.80	33.30	38.37	91.9	63	32.1	26.4	1227	4.36	6.5	0.6	2.2	3.3	8.1	0.13	0.52	0.36	41	0.06	0.039

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001351.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
617184	Soil	5.7	9.0	4.80	39.4	0.004	3	0.40	0.010	0.04	<0.1	0.8	0.08	0.03	190	0.3	0.03	0.9	0.23	<0.1	0.04
REP 617184	QC	6.2	8.9	5.09	42.6	0.003	2	0.42	0.010	0.04	<0.1	0.8	0.08	0.03	194	0.4	0.03	0.9	0.24	<0.1	0.02
617207	Soil	6.4	41.8	0.62	81.2	0.003	<1	2.38	0.008	0.10	<0.1	4.7	0.12	0.03	32	0.4	0.04	7.6	2.41	<0.1	0.06
REP 617207	QC	6.9	39.7	0.63	86.2	0.004	<1	2.46	0.010	0.10	<0.1	4.8	0.12	0.03	27	0.4	0.04	7.8	2.50	<0.1	0.04
617221	Soil	20.5	23.7	0.36	455.8	0.005	3	1.54	0.003	0.16	<0.1	8.2	0.22	0.03	148	0.4	0.03	5.3	2.34	<0.1	0.12
REP 617221	QC	19.6	23.3	0.35	436.0	0.004	2	1.46	0.002	0.15	<0.1	7.9	0.22	0.03	155	0.3	0.03	5.1	2.07	<0.1	0.11
617236	Soil	6.9	36.5	0.31	194.8	0.003	1	2.27	<0.001	0.18	<0.1	3.1	0.14	0.02	36	0.2	<0.02	8.4	1.36	<0.1	0.03
REP 617236	QC	6.8	37.2	0.32	197.1	0.003	2	2.30	0.001	0.18	<0.1	3.1	0.13	0.02	31	0.2	0.02	8.4	1.32	<0.1	0.04
617505	Soil	10.8	23.0	0.55	126.5	0.003	3	1.53	0.003	0.09	<0.1	4.0	0.08	0.04	116	0.4	<0.02	4.6	0.79	<0.1	0.07
REP 617505	QC	10.5	23.8	0.56	127.5	0.003	4	1.52	0.002	0.09	<0.1	4.3	0.08	0.04	136	0.4	<0.02	4.8	0.78	<0.1	0.08
617523	Soil	6.6	17.1	0.30	87.8	0.006	3	1.11	0.002	0.12	<0.1	2.5	0.12	0.06	31	0.2	0.05	3.4	1.88	<0.1	0.04
REP 617523	QC	7.0	17.7	0.31	95.5	0.006	4	1.12	0.002	0.12	<0.1	2.5	0.12	0.06	38	0.3	<0.02	3.5	1.79	<0.1	<0.02
617645	Soil	3.3	36.1	0.64	250.5	0.004	<1	2.21	0.004	0.18	<0.1	4.2	0.15	<0.02	11	<0.1	<0.02	7.7	2.44	<0.1	0.02
REP 617645	QC	3.3	35.1	0.63	249.3	0.004	2	2.20	0.003	0.18	<0.1	4.0	0.15	<0.02	17	<0.1	<0.02	7.6	2.42	<0.1	0.03
617653	Soil	11.2	10.2	0.18	86.8	0.001	<1	0.72	0.002	0.06	<0.1	3.5	0.11	0.05	363	0.2	0.04	1.6	0.90	<0.1	0.05
REP 617653	QC	11.7	10.3	0.18	91.9	0.001	<1	0.74	0.002	0.06	<0.1	3.5	0.11	0.05	391	0.3	0.02	1.6	0.89	<0.1	0.05
617669	Soil	11.3	31.6	0.44	91.2	0.015	2	2.02	0.001	0.12	0.1	2.5	0.13	<0.02	61	0.5	0.05	5.9	1.68	<0.1	0.02
REP 617669	QC	9.8	31.1	0.43	84.3	0.008	1	1.89	<0.001	0.10	0.1	2.4	0.12	<0.02	45	0.5	0.04	5.8	1.44	<0.1	0.04
617340	Soil	6.5	37.5	0.38	163.4	0.004	2	2.75	0.005	0.18	<0.1	3.8	0.15	<0.02	37	0.3	0.06	8.5	3.28	<0.1	0.05
REP 617340	QC	6.3	37.1	0.40	165.8	0.003	<1	2.68	0.004	0.16	<0.1	3.7	0.15	0.02	26	0.2	0.05	8.8	3.08	<0.1	0.04
1267503	Soil	4.6	33.3	0.49	220.2	0.003	2	2.28	0.005	0.18	<0.1	4.4	0.15	<0.02	21	<0.1	0.03	7.3	3.83	<0.1	0.06
REP 1267503	QC	4.5	33.8	0.53	209.0	0.004	2	2.28	0.005	0.17	<0.1	4.5	0.16	<0.02	17	0.1	0.02	7.2	3.88	<0.1	0.03
1267517	Soil	9.1	25.8	0.13	95.3	0.009	2	1.25	0.005	0.11	<0.1	1.5	0.11	0.03	44	0.3	0.04	7.1	1.86	<0.1	<0.02
REP 1267517	QC	9.1	26.7	0.13	98.7	0.009	2	1.29	0.005	0.11	<0.1	1.5	0.09	0.03	32	0.2	0.04	7.4	1.85	<0.1	<0.02
1266362	Soil	5.7	37.8	0.46	80.0	0.005	2	2.13	0.004	0.11	<0.1	3.5	0.12	<0.02	26	0.1	0.03	7.3	2.54	<0.1	0.05
REP 1266362	QC	5.7	36.8	0.44	76.6	0.005	2	2.07	0.004	0.11	<0.1	3.4	0.12	<0.02	21	0.2	<0.02	7.4	2.47	<0.1	0.03
1267527	Soil	7.6	34.5	0.49	117.4	0.008	2	2.06	0.007	0.12	<0.1	3.4	0.14	0.02	35	0.2	0.05	6.8	2.82	<0.1	0.02
REP 1267527	QC	7.9	34.6	0.49	118.5	0.009	2	2.12	0.007	0.13	<0.1	3.6	0.15	0.02	36	0.2	0.04	7.1	2.88	<0.1	0.03

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 1 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001351.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
617184	Soil	0.08	2.2	0.3	<0.05	0.8	7.44	11.5	<0.02	<1	0.3	2.8	<10	<2
REP 617184	QC	0.10	2.3	0.3	<0.05	0.7	7.59	12.2	<0.02	<1	0.3	2.8	<10	<2
617207	Soil	0.33	12.3	0.9	<0.05	1.3	7.01	18.9	0.04	<1	1.5	37.4	<10	<2
REP 617207	QC	0.32	13.1	0.8	<0.05	1.1	6.89	20.8	0.05	<1	1.9	37.6	<10	<2
617221	Soil	0.21	18.4	0.8	<0.05	3.7	38.80	55.4	0.02	<1	1.6	19.7	<10	2
REP 617221	QC	0.18	17.2	0.9	<0.05	3.6	37.09	53.3	0.02	<1	1.6	18.5	<10	2
617236	Soil	0.46	23.8	1.1	<0.05	1.5	3.58	16.5	0.04	<1	1.2	42.3	<10	<2
REP 617236	QC	0.47	23.2	1.1	<0.05	1.5	3.71	16.6	0.03	<1	1.3	44.6	<10	<2
617505	Soil	0.37	8.1	0.9	<0.05	2.8	12.21	22.6	0.03	<1	1.1	27.3	<10	<2
REP 617505	QC	0.37	7.6	1.2	<0.05	3.0	12.40	21.6	0.04	<1	1.0	29.5	<10	<2
617523	Soil	0.34	11.0	0.8	<0.05	0.6	4.98	16.4	0.03	<1	0.9	12.5	<10	<2
REP 617523	QC	0.33	11.0	0.8	<0.05	0.6	5.12	18.1	0.02	<1	1.0	12.8	<10	<2
617645	Soil	0.36	20.5	1.7	<0.05	1.7	5.02	10.5	0.04	<1	2.1	33.2	<10	<2
REP 617645	QC	0.33	19.6	1.6	<0.05	1.0	4.98	10.2	0.05	<1	1.9	32.3	<10	<2
617653	Soil	0.11	6.2	0.5	<0.05	1.3	12.72	30.1	0.02	<1	0.9	8.5	<10	<2
REP 617653	QC	0.12	5.8	0.5	<0.05	1.4	13.32	31.2	0.03	<1	1.2	8.1	<10	<2
617669	Soil	0.85	14.4	2.5	<0.05	1.2	3.45	22.7	0.06	<1	0.9	32.5	<10	<2
REP 617669	QC	0.84	13.0	1.6	<0.05	1.9	3.16	20.5	0.04	2	0.9	29.4	<10	<2
617340	Soil	0.53	26.2	2.6	<0.05	1.8	4.44	14.4	0.05	<1	1.6	47.0	<10	<2
REP 617340	QC	0.54	25.6	2.5	<0.05	2.2	4.52	14.0	0.04	<1	1.5	45.8	<10	<2
1267503	Soil	0.25	23.8	2.2	<0.05	1.4	7.64	14.7	0.04	<1	2.1	31.1	<10	<2
REP 1267503	QC	0.27	23.3	1.8	<0.05	1.5	7.67	14.6	0.05	<1	2.1	32.7	<10	<2
1267517	Soil	0.41	20.2	1.6	<0.05	0.2	2.95	19.3	0.03	<1	0.5	6.8	<10	<2
REP 1267517	QC	0.43	20.9	1.7	<0.05	0.1	2.99	18.9	0.03	<1	0.4	6.4	<10	<2
1266362	Soil	0.31	17.0	2.3	<0.05	2.4	4.83	14.9	0.06	<1	1.3	40.4	<10	<2
REP 1266362	QC	0.29	15.5	2.2	<0.05	2.2	4.57	14.5	0.03	<1	1.1	37.9	<10	<2
1267527	Soil	0.60	17.5	2.9	<0.05	0.8	4.63	21.4	0.05	<1	1.6	35.9	<10	<2
REP 1267527	QC	0.57	18.4	3.0	<0.05	1.1	4.62	22.3	0.05	<1	1.5	36.3	<10	<2

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: October 30, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001351.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
1267552	Soil	0.58	13.95	16.07	66.7	106	19.7	9.0	381	3.34	5.6	0.5	0.8	3.8	6.9	0.06	0.15	0.29	32	0.08	0.019
REP 1267552	QC	0.63	14.50	16.74	67.9	109	20.8	9.2	411	3.56	5.9	0.6	0.7	4.0	7.3	0.04	0.17	0.32	34	0.09	0.021
617549	Soil	0.44	29.00	24.44	73.6	84	27.7	13.3	741	3.65	5.6	1.2	1.3	3.7	64.9	0.11	0.18	0.37	28	1.13	0.043
REP 617549	QC	0.37	26.63	21.98	71.4	71	24.4	11.9	669	3.24	5.6	1.1	1.4	3.5	59.4	0.12	0.18	0.33	25	1.02	0.040
1267659	Soil	0.51	22.89	18.55	72.2	158	27.3	10.3	444	3.09	6.3	1.4	0.7	4.4	27.6	0.08	0.34	0.33	29	0.42	0.031
REP 1267659	QC	0.55	23.74	19.47	72.7	160	27.8	10.6	463	3.20	6.6	1.4	0.9	4.7	28.0	0.09	0.35	0.35	30	0.43	0.031
1097039	Soil	0.35	50.81	21.52	91.5	29	30.4	12.4	207	4.74	5.1	0.4	0.5	3.2	3.6	0.09	0.15	0.40	33	0.01	0.015
REP 1097039	QC	0.39	54.36	22.40	100.8	36	34.0	13.1	229	5.21	5.4	0.4	0.7	3.4	3.6	0.04	0.17	0.42	36	0.01	0.016
Reference Materials																					
STD DS8	Standard	12.60	104.4	127.6	320.8	1935	36.5	7.0	621	2.43	26.0	2.7	117.9	6.6	70.4	2.43	5.85	6.18	42	0.73	0.087
STD DS8	Standard	13.34	106.5	116.4	292.5	1652	39.6	7.8	597	2.39	22.2	2.5	103.3	6.2	64.4	2.07	4.80	5.54	40	0.71	0.077
STD DS8	Standard	13.07	101.0	119.7	301.5	1764	33.5	6.7	613	2.38	24.4	2.7	107.3	7.1	75.4	2.26	5.73	5.94	42	0.72	0.083
STD DS8	Standard	14.35	108.5	125.4	304.3	1704	37.8	7.4	632	2.48	24.2	3.2	105.8	7.9	76.0	2.26	5.97	6.45	44	0.78	0.080
STD DS8	Standard	12.97	97.27	119.5	291.9	1792	37.5	7.6	581	2.34	23.3	2.6	103.0	6.2	60.1	2.24	5.35	6.33	39	0.68	0.081
STD DS8	Standard	13.71	109.2	119.9	301.8	1685	38.4	7.8	606	2.51	22.3	2.8	108.5	6.8	61.0	2.20	4.97	5.90	43	0.72	0.075
STD DS8	Standard	13.68	108.2	126.7	320.6	1864	38.3	7.4	638	2.56	24.4	2.8	116.7	7.1	66.4	2.30	5.27	6.23	42	0.72	0.081
STD DS8	Standard	13.76	104.8	123.4	308.7	1719	38.2	7.5	626	2.52	25.0	2.9	105.4	7.0	68.5	2.21	4.53	5.93	43	0.72	0.080
STD DS8	Standard	13.54	104.5	121.9	311.9	1813	36.9	7.4	607	2.50	23.7	2.7	128.8	6.9	63.7	2.09	5.08	5.93	44	0.75	0.077
STD DS8	Standard	12.56	99.33	116.0	297.0	1666	34.5	7.0	560	2.26	23.4	2.5	102.9	5.7	64.5	2.15	5.14	5.58	39	0.69	0.078
STD DS8	Standard	13.73	108.1	120.7	304.0	1644	38.8	7.7	627	2.52	24.7	2.8	108.0	7.0	70.1	2.36	5.53	6.48	42	0.74	0.081
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001351.1

		1F15 La ppm	1F15 Cr ppm	1F15 Mg %	1F15 Ba ppm	1F15 Ti %	1F15 B ppm	1F15 Al %	1F15 Na %	1F15 K %	1F15 W ppm	1F15 Sc ppm	1F15 Ti ppm	1F15 S %	1F15 Hg ppb	1F15 Se ppm	1F15 Te ppm	1F15 Ga ppm	1F15 Cs ppm	1F15 Ge ppm	1F15 Hf ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1267552	Soil	8.5	29.3	0.38	125.7	0.003	1	1.74	0.002	0.10	<0.1	2.6	0.11	<0.02	18	0.1	<0.02	6.7	0.86	<0.1	0.03
REP 1267552	QC	9.3	30.7	0.42	132.3	0.003	1	1.85	0.002	0.10	<0.1	2.7	0.11	<0.02	20	<0.1	0.03	7.1	0.91	<0.1	0.03
617549	Soil	8.9	32.2	0.47	253.1	0.002	3	1.96	0.008	0.18	<0.1	4.8	0.11	0.05	43	0.3	0.03	6.6	1.07	<0.1	0.10
REP 617549	QC	8.4	28.9	0.43	232.0	0.003	4	1.74	0.007	0.17	<0.1	4.6	0.13	0.04	46	0.3	<0.02	6.0	1.39	<0.1	0.10
1267659	Soil	13.8	28.2	0.51	198.8	0.006	2	1.55	0.002	0.10	<0.1	4.1	0.09	<0.02	39	0.7	0.02	5.1	1.10	<0.1	0.06
REP 1267659	QC	14.7	28.5	0.53	207.2	0.006	2	1.63	0.002	0.11	<0.1	4.3	0.10	<0.02	36	0.7	0.04	5.2	1.15	<0.1	0.05
1097039	Soil	4.6	38.0	0.56	76.8	0.003	1	2.31	<0.001	0.06	<0.1	4.0	0.11	<0.02	28	0.3	0.03	7.6	1.09	<0.1	0.04
REP 1097039	QC	5.1	42.4	0.61	83.5	0.002	<1	2.48	<0.001	0.06	<0.1	4.3	0.11	<0.02	30	0.2	0.02	8.3	1.09	<0.1	0.05
Reference Materials																					
STD DS8	Standard	15.9	118.0	0.63	289.6	0.108	4	0.95	0.095	0.42	2.9	2.3	5.65	0.16	166	5.2	5.11	4.7	2.47	<0.1	0.08
STD DS8	Standard	14.4	115.4	0.60	250.0	0.108	2	0.96	0.099	0.42	2.5	2.1	5.09	0.16	184	4.7	4.61	4.4	2.19	<0.1	0.06
STD DS8	Standard	17.9	119.8	0.61	289.1	0.116	3	0.96	0.096	0.41	3.1	2.4	5.30	0.15	191	5.0	4.74	4.9	2.38	0.1	0.09
STD DS8	Standard	19.9	123.5	0.64	291.2	0.132	2	1.02	0.107	0.44	2.8	2.5	5.31	0.16	184	5.4	4.84	4.6	2.47	0.1	0.08
STD DS8	Standard	15.0	111.4	0.57	259.2	0.109	3	0.86	0.082	0.39	2.9	2.0	5.18	0.16	198	5.0	4.89	4.6	2.46	0.1	0.08
STD DS8	Standard	15.9	119.6	0.62	266.1	0.121	2	0.94	0.087	0.40	3.0	2.3	5.29	0.16	191	5.0	4.83	4.7	2.41	0.1	0.08
STD DS8	Standard	16.1	125.0	0.63	273.1	0.115	3	0.93	0.088	0.41	3.2	2.3	5.73	0.16	205	5.5	5.38	5.0	2.59	<0.1	0.10
STD DS8	Standard	17.2	116.1	0.58	274.1	0.119	4	0.96	0.091	0.43	2.8	2.4	5.31	0.17	173	5.3	4.91	4.9	2.40	<0.1	0.09
STD DS8	Standard	16.1	122.1	0.62	266.9	0.116	3	0.94	0.087	0.42	2.9	2.2	5.41	0.16	200	5.1	5.13	4.9	2.48	<0.1	0.08
STD DS8	Standard	14.6	113.8	0.57	257.8	0.100	2	0.92	0.088	0.39	2.6	1.9	5.15	0.15	188	4.8	4.43	4.6	2.26	<0.1	0.06
STD DS8	Standard	17.1	113.9	0.63	295.0	0.119	3	0.95	0.090	0.43	3.0	2.3	5.19	0.17	166	4.8	5.08	4.7	2.50	<0.1	0.08
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 2 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001351.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
1267552	Soil	0.54	13.9	1.6	<0.05	1.4	3.50	19.7	0.03	<1	0.6	26.8	<10	<2
REP 1267552	QC	0.56	14.6	1.5	<0.05	1.6	3.67	19.9	0.03	<1	0.7	27.2	<10	<2
617549	Soil	0.50	17.7	1.7	<0.05	3.0	12.07	18.4	0.05	<1	1.4	31.9	<10	<2
REP 617549	QC	0.45	18.5	1.4	<0.05	2.7	11.37	17.2	0.04	<1	1.4	27.8	<10	<2
1267659	Soil	0.59	13.9	1.0	<0.05	2.0	18.17	27.5	0.03	<1	1.2	38.4	<10	<2
REP 1267659	QC	0.63	14.3	0.9	<0.05	2.0	19.05	29.5	0.03	<1	1.3	38.7	<10	<2
1097039	Soil	0.28	12.7	1.0	<0.05	1.3	3.67	12.6	0.05	<1	1.3	42.3	<10	<2
REP 1097039	QC	0.29	13.4	1.1	<0.05	1.7	3.95	13.3	0.04	<1	1.3	45.3	<10	<2
Reference Materials														
STD DS8	Standard	1.42	37.4	6.9	<0.05	1.9	6.33	30.1	2.24	64	5.4	29.7	119	370
STD DS8	Standard	1.11	33.9	5.8	<0.05	1.5	5.60	25.1	1.96	48	5.0	25.3	118	316
STD DS8	Standard	1.47	37.4	6.8	<0.05	2.0	7.17	33.1	2.26	52	5.0	28.2	105	346
STD DS8	Standard	1.71	37.9	6.7	<0.05	2.2	7.45	33.9	2.12	57	5.1	26.4	121	327
STD DS8	Standard	1.41	35.1	6.4	<0.05	2.1	5.82	28.1	2.00	53	5.2	27.4	101	337
STD DS8	Standard	1.39	37.3	6.0	<0.05	2.0	6.53	29.3	2.07	55	5.1	25.7	110	317
STD DS8	Standard	1.39	41.2	6.4	<0.05	2.2	6.45	30.3	2.27	57	5.1	26.9	119	356
STD DS8	Standard	1.43	38.5	6.8	<0.05	1.8	6.66	31.1	2.18	54	6.3	27.5	129	324
STD DS8	Standard	1.38	38.9	6.6	<0.05	1.9	6.51	30.7	2.21	55	5.0	28.1	111	357
STD DS8	Standard	1.17	37.2	6.2	<0.05	1.4	5.56	27.2	2.07	49	4.8	27.3	102	327
STD DS8	Standard	1.45	38.0	6.9	<0.05	1.9	6.25	29.5	2.14	54	5.1	28.8	115	315
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: October 30, 2011

Page: 3 of 3 **Part** 1

QUALITY CONTROL REPORT

WHI11001351.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 30, 2011

Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001351.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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Page: 3 of 3 **Part** 3

QUALITY CONTROL REPORT

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		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10



Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 29, 2011
Report Date: October 24, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001352.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-24
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			WHI
1F05	319	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
RJSV	320	Saving all or part of Soil Reject			WHI

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: David Clark
database backup
Simon Ridgway
Scott Turton



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
617005	Soil			0.68	19.63	20.58	67.9	118	21.8	10.3	511	2.90	6.4	0.9	2.4	2.6	106.7	0.09	0.27	0.37	37	0.72	0.038
617006	Soil			0.61	17.58	20.41	60.2	31	25.1	9.5	240	3.37	5.4	0.4	1.9	3.2	7.4	0.05	0.22	0.33	30	0.05	0.014
617007	Soil			0.45	23.85	21.06	68.0	67	26.8	12.5	423	3.28	5.0	0.8	2.3	4.6	13.3	0.04	0.21	0.33	32	0.18	0.017
617008	Soil			0.51	15.70	15.12	63.2	40	21.1	10.5	331	3.22	4.5	0.3	0.8	2.8	5.3	0.04	0.20	0.32	29	0.03	0.018
617009	Soil			0.83	13.71	18.55	70.4	71	22.2	9.5	298	3.33	5.7	0.4	1.3	3.3	9.9	0.06	0.30	0.28	33	0.14	0.021
617010	Soil			0.68	14.31	16.69	54.5	14	19.1	8.1	318	3.01	5.4	0.4	1.3	3.4	8.5	0.05	0.20	0.28	35	0.09	0.018
617011	Soil			0.46	30.75	23.67	85.4	23	32.3	14.4	534	4.16	8.6	0.5	1.1	4.4	7.4	0.05	0.31	0.36	32	0.06	0.019
617012	Soil			0.51	11.29	17.64	59.7	23	20.3	8.0	217	3.02	8.9	0.4	0.8	3.7	7.5	0.07	0.32	0.25	40	0.14	0.013
617013	Soil			0.63	7.76	31.49	49.0	37	15.5	9.4	2247	3.48	17.9	0.5	0.7	2.8	22.9	0.16	0.84	0.22	28	5.02	0.030
617014	Soil			0.86	15.23	35.35	187.2	101	25.7	11.6	1308	3.72	33.8	0.6	1.3	3.0	18.6	0.32	2.00	0.25	33	4.01	0.053
617015	Soil			0.63	17.93	30.92	104.9	52	21.3	12.8	770	3.34	34.0	0.8	1.1	1.8	16.2	0.17	1.22	0.28	40	1.37	0.047
617016	Soil			0.68	16.22	18.05	88.1	45	24.5	9.9	340	2.74	9.6	0.6	1.7	3.1	30.0	0.11	0.49	0.22	29	0.55	0.017
617017	Soil			0.59	31.84	25.94	81.6	46	31.8	12.0	455	3.59	6.2	0.8	2.0	3.8	23.7	0.12	0.29	0.29	31	0.40	0.021
617018	Soil			0.48	30.46	32.83	111.9	47	33.8	17.6	724	4.31	7.0	0.6	1.6	4.5	22.2	0.14	0.21	0.38	32	0.33	0.035
617019	Soil			0.48	21.37	16.98	98.9	120	28.0	10.7	447	3.39	6.8	0.9	2.2	2.5	40.8	0.15	0.31	0.28	33	0.81	0.053
1267701	Soil			0.57	20.87	23.74	118.0	61	22.8	12.5	479	4.05	3.9	0.4	0.8	3.2	7.6	0.16	0.20	0.35	37	0.06	0.044
1267702	Soil			0.92	43.18	33.98	87.4	45	42.9	20.8	527	4.47	5.2	0.5	1.3	3.7	5.0	0.05	0.29	0.45	29	0.03	0.039
1267704	Soil			0.92	20.75	23.60	81.5	136	28.3	11.4	379	4.85	6.0	0.5	0.7	2.8	4.9	0.08	0.32	0.34	44	0.03	0.055
1267705	Soil			1.08	21.08	24.22	66.8	196	25.4	11.8	934	4.04	5.4	0.4	0.9	3.2	6.1	0.07	0.28	0.33	42	0.04	0.035
1267706	Soil			0.69	22.88	17.78	93.5	98	27.0	14.3	665	4.30	4.0	0.4	0.8	2.9	9.9	0.10	0.24	0.31	42	0.09	0.044
1267707	Soil			0.58	21.57	28.53	128.0	106	27.8	18.8	1421	4.07	4.6	0.4	0.4	3.5	11.1	0.09	0.16	0.34	38	0.10	0.043
1267708	Soil			0.69	18.30	21.08	79.0	206	23.0	16.2	1314	3.84	4.3	0.3	0.2	2.4	16.5	0.15	0.18	0.32	35	0.21	0.050
617681	Soil			0.95	21.98	42.28	93.0	79	27.8	15.9	891	4.30	7.3	0.5	0.7	4.1	12.7	0.16	0.28	0.38	30	0.24	0.039
617682	Soil			1.22	33.07	66.42	191.0	202	46.3	23.2	3945	6.34	13.5	1.0	0.8	4.9	47.5	0.42	0.68	0.36	44	1.85	0.039
617683	Soil			0.83	9.84	22.34	33.2	39	11.0	5.5	215	2.21	3.5	0.5	0.9	4.0	6.7	0.08	0.17	0.27	41	0.07	0.018
617684	Soil			0.73	16.48	20.31	102.0	83	17.5	10.2	513	3.40	6.3	0.4	0.3	3.4	8.2	0.10	0.22	0.30	33	0.11	0.041
617685	Soil			0.81	20.67	19.86	102.8	133	26.8	11.6	267	3.62	6.5	0.4	0.9	4.1	7.1	0.17	0.22	0.44	41	0.05	0.029
617686	Soil			0.78	27.88	23.84	91.3	87	28.5	13.9	380	4.16	6.1	0.5	0.8	3.4	6.9	0.07	0.22	0.43	41	0.05	0.034
617687	Soil			0.78	17.13	21.17	94.9	133	23.3	13.2	429	3.42	4.2	0.3	0.3	2.8	9.2	0.16	0.21	0.32	38	0.13	0.030
617688	Soil			0.80	21.92	11.57	64.4	289	22.1	9.8	215	3.21	5.6	0.4	0.8	3.4	8.9	0.07	0.34	0.33	31	0.08	0.024



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
617005	Soil	10.3	32.5	0.57	307.7	0.007	3	1.60	0.005	0.08	0.1	3.0	0.10	<0.02	39	0.2	<0.02	5.4	1.15	<0.1	0.06
617006	Soil	6.0	34.8	0.35	84.3	0.003	2	1.50	0.004	0.08	<0.1	2.3	0.09	<0.02	10	<0.1	<0.02	6.1	0.87	<0.1	<0.02
617007	Soil	12.8	32.6	0.53	266.7	0.007	2	1.68	0.003	0.08	<0.1	3.8	0.10	<0.02	29	<0.1	0.03	5.8	1.50	<0.1	0.02
617008	Soil	5.6	30.0	0.36	88.9	0.004	2	1.50	0.003	0.14	<0.1	2.3	0.12	<0.02	11	0.1	0.03	6.3	0.92	<0.1	0.02
617009	Soil	8.1	29.7	0.41	164.9	0.007	2	1.50	0.003	0.14	<0.1	2.3	0.11	<0.02	20	0.2	0.04	5.6	1.10	<0.1	0.04
617010	Soil	9.2	29.4	0.37	74.6	0.012	2	1.19	0.003	0.10	<0.1	2.3	0.08	<0.02	14	<0.1	0.03	5.5	0.77	<0.1	<0.02
617011	Soil	8.5	32.0	0.46	1072	0.005	2	1.63	0.003	0.08	<0.1	4.2	0.08	<0.02	58	0.1	0.03	6.1	1.01	<0.1	<0.02
617012	Soil	9.9	27.0	0.43	463.6	0.007	1	1.61	0.003	0.06	<0.1	2.6	0.11	<0.02	24	<0.1	0.04	5.4	0.76	<0.1	0.03
617013	Soil	10.2	24.8	3.37	404.0	0.003	6	1.80	0.008	0.12	<0.1	3.4	0.12	0.06	46	0.2	0.02	4.5	0.60	<0.1	0.03
617014	Soil	10.8	29.2	2.78	486.4	0.005	3	1.51	0.006	0.10	<0.1	5.5	0.11	0.06	263	0.3	0.03	4.0	0.46	<0.1	0.05
617015	Soil	9.8	28.9	0.67	1539	0.007	2	1.51	0.005	0.06	<0.1	5.6	0.10	0.05	220	0.3	0.03	4.5	0.44	<0.1	0.02
617016	Soil	8.0	28.0	0.44	208.1	0.017	4	1.21	0.005	0.11	<0.1	3.1	0.11	0.03	70	0.1	0.03	3.8	0.95	<0.1	0.03
617017	Soil	9.6	32.8	0.59	203.0	0.011	3	1.64	0.006	0.11	<0.1	5.0	0.10	0.02	55	0.2	<0.02	5.5	1.21	<0.1	0.03
617018	Soil	7.5	36.8	0.72	121.1	0.008	3	1.79	0.007	0.12	<0.1	4.7	0.11	0.02	27	0.1	0.03	6.6	1.52	<0.1	0.03
617019	Soil	8.5	33.7	0.66	123.0	0.011	3	1.61	0.011	0.09	<0.1	3.9	0.10	0.06	59	0.3	<0.02	5.2	1.36	<0.1	0.03
1267701	Soil	5.1	35.7	0.38	83.2	0.002	1	2.25	0.003	0.13	<0.1	3.0	0.12	0.02	24	0.2	0.04	7.9	1.71	<0.1	0.03
1267702	Soil	4.1	50.5	0.61	118.1	0.003	1	2.63	0.002	0.15	<0.1	4.0	0.15	<0.02	29	0.1	<0.02	8.2	4.23	<0.1	0.05
1267704	Soil	5.3	41.5	0.44	171.1	0.004	1	2.25	0.003	0.14	<0.1	3.2	0.12	0.03	40	0.3	0.02	8.1	2.32	<0.1	0.04
1267705	Soil	5.4	38.9	0.39	138.5	0.003	1	2.15	0.003	0.12	<0.1	3.1	0.12	<0.02	23	0.2	0.03	8.2	1.37	<0.1	0.03
1267706	Soil	4.9	35.6	0.42	382.6	0.002	<1	2.32	0.003	0.16	<0.1	3.4	0.14	0.02	27	0.2	0.03	8.6	1.87	<0.1	0.02
1267707	Soil	6.9	37.1	0.39	283.9	0.002	<1	2.36	0.004	0.14	<0.1	3.6	0.13	<0.02	20	0.2	0.03	8.3	1.05	<0.1	0.04
1267708	Soil	5.7	33.3	0.36	242.5	0.002	1	1.97	0.003	0.15	<0.1	2.7	0.11	0.02	27	0.2	0.04	7.3	0.93	<0.1	<0.02
617681	Soil	7.2	28.0	0.25	136.4	0.002	2	1.56	0.002	0.15	<0.1	3.3	0.10	0.02	23	0.2	0.03	5.0	0.68	<0.1	<0.02
617682	Soil	19.9	33.3	0.25	210.9	0.002	2	1.55	0.003	0.13	<0.1	6.4	0.16	0.04	91	0.3	0.04	4.3	0.37	<0.1	0.09
617683	Soil	12.5	22.4	0.20	192.3	0.004	1	1.68	0.001	0.07	<0.1	2.1	0.13	<0.02	15	0.1	<0.02	6.1	0.84	<0.1	<0.02
617684	Soil	8.5	26.7	0.27	162.1	0.002	1	1.70	<0.001	0.20	<0.1	2.7	0.11	<0.02	18	0.2	<0.02	6.1	0.59	<0.1	<0.02
617685	Soil	8.2	39.5	0.41	136.6	0.003	1	2.10	0.002	0.18	<0.1	3.0	0.10	<0.02	13	0.2	0.03	7.5	1.06	<0.1	0.03
617686	Soil	7.0	39.9	0.43	111.4	0.002	<1	2.18	0.003	0.13	<0.1	3.8	0.12	<0.02	20	0.2	<0.02	8.1	1.22	<0.1	0.03
617687	Soil	7.3	35.8	0.38	223.7	0.002	<1	1.97	0.003	0.16	<0.1	2.8	0.12	<0.02	17	0.2	0.04	7.4	0.79	<0.1	<0.02
617688	Soil	8.1	27.7	0.39	128.0	0.003	<1	1.56	0.002	0.16	<0.1	2.4	0.12	<0.02	15	0.3	0.03	5.9	1.14	<0.1	0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 2 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
617005	Soil	0.84	13.4	4.2	<0.05	1.3	6.67	22.3	0.03	<1	0.9	26.4	<10	<2
617006	Soil	0.40	12.7	4.0	<0.05	1.2	3.07	12.9	0.03	<1	0.7	24.5	<10	<2
617007	Soil	0.60	13.1	2.0	<0.05	1.2	13.18	25.4	0.03	<1	1.1	32.2	<10	<2
617008	Soil	0.45	19.9	2.9	<0.05	0.9	2.47	12.1	0.02	<1	0.7	21.1	<10	<2
617009	Soil	0.83	15.8	4.2	<0.05	1.3	2.75	17.3	<0.02	<1	0.7	30.4	<10	<2
617010	Soil	0.79	11.7	2.9	<0.05	0.7	3.11	19.3	0.04	<1	0.3	17.7	<10	<2
617011	Soil	0.35	9.8	2.0	<0.05	0.7	7.93	20.8	0.04	<1	1.0	29.7	<10	<2
617012	Soil	0.62	12.9	1.7	<0.05	1.3	2.55	20.9	0.03	<1	0.5	20.8	<10	<2
617013	Soil	0.45	11.2	6.4	<0.05	1.2	6.24	22.6	0.04	<1	0.8	13.5	<10	<2
617014	Soil	0.46	9.3	5.7	<0.05	1.2	10.16	20.0	0.04	<1	0.8	13.9	<10	<2
617015	Soil	0.84	5.2	3.6	<0.05	0.6	8.48	20.1	0.04	<1	0.8	14.9	<10	<2
617016	Soil	0.95	13.0	6.2	<0.05	1.2	4.17	16.9	0.02	<1	0.6	43.8	<10	<2
617017	Soil	0.70	12.0	5.8	<0.05	1.1	9.51	18.9	0.03	<1	1.0	47.7	<10	<2
617018	Soil	0.56	14.2	3.4	<0.05	0.9	7.33	18.8	0.03	<1	0.9	40.5	<10	<2
617019	Soil	0.76	11.2	2.9	<0.05	1.0	6.44	19.3	0.03	<1	0.8	40.1	<10	<2
1267701	Soil	0.69	18.3	3.6	<0.05	1.3	2.58	12.1	0.05	<1	1.3	42.8	<10	<2
1267702	Soil	0.50	20.8	11.8	<0.05	1.9	4.12	10.2	0.04	<1	2.0	46.3	<10	<2
1267704	Soil	0.89	21.9	5.7	<0.05	1.2	2.74	11.7	0.03	<1	0.9	42.2	<10	<2
1267705	Soil	0.69	18.9	8.9	<0.05	1.2	2.91	12.1	0.03	<1	0.8	38.5	<10	<2
1267706	Soil	0.62	23.2	1.9	<0.05	1.0	2.64	10.6	0.03	<1	1.1	40.0	<10	<2
1267707	Soil	0.43	18.8	4.5	<0.05	1.4	3.50	17.1	0.05	<1	1.3	37.2	<10	<2
1267708	Soil	0.54	21.1	1.6	<0.05	1.0	2.01	13.0	0.03	<1	1.0	37.7	<10	<2
617681	Soil	0.31	13.7	13.1	<0.05	0.8	3.40	18.0	0.04	<1	1.0	27.3	<10	<2
617682	Soil	0.28	11.3	3.1	<0.05	2.7	20.72	40.7	0.04	<1	1.5	10.2	<10	<2
617683	Soil	0.69	10.6	3.4	<0.05	1.0	2.71	27.5	0.02	<1	0.6	13.3	<10	<2
617684	Soil	0.37	14.4	2.3	<0.05	0.6	2.68	18.5	0.03	<1	0.7	26.8	<10	<2
617685	Soil	0.45	18.0	6.6	<0.05	1.7	2.81	17.5	<0.02	<1	0.9	38.5	<10	<2
617686	Soil	0.34	14.6	2.2	<0.05	1.0	4.72	15.7	0.05	<1	1.1	38.4	<10	<2
617687	Soil	0.32	19.8	4.9	<0.05	0.8	2.74	16.5	0.03	<1	0.9	40.7	<10	<2
617688	Soil	0.45	16.5	0.9	<0.05	1.1	3.36	16.6	<0.02	<1	0.8	27.7	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
617689	Soil			0.59	32.75	40.86	85.0	78	30.8	19.2	753	4.06	7.2	0.6	0.9	4.2	14.3	0.04	0.22	0.45	33	0.19	0.036
617690	Soil			0.40	9.72	11.79	53.4	42	17.0	10.3	362	3.44	5.6	0.5	0.6	3.0	5.8	0.04	0.20	0.43	26	0.04	0.022
617691	Soil			0.65	9.03	12.70	50.6	76	10.5	6.8	339	2.35	3.9	0.3	0.8	2.6	5.0	0.08	0.18	0.23	31	0.04	0.016
617692	Soil			0.86	17.41	25.73	97.7	69	25.5	13.4	1106	3.68	7.6	0.6	0.5	5.2	21.0	0.13	0.14	0.37	26	0.27	0.028
617693	Soil			0.47	20.42	16.26	65.3	19	24.7	11.6	245	3.87	4.3	0.5	0.3	3.2	7.6	0.03	0.21	0.31	33	0.07	0.015
617694	Soil			0.55	47.58	31.16	94.5	286	34.4	13.4	921	3.97	5.8	0.9	3.6	5.3	130.4	0.12	0.15	0.44	27	1.12	0.063
617695	Soil			0.51	39.56	30.91	117.6	106	30.9	15.4	725	4.05	7.0	1.0	4.8	4.0	53.4	0.14	0.23	0.53	25	0.49	0.053
617696	Soil			0.45	43.00	26.57	88.9	96	30.3	15.9	748	3.57	7.0	0.9	1.6	3.2	72.3	0.18	0.47	0.48	26	0.72	0.040
617697	Soil			0.55	29.97	22.01	83.0	79	22.5	11.5	474	3.26	6.7	0.9	2.5	2.3	58.1	0.13	0.23	0.37	27	0.61	0.044
617698	Soil			0.57	24.50	19.80	93.8	43	22.8	11.1	235	4.09	5.7	0.3	1.1	2.2	4.7	0.07	0.19	0.36	31	0.05	0.016
617699	Soil			0.55	14.56	20.19	79.1	28	18.1	9.2	197	3.11	4.8	0.3	1.1	2.4	5.9	0.10	0.21	0.31	29	0.08	0.016
617700	Soil			0.58	19.61	17.81	83.7	30	22.3	9.0	251	3.24	4.5	0.5	0.7	2.8	9.1	0.06	0.21	0.31	30	0.11	0.018
1267609	Soil			0.90	26.47	29.60	88.9	79	23.1	18.4	492	3.81	8.4	0.5	0.6	3.9	5.7	0.11	0.31	0.47	34	0.04	0.031
1267610	Soil			0.76	30.09	23.72	96.3	141	26.0	13.3	278	4.22	9.2	0.5	0.4	3.6	5.6	0.06	0.35	0.48	37	0.03	0.026
1267611	Soil			0.63	24.30	25.58	95.6	58	22.0	12.8	367	3.36	5.8	0.4	<0.2	3.0	9.8	0.08	0.19	0.42	31	0.10	0.027
1267612	Soil			0.51	18.54	19.16	76.1	151	19.4	12.6	300	3.41	4.6	0.3	0.9	2.5	15.8	0.09	0.19	0.42	34	0.15	0.025
1267613	Soil			0.81	20.54	29.71	73.5	63	21.1	11.4	263	3.53	6.3	0.4	0.4	2.6	10.2	0.14	0.24	0.40	32	0.11	0.029
1267614	Soil			0.51	22.75	16.71	60.7	186	16.8	7.7	537	2.40	4.5	1.7	1.3	1.1	55.9	0.21	0.26	0.29	25	1.37	0.053
1267615	Soil			0.64	28.27	29.37	79.3	62	25.2	14.8	664	3.22	7.7	1.0	1.3	3.5	25.2	0.15	0.30	0.39	21	0.52	0.032
1267616	Soil			0.64	18.17	16.36	67.7	61	20.6	9.8	303	2.68	6.6	0.6	0.7	3.1	18.7	0.22	0.36	0.31	27	0.33	0.030
1267617	Soil			0.48	11.81	16.16	65.5	59	16.7	9.7	451	2.61	5.6	0.3	0.4	2.2	7.0	0.08	0.33	0.29	22	0.11	0.020
1267618	Soil			0.68	26.46	20.71	67.8	114	23.0	9.9	516	2.51	7.1	1.8	1.7	2.1	41.9	0.19	0.37	0.29	24	1.01	0.040
1267619	Soil			0.51	20.55	18.60	63.1	91	22.1	12.4	455	2.80	7.0	1.6	1.4	2.0	39.0	0.14	0.25	0.31	27	0.67	0.041
1267620	Soil			0.59	21.93	19.43	86.2	25	21.0	11.3	355	2.96	6.3	0.5	8.0	3.7	18.1	0.16	0.29	0.32	28	0.20	0.015
1267621	Soil			0.66	9.29	16.77	36.9	72	9.8	4.8	158	2.13	5.4	0.4	1.0	3.1	5.5	0.07	0.30	0.30	34	0.04	0.012
1267622	Soil			0.37	29.16	20.37	85.3	29	28.3	13.8	288	4.49	3.7	0.3	<0.2	2.8	4.6	0.06	0.12	0.42	32	0.03	0.019
1267623	Soil			0.49	25.74	23.92	64.2	105	19.2	9.1	354	3.04	4.4	0.6	0.4	2.5	21.4	0.14	0.13	0.43	27	0.26	0.047
1267624	Soil			0.92	23.75	28.10	105.8	55	32.3	13.6	443	4.11	5.6	0.5	1.8	2.9	25.5	0.14	0.15	0.38	31	0.32	0.033
1267625	Soil			0.55	43.84	31.06	92.1	100	30.7	15.7	606	3.82	6.8	0.8	1.4	3.3	35.1	0.14	0.19	0.43	27	0.38	0.036
1267626	Soil			0.27	23.60	21.23	95.9	60	30.6	12.5	700	3.79	5.0	0.5	1.1	3.5	19.5	0.09	0.13	0.41	26	0.20	0.025



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 24, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
617689	Soil	6.7	37.6	0.46	199.9	0.001	<1	2.13	0.001	0.17	<0.1	4.0	0.15	<0.02	10	0.2	0.02	7.6	2.32	<0.1	0.04
617690	Soil	5.0	22.9	0.29	155.2	0.003	1	1.28	0.001	0.14	<0.1	2.2	0.11	<0.02	11	0.2	0.04	6.4	1.43	<0.1	0.03
617691	Soil	7.2	18.1	0.19	110.3	0.003	<1	1.16	0.001	0.09	<0.1	1.5	0.09	<0.02	12	0.2	0.03	5.5	0.54	<0.1	0.02
617692	Soil	6.0	36.7	0.46	98.6	0.003	2	1.67	0.002	0.15	<0.1	3.5	0.13	<0.02	15	0.1	<0.02	6.3	1.86	<0.1	0.03
617693	Soil	5.6	33.6	0.44	125.4	0.004	<1	1.71	0.002	0.10	<0.1	2.9	0.11	<0.02	18	<0.1	0.02	7.2	1.53	<0.1	0.03
617694	Soil	13.9	38.4	0.58	322.7	0.001	3	2.35	0.008	0.16	<0.1	8.8	0.13	0.07	98	0.3	<0.02	6.6	3.87	<0.1	0.10
617695	Soil	7.7	33.8	0.47	220.3	0.003	3	1.74	0.004	0.10	<0.1	4.6	0.10	<0.02	67	0.3	0.02	5.6	1.09	<0.1	0.05
617696	Soil	8.3	30.0	0.47	171.7	0.004	3	1.64	0.006	0.09	<0.1	4.5	0.10	0.03	37	0.3	0.02	5.2	0.91	<0.1	0.05
617697	Soil	6.9	28.9	0.47	149.2	0.004	2	1.41	0.005	0.07	<0.1	3.3	0.07	0.03	40	0.3	<0.02	5.0	0.65	<0.1	0.04
617698	Soil	3.8	31.7	0.43	103.0	0.003	1	1.73	<0.001	0.06	<0.1	2.7	0.07	<0.02	20	0.2	0.02	6.5	0.58	<0.1	0.02
617699	Soil	5.4	26.5	0.40	126.0	0.004	1	1.46	0.002	0.07	<0.1	2.3	0.08	<0.02	10	<0.1	<0.02	5.6	0.75	<0.1	<0.02
617700	Soil	9.7	31.3	0.48	101.5	0.004	1	1.61	0.002	0.06	<0.1	3.1	0.08	<0.02	23	0.1	<0.02	5.7	0.78	<0.1	<0.02
1267609	Soil	6.9	35.7	0.34	86.7	0.003	<1	1.88	0.002	0.10	<0.1	3.4	0.13	<0.02	24	0.2	0.03	6.4	1.11	<0.1	0.04
1267610	Soil	6.8	35.8	0.43	67.6	0.004	<1	1.73	0.002	0.08	<0.1	3.3	0.09	<0.02	18	0.2	0.02	6.6	1.31	<0.1	0.04
1267611	Soil	6.5	32.3	0.37	110.0	0.002	<1	1.74	0.003	0.14	<0.1	2.8	0.11	<0.02	12	0.2	<0.02	6.6	0.83	<0.1	0.03
1267612	Soil	4.6	31.6	0.32	201.9	0.001	<1	1.93	0.002	0.08	<0.1	2.4	0.13	<0.02	21	0.2	0.04	6.8	0.79	<0.1	<0.02
1267613	Soil	5.7	33.0	0.35	93.8	0.003	1	1.57	0.002	0.12	<0.1	2.4	0.08	<0.02	20	0.2	<0.02	6.0	0.63	<0.1	0.03
1267614	Soil	5.8	23.3	0.35	197.1	0.004	1	1.31	0.003	0.08	<0.1	1.8	0.08	0.05	50	0.4	<0.02	4.4	0.36	<0.1	0.03
1267615	Soil	7.5	30.1	0.58	104.7	0.004	2	1.37	0.002	0.07	<0.1	3.0	0.07	0.02	44	0.2	<0.02	4.6	0.70	<0.1	0.05
1267616	Soil	8.0	26.6	0.44	121.6	0.007	1	1.30	0.002	0.07	<0.1	2.5	0.08	<0.02	25	0.2	<0.02	4.2	0.70	<0.1	0.04
1267617	Soil	4.6	24.1	0.33	77.3	0.005	<1	1.04	0.001	0.07	<0.1	1.6	0.07	<0.02	17	0.1	0.02	4.5	0.58	<0.1	<0.02
1267618	Soil	10.2	25.9	0.42	163.7	0.008	2	1.24	0.002	0.07	0.1	2.9	0.07	0.04	53	0.4	<0.02	3.9	0.68	<0.1	0.05
1267619	Soil	8.1	28.0	0.50	155.3	0.009	1	1.35	0.003	0.05	<0.1	2.4	0.08	0.04	45	0.3	<0.02	4.7	0.69	<0.1	0.03
1267620	Soil	6.8	27.6	0.44	103.3	0.007	1	1.28	0.002	0.07	<0.1	2.4	0.07	<0.02	26	0.1	<0.02	4.4	0.91	<0.1	0.03
1267621	Soil	9.5	15.0	0.18	82.7	0.005	<1	0.89	0.002	0.04	0.1	1.3	0.08	<0.02	18	<0.1	<0.02	4.1	0.64	<0.1	0.02
1267622	Soil	3.5	42.4	0.61	64.7	0.003	<1	1.95	0.003	0.06	<0.1	3.5	0.05	<0.02	27	<0.1	<0.02	7.5	1.68	<0.1	0.03
1267623	Soil	7.2	28.6	0.32	173.3	0.002	<1	1.39	0.005	0.08	<0.1	2.8	0.04	0.02	39	0.1	0.03	5.5	0.80	<0.1	<0.02
1267624	Soil	5.7	46.3	0.72	122.1	0.005	1	1.92	0.004	0.09	<0.1	4.1	0.09	<0.02	27	0.1	0.02	6.9	1.51	<0.1	<0.02
1267625	Soil	6.8	37.3	0.63	135.1	0.004	2	1.74	0.007	0.08	<0.1	4.6	0.09	0.02	41	0.2	<0.02	6.1	1.35	<0.1	0.04
1267626	Soil	6.2	34.3	0.63	96.5	0.006	2	1.65	0.004	0.07	<0.1	4.2	0.07	<0.02	33	0.1	0.03	5.8	0.72	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 3 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
617689	Soil	0.29	19.5	5.7	<0.05	1.9	6.08	19.1	0.04	<1	1.6	44.3	<10	<2
617690	Soil	0.34	18.3	1.0	<0.05	1.2	3.13	11.0	0.02	<1	0.4	9.9	<10	<2
617691	Soil	0.44	14.8	1.7	<0.05	1.1	2.01	14.8	0.02	<1	0.5	10.6	<10	<2
617692	Soil	0.39	27.5	3.4	<0.05	1.3	5.28	16.2	0.04	<1	0.9	47.8	<10	<2
617693	Soil	0.60	15.7	2.4	<0.05	1.6	2.94	12.5	0.03	<1	0.8	24.2	<10	<2
617694	Soil	0.55	29.0	2.2	<0.05	2.7	36.95	32.8	0.04	<1	2.5	50.8	<10	<2
617695	Soil	0.43	11.4	4.3	<0.05	1.6	13.22	18.6	0.06	2	1.3	33.5	<10	<2
617696	Soil	0.53	15.9	1.0	<0.05	1.2	17.14	20.2	0.05	<1	1.4	43.5	<10	<2
617697	Soil	0.47	11.6	1.6	<0.05	0.9	9.20	14.1	0.04	1	1.1	25.2	<10	<2
617698	Soil	0.40	9.4	1.1	<0.05	0.7	2.15	8.4	0.03	<1	0.5	34.5	<10	<2
617699	Soil	0.43	12.1	2.0	<0.05	0.7	2.52	11.7	0.03	<1	0.8	33.6	<10	<2
617700	Soil	0.38	10.6	1.7	<0.05	0.5	8.05	18.1	0.03	<1	0.7	33.5	<10	<2
1267609	Soil	0.29	18.2	4.0	<0.05	1.5	3.55	16.1	0.04	<1	1.2	32.9	<10	<2
1267610	Soil	0.34	12.6	1.7	<0.05	1.5	3.30	14.6	0.04	<1	0.8	31.8	<10	<2
1267611	Soil	0.24	18.6	2.3	<0.05	0.9	3.03	14.3	0.04	<1	1.1	30.2	<10	<2
1267612	Soil	0.20	13.7	1.6	<0.05	0.8	2.11	10.0	0.04	<1	0.8	28.3	<10	<2
1267613	Soil	0.37	13.4	8.1	<0.05	0.9	2.64	12.0	0.04	<1	0.8	33.0	<10	<2
1267614	Soil	0.49	7.3	1.0	<0.05	0.9	3.94	11.5	0.04	<1	0.8	16.3	<10	<2
1267615	Soil	0.37	7.4	3.7	<0.05	1.8	4.66	20.6	0.03	<1	1.1	31.8	<10	<2
1267616	Soil	0.60	9.2	1.2	<0.05	0.9	3.78	16.7	0.02	<1	0.6	23.0	<10	<2
1267617	Soil	0.36	15.9	2.4	<0.05	0.5	1.95	10.1	0.02	<1	0.4	18.3	<10	<2
1267618	Soil	0.67	9.4	2.4	<0.05	1.5	10.41	21.1	0.03	<1	0.8	21.9	<10	<2
1267619	Soil	0.57	8.7	1.7	<0.05	1.0	4.57	18.2	0.03	<1	0.5	27.4	<10	<2
1267620	Soil	0.54	11.9	1.7	<0.05	1.2	2.55	14.1	0.03	<1	0.5	29.3	<10	<2
1267621	Soil	0.48	9.7	1.4	<0.05	0.8	2.33	17.4	0.02	<1	0.4	11.1	<10	<2
1267622	Soil	0.24	8.9	1.3	<0.05	0.7	2.92	8.8	0.04	<1	0.8	38.1	<10	<2
1267623	Soil	0.40	10.3	2.8	<0.05	0.3	8.71	15.1	0.03	<1	1.0	19.2	<10	<2
1267624	Soil	0.49	11.1	5.0	<0.05	0.8	6.58	14.2	0.05	<1	1.0	37.4	<10	<2
1267625	Soil	0.40	12.2	2.7	<0.05	1.1	10.32	15.3	0.04	<1	1.2	34.5	<10	<2
1267626	Soil	0.27	8.2	1.4	<0.05	1.2	7.94	12.1	0.04	<1	0.9	32.3	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1267627	Soil			0.48	43.56	17.01	68.9	164	18.1	5.6	232	1.93	3.1	0.9	1.8	1.0	103.5	0.14	0.15	0.27	15	1.45	0.102
1267628	Soil			0.43	24.52	21.33	98.8	6	29.8	14.4	234	4.37	4.9	0.3	0.5	2.3	10.6	0.08	0.16	0.37	33	0.07	0.010
1267801	Soil			2.11	47.24	45.17	254.3	51	35.7	17.1	602	4.40	38.0	0.9	0.8	6.1	9.6	0.06	1.56	0.50	22	0.25	0.015
1267802	Soil			0.67	24.97	19.53	79.3	106	20.4	9.8	208	4.37	5.5	0.5	0.4	3.9	4.9	0.10	0.25	0.46	37	0.04	0.041
1267803	Soil			0.67	31.02	27.51	80.9	43	32.1	14.3	277	4.37	8.6	0.6	0.8	4.8	4.6	0.05	0.33	0.45	34	0.03	0.022
1267804	Soil			0.47	17.19	35.56	67.1	56	16.1	19.4	1061	3.16	3.7	0.4	<0.2	4.1	9.8	0.15	0.21	0.41	29	0.10	0.043
1267805	Soil			0.69	30.46	26.30	102.3	51	27.5	17.6	512	3.79	6.3	0.5	0.2	4.1	5.9	0.07	0.31	0.49	32	0.04	0.025
1267806	Soil			0.98	32.28	27.03	83.7	90	30.6	13.5	311	4.13	8.4	0.7	0.8	4.2	10.9	0.07	0.49	0.48	38	0.08	0.031
1267807	Soil			0.64	39.69	31.35	89.3	84	30.2	16.6	328	4.09	9.0	0.6	<0.2	4.2	7.9	0.05	0.27	0.51	30	0.03	0.022
1267808	Soil			0.48	31.11	34.31	80.8	110	26.4	13.7	445	3.12	6.6	1.1	1.8	3.1	53.0	0.18	0.39	0.41	22	1.16	0.041
1267809	Soil			0.57	27.27	27.99	83.8	85	26.0	12.8	392	3.04	7.7	1.2	1.0	3.0	40.5	0.16	0.43	0.37	22	0.90	0.036
1267810	Soil			0.47	27.99	24.97	83.5	59	25.7	13.4	492	3.25	7.1	0.7	0.7	3.6	30.1	0.16	0.31	0.37	23	0.64	0.033
1267811	Soil			0.43	17.22	18.87	66.4	21	24.5	10.8	379	3.13	5.8	0.6	1.4	4.7	22.4	0.10	1.69	0.34	25	0.29	0.013
1267812	Soil			0.63	21.83	28.58	82.2	64	30.1	13.6	786	3.83	8.7	1.3	1.3	5.9	14.4	0.13	0.41	0.38	32	0.26	0.026
1267813	Soil			0.79	23.36	20.47	68.8	134	27.8	11.2	543	3.00	7.6	1.7	1.5	3.3	38.3	0.18	0.46	0.32	33	0.92	0.042
1267814	Soil			0.51	22.98	22.54	67.4	77	23.8	9.8	351	3.31	7.4	0.8	0.8	4.1	45.5	0.08	0.31	0.33	27	0.56	0.030
1267815	Soil			0.50	23.68	24.84	104.1	67	25.3	11.7	460	3.39	6.6	0.8	<0.2	3.1	47.5	0.19	0.27	0.40	29	0.55	0.037
1267816	Soil			0.63	22.17	32.00	124.8	99	37.7	14.7	492	5.13	9.8	0.6	<0.2	4.1	16.9	0.15	0.35	0.36	32	0.19	0.024
1267817	Soil			0.44	10.02	14.03	62.2	27	16.1	7.2	179	2.66	4.3	0.3	0.5	3.3	13.8	0.05	0.17	0.30	30	0.15	0.013
1267818	Soil			0.27	23.00	20.14	181.7	117	29.2	11.7	608	2.72	4.1	2.2	0.5	3.5	149.0	0.45	0.23	0.31	21	1.22	0.038
1267819	Soil			0.48	15.06	18.46	96.0	23	27.7	11.0	292	3.41	7.5	1.6	0.8	4.6	45.2	0.10	0.35	0.29	29	0.34	0.025
1267820	Soil			0.42	18.80	20.37	102.6	39	24.6	10.2	361	3.08	5.3	2.1	0.4	2.8	81.2	0.15	0.23	0.30	25	1.06	0.039
1267821	Soil			0.56	16.09	22.51	72.6	13	32.7	14.7	356	3.96	7.8	0.5	1.0	3.7	16.3	0.05	0.33	0.30	31	0.12	0.014
1267822	Soil			0.62	13.70	17.93	60.8	64	20.3	8.9	367	3.02	6.4	1.2	<0.2	2.8	49.9	0.13	0.30	0.24	32	0.78	0.031
1267823	Soil			0.43	19.25	18.74	93.2	76	21.6	9.5	352	2.82	5.6	1.8	1.6	2.1	109.2	0.14	0.23	0.29	24	1.24	0.050
1267824	Soil			0.62	34.49	27.34	111.0	101	33.5	22.4	1036	3.70	12.1	2.2	1.5	3.5	57.6	0.25	0.39	0.37	22	0.71	0.071
1267825	Soil			0.39	24.70	21.71	112.4	47	22.9	14.9	592	3.93	4.5	0.8	<0.2	3.2	5.5	0.09	0.23	0.38	35	0.04	0.056
1267826	Soil			0.42	20.35	16.76	129.8	118	25.3	16.5	696	4.08	3.9	0.6	<0.2	3.8	10.8	0.09	0.16	0.44	34	0.06	0.054
1267827	Soil			0.31	27.67	21.87	88.2	42	30.9	13.9	283	4.43	5.3	0.8	<0.2	4.3	6.6	0.03	0.17	0.57	32	0.02	0.026
1267828	Soil			0.55	14.85	19.47	173.5	147	16.4	12.9	765	3.75	4.3	0.7	<0.2	2.6	9.5	0.25	0.34	0.39	43	0.07	0.053



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
			ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
			0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02	
1267627	Soil		4.4	23.2	0.33	132.1	0.002	4	1.15	0.012	0.06	<0.1	2.2	0.07	0.22	87	0.5	<0.02	3.3	0.55	<0.1	0.07
1267628	Soil		4.2	39.0	0.66	68.3	0.003	1	2.08	0.002	0.07	<0.1	3.2	0.07	<0.02	11	<0.1	0.03	7.3	0.81	<0.1	0.02
1267801	Soil		5.4	19.7	0.18	53.1	0.001	2	1.17	0.002	0.10	<0.1	6.7	0.12	<0.02	42	0.4	0.03	3.2	0.45	<0.1	0.05
1267802	Soil		6.1	34.5	0.30	82.5	0.002	<1	1.91	0.003	0.14	<0.1	3.0	0.10	<0.02	30	0.2	0.03	7.7	0.76	<0.1	0.03
1267803	Soil		8.4	38.8	0.64	98.6	0.004	1	2.08	0.002	0.07	<0.1	3.4	0.10	<0.02	25	0.1	0.03	6.8	0.99	<0.1	0.07
1267804	Soil		6.6	24.8	0.21	285.4	0.002	1	1.42	0.004	0.19	<0.1	2.3	0.12	0.02	26	0.1	0.03	6.1	0.57	<0.1	0.04
1267805	Soil		7.7	33.8	0.42	76.6	0.004	<1	1.82	0.002	0.10	<0.1	3.2	0.10	<0.02	18	0.1	0.03	6.8	0.98	<0.1	0.04
1267806	Soil		9.2	38.6	0.65	65.5	0.008	1	1.83	0.003	0.11	<0.1	3.2	0.09	<0.02	18	0.2	0.03	6.4	1.07	<0.1	0.03
1267807	Soil		5.5	36.9	0.45	61.2	0.004	<1	1.85	0.002	0.09	<0.1	3.6	0.11	<0.02	23	0.1	0.02	6.9	1.59	<0.1	0.06
1267808	Soil		7.6	30.2	0.43	156.5	0.003	2	1.57	0.005	0.10	<0.1	3.9	0.09	0.04	86	0.2	0.03	5.5	0.75	<0.1	0.05
1267809	Soil		6.2	29.8	0.44	139.3	0.005	2	1.38	0.004	0.10	<0.1	3.1	0.09	0.04	62	0.2	0.02	4.9	0.89	<0.1	0.06
1267810	Soil		6.8	29.4	0.56	133.3	0.004	2	1.46	0.004	0.08	<0.1	3.4	0.07	0.03	34	0.1	<0.02	5.1	0.60	<0.1	0.07
1267811	Soil		10.1	27.7	0.61	151.3	0.005	3	1.52	0.007	0.08	<0.1	3.1	0.07	<0.02	25	0.2	<0.02	5.2	0.65	<0.1	0.07
1267812	Soil		13.1	34.8	0.60	138.1	0.006	4	1.80	0.008	0.11	<0.1	5.0	0.10	<0.02	42	0.3	<0.02	5.1	1.05	<0.1	0.04
1267813	Soil		13.9	31.0	0.59	205.9	0.011	4	1.60	0.010	0.08	0.1	4.4	0.08	0.03	59	0.3	0.06	5.0	0.92	<0.1	0.06
1267814	Soil		9.5	27.5	0.52	160.5	0.009	4	1.41	0.008	0.09	<0.1	3.6	0.08	0.02	23	0.4	<0.02	4.7	1.06	<0.1	0.04
1267815	Soil		7.2	30.2	0.49	164.7	0.006	3	1.57	0.008	0.10	<0.1	3.5	0.08	0.02	20	0.5	<0.02	5.7	1.07	<0.1	0.04
1267816	Soil		6.0	36.7	0.57	89.0	0.003	3	2.24	0.009	0.08	<0.1	3.1	0.09	<0.02	39	0.3	<0.02	6.0	0.97	<0.1	0.05
1267817	Soil		9.4	25.0	0.41	86.8	0.009	2	1.25	0.004	0.12	<0.1	2.3	0.09	<0.02	16	0.2	<0.02	5.9	0.95	<0.1	<0.02
1267818	Soil		12.0	23.2	0.45	170.1	0.003	5	1.41	0.013	0.15	<0.1	3.7	0.06	0.05	32	0.7	<0.02	4.2	0.83	<0.1	0.04
1267819	Soil		9.4	27.4	0.46	106.5	0.006	4	1.62	0.007	0.09	<0.1	4.1	0.11	<0.02	23	0.4	0.04	4.5	1.04	<0.1	0.04
1267820	Soil		8.3	27.0	0.45	151.5	0.003	4	1.55	0.006	0.10	<0.1	4.3	0.08	0.04	56	0.7	0.05	4.3	0.71	<0.1	0.05
1267821	Soil		6.9	32.4	0.50	102.5	0.004	2	1.89	0.005	0.08	<0.1	2.7	0.09	<0.02	25	<0.1	0.04	5.6	1.04	<0.1	0.06
1267822	Soil		8.9	27.5	0.48	184.5	0.004	2	1.69	0.005	0.08	<0.1	3.0	0.10	0.02	29	0.3	<0.02	5.0	0.72	<0.1	0.03
1267823	Soil		7.8	25.3	0.47	141.5	0.004	6	1.42	0.006	0.10	<0.1	3.6	0.07	0.05	33	0.8	<0.02	4.2	0.63	<0.1	0.05
1267824	Soil		11.5	28.6	0.79	102.0	0.004	5	1.49	0.006	0.11	<0.1	4.3	0.10	0.05	71	1.1	0.05	4.4	1.34	<0.1	0.10
1267825	Soil		3.9	33.4	0.40	219.6	0.007	3	1.72	0.006	0.17	0.1	2.8	0.12	<0.02	24	0.3	<0.02	7.1	2.71	<0.1	0.04
1267826	Soil		5.2	35.6	0.47	434.8	0.005	2	2.10	0.007	0.24	<0.1	3.3	0.16	0.02	34	0.1	0.02	9.1	2.92	<0.1	0.03
1267827	Soil		4.8	37.7	0.59	85.9	0.004	2	2.27	0.004	0.14	<0.1	3.5	0.12	<0.02	14	<0.1	<0.02	9.0	2.41	<0.1	0.04
1267828	Soil		6.4	28.1	0.27	422.4	0.008	2	1.67	0.005	0.14	0.1	2.2	0.12	<0.02	27	<0.1	0.04	6.7	1.91	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 4 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
		ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02		0.1	0.1	0.05	0.1	0.01	0.1	0.02		1	0.1	0.1	10	2
1267627	Soil	0.35		10.2	3.3	<0.05	1.6	10.67	8.5	0.04	<1	0.8	15.9	<10	<2	
1267628	Soil	0.30		9.7	1.3	<0.05	0.8	2.61	9.5	0.04	<1	0.8	45.7	<10	<2	
1267801	Soil	0.08		8.9	1.8	<0.05	2.1	8.10	19.4	0.05	<1	1.6	8.3	<10	<2	
1267802	Soil	0.40		16.8	1.8	<0.05	1.0	3.08	13.1	0.04	<1	0.7	33.8	<10	<2	
1267803	Soil	0.37		11.8	1.9	<0.05	2.6	3.50	17.1	0.04	<1	0.9	51.5	<10	<2	
1267804	Soil	0.37		14.9	1.9	<0.05	0.8	2.42	15.9	0.03	<1	0.9	19.7	<10	<2	
1267805	Soil	0.30		17.2	3.1	<0.05	1.8	3.55	16.4	0.05	<1	1.0	35.6	<10	<2	
1267806	Soil	0.47		12.0	2.5	<0.05	1.1	3.66	19.5	0.04	<1	1.2	35.9	<10	<2	
1267807	Soil	0.20		13.1	2.0	<0.05	1.9	4.38	12.3	0.06	<1	1.2	37.6	<10	<2	
1267808	Soil	0.48		11.7	8.9	<0.05	1.8	9.94	14.8	0.04	<1	1.1	27.4	<10	<2	
1267809	Soil	0.50		11.8	2.5	<0.05	1.7	5.55	13.0	0.03	<1	0.9	26.8	<10	<2	
1267810	Soil	0.54		9.2	2.4	<0.05	2.2	5.14	15.3	0.03	<1	0.7	29.9	<10	<2	
1267811	Soil	0.54		11.3	1.4	<0.05	3.6	4.30	21.1	0.04	<1	0.6	42.2	<10	<2	
1267812	Soil	0.47		12.6	2.7	<0.05	2.5	12.42	30.8	0.03	<1	1.3	31.1	<10	<2	
1267813	Soil	0.88		10.9	2.2	<0.05	1.9	10.78	31.7	0.03	<1	1.2	32.3	<10	<2	
1267814	Soil	0.68		16.5	2.5	<0.05	1.6	8.17	21.8	0.03	<1	1.6	39.5	<10	<2	
1267815	Soil	0.50		20.6	1.5	<0.05	1.4	5.23	16.2	0.03	<1	0.6	37.7	<10	<2	
1267816	Soil	0.77		12.1	2.0	<0.05	3.1	2.97	14.8	0.06	<1	1.3	52.3	<10	<2	
1267817	Soil	0.57		18.1	1.8	<0.05	0.7	2.92	19.4	0.03	<1	0.5	20.5	<10	<2	
1267818	Soil	0.44		14.1	1.1	<0.05	2.2	7.63	25.7	0.03	<1	1.0	28.6	<10	<2	
1267819	Soil	0.51		11.5	1.1	<0.05	1.8	7.72	22.3	0.04	<1	1.0	41.2	<10	<2	
1267820	Soil	0.46		10.3	1.5	<0.05	1.7	11.35	15.1	0.02	<1	0.9	31.1	<10	<2	
1267821	Soil	0.43		11.6	2.0	<0.05	2.6	2.97	15.7	0.04	<1	0.8	44.8	<10	<2	
1267822	Soil	0.84		11.5	1.3	<0.05	1.6	4.19	21.0	0.02	<1	0.7	27.9	<10	<2	
1267823	Soil	0.52		13.0	1.3	<0.05	1.5	7.93	16.7	0.03	<1	1.2	33.4	<10	<2	
1267824	Soil	0.33		8.5	0.7	<0.05	2.8	10.29	26.1	0.03	<1	1.5	41.4	<10	<2	
1267825	Soil	0.65		24.5	2.6	<0.05	1.4	3.07	9.5	0.03	<1	1.3	21.3	<10	<2	
1267826	Soil	0.74		32.0	2.0	<0.05	1.6	3.67	12.0	0.04	<1	1.4	32.8	<10	<2	
1267827	Soil	0.37		15.9	1.5	<0.05	2.1	3.55	12.3	0.03	<1	1.6	40.6	<10	<2	
1267828	Soil	0.76		24.8	1.3	<0.05	0.5	2.18	13.1	0.03	2	1.4	23.2	<10	<2	



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1267829	Soil			0.63	19.27	29.98	118.9	244	21.3	12.9	675	3.53	8.5	0.5	0.4	2.8	10.6	0.11	0.30	0.48	36	0.07	0.051
1267830	Soil			0.24	28.75	16.69	75.7	118	30.4	14.2	320	4.32	3.9	0.5	0.7	3.9	5.0	0.04	0.11	0.47	28	0.02	0.032
1267831	Soil			0.44	4.65	24.28	69.2	35	18.5	8.9	142	4.38	3.0	0.8	0.4	5.3	3.8	0.06	0.28	0.41	37	0.02	0.022
1267832	Soil			0.95	18.78	20.88	132.7	162	23.8	11.6	382	3.65	5.5	0.6	<0.2	3.5	6.5	0.10	0.35	0.38	38	0.04	0.032
1267833	Soil			0.81	24.10	39.23	114.2	155	21.1	10.7	320	3.78	11.2	0.6	<0.2	3.2	12.3	0.08	0.27	0.56	30	0.10	0.046
1267834	Soil			0.67	14.42	15.34	76.2	76	17.4	8.4	265	3.54	5.9	0.6	0.4	4.1	6.1	0.06	0.34	0.35	40	0.03	0.021
1267835	Soil			0.59	13.46	20.28	90.0	104	19.7	10.3	305	3.56	4.5	0.6	0.6	4.3	6.0	0.06	0.21	0.36	37	0.03	0.016
1267836	Soil			0.85	22.68	27.94	101.8	111	27.6	14.5	514	5.00	6.7	0.6	1.1	4.5	9.2	0.07	0.41	0.52	39	0.05	0.042
1267837	Soil			0.76	16.38	20.25	71.6	132	27.0	9.5	293	3.69	8.0	0.6	0.2	4.6	8.9	0.05	0.41	0.28	43	0.06	0.021
1267838	Soil			0.47	10.74	18.93	127.2	136	22.5	12.1	377	3.66	3.1	0.3	0.4	3.1	10.5	0.09	0.12	0.38	37	0.07	0.021
1267839	Soil			0.32	13.20	14.91	109.0	87	19.2	12.1	370	3.26	1.9	0.4	<0.2	3.2	5.2	0.11	0.12	0.38	30	0.02	0.027
1267840	Soil			0.42	12.06	14.91	115.8	87	16.9	10.6	638	3.26	2.5	0.6	0.4	3.0	11.6	0.18	0.16	0.34	36	0.04	0.024
1267841	Soil			0.43	19.22	20.21	43.3	167	10.9	4.9	206	2.17	2.7	0.5	<0.2	3.2	8.4	0.07	0.14	0.33	31	0.04	0.016
1267842	Soil			0.41	45.61	19.29	69.3	182	19.4	9.0	510	2.91	4.5	2.4	1.3	3.0	67.8	0.07	0.18	0.36	33	0.71	0.031
1267843	Soil			0.68	35.09	26.85	76.1	158	20.2	10.1	506	2.90	5.3	2.8	0.4	2.5	99.6	0.22	0.29	0.36	28	1.15	0.054
1267844	Soil			0.37	20.84	33.30	82.2	88	28.0	14.2	763	3.65	7.6	0.9	1.1	5.1	39.5	0.08	0.36	0.42	22	0.99	0.025
1267845	Soil			0.39	25.71	29.76	80.4	23	30.5	17.2	708	4.01	4.8	0.9	1.5	5.8	18.6	0.03	0.17	0.48	29	0.22	0.015
1267846	Soil			0.43	28.91	32.06	89.4	91	30.8	13.7	486	3.88	8.3	1.0	1.9	6.0	37.6	0.06	0.41	0.46	24	0.69	0.034
1267847	Soil			0.37	33.19	25.85	73.3	87	26.7	14.0	582	3.34	5.4	1.0	2.9	3.6	40.5	0.10	0.27	0.44	23	0.92	0.029
1267848	Soil			0.45	26.16	28.23	76.0	73	30.1	15.3	591	3.82	4.8	0.7	1.6	4.8	19.4	0.05	0.15	0.42	25	0.33	0.017
1267849	Soil			0.45	24.54	22.95	90.9	54	25.7	13.2	804	3.35	4.4	0.9	1.2	3.4	31.3	0.05	0.18	0.35	22	2.09	0.028
1267850	Soil			0.37	14.17	22.24	64.6	33	28.7	15.9	770	3.61	1.8	0.9	0.5	4.3	6.0	0.03	0.27	0.36	30	0.05	0.029
1267851	Soil			0.54	40.03	26.33	83.9	60	30.9	14.1	568	3.50	5.2	0.7	1.1	3.9	18.4	0.05	0.26	0.35	24	0.34	0.027
1267852	Soil			0.38	22.64	18.35	82.0	40	26.7	11.4	344	3.04	4.2	0.6	1.5	3.8	25.4	0.05	0.21	0.32	21	0.60	0.026
1267853	Soil			0.39	27.55	19.97	80.5	64	27.3	12.0	383	3.19	4.7	0.9	1.4	3.9	20.8	0.05	0.20	0.36	25	0.34	0.032
1267854	Soil			0.60	26.60	28.19	80.5	45	25.5	13.4	438	4.21	6.4	0.5	0.6	3.8	8.9	0.07	0.28	0.40	31	0.05	0.026
1267855	Soil			0.41	27.32	24.38	84.0	36	23.5	12.6	518	3.59	4.8	0.5	0.7	3.2	30.8	0.06	0.14	0.41	30	0.30	0.028
1267856	Soil			0.56	27.34	21.78	85.2	103	28.9	11.4	398	3.16	9.4	0.9	1.2	3.4	38.8	0.14	0.47	0.29	23	0.96	0.069
1267857	Soil			0.47	30.24	23.02	74.0	136	26.2	11.9	717	3.34	9.0	1.3	1.4	3.0	40.6	0.11	0.40	0.29	23	1.27	0.058
1267858	Soil			0.60	26.38	27.57	73.7	84	26.7	14.5	647	3.79	7.4	0.6	0.8	4.2	9.4	0.10	0.30	0.29	28	0.15	0.027



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Project: Scarlet
 Report Date: October 24, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267829	Soil	6.8	30.6	0.38	139.1	0.005	1	1.81	0.007	0.15	<0.1	2.8	0.14	<0.02	40	0.2	0.07	7.6	1.75	<0.1	0.02
1267830	Soil	3.4	39.1	0.52	91.9	0.004	1	2.22	0.006	0.12	<0.1	3.8	0.12	<0.02	33	0.2	<0.02	8.7	3.20	<0.1	0.05
1267831	Soil	2.6	37.4	0.33	119.8	0.006	2	1.58	0.005	0.15	0.1	2.7	0.14	<0.02	16	0.3	<0.02	6.4	2.07	<0.1	0.03
1267832	Soil	7.5	34.6	0.47	178.6	0.006	2	1.95	0.005	0.11	<0.1	2.8	0.14	<0.02	29	0.1	0.05	7.5	1.39	<0.1	0.03
1267833	Soil	5.8	33.6	0.39	151.5	0.005	2	1.79	0.006	0.17	<0.1	2.8	0.16	0.02	35	<0.1	<0.02	7.9	4.06	<0.1	<0.02
1267834	Soil	7.9	28.9	0.36	143.6	0.006	2	1.84	0.005	0.10	0.1	2.7	0.12	<0.02	28	<0.1	0.03	7.1	1.19	<0.1	0.04
1267835	Soil	6.6	31.0	0.43	122.6	0.004	2	2.03	0.005	0.09	<0.1	2.5	0.12	<0.02	23	<0.1	0.04	7.0	1.24	<0.1	0.04
1267836	Soil	6.5	39.7	0.47	124.1	0.005	2	2.22	0.005	0.13	<0.1	3.2	0.14	<0.02	34	0.2	<0.02	8.0	1.99	<0.1	0.03
1267837	Soil	12.3	33.7	0.51	117.2	0.012	2	1.94	0.006	0.09	0.1	2.7	0.12	<0.02	20	<0.1	0.04	6.4	1.62	<0.1	0.02
1267838	Soil	5.4	34.7	0.41	415.1	0.002	2	2.53	0.005	0.13	<0.1	2.8	0.21	<0.02	11	<0.1	0.03	9.2	1.39	<0.1	0.02
1267839	Soil	3.9	30.9	0.34	315.2	0.003	<1	1.88	0.006	0.21	<0.1	2.7	0.19	<0.02	8	<0.1	<0.02	8.2	1.35	<0.1	0.03
1267840	Soil	6.5	31.0	0.33	236.2	0.006	3	1.88	0.007	0.16	<0.1	2.7	0.15	0.04	17	<0.1	0.04	7.8	1.44	<0.1	0.02
1267841	Soil	7.3	20.5	0.18	287.1	0.005	2	1.35	0.006	0.11	<0.1	1.9	0.10	<0.02	20	<0.1	<0.02	6.0	0.91	<0.1	0.04
1267842	Soil	7.8	26.5	0.43	405.3	0.003	3	1.73	0.010	0.10	0.1	2.9	0.11	<0.02	51	0.3	<0.02	6.1	1.20	<0.1	0.03
1267843	Soil	8.8	27.1	0.41	281.3	0.006	2	1.40	0.008	0.12	0.1	3.0	0.07	0.05	45	0.4	<0.02	4.9	0.90	<0.1	0.06
1267844	Soil	8.3	29.4	0.75	168.5	0.005	3	1.61	0.008	0.11	<0.1	3.5	0.10	<0.02	69	0.5	0.05	5.2	1.41	<0.1	0.06
1267845	Soil	5.4	37.4	0.59	145.1	0.006	3	1.95	0.009	0.14	<0.1	4.0	0.12	<0.02	26	<0.1	<0.02	7.2	1.94	<0.1	0.06
1267846	Soil	11.2	32.7	0.55	184.6	0.004	2	1.79	0.007	0.13	<0.1	4.9	0.11	<0.02	75	<0.1	<0.02	6.0	1.42	<0.1	0.07
1267847	Soil	5.0	27.9	0.48	229.4	0.003	3	1.63	0.002	0.11	0.1	3.9	0.10	<0.02	61	0.2	<0.02	5.7	1.35	<0.1	0.08
1267848	Soil	5.9	33.7	0.54	243.8	0.003	2	1.95	0.002	0.12	<0.1	4.3	0.11	<0.02	48	0.1	0.02	6.8	1.72	<0.1	0.07
1267849	Soil	4.1	29.2	1.28	229.4	0.003	3	1.55	0.003	0.12	<0.1	3.3	0.09	<0.02	39	0.1	0.02	5.6	1.63	<0.1	0.05
1267850	Soil	3.6	33.6	0.36	125.1	0.010	2	1.54	0.002	0.22	0.1	3.0	0.17	<0.02	12	<0.1	0.04	6.1	3.34	<0.1	0.04
1267851	Soil	5.8	30.8	0.64	175.9	0.004	2	1.87	0.002	0.11	<0.1	4.1	0.10	<0.02	26	<0.1	0.02	6.0	2.11	<0.1	0.05
1267852	Soil	4.5	27.2	0.54	163.6	0.003	3	1.59	0.002	0.10	<0.1	3.6	0.09	0.02	30	0.2	<0.02	5.6	1.43	<0.1	0.08
1267853	Soil	7.1	29.5	0.50	123.3	0.003	2	1.68	0.003	0.11	<0.1	4.0	0.08	0.02	31	<0.1	<0.02	6.0	1.86	<0.1	0.05
1267854	Soil	5.3	30.2	0.40	68.3	0.002	1	1.81	0.001	0.08	<0.1	3.2	0.11	<0.02	18	<0.1	0.02	6.4	2.24	<0.1	0.04
1267855	Soil	5.8	33.3	0.45	99.5	0.002	1	1.81	0.003	0.10	<0.1	3.1	0.09	<0.02	9	<0.1	0.03	7.1	1.74	<0.1	0.02
1267856	Soil	11.2	25.0	0.82	95.4	0.005	3	1.50	0.003	0.09	<0.1	5.0	0.09	0.02	53	0.3	0.03	4.2	1.53	<0.1	0.07
1267857	Soil	10.1	23.6	0.80	127.9	0.002	2	1.46	0.003	0.08	<0.1	4.0	0.08	0.03	65	0.2	0.03	4.2	0.91	<0.1	0.06
1267858	Soil	10.0	29.9	0.58	82.3	0.003	2	1.90	<0.001	0.11	<0.1	3.9	0.10	<0.02	30	0.1	0.05	5.5	1.21	<0.1	0.06



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 5 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1267829	Soil	0.66	21.3	2.2	<0.05	0.8	3.03	14.5	0.03	<1	1.3	27.1	<10	<2
1267830	Soil	0.57	16.1	1.5	<0.05	2.0	4.14	10.5	0.05	<1	1.5	30.2	<10	<2
1267831	Soil	0.80	25.4	4.0	<0.05	1.4	2.54	5.7	0.02	<1	0.3	15.4	<10	<2
1267832	Soil	0.76	19.7	1.6	<0.05	1.2	2.78	15.7	0.03	1	0.7	33.5	<10	<2
1267833	Soil	0.54	20.4	6.5	<0.05	0.7	3.62	14.5	0.02	1	1.1	25.6	<10	<2
1267834	Soil	0.54	20.3	1.2	<0.05	2.2	2.67	15.8	<0.02	<1	0.5	25.4	<10	<2
1267835	Soil	0.58	20.4	1.4	<0.05	2.3	2.71	13.8	0.03	<1	0.8	35.9	<10	<2
1267836	Soil	0.69	18.9	2.3	<0.05	1.8	3.38	14.3	0.04	<1	1.8	37.6	<10	<2
1267837	Soil	1.00	15.0	2.0	<0.05	1.4	3.12	24.9	<0.02	<1	0.9	35.4	<10	<2
1267838	Soil	0.38	24.3	2.4	<0.05	1.4	2.02	11.3	0.03	<1	1.5	39.5	<10	<2
1267839	Soil	0.55	27.7	3.2	<0.05	1.4	2.43	8.8	0.03	<1	1.3	30.3	<10	<2
1267840	Soil	0.57	26.7	1.6	<0.05	0.9	2.10	13.0	0.03	<1	0.6	32.9	<10	<2
1267841	Soil	0.63	16.3	2.2	<0.05	1.1	3.38	15.3	<0.02	<1	1.2	9.1	<10	<2
1267842	Soil	0.69	18.9	1.6	<0.05	1.1	9.46	15.9	0.03	<1	1.4	44.5	<10	<2
1267843	Soil	0.79	16.5	3.5	<0.05	1.6	11.15	16.8	0.03	<1	1.3	26.4	<10	<2
1267844	Soil	0.46	10.7	1.6	<0.05	2.2	6.82	19.5	<0.02	<1	1.4	30.3	<10	<2
1267845	Soil	0.39	14.2	2.5	<0.05	2.6	4.89	15.0	0.03	<1	1.7	31.0	<10	<2
1267846	Soil	0.50	11.5	1.8	<0.05	3.9	13.37	21.2	0.03	<1	1.8	31.0	<10	<2
1267847	Soil	0.60	12.2	2.5	<0.05	2.9	8.08	12.1	0.05	<1	1.3	27.4	<10	<2
1267848	Soil	0.51	13.5	2.5	<0.05	3.0	9.62	15.5	0.03	<1	1.3	32.3	<10	<2
1267849	Soil	0.51	12.9	3.8	<0.05	2.2	5.12	11.7	0.03	<1	0.9	26.9	<10	<2
1267850	Soil	0.86	27.1	2.8	<0.05	1.0	4.38	8.9	0.03	<1	1.4	21.6	<10	<2
1267851	Soil	0.40	11.0	2.8	<0.05	2.2	7.98	14.7	0.03	<1	1.3	38.9	<10	<2
1267852	Soil	0.45	10.4	1.9	<0.05	2.7	4.87	11.3	0.03	<1	1.0	32.8	<10	<2
1267853	Soil	0.38	11.3	1.6	<0.05	1.8	8.61	16.6	0.02	<1	1.2	32.5	<10	<2
1267854	Soil	0.38	12.9	2.4	<0.05	2.2	3.62	12.8	0.03	<1	1.1	38.5	<10	<2
1267855	Soil	0.32	14.1	2.7	<0.05	1.1	5.68	13.2	0.04	<1	0.9	31.4	<10	<2
1267856	Soil	0.34	7.6	1.3	<0.05	2.3	13.64	24.9	0.03	<1	1.0	37.4	<10	<2
1267857	Soil	0.35	7.3	1.4	<0.05	2.3	11.56	25.3	0.04	<1	1.0	33.3	<10	<2
1267858	Soil	0.61	11.7	2.6	<0.05	2.0	7.04	23.0	0.02	<1	1.1	37.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1267859	Soil			0.69	26.14	22.77	70.9	99	22.2	8.0	943	2.34	6.0	1.2	1.3	1.9	53.3	0.22	0.40	0.22	15	4.67	0.070
1267860	Soil			0.71	13.10	22.28	63.5	40	14.9	7.8	1958	3.88	11.5	2.2	<0.2	1.7	23.4	0.39	0.77	0.21	22	4.84	0.095
1267861	Soil			0.30	13.64	12.58	113.0	47	19.7	12.3	441	3.64	2.9	0.3	<0.2	2.8	7.2	0.06	0.12	0.36	32	0.06	0.024
1267862	Soil			0.86	15.37	18.70	88.1	49	20.0	9.1	272	4.06	7.8	0.4	0.5	3.6	6.1	0.08	0.39	0.32	41	0.04	0.025
1267863	Soil			0.69	14.60	14.23	56.2	38	17.1	7.7	275	3.64	5.0	0.4	0.4	2.9	6.4	0.05	0.28	0.30	35	0.06	0.034
1267864	Soil			0.47	22.80	40.58	94.4	50	25.2	20.0	1515	3.85	4.7	0.5	0.5	3.3	23.0	0.06	0.16	0.40	29	0.23	0.047
1267865	Soil			0.99	18.89	28.52	89.1	52	29.0	13.8	430	4.17	6.6	0.5	0.5	4.0	8.1	0.07	0.31	0.39	36	0.07	0.035
1267866	Soil			0.55	10.47	12.53	80.0	65	16.4	9.2	295	2.99	3.7	0.4	0.2	3.3	7.7	0.09	0.23	0.26	36	0.06	0.019
1267867	Soil			0.39	27.78	16.90	63.2	85	46.0	13.0	2324	4.35	6.3	0.7	1.1	6.0	19.8	0.08	0.19	0.35	27	0.14	0.027
1267868	Soil			0.51	19.01	18.43	85.0	78	21.3	13.3	545	3.65	4.3	0.4	0.5	3.2	30.4	0.10	0.13	0.45	32	0.20	0.027
1267869	Soil			0.42	21.61	17.98	70.3	49	20.4	9.7	415	3.28	6.8	0.5	0.6	3.1	11.2	0.06	0.33	0.31	27	0.10	0.027
1267870	Soil			0.35	17.95	16.07	57.3	16	17.7	8.4	204	3.89	4.5	0.5	0.7	3.5	4.9	0.02	0.15	0.34	32	0.02	0.016
1267871	Soil			0.53	9.75	16.02	55.7	39	16.1	8.7	286	3.42	5.2	0.4	0.8	3.3	5.9	0.03	0.17	0.32	37	0.04	0.018
1267872	Soil			0.73	10.57	13.52	87.1	34	19.6	9.1	178	3.24	5.0	0.4	0.4	3.4	7.0	0.07	0.29	0.29	39	0.05	0.022
1266380	Soil			1.07	19.02	26.61	91.9	108	23.5	13.4	398	4.27	8.7	0.5	0.5	3.2	6.6	0.10	0.29	0.38	39	0.05	0.038
1266381	Soil			0.39	28.62	31.54	118.0	73	40.0	20.1	291	4.45	4.3	0.5	0.9	5.5	6.9	0.03	0.18	0.49	34	0.03	0.022
1266382	Soil			0.69	36.45	187.5	112.9	91	45.0	55.0	4640	4.25	4.7	0.9	2.1	5.6	22.6	0.08	0.21	0.46	21	0.23	0.033
1266383	Soil			0.83	20.41	31.65	73.2	68	27.5	13.7	315	4.02	4.8	0.5	1.3	3.9	11.8	0.06	0.26	0.33	34	0.12	0.029
1266384	Soil			0.73	14.45	16.29	125.9	58	22.4	12.0	362	3.35	5.6	0.4	0.8	3.6	7.9	0.10	0.29	0.27	46	0.07	0.016
1266385	Soil			0.73	19.43	26.24	80.3	37	25.3	17.6	323	3.11	5.1	0.3	0.5	3.8	9.8	0.03	0.17	0.34	26	0.08	0.022
1266386	Soil			0.64	13.69	17.92	75.4	96	25.0	8.6	338	3.20	7.7	1.1	0.8	5.1	15.7	0.07	0.33	0.26	38	0.27	0.022
1266387	Soil			0.49	11.03	14.34	103.4	93	16.4	7.8	178	3.48	2.5	0.2	0.3	2.6	4.5	0.14	0.18	0.29	35	0.03	0.023
1266388	Soil			0.33	13.20	20.63	75.4	28	24.7	10.7	229	4.11	4.7	0.3	0.6	3.0	4.7	0.07	0.13	0.30	34	0.03	0.013
1266389	Soil			0.46	12.95	19.75	63.3	24	23.8	10.7	229	3.92	6.3	0.3	<0.2	3.2	5.5	0.06	0.20	0.28	37	0.03	0.014
1266390	Soil			0.40	14.61	18.46	59.0	38	28.1	10.6	315	3.63	6.6	0.5	2.2	3.2	7.2	0.09	0.28	0.30	32	0.11	0.013
1266391	Soil			0.51	26.29	17.88	104.7	105	28.0	10.3	320	3.21	7.5	1.4	3.2	3.4	38.6	0.15	0.38	0.33	26	0.62	0.067
1266392	Soil			0.54	9.53	14.12	38.9	35	11.5	6.0	237	2.83	5.4	0.4	0.6	3.0	5.0	0.04	0.21	0.28	39	0.05	0.012
1266393	Soil			0.80	17.40	19.08	64.4	70	16.4	11.0	365	3.29	4.7	0.3	1.3	2.1	5.3	0.07	0.24	0.29	35	0.05	0.026
1266394	Soil			0.41	22.89	21.63	55.3	56	36.2	12.0	306	3.45	5.5	0.7	1.0	3.7	16.6	0.03	0.22	0.29	27	0.14	0.015
1266395	Soil			0.58	23.87	20.45	69.4	42	32.0	12.2	299	4.29	9.5	0.5	1.0	3.6	10.8	0.06	0.34	0.34	30	0.16	0.020



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267859	Soil	8.5	22.1	2.50	138.9	0.004	6	1.10	0.004	0.09	<0.1	3.1	0.09	0.06	98	1.2	<0.02	2.8	0.79	<0.1	0.06
1267860	Soil	11.6	19.6	2.67	125.4	0.004	3	1.19	0.003	0.05	<0.1	3.2	0.10	0.03	32	0.4	0.04	2.7	0.49	<0.1	0.04
1267861	Soil	4.3	32.2	0.38	178.5	0.002	<1	2.30	0.001	0.15	<0.1	2.9	0.12	<0.02	13	<0.1	<0.02	8.7	1.19	<0.1	0.03
1267862	Soil	7.0	29.7	0.37	73.9	0.006	1	2.06	<0.001	0.09	<0.1	2.4	0.11	<0.02	24	0.3	<0.02	6.7	1.86	<0.1	0.05
1267863	Soil	6.2	25.4	0.30	161.6	0.004	2	1.65	<0.001	0.17	<0.1	2.2	0.10	<0.02	13	<0.1	0.03	7.1	1.12	<0.1	0.02
1267864	Soil	5.2	29.2	0.40	375.4	0.003	1	2.08	0.002	0.19	<0.1	3.7	0.13	<0.02	32	0.1	<0.02	7.5	1.38	<0.1	0.03
1267865	Soil	7.0	37.9	0.47	106.0	0.005	1	2.12	0.002	0.14	<0.1	3.0	0.11	<0.02	13	0.2	<0.02	7.4	1.76	<0.1	0.03
1267866	Soil	8.6	25.5	0.34	258.9	0.004	1	1.87	<0.001	0.14	<0.1	2.2	0.12	<0.02	10	0.1	<0.02	6.8	1.01	<0.1	0.03
1267867	Soil	6.3	35.9	0.45	233.7	0.002	2	2.61	<0.001	0.14	<0.1	5.2	0.19	<0.02	39	0.2	<0.02	6.5	2.65	<0.1	0.05
1267868	Soil	5.4	33.4	0.46	336.9	0.004	2	1.79	0.006	0.17	<0.1	3.0	0.10	<0.02	19	<0.1	<0.02	7.9	1.42	<0.1	<0.02
1267869	Soil	6.6	24.2	0.40	209.2	0.005	2	1.44	0.003	0.09	<0.1	2.5	0.08	<0.02	249	<0.1	0.02	5.3	1.55	<0.1	<0.02
1267870	Soil	4.1	28.1	0.33	110.3	0.005	1	1.90	0.002	0.12	<0.1	2.8	0.12	<0.02	37	<0.1	0.03	7.3	1.51	<0.1	0.04
1267871	Soil	7.4	26.7	0.33	84.7	0.012	<1	1.52	0.002	0.11	<0.1	2.2	0.11	<0.02	<5	<0.1	0.03	7.3	1.35	<0.1	<0.02
1267872	Soil	7.7	28.0	0.42	131.0	0.006	1	1.97	0.002	0.14	<0.1	2.4	0.14	<0.02	14	0.2	<0.02	7.4	1.53	<0.1	0.03
1266380	Soil	6.0	33.3	0.38	92.3	0.005	1	2.22	0.001	0.14	<0.1	2.8	0.12	<0.02	28	0.2	0.04	7.6	2.42	<0.1	0.02
1266381	Soil	5.8	43.1	0.67	50.8	0.003	<1	2.57	<0.001	0.10	<0.1	3.8	0.07	<0.02	18	0.1	<0.02	8.5	2.07	<0.1	0.04
1266382	Soil	11.7	34.8	0.46	250.4	0.002	1	2.07	0.003	0.14	<0.1	6.0	0.32	<0.02	37	<0.1	<0.02	6.9	5.00	<0.1	0.06
1266383	Soil	7.5	34.9	0.47	70.1	0.005	<1	2.08	0.002	0.13	<0.1	3.1	0.10	<0.02	20	0.2	<0.02	6.6	2.15	<0.1	<0.02
1266384	Soil	9.6	31.0	0.42	129.0	0.010	<1	2.10	0.001	0.10	<0.1	2.7	0.12	<0.02	11	0.1	0.02	6.9	1.20	<0.1	<0.02
1266385	Soil	5.1	30.9	0.44	67.7	0.003	<1	1.93	0.002	0.16	<0.1	3.0	0.12	<0.02	14	<0.1	<0.02	6.5	2.02	<0.1	<0.02
1266386	Soil	14.7	30.5	0.48	145.3	0.011	2	1.82	0.004	0.11	0.1	4.1	0.12	<0.02	44	0.2	<0.02	5.1	1.09	<0.1	0.04
1266387	Soil	4.8	27.0	0.32	89.0	0.002	<1	1.78	0.003	0.15	<0.1	2.1	0.09	<0.02	8	<0.1	<0.02	7.1	0.85	<0.1	0.02
1266388	Soil	4.7	32.8	0.48	91.1	0.003	<1	2.26	0.001	0.08	<0.1	2.7	0.10	<0.02	13	<0.1	<0.02	7.2	1.27	<0.1	0.04
1266389	Soil	5.9	28.3	0.43	91.2	0.004	1	2.11	0.001	0.07	<0.1	2.6	0.11	<0.02	18	0.1	<0.02	6.8	1.35	<0.1	0.04
1266390	Soil	6.7	28.8	0.48	128.8	0.003	2	2.44	<0.001	0.05	<0.1	2.7	0.13	<0.02	28	<0.1	0.03	6.0	1.10	<0.1	0.04
1266391	Soil	10.0	27.8	0.60	119.0	0.008	4	1.45	0.006	0.09	<0.1	3.8	0.09	0.03	73	0.5	<0.02	4.8	1.33	<0.1	0.05
1266392	Soil	8.9	19.4	0.22	69.7	0.004	1	1.54	<0.001	0.04	<0.1	1.9	0.11	<0.02	16	<0.1	0.02	5.9	0.95	<0.1	0.03
1266393	Soil	5.3	25.6	0.26	116.5	0.002	<1	1.75	0.001	0.08	<0.1	2.0	0.10	<0.02	19	0.2	0.03	6.3	1.76	<0.1	<0.02
1266394	Soil	8.8	31.2	0.57	110.5	0.003	2	1.92	0.002	0.07	<0.1	3.8	0.11	<0.02	60	<0.1	0.03	5.7	2.03	<0.1	0.03
1266395	Soil	5.7	33.2	0.55	68.2	0.003	1	1.93	0.001	0.08	<0.1	3.2	0.10	<0.02	71	0.2	0.02	5.9	1.47	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: October 24, 2011

Page: 6 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1267859	Soil	0.29	7.4	6.6	<0.05	2.3	9.12	16.5	0.03	<1	0.7	23.5	<10	<2
1267860	Soil	0.24	7.7	0.8	<0.05	1.3	10.44	25.6	0.03	<1	0.7	14.2	<10	<2
1267861	Soil	0.25	19.7	1.6	<0.05	1.0	3.37	9.8	0.03	<1	0.9	31.4	<10	<2
1267862	Soil	0.65	17.0	2.0	<0.05	2.4	2.56	14.4	0.04	<1	0.5	40.1	<10	<2
1267863	Soil	0.67	15.1	3.4	<0.05	1.0	2.50	12.7	<0.02	<1	0.5	24.7	<10	<2
1267864	Soil	0.43	18.8	1.7	<0.05	1.3	4.34	14.8	0.03	<1	1.4	32.2	<10	<2
1267865	Soil	0.46	18.7	8.0	<0.05	1.2	3.28	15.8	0.04	<1	1.2	35.2	<10	<2
1267866	Soil	0.46	20.4	1.3	<0.05	1.1	2.11	17.6	<0.02	<1	0.6	26.2	<10	<2
1267867	Soil	0.40	18.3	1.9	<0.05	2.3	8.06	17.3	0.04	<1	2.0	36.6	<10	<2
1267868	Soil	0.52	17.6	3.2	<0.05	0.6	4.94	12.9	0.04	<1	0.9	21.5	<10	<2
1267869	Soil	0.38	11.3	1.1	<0.05	0.5	3.63	14.9	0.03	<1	0.8	28.0	<10	<2
1267870	Soil	0.42	19.2	1.5	<0.05	1.7	3.32	10.0	0.03	<1	0.8	20.8	<10	<2
1267871	Soil	0.61	20.1	2.7	<0.05	0.8	2.54	15.7	<0.02	<1	0.4	14.2	<10	<2
1267872	Soil	0.66	23.5	1.3	<0.05	1.4	2.60	16.2	0.02	<1	0.6	28.8	<10	<2
1266380	Soil	0.68	21.2	5.3	<0.05	1.2	3.00	14.2	0.04	<1	1.1	42.9	<10	<2
1266381	Soil	0.44	11.3	2.9	<0.05	2.4	6.44	14.5	0.03	<1	1.5	43.9	<10	<2
1266382	Soil	0.15	15.9	11.4	<0.05	1.7	22.40	46.9	0.05	<1	1.9	46.3	<10	<2
1266383	Soil	0.43	16.8	9.3	<0.05	1.2	3.62	17.8	0.03	<1	1.2	40.0	<10	<2
1266384	Soil	0.61	18.5	2.4	<0.05	1.0	2.93	20.2	0.02	<1	0.7	28.1	<10	<2
1266385	Soil	0.24	16.6	2.7	<0.05	0.8	3.03	13.8	0.02	<1	1.3	30.8	<10	<2
1266386	Soil	0.67	14.1	2.2	<0.05	2.0	10.69	26.4	0.03	<1	0.8	20.1	<10	<2
1266387	Soil	0.37	20.2	1.6	<0.05	1.0	1.85	10.5	0.03	<1	0.5	29.3	<10	<2
1266388	Soil	0.26	18.4	1.8	<0.05	1.3	2.71	11.3	0.03	<1	0.8	40.9	<10	<2
1266389	Soil	0.46	16.2	1.4	<0.05	1.7	2.62	13.2	0.03	<1	0.8	38.0	<10	<2
1266390	Soil	0.38	10.6	1.4	<0.05	1.2	3.45	15.9	0.05	<1	0.9	28.3	<10	<2
1266391	Soil	0.51	13.4	1.0	<0.05	1.4	9.69	17.8	0.04	<1	0.8	28.3	<10	<2
1266392	Soil	0.45	11.3	0.9	<0.05	1.1	2.86	19.1	0.03	<1	0.5	19.1	<10	<2
1266393	Soil	0.49	17.7	1.7	<0.05	0.6	1.83	11.2	0.03	<1	0.6	26.9	<10	<2
1266394	Soil	0.31	12.6	1.5	<0.05	1.3	8.33	23.9	0.03	<1	1.2	39.9	<10	<2
1266395	Soil	0.44	12.7	1.0	<0.05	1.5	2.82	12.6	0.03	<1	1.0	37.9	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1266396	Soil			0.29	22.22	17.84	68.4	23	31.2	11.2	200	4.28	5.4	0.3	0.4	2.8	5.9	0.04	0.13	0.34	32	0.03	0.016
1266397	Soil			0.39	37.71	24.54	84.7	20	40.3	15.7	433	4.74	7.2	0.4	1.0	3.4	9.5	0.03	0.19	0.44	32	0.11	0.012
1266398	Soil			0.18	20.99	8.21	24.3	109	11.3	4.5	522	1.02	1.7	1.2	1.1	0.5	310.7	0.41	0.18	0.20	8	3.68	0.092
1266399	Soil			0.48	31.57	26.54	79.6	86	31.7	13.7	399	4.00	14.1	1.0	1.4	5.9	20.3	0.04	0.50	0.42	19	0.21	0.019
1266400	Soil			0.56	28.36	27.11	66.4	211	29.6	10.1	558	3.84	12.7	1.9	2.1	3.9	55.7	0.09	0.39	0.32	18	2.42	0.076
1266451	Soil			0.57	20.50	15.54	63.7	89	22.4	8.8	425	2.77	9.5	0.9	1.4	2.1	38.9	0.13	0.52	0.26	22	0.75	0.046
1266452	Soil			0.40	27.46	20.72	79.1	81	24.8	11.1	433	2.88	12.8	0.8	1.7	3.0	80.3	0.09	0.85	0.27	11	3.38	0.052
1266453	Soil			0.74	32.77	24.52	81.8	79	31.8	13.4	569	3.23	14.8	0.9	1.2	3.7	148.4	0.10	0.67	0.30	12	4.06	0.047
1266454	Soil			0.62	18.88	34.90	54.4	158	23.2	11.2	1812	4.36	14.2	3.7	2.1	6.0	25.0	0.16	0.62	0.24	19	0.33	0.066
1266455	Soil			1.11	14.70	20.60	85.1	26	32.3	11.9	385	3.89	13.0	0.6	2.0	3.7	15.6	0.11	0.51	0.31	44	0.18	0.033
1266456	Soil			0.62	13.80	23.50	62.7	55	22.6	8.4	586	4.06	12.0	1.9	1.9	4.6	19.5	0.14	0.37	0.27	27	0.35	0.043
1266457	Soil			0.60	27.33	35.55	73.5	19	29.7	19.9	588	4.08	7.0	0.5	0.5	4.2	6.3	0.07	0.25	0.37	29	0.04	0.023
1266458	Soil			0.49	27.33	28.30	102.6	39	28.9	15.0	522	3.77	9.1	0.5	1.8	4.5	20.3	0.09	0.37	0.36	25	0.33	0.036
1266459	Soil			0.45	47.04	15.68	28.3	148	16.5	7.0	1009	1.49	3.3	0.6	1.9	0.8	109.5	0.25	0.35	0.26	13	3.56	0.093
1266460	Soil			0.51	30.17	25.27	76.5	68	33.3	14.8	466	3.97	4.9	0.4	0.7	3.9	8.2	0.05	0.12	0.37	29	0.08	0.021
1266461	Soil			0.50	24.09	21.85	74.1	30	26.0	11.7	296	3.67	5.4	0.6	0.8	4.0	11.4	0.07	0.26	0.33	37	0.17	0.023
1266462	Soil			0.70	27.92	29.28	64.6	69	19.7	15.8	918	5.00	4.0	0.6	0.3	3.5	5.0	0.06	0.27	0.35	37	0.05	0.040
1266463	Soil			0.66	24.28	20.57	59.3	73	22.5	8.9	822	3.07	5.5	1.2	1.6	4.7	15.0	0.08	0.36	0.26	43	0.25	0.027
1266464	Soil			0.81	15.41	17.94	73.2	94	25.8	10.8	255	3.43	7.2	0.5	1.8	3.7	7.7	0.10	0.42	0.25	38	0.08	0.017
1266465	Soil			0.44	14.31	17.40	62.2	39	22.2	9.6	388	3.07	7.2	0.5	0.6	3.5	10.4	0.08	0.25	0.25	30	0.21	0.019
1266466	Soil			0.74	10.21	14.43	76.6	27	19.5	8.4	281	2.69	6.6	0.5	0.3	3.6	9.1	0.06	0.37	0.21	38	0.12	0.017
1266467	Soil			0.52	23.63	25.16	72.8	29	33.7	13.7	324	3.97	7.7	0.5	0.5	4.3	7.1	0.04	0.28	0.30	27	0.10	0.017
1266468	Soil			0.72	19.43	25.04	69.0	40	29.5	12.7	384	3.84	8.1	0.5	1.8	4.3	7.1	0.05	0.38	0.28	28	0.09	0.021
1266469	Soil			0.67	22.71	21.27	70.0	102	20.2	10.8	588	2.52	6.9	1.5	1.1	1.1	46.0	0.28	0.40	0.24	27	1.63	0.066
1266470	Soil			0.53	22.95	17.78	55.6	146	19.0	10.0	605	2.59	4.5	2.3	1.1	1.5	51.6	0.18	0.22	0.27	25	1.34	0.087
1266471	Soil			0.63	17.04	21.92	68.8	54	22.2	11.1	364	3.30	5.1	0.8	0.4	3.6	26.0	0.09	0.18	0.29	31	0.27	0.023
1266472	Soil			0.66	19.77	28.64	98.1	66	17.2	10.7	456	6.64	6.7	0.5	0.5	3.6	5.4	0.19	0.21	0.47	46	0.03	0.084
1266473	Soil			0.55	19.06	19.68	79.5	28	28.1	12.3	292	3.43	5.4	1.2	0.8	3.9	35.0	0.10	0.24	0.28	32	0.36	0.022
1267562	Soil			0.49	18.91	21.71	77.7	20	25.8	15.2	599	3.82	4.5	0.4	0.6	4.0	15.0	0.05	0.11	0.40	29	0.12	0.021
1267563	Soil			0.42	28.88	22.28	64.6	99	22.0	10.9	519	2.71	3.7	1.0	1.0	3.2	119.6	0.13	0.16	0.33	23	0.98	0.065



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1266396	Soil	4.6	36.8	0.60	84.4	0.002	<1	2.29	<0.001	0.06	<0.1	3.2	0.10	<0.02	24	<0.1	0.02	7.3	1.37	<0.1	0.03
1266397	Soil	4.8	39.4	0.70	95.6	0.002	1	2.33	0.002	0.07	<0.1	4.1	0.08	<0.02	21	<0.1	<0.02	7.3	1.19	<0.1	0.03
1266398	Soil	2.8	10.9	0.35	120.2	0.004	12	0.62	0.003	0.04	<0.1	1.1	0.03	0.23	92	0.7	<0.02	1.5	0.28	<0.1	0.05
1266399	Soil	14.0	21.9	0.40	69.5	0.001	2	1.57	<0.001	0.06	<0.1	6.2	0.09	<0.02	189	0.1	0.07	3.7	1.29	<0.1	0.04
1266400	Soil	17.4	23.7	1.29	70.5	0.001	2	1.43	0.002	0.06	<0.1	8.8	0.12	0.04	280	0.3	0.02	3.4	1.09	<0.1	0.07
1266451	Soil	8.7	20.8	0.42	163.6	0.007	3	1.17	0.002	0.06	<0.1	3.3	0.08	0.03	390	0.3	0.02	3.3	0.91	<0.1	0.03
1266452	Soil	5.8	14.3	1.62	61.6	0.002	5	0.80	0.005	0.07	<0.1	3.2	0.07	0.05	523	0.4	0.04	2.3	1.84	<0.1	0.05
1266453	Soil	6.2	19.8	1.32	61.5	0.002	3	1.00	0.004	0.08	<0.1	3.5	0.07	0.05	158	0.3	0.04	3.0	2.25	<0.1	0.05
1266454	Soil	31.3	25.5	0.36	157.4	0.002	2	1.72	<0.001	0.06	<0.1	8.0	0.10	0.03	232	0.3	0.05	2.6	1.31	<0.1	0.07
1266455	Soil	7.3	28.5	0.40	129.1	0.006	2	2.50	<0.001	0.07	0.1	2.5	0.14	<0.02	68	0.1	0.04	5.2	1.68	<0.1	0.04
1266456	Soil	11.5	26.3	0.43	109.8	0.001	2	1.96	<0.001	0.06	<0.1	4.9	0.12	<0.02	137	0.2	0.02	3.7	1.33	<0.1	0.04
1266457	Soil	5.5	32.0	0.49	145.4	0.002	<1	2.22	<0.001	0.12	<0.1	3.2	0.13	<0.02	164	<0.1	<0.02	6.8	1.91	<0.1	0.04
1266458	Soil	6.8	29.3	0.58	96.4	0.004	2	1.73	0.003	0.12	<0.1	4.1	0.10	<0.02	62	<0.1	<0.02	5.7	2.18	<0.1	0.07
1266459	Soil	3.0	16.3	0.24	683.3	0.004	5	1.01	0.003	0.07	<0.1	2.2	0.07	0.13	156	0.5	<0.02	2.6	1.48	<0.1	0.05
1266460	Soil	5.8	37.3	0.61	93.5	0.002	<1	2.09	0.004	0.10	<0.1	3.7	0.08	<0.02	21	<0.1	<0.02	7.2	1.66	<0.1	0.03
1266461	Soil	5.8	32.6	0.47	162.8	0.006	2	1.80	0.003	0.17	<0.1	3.2	0.13	<0.02	24	<0.1	<0.02	7.0	1.86	<0.1	0.03
1266462	Soil	3.1	31.0	0.33	190.4	0.004	1	1.90	0.002	0.15	<0.1	3.2	0.13	<0.02	25	<0.1	0.04	7.6	2.17	<0.1	0.03
1266463	Soil	12.3	30.5	0.45	245.5	0.010	2	1.92	0.004	0.10	0.1	4.4	0.14	<0.02	57	0.1	<0.02	5.6	1.45	<0.1	0.03
1266464	Soil	9.0	29.9	0.46	121.6	0.010	2	1.84	0.002	0.12	<0.1	2.5	0.12	<0.02	27	0.2	0.03	5.9	1.39	<0.1	<0.02
1266465	Soil	8.4	25.7	0.46	135.4	0.005	1	1.66	0.002	0.08	<0.1	2.7	0.10	<0.02	26	<0.1	<0.02	5.1	1.17	<0.1	0.03
1266466	Soil	11.2	25.6	0.46	114.4	0.016	1	1.53	0.003	0.08	<0.1	2.0	0.09	<0.02	24	<0.1	<0.02	4.8	1.05	<0.1	<0.02
1266467	Soil	6.8	30.5	0.57	103.2	0.003	1	2.07	<0.001	0.09	<0.1	3.1	0.09	<0.02	25	<0.1	<0.02	5.8	1.24	<0.1	0.03
1266468	Soil	7.6	30.4	0.48	98.7	0.005	1	1.83	0.002	0.09	<0.1	2.9	0.09	<0.02	23	0.1	0.03	5.3	1.39	<0.1	0.03
1266469	Soil	6.3	23.6	0.50	282.3	0.011	3	1.21	0.004	0.07	<0.1	2.1	0.07	0.07	60	0.3	0.03	4.1	1.05	<0.1	0.03
1266470	Soil	7.2	23.8	0.46	187.5	0.005	2	1.53	0.005	0.09	<0.1	2.9	0.08	0.07	61	0.4	0.03	4.9	1.09	<0.1	0.04
1266471	Soil	6.1	29.0	0.42	129.2	0.004	1	1.65	0.003	0.12	<0.1	3.0	0.09	<0.02	17	<0.1	0.03	5.8	1.19	<0.1	<0.02
1266472	Soil	4.1	40.4	0.29	69.8	0.002	<1	2.43	0.001	0.13	<0.1	2.9	0.13	<0.02	19	0.2	<0.02	10.6	1.71	<0.1	0.04
1266473	Soil	7.5	32.8	0.60	121.1	0.010	2	1.84	0.004	0.14	<0.1	3.3	0.10	<0.02	19	<0.1	<0.02	6.2	1.56	<0.1	0.03
1267562	Soil	5.9	32.9	0.49	107.7	0.004	<1	1.69	0.004	0.13	<0.1	2.9	0.10	<0.02	8	<0.1	<0.02	7.0	1.69	<0.1	0.02
1267563	Soil	9.2	28.2	0.51	210.0	0.004	4	1.66	0.006	0.17	<0.1	3.7	0.11	0.06	42	0.2	<0.02	5.9	2.50	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 7 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1266396	Soil			0.34	11.5	1.1	<0.05	0.9	2.77	10.8	0.05	<1	1.0	42.9	<10	<2
1266397	Soil			0.16	9.0	1.0	<0.05	1.2	3.94	12.4	0.04	<1	1.2	43.0	<10	<2
1266398	Soil			0.30	3.4	0.9	<0.05	1.8	4.52	6.6	<0.02	<1	0.4	8.6	<10	<2
1266399	Soil			0.12	9.1	0.6	<0.05	2.2	17.56	26.4	0.04	<1	1.0	34.3	<10	<2
1266400	Soil			0.19	7.9	1.1	<0.05	1.9	29.49	32.1	0.04	<1	1.2	27.4	<10	<2
1266451	Soil			0.44	8.1	0.4	<0.05	1.2	7.79	17.8	0.03	<1	0.8	26.3	<10	<2
1266452	Soil			0.11	5.3	0.8	<0.05	2.1	7.26	13.8	0.03	<1	0.7	29.9	<10	<2
1266453	Soil			0.13	5.6	1.8	<0.05	2.4	7.61	14.4	0.03	<1	0.7	39.3	<10	<2
1266454	Soil			0.19	8.1	1.2	<0.05	1.9	27.99	70.8	0.05	<1	1.3	22.8	<10	<2
1266455	Soil			0.83	12.5	1.0	<0.05	2.3	3.49	18.6	0.04	1	1.2	29.2	<10	<2
1266456	Soil			0.30	11.9	2.6	<0.05	1.4	10.27	25.3	0.04	<1	1.1	31.6	<10	<2
1266457	Soil			0.32	16.0	5.0	<0.05	1.7	3.46	13.9	0.04	<1	1.5	44.9	<10	<2
1266458	Soil			0.31	12.5	2.0	<0.05	2.1	5.93	18.1	0.04	<1	1.1	37.6	<10	<2
1266459	Soil			0.34	9.0	6.0	<0.05	1.8	7.11	7.1	0.03	<1	0.9	7.3	<10	<2
1266460	Soil			0.32	9.9	2.9	<0.05	1.4	4.84	14.9	0.03	<1	1.3	36.6	<10	<2
1266461	Soil			0.76	19.8	7.4	<0.05	1.2	3.86	12.6	0.03	<1	1.2	31.5	<10	<2
1266462	Soil			0.69	19.4	2.9	<0.05	1.5	2.73	7.1	0.03	<1	0.9	26.6	<10	<2
1266463	Soil			0.74	13.9	7.6	<0.05	0.9	11.90	24.3	0.04	<1	1.2	19.2	<10	<2
1266464	Soil			0.67	19.1	1.4	<0.05	1.1	2.71	18.3	0.03	<1	0.6	31.3	<10	<2
1266465	Soil			0.48	12.8	1.2	<0.05	1.3	3.80	17.2	0.03	<1	0.8	30.5	<10	<2
1266466	Soil			0.81	11.2	1.5	<0.05	1.1	2.88	21.9	0.03	<1	0.6	27.1	<10	<2
1266467	Soil			0.27	10.8	2.2	<0.05	1.8	3.45	16.5	0.03	<1	1.3	35.3	<10	<2
1266468	Soil			0.43	10.9	2.9	<0.05	1.9	3.93	19.1	0.03	<1	1.1	35.1	<10	<2
1266469	Soil			0.77	10.1	6.2	<0.05	0.9	4.31	15.2	0.02	<1	0.6	20.5	<10	<2
1266470	Soil			0.65	12.0	0.7	<0.05	1.2	9.44	16.2	0.02	<1	1.2	22.3	<10	<2
1266471	Soil			0.44	15.5	6.3	<0.05	0.9	4.03	13.3	0.02	<1	0.8	32.1	<10	<2
1266472	Soil			0.48	20.0	11.7	<0.05	1.7	2.85	9.5	0.05	<1	1.3	44.3	<10	<2
1266473	Soil			0.59	15.0	1.5	<0.05	1.6	4.82	16.8	0.03	<1	0.9	46.8	<10	<2
1267562	Soil			0.36	14.1	3.5	<0.05	1.5	4.31	13.6	0.03	<1	0.9	30.1	<10	<2
1267563	Soil			0.49	20.4	2.1	<0.05	1.8	12.88	19.4	0.03	<1	1.4	33.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 24, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
Unit	MDL	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1267564	Soil	0.43	24.91	24.83	87.0	34	29.9	13.6	348	4.00	4.4	0.6	3.1	4.7	38.8	0.11	0.22	0.55	35	0.24	0.024
1267565	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1267566	Soil	0.58	41.23	30.50	90.8	123	29.1	12.2	508	3.60	5.4	1.5	3.5	3.8	54.3	0.09	0.26	0.56	32	0.68	0.074
1267567	Soil	0.76	18.04	21.75	82.2	33	22.6	10.6	293	4.06	7.3	0.5	4.5	3.5	22.6	0.08	0.32	0.37	37	0.34	0.020
1267568	Soil	0.63	45.89	103.4	91.9	165	32.5	17.9	518	3.58	8.7	0.9	3.0	5.6	31.7	0.04	0.35	0.54	24	0.64	0.032
1267569	Soil	0.42	34.55	28.30	95.4	71	33.7	16.7	597	3.60	9.7	1.1	1.5	4.4	154.4	0.09	0.31	0.38	20	2.93	0.047
1267570	Soil	0.43	24.40	27.76	85.8	45	29.7	13.7	627	3.58	5.7	0.5	1.7	4.5	36.3	0.14	0.32	0.33	27	1.32	0.043
1267571	Soil	0.47	28.77	21.41	85.4	55	30.1	12.7	523	3.53	5.9	0.6	3.0	4.8	79.4	0.10	0.36	0.32	27	2.89	0.049
1267572	Soil	0.45	28.91	21.04	84.8	64	27.3	11.8	466	3.40	6.0	0.6	1.1	4.2	80.1	0.11	0.38	0.30	25	3.04	0.050
1267573	Soil	0.43	24.13	20.67	90.2	65	28.3	12.6	556	3.45	5.8	0.9	2.3	3.5	34.6	0.14	0.34	0.30	27	0.89	0.040
1267574	Soil	0.66	31.17	29.97	87.1	93	30.8	14.1	721	3.57	9.1	0.9	2.9	4.3	46.4	0.18	0.45	0.34	27	1.18	0.033
1267575	Soil	0.56	28.59	21.96	76.3	107	26.3	10.1	328	3.04	7.5	0.9	2.0	3.3	44.5	0.11	0.37	0.30	28	1.31	0.048
1267576	Soil	0.51	27.76	29.97	91.8	113	30.8	12.1	256	3.21	7.4	1.2	1.9	3.5	79.9	0.08	0.30	0.34	18	1.41	0.051
1267577	Soil	0.52	31.07	28.19	106.4	106	29.4	11.0	200	3.26	8.3	1.4	1.6	3.3	82.9	0.08	0.34	0.33	16	0.83	0.047
1267578	Soil	1.07	14.47	27.80	96.1	59	19.8	9.5	480	4.71	9.8	0.8	1.2	5.3	6.3	0.11	0.53	0.34	48	0.06	0.029
1267579	Soil	0.89	13.38	21.47	114.9	44	23.9	11.0	332	4.11	8.4	0.6	1.9	4.0	9.9	0.14	0.40	0.32	50	0.08	0.018
1267580	Soil	0.39	28.71	23.52	92.6	108	29.8	12.8	431	3.06	6.2	2.2	1.9	2.9	69.7	0.14	0.30	0.32	20	1.27	0.057
1267581	Soil	0.43	27.38	27.10	92.8	70	34.7	18.3	524	4.37	5.4	0.6	1.2	5.2	7.3	0.05	0.16	0.49	32	0.04	0.028
1267582	Soil	0.77	20.37	22.83	80.5	148	24.8	11.7	347	4.59	6.5	0.5	0.3	4.1	9.0	0.07	0.30	0.42	39	0.07	0.029
1267583	Soil	0.62	24.62	27.24	64.3	110	19.3	9.7	347	3.45	5.3	0.7	0.9	4.7	10.5	0.07	0.22	0.41	41	0.09	0.027
1267584	Soil	0.54	15.62	19.78	63.3	82	20.8	9.3	232	3.76	5.1	0.4	0.5	4.2	6.1	0.05	0.21	0.34	36	0.03	0.017
1267585	Soil	0.51	19.03	22.05	69.3	123	19.2	12.6	600	3.77	5.6	0.4	0.2	3.6	6.4	0.03	0.22	0.39	34	0.04	0.025
1267586	Soil	0.36	21.94	20.11	80.4	58	28.4	12.4	281	3.95	4.8	0.4	<0.2	4.1	6.4	0.05	0.18	0.37	30	0.02	0.018
1267587	Soil	0.40	16.46	18.75	71.3	90	21.7	10.1	278	3.71	4.7	0.4	<0.2	3.6	7.6	0.04	0.16	0.41	33	0.07	0.022
1267588	Soil	0.48	14.48	20.43	72.8	101	20.1	9.7	303	3.48	4.2	0.5	0.8	3.4	9.5	0.04	0.16	0.39	36	0.09	0.027
1267589	Soil	0.48	13.51	21.26	61.2	61	19.5	8.5	205	3.21	4.1	0.4	0.7	4.0	8.6	0.03	0.15	0.35	34	0.07	0.015
1267590	Soil	0.49	16.51	15.80	56.0	23	20.3	9.3	217	3.29	4.5	0.5	<0.2	3.8	8.5	0.04	0.15	0.38	33	0.07	0.013
1267591	Soil	0.61	50.13	27.01	80.1	225	35.4	12.4	421	3.42	4.5	2.2	3.1	4.8	88.6	0.10	0.18	0.46	29	1.06	0.055
1267592	Soil	0.32	24.38	15.58	68.5	41	29.3	11.1	218	3.21	3.7	0.6	0.7	5.1	23.3	0.05	0.09	0.37	30	0.18	0.017
1267593	Soil	0.56	11.59	16.93	62.2	51	14.5	8.7	243	3.36	4.7	0.4	<0.2	3.8	5.4	0.03	0.25	0.32	38	0.05	0.012



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 24, 2011

Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267564	Soil	8.2	38.6	0.65	162.8	0.005	3	1.90	0.002	0.12	<0.1	3.3	0.10	<0.02	18	<0.1	0.03	8.1	1.91	<0.1	0.03
1267565	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1267566	Soil	14.8	34.2	0.54	331.3	0.004	6	2.08	0.005	0.19	<0.1	4.9	0.16	0.06	48	0.2	0.02	7.2	3.42	<0.1	0.06
1267567	Soil	8.0	31.2	0.49	80.8	0.004	2	1.73	0.002	0.07	<0.1	2.4	0.10	<0.02	14	<0.1	0.03	6.6	1.25	<0.1	0.04
1267568	Soil	9.7	31.8	0.56	189.6	0.003	3	1.57	0.003	0.11	<0.1	4.5	0.13	0.03	57	0.2	0.03	5.9	2.35	<0.1	0.05
1267569	Soil	7.2	25.8	0.99	86.3	0.003	3	1.50	0.004	0.08	<0.1	4.3	0.07	0.03	37	0.3	0.02	4.5	2.05	<0.1	0.06
1267570	Soil	9.6	30.9	0.96	107.2	0.016	3	1.60	0.004	0.09	<0.1	3.4	0.06	<0.02	37	0.1	0.03	5.1	0.76	<0.1	0.07
1267571	Soil	9.5	30.9	1.10	128.4	0.016	3	1.68	0.005	0.10	<0.1	3.5	0.07	<0.02	53	0.2	<0.02	5.1	1.05	<0.1	0.07
1267572	Soil	8.7	29.1	1.08	131.6	0.016	3	1.63	0.004	0.09	<0.1	3.2	0.06	0.02	53	0.2	0.02	4.9	0.85	<0.1	0.07
1267573	Soil	8.9	29.9	0.64	129.5	0.015	3	1.52	0.003	0.07	<0.1	3.1	0.07	0.03	38	0.1	0.02	5.0	0.73	<0.1	0.07
1267574	Soil	12.6	29.4	0.84	136.2	0.006	3	1.53	0.005	0.09	<0.1	4.6	0.09	0.03	93	0.3	0.02	4.6	0.93	<0.1	0.08
1267575	Soil	12.8	28.8	0.90	160.7	0.005	3	1.52	0.004	0.08	<0.1	4.6	0.09	0.03	84	0.4	0.03	4.7	0.89	<0.1	0.06
1267576	Soil	7.0	22.1	0.66	83.4	0.002	5	1.25	0.004	0.08	<0.1	4.4	0.09	0.05	41	0.5	0.07	3.6	1.36	<0.1	0.09
1267577	Soil	5.5	19.5	0.47	95.2	0.002	5	1.14	0.003	0.08	<0.1	4.1	0.09	0.07	36	0.7	0.05	3.4	1.68	<0.1	0.09
1267578	Soil	10.4	30.7	0.32	82.3	0.007	2	1.97	<0.001	0.07	0.1	2.9	0.14	<0.02	165	0.1	0.05	6.7	1.30	<0.1	0.04
1267579	Soil	11.2	31.2	0.48	114.1	0.009	1	2.01	0.002	0.07	0.1	2.4	0.12	<0.02	26	0.1	0.03	7.1	1.25	<0.1	0.04
1267580	Soil	8.4	23.8	0.63	116.6	0.003	5	1.38	0.003	0.09	<0.1	4.0	0.09	0.06	54	0.7	0.05	4.3	1.04	<0.1	0.08
1267581	Soil	6.9	41.5	0.62	113.2	0.004	2	2.15	0.003	0.13	<0.1	3.8	0.13	<0.02	34	0.1	<0.02	8.0	2.63	<0.1	0.04
1267582	Soil	8.6	35.3	0.47	149.0	0.006	2	1.84	0.002	0.11	<0.1	2.8	0.11	<0.02	18	<0.1	0.03	7.6	2.09	<0.1	0.04
1267583	Soil	11.9	28.5	0.38	247.2	0.005	2	2.01	0.003	0.13	<0.1	3.0	0.15	<0.02	14	<0.1	<0.02	8.0	2.07	<0.1	0.03
1267584	Soil	7.7	30.8	0.41	92.0	0.006	2	1.76	0.002	0.11	<0.1	2.5	0.12	<0.02	15	0.1	<0.02	7.3	1.43	<0.1	0.05
1267585	Soil	4.8	28.5	0.30	120.7	0.003	1	1.93	0.002	0.12	<0.1	2.7	0.13	<0.02	27	<0.1	<0.02	7.7	1.02	<0.1	0.02
1267586	Soil	6.0	34.4	0.52	162.0	0.004	2	1.93	0.001	0.12	<0.1	3.2	0.10	<0.02	10	<0.1	0.03	7.8	1.14	<0.1	0.03
1267587	Soil	6.5	30.1	0.42	120.7	0.006	2	1.66	0.002	0.14	<0.1	2.7	0.09	<0.02	15	<0.1	0.04	7.6	1.31	<0.1	<0.02
1267588	Soil	6.7	31.8	0.41	156.1	0.005	2	1.83	0.003	0.16	<0.1	2.7	0.13	<0.02	27	<0.1	0.02	7.8	1.23	<0.1	0.02
1267589	Soil	7.2	28.5	0.39	154.9	0.006	3	1.60	0.003	0.12	<0.1	2.4	0.12	<0.02	12	<0.1	0.02	7.4	1.19	<0.1	0.03
1267590	Soil	5.7	29.0	0.38	191.8	0.006	1	1.53	0.002	0.11	<0.1	2.7	0.11	<0.02	13	<0.1	0.03	7.7	1.07	<0.1	0.03
1267591	Soil	14.2	38.6	0.57	348.6	0.006	7	2.05	0.007	0.24	<0.1	6.3	0.20	0.06	91	0.5	<0.02	6.7	3.54	<0.1	0.17
1267592	Soil	8.6	31.2	0.53	249.8	0.006	2	1.78	0.003	0.17	<0.1	3.3	0.13	<0.02	62	0.1	<0.02	6.8	1.20	<0.1	<0.02
1267593	Soil	8.1	26.1	0.28	98.9	0.005	1	1.77	0.002	0.10	<0.1	2.4	0.13	<0.02	11	<0.1	0.03	7.4	1.03	<0.1	0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 24, 2011

Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1267564	Soil	0.49	15.6	2.5	<0.05	1.4	6.40	19.1	0.06	<1	1.1	46.4	<10	<2
1267565	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1267566	Soil	0.56	24.9	3.4	<0.05	1.9	21.17	29.0	0.04	<1	2.2	32.0	<10	<2
1267567	Soil	0.59	13.0	1.7	<0.05	1.7	2.91	17.2	0.04	<1	0.7	38.5	<10	<2
1267568	Soil	0.44	12.8	5.2	<0.05	2.4	10.85	23.4	0.03	<1	1.5	32.8	<10	<2
1267569	Soil	0.13	7.0	0.9	<0.05	3.5	9.05	17.8	0.03	<1	0.9	46.2	<10	<2
1267570	Soil	1.96	7.1	9.3	<0.05	2.9	6.61	22.8	0.03	<1	0.8	32.8	<10	<2
1267571	Soil	1.30	7.8	1.3	<0.05	3.0	6.59	21.0	0.03	<1	0.8	32.7	<10	<2
1267572	Soil	1.62	6.7	1.8	<0.05	3.1	6.14	18.9	0.03	<1	0.8	30.6	<10	<2
1267573	Soil	1.77	7.4	1.0	<0.05	2.3	6.28	20.8	0.02	<1	0.7	30.8	<10	<2
1267574	Soil	0.55	8.2	4.9	<0.05	2.9	12.19	27.2	0.04	<1	0.9	35.1	<10	<2
1267575	Soil	0.58	8.1	1.9	<0.05	2.0	12.46	24.4	0.03	<1	0.8	39.2	<10	<2
1267576	Soil	0.25	8.4	3.4	<0.05	3.4	11.25	17.0	0.04	<1	1.0	39.6	<10	<2
1267577	Soil	0.23	7.8	1.5	<0.05	3.3	9.71	13.5	0.04	<1	1.0	39.6	<10	<2
1267578	Soil	1.01	14.8	2.9	<0.05	2.9	4.14	27.1	0.05	<1	0.9	29.9	<10	<2
1267579	Soil	0.92	14.7	1.6	<0.05	2.6	2.78	22.8	0.04	<1	0.6	39.4	<10	<2
1267580	Soil	0.39	9.1	1.9	<0.05	3.0	10.93	18.7	0.03	<1	0.9	35.0	<10	<2
1267581	Soil	0.44	16.3	4.4	<0.05	1.7	4.88	16.2	0.04	<1	1.4	42.1	<10	<2
1267582	Soil	0.65	16.3	2.7	<0.05	1.7	4.06	18.4	0.04	<1	0.8	38.0	<10	<2
1267583	Soil	0.79	24.1	1.8	<0.05	1.2	6.86	28.2	0.04	<1	1.7	29.7	<10	<2
1267584	Soil	0.46	19.0	2.8	<0.05	1.7	3.01	16.1	0.04	<1	0.6	30.5	<10	<2
1267585	Soil	0.39	19.4	3.0	<0.05	1.2	2.97	10.8	0.04	<1	0.6	28.3	<10	<2
1267586	Soil	0.34	16.3	1.7	<0.05	1.3	3.69	13.4	0.03	<1	0.9	36.8	<10	<2
1267587	Soil	0.51	19.0	2.1	<0.05	1.1	3.00	13.5	<0.02	<1	0.7	23.3	<10	<2
1267588	Soil	0.60	22.5	2.6	<0.05	0.8	3.40	14.8	0.03	<1	0.7	23.5	<10	<2
1267589	Soil	0.55	20.1	3.5	<0.05	1.4	3.25	15.0	0.02	<1	0.6	22.5	<10	<2
1267590	Soil	0.47	18.8	1.8	<0.05	1.4	3.98	12.4	0.03	<1	0.6	18.1	<10	<2
1267591	Soil	0.63	35.4	6.5	<0.05	1.9	29.20	22.0	0.05	<1	2.2	41.0	<10	<2
1267592	Soil	0.51	19.2	2.0	<0.05	0.9	5.68	18.5	0.03	<1	1.2	32.5	<10	<2
1267593	Soil	0.34	21.5	1.6	<0.05	1.4	2.62	15.7	0.03	<1	0.4	21.8	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 24, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
617020	Soil			0.71	28.27	22.01	93.8	75	30.0	12.5	315	4.62	5.9	0.5	1.9	4.3	6.0	0.05	0.32	0.37	40	0.03	0.032
617021	Soil			0.59	37.21	25.72	48.8	160	25.2	8.9	259	3.13	4.3	1.0	0.6	2.9	34.0	0.24	0.22	0.34	29	0.81	0.051
617022	Soil			0.61	16.14	19.41	70.5	191	20.6	10.7	483	3.84	5.5	0.5	0.3	4.2	7.8	0.09	0.26	0.32	41	0.07	0.025
617023	Soil			0.69	22.32	24.18	56.3	214	17.6	7.6	412	2.78	4.6	1.2	0.7	3.1	14.1	0.21	0.19	0.33	38	0.18	0.054
617024	Soil			0.58	28.06	25.39	84.2	65	29.5	13.9	588	3.83	6.5	1.2	0.7	4.6	27.5	0.10	0.25	0.35	34	0.47	0.034
617025	Soil			0.67	25.92	22.74	71.5	109	26.9	11.6	685	3.20	7.1	1.7	1.1	3.3	41.2	0.18	0.34	0.29	27	0.99	0.056
617026	Soil			0.57	17.62	21.47	65.5	31	27.7	12.4	336	3.38	7.9	0.6	2.7	4.6	8.3	0.12	0.45	0.32	33	0.06	0.018
617027	Soil			0.69	14.95	22.96	78.4	15	26.7	12.9	424	3.50	6.0	0.6	1.8	3.6	22.2	0.11	0.31	0.29	35	0.32	0.022
617028	Soil			0.66	39.63	28.05	76.7	80	30.1	17.0	847	3.59	11.1	1.3	2.3	4.2	78.8	0.18	0.40	0.35	28	2.06	0.054
617029	Soil			0.37	34.71	21.52	73.1	66	27.9	13.1	444	3.05	5.4	1.0	1.2	4.1	62.6	0.08	0.22	0.33	21	1.60	0.039
617030	Soil			0.52	23.49	21.97	83.4	78	28.7	14.6	456	3.35	4.8	0.8	0.8	4.0	20.7	0.10	0.20	0.36	27	0.29	0.038
617031	Soil			0.52	14.11	22.64	71.8	51	21.7	9.9	287	3.72	5.5	0.4	0.6	3.4	7.0	0.04	0.22	0.35	35	0.06	0.027
617032	Soil			0.75	12.17	21.23	65.4	110	19.6	10.5	272	3.96	6.1	0.4	0.7	4.0	7.7	0.04	0.37	0.34	39	0.05	0.023
617033	Soil			0.42	51.80	29.34	107.6	46	34.1	17.5	574	4.17	6.5	0.6	1.1	4.5	29.3	0.06	0.21	0.51	28	0.28	0.030
617034	Soil			0.52	60.79	33.58	88.2	51	40.8	20.9	369	4.74	5.0	0.4	1.2	3.2	10.3	0.04	0.24	0.45	31	0.11	0.025
617035	Soil			0.40	25.38	23.57	77.8	135	25.4	9.5	300	3.13	7.1	1.4	1.5	2.6	48.4	0.12	0.38	0.30	15	1.71	0.055
617036	Soil			0.42	22.67	20.77	86.4	112	21.0	9.6	370	2.81	5.8	1.1	1.4	2.5	69.8	0.08	0.31	0.28	14	2.79	0.056
617037	Soil			0.50	20.27	23.74	70.1	155	23.4	8.8	508	2.94	6.5	1.8	1.2	2.9	38.3	0.11	0.34	0.28	16	3.45	0.112
617038	Soil			0.62	24.82	24.36	107.3	108	29.9	12.7	605	3.62	4.1	1.4	1.1	3.6	61.7	0.18	0.13	0.32	25	0.81	0.044
617054	Soil			0.74	15.71	21.13	137.9	68	15.7	17.2	1288	3.73	4.2	0.4	0.7	3.0	8.7	0.25	0.30	0.37	47	0.07	0.042
617055	Soil			0.51	25.10	19.34	73.0	73	29.9	13.8	422	3.58	3.8	0.9	1.2	3.6	47.4	0.08	0.21	0.35	30	0.71	0.032
617056	Soil			0.61	25.33	23.33	71.7	69	26.3	14.5	458	3.73	6.0	0.7	0.8	4.5	13.8	0.10	0.31	0.37	37	0.17	0.025
617057	Soil			0.95	16.93	19.23	84.5	107	21.4	10.4	325	4.09	7.4	0.4	0.6	3.5	8.4	0.10	0.44	0.32	47	0.07	0.037
617058	Soil			0.48	26.41	24.71	80.9	74	30.0	16.7	673	3.62	6.0	0.9	0.5	4.4	22.6	0.10	0.25	0.35	28	0.39	0.040
617059	Soil			0.63	30.15	19.15	76.3	162	28.9	13.0	594	3.21	6.6	1.9	1.2	3.3	39.5	0.27	0.31	0.30	28	0.82	0.063
617060	Soil			0.91	14.63	18.43	78.6	40	25.2	11.7	402	3.58	8.6	0.6	0.8	4.1	9.8	0.14	0.42	0.28	45	0.08	0.031
617061	Soil			0.75	15.59	15.43	60.5	35	23.5	10.3	306	3.22	8.0	0.6	0.4	3.9	15.0	0.11	0.38	0.25	43	0.18	0.021
617062	Soil			0.71	23.98	27.75	81.4	80	29.4	13.7	644	3.76	7.5	1.1	1.0	4.5	30.0	0.25	0.37	0.33	28	0.66	0.066
617063	Soil			0.41	29.18	19.46	81.4	42	29.0	14.0	500	3.37	7.5	0.6	0.8	4.1	51.4	0.13	0.34	0.27	24	1.49	0.049
617064	Soil			0.70	34.74	28.90	99.7	105	37.0	16.7	580	3.69	5.5	0.9	2.7	4.6	43.2	0.14	0.20	0.36	27	0.57	0.049



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
617020	Soil	7.6	37.8	0.54	92.2	0.004	2	2.48	0.002	0.12	<0.1	3.8	0.13	<0.02	20	0.2	<0.02	8.0	1.73	<0.1	0.04
617021	Soil	9.9	30.5	0.38	131.5	0.002	2	1.74	0.005	0.09	<0.1	3.5	0.11	0.03	40	0.3	0.02	6.3	1.19	<0.1	0.03
617022	Soil	10.4	31.9	0.45	117.0	0.007	1	1.90	0.003	0.11	<0.1	2.7	0.12	<0.02	23	0.2	0.03	7.7	1.42	<0.1	0.03
617023	Soil	12.0	31.4	0.31	204.8	0.005	2	1.85	0.004	0.10	<0.1	3.1	0.12	0.03	30	0.2	0.03	6.7	1.42	<0.1	<0.02
617024	Soil	12.1	35.7	0.62	144.4	0.004	2	2.09	0.004	0.12	<0.1	4.4	0.11	<0.02	27	0.1	0.03	6.9	1.25	<0.1	0.04
617025	Soil	11.7	30.4	0.66	166.2	0.009	3	1.50	0.005	0.10	<0.1	3.7	0.09	0.05	72	0.4	0.03	4.8	0.88	<0.1	0.05
617026	Soil	11.1	30.8	0.52	132.2	0.012	2	1.95	0.002	0.06	<0.1	2.3	0.11	<0.02	23	0.1	0.03	5.4	1.40	<0.1	0.07
617027	Soil	9.8	36.5	0.68	134.4	0.010	2	1.85	0.001	0.07	<0.1	2.2	0.09	<0.02	21	0.2	0.04	5.9	1.00	<0.1	0.05
617028	Soil	13.5	30.8	1.08	122.6	0.004	4	1.73	0.002	0.08	<0.1	5.7	0.11	0.04	68	0.5	0.04	5.2	0.93	<0.1	0.09
617029	Soil	7.9	27.7	0.64	169.3	0.005	3	1.40	0.002	0.09	<0.1	4.0	0.08	0.04	49	0.4	<0.02	4.9	1.15	<0.1	0.10
617030	Soil	8.1	31.8	0.54	275.0	0.004	2	1.68	0.002	0.11	<0.1	3.3	0.09	<0.02	37	0.3	<0.02	6.2	1.05	<0.1	0.03
617031	Soil	7.4	29.4	0.42	137.1	0.006	2	1.77	0.001	0.12	<0.1	2.3	0.12	<0.02	18	0.1	<0.02	7.4	1.28	<0.1	0.02
617032	Soil	10.2	31.0	0.42	109.1	0.009	2	1.70	0.002	0.09	<0.1	2.1	0.11	<0.02	20	<0.1	0.02	7.2	1.34	<0.1	0.03
617033	Soil	6.4	36.9	0.62	130.0	0.007	2	1.82	0.005	0.11	<0.1	4.5	0.08	<0.02	41	0.4	<0.02	7.4	1.63	<0.1	0.06
617034	Soil	3.8	43.2	0.68	212.5	0.003	2	2.39	0.002	0.16	<0.1	5.1	0.14	<0.02	53	0.2	<0.02	8.7	2.51	<0.1	0.03
617035	Soil	7.0	19.1	0.88	89.2	0.002	4	1.04	0.003	0.10	<0.1	3.3	0.09	0.04	85	0.7	<0.02	3.1	1.16	<0.1	0.04
617036	Soil	5.5	19.0	1.43	116.8	0.003	7	1.05	0.006	0.11	<0.1	3.0	0.07	0.06	67	0.7	<0.02	2.9	1.07	<0.1	0.04
617037	Soil	9.3	20.4	2.01	109.2	0.002	3	1.29	0.004	0.11	<0.1	3.9	0.09	0.03	76	0.5	<0.02	3.2	1.45	<0.1	0.04
617038	Soil	7.2	33.8	0.63	157.6	0.003	4	1.82	0.007	0.12	<0.1	4.4	0.09	0.06	65	1.0	<0.02	5.9	1.19	<0.1	0.05
617054	Soil	9.0	29.1	0.24	127.5	0.005	1	1.74	0.004	0.15	<0.1	2.5	0.11	<0.02	24	0.1	0.03	8.6	1.37	<0.1	<0.02
617055	Soil	6.9	36.1	0.56	142.0	0.004	3	1.83	0.005	0.12	<0.1	4.1	0.08	0.03	26	0.4	<0.02	6.7	1.16	<0.1	0.06
617056	Soil	11.2	36.1	0.52	129.2	0.005	2	1.93	0.004	0.11	<0.1	3.9	0.11	<0.02	19	0.3	0.02	7.0	1.49	<0.1	0.03
617057	Soil	10.4	36.2	0.42	113.6	0.009	2	2.10	0.002	0.11	<0.1	3.0	0.12	<0.02	21	0.2	0.05	7.9	1.60	<0.1	0.04
617058	Soil	9.8	34.8	0.56	120.2	0.004	2	1.80	0.004	0.13	<0.1	4.5	0.08	0.02	59	0.4	<0.02	6.3	1.24	<0.1	0.04
617059	Soil	12.5	32.3	0.58	174.3	0.006	2	1.76	0.003	0.13	<0.1	4.3	0.09	0.04	57	0.6	0.03	5.3	1.18	<0.1	0.05
617060	Soil	12.3	33.3	0.46	111.8	0.013	2	1.96	0.002	0.08	<0.1	2.7	0.12	<0.02	30	0.2	0.05	6.2	1.36	<0.1	0.04
617061	Soil	12.4	32.4	0.52	132.6	0.017	2	1.76	0.002	0.07	<0.1	2.6	0.11	<0.02	15	0.2	<0.02	6.0	1.20	<0.1	<0.02
617062	Soil	12.5	33.6	0.70	113.1	0.007	2	1.62	0.003	0.12	<0.1	4.4	0.09	0.02	34	0.4	0.02	5.2	1.49	<0.1	0.04
617063	Soil	9.8	29.0	0.94	77.2	0.013	3	1.45	0.003	0.09	<0.1	4.2	0.06	0.02	43	0.3	0.03	4.7	0.88	<0.1	0.05
617064	Soil	10.0	39.9	0.61	217.6	0.003	2	2.02	0.003	0.15	<0.1	5.1	0.11	0.03	36	0.6	0.04	6.4	1.96	<0.1	0.07



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 9 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
617020	Soil	0.53	18.0	1.8	<0.05	2.2	3.47	16.0	0.04	<1	1.0	40.5	<10	<2
617021	Soil	0.52	14.5	2.9	<0.05	1.2	6.74	20.6	0.04	<1	1.0	18.9	<10	<2
617022	Soil	0.58	18.1	1.7	<0.05	1.3	3.00	20.4	0.04	<1	0.6	31.9	<10	<2
617023	Soil	0.72	14.7	6.0	<0.05	0.7	7.97	23.5	0.04	<1	0.7	17.9	<10	<2
617024	Soil	0.48	14.3	1.9	<0.05	1.5	8.53	24.6	0.04	<1	1.1	34.4	<10	<2
617025	Soil	0.81	10.2	2.8	<0.05	2.0	8.88	24.2	0.03	<1	0.8	28.1	<10	<2
617026	Soil	0.92	14.7	1.2	<0.05	3.7	3.30	24.9	0.06	1	0.9	37.3	<10	<2
617027	Soil	1.88	12.0	6.5	<0.05	2.7	3.00	22.6	0.02	<1	0.7	46.5	<10	<2
617028	Soil	0.88	8.5	3.9	<0.05	3.8	14.69	30.2	0.03	<1	1.3	38.7	<10	<2
617029	Soil	0.88	10.7	2.5	<0.05	3.7	9.04	18.9	0.02	<1	1.2	36.2	<10	<2
617030	Soil	0.63	14.0	2.4	<0.05	1.5	7.73	19.3	0.03	1	0.9	34.7	<10	<2
617031	Soil	0.66	19.1	3.9	<0.05	1.2	2.66	16.8	0.03	<1	0.7	31.2	<10	<2
617032	Soil	0.77	20.2	2.3	<0.05	1.5	2.79	21.5	<0.02	<1	0.6	30.9	<10	<2
617033	Soil	0.43	14.3	2.6	<0.05	1.5	7.51	16.5	0.04	1	1.3	43.5	<10	<2
617034	Soil	0.43	17.9	3.4	<0.05	1.3	4.22	10.7	0.04	<1	2.1	48.8	<10	<2
617035	Soil	0.22	9.6	1.9	<0.05	2.1	9.55	16.0	0.03	<1	1.0	20.3	<10	<2
617036	Soil	0.25	9.9	2.3	<0.05	2.0	7.79	13.2	0.02	<1	0.9	20.9	<10	<2
617037	Soil	0.20	10.9	4.7	<0.05	1.7	11.83	22.4	0.02	<1	1.0	21.7	<10	<2
617038	Soil	0.45	17.3	4.6	<0.05	1.6	9.90	16.9	0.03	<1	1.1	39.8	<10	<2
617054	Soil	0.63	25.9	5.8	<0.05	1.1	2.25	18.8	<0.02	<1	0.6	21.8	<10	<2
617055	Soil	0.58	13.3	2.8	<0.05	2.0	5.89	16.2	0.03	<1	0.9	42.2	<10	<2
617056	Soil	0.61	17.9	5.6	<0.05	2.3	6.42	24.3	<0.02	<1	1.1	30.7	<10	<2
617057	Soil	0.94	19.2	4.9	<0.05	1.5	2.78	21.0	0.02	<1	0.5	34.8	<10	<2
617058	Soil	0.46	13.5	3.9	<0.05	1.9	7.58	22.9	0.02	<1	1.1	31.4	<10	<2
617059	Soil	0.60	14.5	2.4	<0.05	2.1	11.37	25.8	0.03	<1	1.3	30.0	<10	<2
617060	Soil	1.13	15.9	2.6	<0.05	2.0	3.27	25.1	0.03	<1	0.7	36.4	<10	<2
617061	Soil	1.21	12.3	1.3	<0.05	1.7	3.40	25.9	0.02	<1	0.5	28.8	<10	<2
617062	Soil	0.73	13.1	4.0	<0.05	1.8	10.54	31.9	0.04	<1	1.2	33.6	<10	<2
617063	Soil	1.14	7.7	1.4	<0.05	2.6	7.78	21.3	0.02	<1	0.9	34.3	<10	<2
617064	Soil	0.59	17.5	7.8	<0.05	2.2	13.50	24.7	<0.02	<1	1.4	48.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 24, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
617065	Soil	0.38	25.20	18.67	75.0	19	29.5	14.4	351	3.68	6.1	0.5	0.7	5.0	8.2	0.05	0.24	0.31	29	0.05	0.022
617066	Soil	0.39	30.91	20.81	85.8	40	31.2	16.1	461	3.80	5.5	0.5	0.8	5.1	9.9	0.04	0.20	0.36	28	0.07	0.030
617067	Soil	0.57	13.94	12.72	70.9	30	29.5	12.0	192	3.41	4.3	0.4	0.3	4.1	8.8	0.03	0.18	0.26	32	0.07	0.017
617068	Soil	0.34	22.10	16.19	71.7	50	26.4	13.5	301	3.63	4.5	0.4	0.6	4.0	9.3	0.03	0.15	0.35	30	0.06	0.020
617069	Soil	0.59	19.89	20.19	87.7	127	21.6	9.1	332	2.96	6.1	1.1	1.1	3.0	70.1	0.09	0.27	0.27	14	2.70	0.069
617070	Soil	0.50	27.85	23.04	102.4	61	32.7	15.2	571	4.37	6.4	1.8	0.7	3.7	39.8	0.09	0.19	0.35	33	0.47	0.044
617071	Soil	0.45	25.39	22.85	87.2	156	24.7	11.1	669	3.58	8.7	1.8	1.6	2.9	32.2	0.20	0.46	0.27	16	1.97	0.062
1267451	Soil	0.37	13.36	12.12	65.7	33	18.8	11.1	242	3.58	3.9	0.5	0.4	3.2	6.1	0.03	0.17	0.36	37	0.05	0.022
1267452	Soil	0.49	13.22	13.03	64.3	30	20.9	11.2	302	3.88	4.9	0.6	1.7	3.7	10.1	0.03	0.18	0.37	40	0.11	0.018
1267453	Soil	0.40	21.47	17.36	83.8	81	28.6	15.2	382	4.14	7.0	0.6	0.6	3.7	10.5	0.05	0.21	0.39	35	0.11	0.026
1267454	Soil	0.60	37.59	24.10	69.5	68	28.0	17.1	394	4.72	9.2	0.6	0.7	4.3	4.6	0.03	0.26	0.45	34	0.02	0.023
1267455	Soil	0.57	23.04	21.80	86.5	69	23.3	13.5	287	3.99	6.3	0.5	0.3	4.0	7.7	0.03	0.26	0.43	34	0.02	0.027
1267456	Soil	0.65	18.58	17.78	88.2	154	24.5	11.5	319	3.86	5.4	0.5	3.4	3.6	4.8	0.05	0.26	0.41	33	0.03	0.022
1267457	Soil	0.74	12.23	17.55	76.7	130	17.5	7.6	288	3.19	7.0	0.5	1.4	1.9	6.8	0.14	0.37	0.34	47	0.05	0.030
1267458	Soil	0.52	27.02	20.49	92.2	102	23.5	11.0	230	3.28	4.7	0.4	1.1	3.5	8.8	0.07	0.19	0.38	30	0.06	0.027
1267459	Soil	0.67	17.33	19.54	45.6	218	15.7	5.8	198	2.54	4.8	0.6	0.9	1.7	9.6	0.10	0.21	0.32	33	0.09	0.036
1267460	Soil	0.40	7.79	12.38	93.7	36	9.0	6.0	362	3.00	2.4	0.3	0.4	2.8	3.5	0.06	0.19	0.31	36	0.02	0.018
1267461	Soil	0.94	15.50	19.16	86.5	180	17.6	8.6	551	3.77	7.4	0.5	0.3	2.2	7.9	0.10	0.42	0.32	41	0.05	0.055
1267462	Soil	0.51	4.44	17.22	91.4	30	19.1	9.7	161	3.49	3.2	0.7	0.4	3.1	7.6	0.06	0.18	0.28	34	0.06	0.033
1267463	Soil	0.42	21.63	17.37	71.7	36	27.0	12.1	195	3.69	4.3	0.6	1.0	4.1	3.9	0.03	0.14	0.32	29	0.02	0.014
1267464	Soil	0.70	13.54	18.44	64.0	87	20.7	9.6	470	3.38	6.2	0.5	0.8	3.8	8.1	0.05	0.28	0.30	36	0.07	0.024
1267465	Soil	0.55	27.84	20.03	84.4	77	29.9	13.6	449	4.20	4.5	0.7	0.4	3.6	26.7	0.03	0.11	0.43	32	0.15	0.030
1267466	Soil	0.47	25.49	19.59	72.0	44	21.0	14.5	509	4.70	7.2	0.6	0.3	2.9	11.9	0.05	0.20	0.51	37	0.07	0.044
1267467	Soil	0.38	17.10	15.88	61.5	29	19.3	9.3	254	3.57	4.9	0.6	0.4	3.7	9.1	0.02	0.16	0.33	38	0.07	0.012
1267468	Soil	0.55	66.81	23.75	68.4	249	24.6	10.1	910	2.84	7.7	5.0	1.5	2.0	186.0	0.21	0.20	0.35	23	1.32	0.081
1267629	Soil	0.54	22.14	24.78	110.1	133	21.1	18.6	979	4.32	5.3	0.6	0.7	3.8	5.2	0.15	0.28	0.39	36	0.04	0.048
1267630	Soil	1.01	17.43	16.08	106.0	28	22.5	11.4	391	4.99	9.6	0.5	1.0	4.3	6.0	0.13	0.62	0.41	47	0.04	0.036
1267631	Soil	0.87	21.76	28.34	99.7	32	26.7	14.7	501	4.53	9.5	0.6	1.2	4.7	5.6	0.11	0.55	0.41	39	0.03	0.035
1267632	Soil	1.67	16.05	23.41	128.3	56	18.6	10.9	509	5.71	10.0	0.6	0.3	2.5	9.0	0.19	0.86	0.45	60	0.08	0.084
1267633	Soil	0.61	18.50	24.47	150.0	166	16.3	16.1	1516	3.64	5.3	0.4	0.8	2.4	7.8	0.29	0.25	0.43	40	0.05	0.057



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
617065	Soil	9.0	33.7	0.57	94.7	0.008	2	1.75	0.002	0.10	<0.1	3.0	0.09	<0.02	12	0.2	0.02	6.2	1.37	<0.1	0.04
617066	Soil	7.5	35.8	0.57	158.2	0.008	2	1.81	0.002	0.12	<0.1	3.6	0.08	<0.02	21	0.3	<0.02	6.3	1.38	<0.1	0.04
617067	Soil	8.9	38.0	0.58	159.5	0.006	2	2.03	0.002	0.15	<0.1	2.9	0.11	<0.02	9	0.2	<0.02	6.9	1.54	<0.1	0.02
617068	Soil	6.4	33.7	0.47	150.6	0.005	1	1.87	0.002	0.14	<0.1	3.2	0.11	<0.02	15	0.2	0.02	7.4	1.34	<0.1	0.02
617069	Soil	6.3	22.1	1.42	100.7	0.002	5	1.06	0.006	0.11	<0.1	3.3	0.07	0.06	59	0.9	0.03	3.0	1.05	<0.1	0.07
617070	Soil	7.0	37.1	0.56	167.4	0.004	2	2.07	0.004	0.12	<0.1	4.1	0.08	0.02	50	0.4	<0.02	7.3	1.11	<0.1	0.04
617071	Soil	7.7	20.4	1.11	88.8	0.002	2	1.11	0.003	0.08	<0.1	3.5	0.07	0.04	96	0.5	<0.02	3.2	1.01	<0.1	0.06
1267451	Soil	4.1	32.2	0.34	144.1	0.008	2	1.76	0.004	0.17	<0.1	2.9	0.13	<0.02	29	0.1	<0.02	8.6	1.26	<0.1	0.03
1267452	Soil	5.8	37.3	0.40	119.8	0.009	1	1.69	0.005	0.15	0.1	3.1	0.12	<0.02	14	0.1	0.06	8.4	1.64	<0.1	0.04
1267453	Soil	4.4	37.2	0.49	220.3	0.007	2	2.00	0.003	0.13	0.1	3.4	0.09	<0.02	46	0.1	<0.02	7.3	1.33	<0.1	0.02
1267454	Soil	4.3	39.6	0.48	92.8	0.006	2	2.05	0.003	0.11	0.1	3.8	0.10	<0.02	43	<0.1	0.04	7.2	1.75	<0.1	0.04
1267455	Soil	5.9	33.8	0.38	123.8	0.006	1	1.85	0.003	0.14	<0.1	3.0	0.12	<0.02	22	0.2	0.03	7.6	1.74	<0.1	0.03
1267456	Soil	4.8	33.8	0.44	106.2	0.004	1	1.93	<0.001	0.11	<0.1	2.9	0.14	<0.02	31	<0.1	0.03	7.6	1.57	<0.1	0.03
1267457	Soil	10.1	29.1	0.42	119.4	0.011	2	1.55	0.002	0.10	0.2	1.9	0.12	<0.02	23	<0.1	0.06	6.4	1.06	<0.1	<0.02
1267458	Soil	5.1	34.8	0.46	189.9	0.003	2	1.88	<0.001	0.22	<0.1	2.7	0.17	<0.02	19	0.1	0.03	8.0	1.81	<0.1	0.03
1267459	Soil	8.1	23.6	0.26	159.9	0.005	<1	1.32	0.001	0.09	0.1	2.0	0.09	<0.02	22	<0.1	0.04	6.0	1.18	<0.1	<0.02
1267460	Soil	4.7	21.3	0.17	201.4	0.002	<1	1.74	<0.001	0.10	<0.1	2.1	0.16	<0.02	<5	<0.1	<0.02	7.8	0.98	<0.1	0.03
1267461	Soil	8.3	27.5	0.35	274.3	0.007	1	1.57	0.002	0.11	0.2	2.1	0.12	<0.02	24	0.1	0.03	6.6	1.34	<0.1	<0.02
1267462	Soil	2.9	33.6	0.39	349.2	0.007	1	1.60	0.003	0.20	0.2	2.3	0.17	<0.02	9	<0.1	<0.02	6.4	2.69	<0.1	0.03
1267463	Soil	3.6	34.3	0.52	233.9	0.008	2	1.93	<0.001	0.15	<0.1	3.0	0.17	<0.02	25	<0.1	0.04	7.2	2.34	<0.1	0.05
1267464	Soil	10.0	28.9	0.44	144.9	0.010	2	1.49	0.002	0.11	0.1	2.4	0.11	<0.02	15	<0.1	0.02	5.8	1.54	<0.1	<0.02
1267465	Soil	4.0	41.4	0.56	225.4	0.007	<1	2.05	0.004	0.19	0.1	3.8	0.14	<0.02	18	<0.1	0.06	9.1	4.03	<0.1	<0.02
1267466	Soil	3.0	35.4	0.42	151.7	0.005	1	1.85	0.003	0.15	0.3	3.4	0.11	<0.02	25	<0.1	<0.02	8.2	2.80	<0.1	0.03
1267467	Soil	7.3	30.6	0.43	349.1	0.008	<1	1.81	0.002	0.10	0.1	3.0	0.12	<0.02	11	<0.1	0.03	7.5	1.47	<0.1	0.04
1267468	Soil	6.6	23.7	0.52	523.7	0.003	4	1.61	0.008	0.11	0.1	4.2	0.09	0.08	79	0.7	<0.02	4.8	1.89	<0.1	0.05
1267629	Soil	5.2	31.4	0.37	157.8	0.004	<1	2.13	<0.001	0.15	<0.1	3.6	0.18	<0.02	47	0.2	0.04	8.0	2.66	<0.1	0.05
1267630	Soil	9.3	30.5	0.40	88.7	0.008	1	2.04	<0.001	0.09	<0.1	2.5	0.13	<0.02	40	0.2	0.02	8.3	1.83	<0.1	0.05
1267631	Soil	8.3	39.2	0.46	82.3	0.007	1	2.48	<0.001	0.09	<0.1	3.2	0.17	<0.02	73	0.3	0.03	7.3	1.93	<0.1	0.06
1267632	Soil	10.0	37.8	0.32	142.4	0.028	2	1.88	<0.001	0.12	0.2	2.6	0.16	0.03	37	0.2	0.06	9.2	2.29	0.1	<0.02
1267633	Soil	6.2	30.1	0.25	205.3	0.003	<1	1.80	0.002	0.16	<0.1	2.3	0.14	0.02	35	0.2	0.04	8.2	1.27	<0.1	0.02



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: October 24, 2011

Page: 10 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
617065	Soil	0.35	14.4	0.7	<0.05	2.7	3.83	20.1	0.03	<1	0.8	40.4	<10	<2
617066	Soil	0.36	13.9	1.3	<0.05	1.4	5.85	17.6	0.03	<1	1.0	35.3	<10	<2
617067	Soil	0.44	18.8	1.0	<0.05	1.2	3.11	18.5	<0.02	<1	0.8	44.2	<10	<2
617068	Soil	0.40	19.4	1.3	<0.05	1.3	4.32	15.0	<0.02	<1	0.9	31.0	<10	<2
617069	Soil	0.21	10.7	1.2	<0.05	2.4	8.60	14.1	0.02	<1	0.9	21.1	<10	<2
617070	Soil	0.46	14.7	1.7	<0.05	1.2	5.79	17.8	0.03	<1	1.2	44.2	<10	<2
617071	Soil	0.19	8.7	0.5	<0.05	2.1	9.65	16.1	0.03	<1	0.9	19.4	<10	<2
1267451	Soil	0.76	24.1	1.9	<0.05	1.2	2.60	9.0	<0.02	<1	0.4	16.1	<10	<2
1267452	Soil	0.77	26.8	1.8	<0.05	1.6	3.21	12.3	0.03	<1	0.5	16.6	<10	<2
1267453	Soil	0.52	19.6	2.7	<0.05	1.2	2.68	9.6	<0.02	<1	0.9	34.5	<10	<2
1267454	Soil	0.72	16.5	1.5	<0.05	2.1	3.18	9.3	0.03	<1	0.9	30.7	<10	<2
1267455	Soil	0.49	20.9	1.6	<0.05	1.2	3.58	13.3	0.02	<1	0.7	28.9	<10	<2
1267456	Soil	0.51	17.1	1.5	<0.05	1.5	3.10	10.6	0.06	<1	0.9	35.7	<10	<2
1267457	Soil	0.89	14.6	1.7	<0.05	0.2	2.19	19.6	0.02	<1	0.5	21.5	<10	<2
1267458	Soil	0.39	24.5	1.5	<0.05	0.9	2.46	12.0	0.02	<1	1.1	39.9	<10	<2
1267459	Soil	0.78	15.8	2.2	<0.05	0.3	5.12	18.1	0.02	<1	0.5	12.8	<10	<2
1267460	Soil	0.19	20.8	1.3	<0.05	1.5	1.82	9.6	0.03	<1	0.4	14.9	<10	<2
1267461	Soil	0.74	15.8	2.0	<0.05	0.3	2.27	16.7	0.02	<1	0.6	22.1	<10	<2
1267462	Soil	0.71	29.4	1.8	<0.05	0.6	2.07	6.1	0.02	<1	0.8	23.0	<10	<2
1267463	Soil	0.50	23.5	2.0	<0.05	1.8	3.35	9.1	0.03	1	1.3	34.3	<10	<2
1267464	Soil	0.72	16.5	1.3	<0.05	0.9	2.92	21.1	0.02	<1	0.6	25.0	<10	<2
1267465	Soil	0.64	23.1	3.5	<0.05	0.8	4.81	10.7	0.02	<1	1.6	36.4	<10	<2
1267466	Soil	0.74	17.6	2.3	<0.05	0.9	2.59	7.2	0.05	<1	0.9	23.7	<10	<2
1267467	Soil	0.59	17.1	1.5	<0.05	1.3	4.17	16.3	0.03	<1	1.0	21.6	<10	<2
1267468	Soil	0.65	16.6	0.7	<0.05	1.6	16.51	18.1	0.04	1	2.4	21.0	<10	<2
1267629	Soil	0.49	25.5	1.4	<0.05	2.0	4.16	13.2	0.03	<1	1.4	35.7	<10	<2
1267630	Soil	0.71	17.9	0.9	<0.05	2.7	2.73	19.4	0.04	1	0.8	37.4	<10	<2
1267631	Soil	0.77	16.2	1.3	<0.05	2.5	3.56	18.7	0.04	<1	0.9	39.7	<10	<2
1267632	Soil	1.30	20.1	2.0	<0.05	0.2	3.28	21.5	0.04	<1	0.8	26.9	<10	<2
1267633	Soil	0.57	24.2	1.3	<0.05	0.7	2.65	14.0	0.03	<1	0.8	26.4	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1267634	Soil			0.51	25.23	16.30	159.3	70	24.6	13.6	582	4.35	4.2	0.6	0.6	3.6	5.7	0.17	0.19	0.43	36	0.03	0.054
1267635	Soil			0.40	25.23	38.23	94.5	38	24.9	21.6	1351	4.15	6.4	0.5	0.4	3.2	8.1	0.20	0.21	0.41	34	0.06	0.054
1267636	Soil			0.54	27.78	39.83	100.0	93	23.5	16.5	1067	4.12	4.3	0.6	0.6	3.0	10.1	0.19	0.21	0.48	34	0.09	0.071
1267637	Soil			0.83	10.62	17.30	145.4	71	14.2	8.4	354	3.18	5.8	0.4	1.2	3.5	6.9	0.14	0.36	0.29	45	0.05	0.029
1267638	Soil			0.69	25.02	17.03	104.9	75	25.6	17.6	817	4.18	2.8	0.6	0.6	3.8	16.8	0.16	0.20	0.41	27	0.17	0.077
1267639	Soil			0.58	21.57	33.83	87.6	156	29.3	22.2	1034	3.46	5.7	1.0	1.3	5.7	12.3	0.04	0.23	0.44	31	0.10	0.030
1267640	Soil			0.42	20.87	24.03	103.4	69	27.9	15.0	508	3.91	4.4	0.5	<0.2	4.6	12.4	0.05	0.17	0.46	35	0.07	0.035
1267641	Soil			0.54	17.32	24.67	93.3	299	25.9	14.0	458	3.76	5.7	0.4	<0.2	4.9	7.9	0.07	0.17	0.40	35	0.04	0.026
1267642	Soil			0.46	20.18	16.65	71.4	198	27.1	13.9	346	3.79	4.1	0.5	<0.2	3.9	9.8	0.04	0.16	0.38	30	0.06	0.022
1267643	Soil			0.56	30.13	29.04	71.0	93	22.3	10.4	346	3.56	6.3	1.0	0.6	3.1	10.5	0.13	0.26	0.39	35	0.09	0.067
1267644	Soil			0.45	23.01	23.78	119.4	108	29.4	16.5	517	4.11	3.7	0.4	<0.2	3.3	15.6	0.04	0.10	0.41	35	0.17	0.035
1267645	Soil			0.79	10.43	17.37	100.2	103	16.2	8.4	367	3.39	5.7	0.4	0.6	3.3	7.4	0.06	0.31	0.31	45	0.05	0.023
1267646	Soil			0.64	9.61	15.13	87.7	162	15.1	8.8	522	3.03	4.8	0.4	0.5	3.1	7.6	0.08	0.25	0.28	43	0.07	0.024
1267647	Soil			0.40	12.53	15.52	103.1	115	18.4	12.8	458	3.10	2.8	0.3	<0.2	3.1	8.4	0.10	0.16	0.29	33	0.05	0.022
1267648	Soil			0.64	22.11	14.66	76.9	86	28.7	12.4	205	4.34	4.2	0.4	0.4	4.2	8.6	0.04	0.22	0.37	34	0.03	0.025
1267649	Soil			0.53	16.14	18.31	87.4	77	27.4	13.8	363	3.52	4.4	0.9	<0.2	3.7	43.6	0.06	0.13	0.35	30	0.54	0.025
1267650	Soil			0.40	13.11	17.50	77.0	22	27.5	14.3	198	3.67	4.1	0.5	<0.2	3.8	10.0	0.02	0.11	0.34	33	0.07	0.010
1267676	Soil			0.52	57.16	81.97	133.3	86	44.6	36.8	1800	5.10	7.7	0.7	1.2	5.3	36.0	0.11	0.17	0.53	31	0.25	0.031
1267677	Soil			0.68	42.21	50.39	117.5	89	34.4	26.5	1335	4.51	6.7	1.0	2.8	4.5	18.5	0.08	0.28	0.46	31	0.58	0.053
1267678	Soil			0.42	28.90	30.59	74.7	117	32.6	21.1	563	5.67	5.8	0.4	0.8	3.9	7.2	0.03	0.16	0.54	40	0.07	0.047
1267679	Soil			0.35	40.89	37.74	93.8	43	42.4	24.6	693	4.58	2.3	0.6	1.6	4.1	12.7	0.02	0.18	0.44	35	0.09	0.022
1267680	Soil			1.28	40.89	59.65	77.9	65	38.7	28.2	1176	4.41	9.4	0.8	1.4	4.2	28.0	0.06	0.42	0.50	29	0.21	0.031
1267681	Soil			0.49	27.70	27.19	87.5	37	25.4	14.2	436	5.15	5.5	0.5	0.9	4.5	8.1	0.05	0.23	0.46	36	0.04	0.027
1267682	Soil			0.63	24.14	23.58	83.4	26	27.7	14.5	396	3.97	5.4	0.5	0.8	4.8	7.1	0.05	0.28	0.45	31	0.03	0.017
1267683	Soil			0.25	26.90	63.83	84.1	36	29.7	15.3	1150	3.60	6.4	0.8	1.2	8.1	9.0	0.04	0.23	0.49	27	0.03	0.016
1267684	Soil			1.18	18.15	18.68	133.1	199	24.8	10.6	332	3.71	10.3	0.6	1.4	4.6	8.0	0.18	0.65	0.34	49	0.05	0.025
1267685	Soil			0.85	19.97	16.87	113.9	202	20.6	15.0	680	3.54	5.6	0.5	0.7	4.3	8.9	0.09	0.39	0.35	45	0.07	0.027
1267686	Soil			1.26	23.28	34.23	97.8	102	27.6	12.2	411	3.91	10.0	0.6	3.4	4.9	10.4	0.12	0.70	0.47	45	0.05	0.033
1267687	Soil			0.97	20.38	22.67	86.3	42	25.7	12.7	375	4.02	7.1	0.6	2.2	4.5	8.6	0.08	0.48	0.36	40	0.05	0.024
1267688	Soil			1.25	19.67	17.39	88.2	91	22.5	10.5	472	4.55	8.9	0.6	0.8	4.8	10.4	0.08	0.62	0.41	53	0.08	0.045



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267634	Soil	4.5	38.8	0.40	244.5	0.002	<1	2.53	<0.001	0.16	<0.1	3.2	0.17	<0.02	33	0.2	0.03	9.2	2.08	<0.1	0.05
1267635	Soil	5.8	37.0	0.38	131.2	0.003	<1	2.03	<0.001	0.15	<0.1	2.7	0.12	0.02	10	0.2	<0.02	7.7	2.14	<0.1	0.04
1267636	Soil	5.7	35.4	0.36	168.9	0.003	1	1.92	<0.001	0.17	<0.1	2.7	0.11	0.03	34	0.3	<0.02	8.1	1.50	<0.1	0.03
1267637	Soil	10.0	26.7	0.32	161.8	0.004	<1	1.89	<0.001	0.11	<0.1	2.0	0.16	<0.02	14	<0.1	0.02	7.5	1.29	<0.1	0.02
1267638	Soil	6.6	35.4	0.48	273.9	0.008	2	2.08	<0.001	0.25	<0.1	3.2	0.19	0.04	20	<0.1	0.06	6.8	4.56	<0.1	0.03
1267639	Soil	8.4	35.9	0.50	167.1	0.003	<1	1.86	<0.001	0.19	<0.1	4.4	0.19	<0.02	20	0.1	<0.02	7.2	2.45	<0.1	0.04
1267640	Soil	6.1	36.0	0.47	246.9	0.004	2	2.17	<0.001	0.27	<0.1	3.5	0.22	<0.02	17	0.1	<0.02	8.1	1.88	<0.1	0.04
1267641	Soil	6.1	36.5	0.49	126.3	0.002	<1	2.39	<0.001	0.16	<0.1	3.0	0.16	<0.02	26	0.1	0.02	8.9	2.06	<0.1	0.08
1267642	Soil	5.5	34.4	0.50	107.2	0.004	<1	1.91	<0.001	0.13	<0.1	3.1	0.12	<0.02	18	<0.1	0.03	7.1	1.76	<0.1	0.02
1267643	Soil	9.2	30.3	0.36	184.4	0.007	<1	1.98	0.003	0.14	0.1	3.7	0.15	0.03	19	<0.1	0.03	7.0	2.73	<0.1	0.03
1267644	Soil	5.7	41.1	0.58	130.8	0.002	<1	2.38	0.003	0.20	<0.1	3.4	0.10	<0.02	8	<0.1	<0.02	8.0	1.70	<0.1	0.03
1267645	Soil	9.8	27.7	0.39	139.5	0.011	<1	1.64	0.001	0.10	<0.1	2.3	0.14	<0.02	13	<0.1	0.04	7.2	1.20	<0.1	<0.02
1267646	Soil	9.0	26.9	0.36	151.7	0.008	<1	1.82	<0.001	0.10	<0.1	2.2	0.14	<0.02	12	<0.1	<0.02	6.8	1.27	<0.1	0.03
1267647	Soil	5.7	26.9	0.38	282.6	0.003	1	1.79	<0.001	0.22	<0.1	2.3	0.14	<0.02	15	<0.1	0.02	7.0	1.41	<0.1	0.03
1267648	Soil	6.4	39.1	0.51	134.1	0.004	1	2.10	0.001	0.19	<0.1	2.9	0.15	<0.02	16	<0.1	<0.02	8.1	2.79	0.1	0.04
1267649	Soil	7.2	35.7	0.58	296.6	0.004	2	2.01	0.003	0.16	<0.1	3.2	0.11	<0.02	5	<0.1	<0.02	7.7	1.65	<0.1	0.03
1267650	Soil	4.2	34.6	0.56	113.8	0.010	<1	1.89	0.002	0.16	0.1	3.1	0.16	<0.02	11	<0.1	<0.02	8.1	1.48	<0.1	0.06
1267676	Soil	9.8	41.1	0.71	175.7	0.003	<1	2.17	0.007	0.12	<0.1	5.8	0.17	0.04	31	<0.1	<0.02	7.7	4.05	<0.1	0.04
1267677	Soil	7.8	44.9	0.57	161.2	0.003	6	2.18	0.006	0.11	<0.1	5.4	0.12	0.03	60	0.5	0.03	7.6	4.00	<0.1	0.04
1267678	Soil	5.6	51.1	0.60	100.1	0.002	2	2.53	0.004	0.11	<0.1	4.0	0.09	<0.02	28	0.4	0.04	9.3	3.61	<0.1	0.03
1267679	Soil	3.9	44.9	0.77	300.7	0.007	3	2.39	0.004	0.18	<0.1	4.6	0.15	<0.02	11	0.2	<0.02	8.1	3.69	<0.1	0.04
1267680	Soil	4.9	38.8	0.67	237.1	0.004	3	2.21	0.004	0.14	<0.1	4.4	0.13	<0.02	18	0.2	<0.02	7.6	3.56	<0.1	0.04
1267681	Soil	5.7	40.6	0.48	95.7	0.002	2	2.24	0.002	0.10	<0.1	3.4	0.11	<0.02	29	0.3	<0.02	8.4	2.07	<0.1	0.07
1267682	Soil	7.0	32.6	0.42	137.7	0.003	2	1.92	0.001	0.10	<0.1	3.1	0.11	<0.02	12	0.3	<0.02	6.9	1.62	<0.1	0.04
1267683	Soil	10.3	36.9	0.51	175.0	0.002	2	2.02	0.001	0.12	<0.1	4.5	0.13	<0.02	27	0.2	<0.02	7.4	2.47	<0.1	0.05
1267684	Soil	10.1	34.8	0.47	122.3	0.014	3	2.14	0.002	0.09	0.1	3.0	0.14	<0.02	23	0.4	0.02	6.3	1.47	<0.1	0.05
1267685	Soil	10.2	34.0	0.41	178.8	0.005	3	2.15	0.001	0.12	<0.1	2.8	0.12	<0.02	16	0.3	0.04	7.5	1.26	<0.1	0.03
1267686	Soil	9.7	35.3	0.48	99.4	0.009	3	2.08	0.001	0.14	0.1	2.8	0.13	<0.02	30	0.4	0.05	6.4	1.77	<0.1	0.04
1267687	Soil	9.4	33.1	0.50	103.9	0.008	3	2.02	0.002	0.14	<0.1	2.8	0.13	<0.02	23	0.3	0.03	6.6	1.93	<0.1	0.03
1267688	Soil	11.6	37.0	0.47	161.5	0.008	3	2.13	0.001	0.15	0.1	3.0	0.13	<0.02	34	0.5	0.05	8.3	1.53	<0.1	0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 24, 2011

Page: 11 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1267634	Soil	0.49	27.8	1.6	<0.05	2.0	2.98	10.1	0.03	<1	1.3	47.7	<10	<2
1267635	Soil	0.39	20.2	1.4	<0.05	1.4	3.77	14.6	0.03	<1	1.5	36.5	<10	<2
1267636	Soil	0.47	16.1	1.7	<0.05	1.2	3.92	13.4	0.04	2	1.1	35.7	<10	<2
1267637	Soil	0.56	23.5	1.8	<0.05	1.2	2.02	20.7	<0.02	<1	0.7	31.1	<10	<2
1267638	Soil	0.53	33.5	2.6	<0.05	1.4	4.22	15.5	0.04	2	2.2	32.9	<10	<2
1267639	Soil	0.31	20.8	2.9	<0.05	1.7	7.73	33.2	0.04	<1	1.5	35.0	<10	<2
1267640	Soil	0.42	27.6	1.6	<0.05	1.6	4.98	14.2	0.06	<1	1.3	43.4	<10	<2
1267641	Soil	0.31	23.3	2.8	<0.05	2.2	3.29	14.4	<0.02	<1	1.1	47.7	<10	<2
1267642	Soil	0.49	17.4	1.4	<0.05	1.3	3.47	12.7	0.03	<1	0.8	41.3	<10	<2
1267643	Soil	0.72	23.7	2.1	<0.05	0.8	6.61	22.3	0.04	<1	1.1	21.8	<10	<2
1267644	Soil	0.26	18.8	2.3	<0.05	1.0	3.26	13.0	0.03	<1	1.3	42.0	<10	<2
1267645	Soil	0.74	17.8	4.3	<0.05	0.8	2.27	19.5	0.02	1	0.3	25.1	<10	<2
1267646	Soil	0.72	19.4	1.2	<0.05	0.9	1.97	18.8	0.03	<1	0.4	32.1	<10	<2
1267647	Soil	0.32	25.7	2.8	<0.05	1.3	2.82	12.1	<0.02	<1	0.8	26.9	<10	<2
1267648	Soil	0.52	23.5	2.1	<0.05	1.7	2.68	14.3	0.03	<1	1.0	42.1	<10	<2
1267649	Soil	0.57	21.3	2.5	<0.05	1.3	5.96	15.6	0.03	1	1.3	47.1	<10	<2
1267650	Soil	0.64	22.9	1.4	<0.05	1.6	2.79	9.9	<0.02	<1	0.7	31.2	<10	<2
1267676	Soil	0.13	14.6	1.7	<0.05	2.0	12.13	30.9	0.06	<1	1.4	41.1	<10	<2
1267677	Soil	0.39	17.5	1.6	<0.05	1.7	13.04	23.2	0.06	<1	1.7	44.6	<10	<2
1267678	Soil	0.33	16.4	1.5	<0.05	1.0	4.33	18.0	0.07	<1	1.9	54.9	<10	<2
1267679	Soil	0.50	22.9	2.8	<0.05	1.3	4.99	14.2	0.05	<1	1.6	52.3	<10	<2
1267680	Soil	0.36	18.8	2.0	<0.05	1.3	5.38	18.8	0.04	<1	1.9	51.0	<10	<2
1267681	Soil	0.33	15.6	1.8	<0.05	2.6	4.54	13.7	0.04	<1	1.2	40.4	<10	<2
1267682	Soil	0.28	17.4	1.1	<0.05	2.4	4.22	16.7	0.03	3	1.1	35.2	<10	<2
1267683	Soil	0.09	17.7	1.8	<0.05	1.6	9.56	29.1	0.03	<1	1.7	37.9	<10	<2
1267684	Soil	0.63	16.0	0.9	<0.05	2.9	3.02	21.1	0.03	<1	0.7	32.3	<10	<2
1267685	Soil	0.45	19.4	2.4	<0.05	1.4	3.06	22.7	0.03	<1	0.8	33.0	<10	<2
1267686	Soil	0.75	15.9	1.8	<0.05	1.4	3.55	23.1	0.03	<1	0.8	35.4	<10	<2
1267687	Soil	0.49	19.4	2.2	<0.05	1.2	3.49	20.5	0.03	<1	1.3	36.8	<10	<2
1267688	Soil	0.84	19.9	1.3	<0.05	1.6	3.12	24.1	0.04	<1	0.7	42.9	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1267689	Soil	0.51	27.69	27.67	86.9	108	28.4	14.0	348	4.27	5.8	0.5	0.7	4.6	12.2	0.04	0.25	0.48	30	0.09	0.028	
1267690	Soil	0.39	26.01	29.11	80.4	31	32.6	16.5	544	3.95	5.7	0.5	0.8	5.2	13.8	0.02	0.23	0.47	28	0.11	0.019	
1267691	Soil	0.74	17.53	20.09	71.2	42	24.7	10.6	367	3.45	6.9	0.7	3.0	4.9	9.3	0.09	0.41	0.31	38	0.08	0.028	
1267692	Soil	1.16	16.49	24.35	93.2	122	27.0	10.1	450	4.42	10.2	0.8	1.0	4.8	8.6	0.11	0.47	0.39	53	0.06	0.038	
1267693	Soil	0.57	21.22	20.91	75.2	58	30.2	13.7	286	4.69	5.2	0.5	1.4	4.4	6.8	0.03	0.21	0.39	39	0.03	0.018	
1267694	Soil	0.51	22.12	21.52	72.0	195	27.9	12.6	246	4.03	5.5	0.4	1.3	4.1	6.0	0.03	0.22	0.37	31	0.03	0.020	
1267695	Soil	0.79	18.45	13.14	96.8	155	22.0	10.6	316	5.02	5.6	0.4	3.3	2.9	8.5	0.08	0.42	0.45	39	0.07	0.046	
1267696	Soil	0.60	16.31	15.94	73.8	49	20.8	10.1	264	3.91	5.0	0.5	0.5	4.5	7.6	0.04	0.27	0.37	38	0.03	0.017	
1267697	Soil	0.52	23.78	19.04	83.2	50	30.7	14.2	331	4.23	6.3	0.5	0.9	4.7	6.5	0.04	0.25	0.65	37	0.02	0.018	
1267698	Soil	0.49	12.93	15.37	83.7	41	21.8	11.1	275	4.01	4.6	0.5	1.1	3.6	6.2	0.06	0.23	0.37	39	0.04	0.017	
1267699	Soil	0.80	15.46	20.35	84.5	41	20.7	11.7	364	3.76	7.5	0.5	1.0	4.1	7.5	0.07	0.41	0.37	50	0.05	0.019	
1267700	Soil	0.62	12.02	17.95	78.1	58	18.9	8.3	301	3.64	6.1	0.6	0.4	4.4	7.4	0.06	0.30	0.31	47	0.06	0.022	
1267751	Soil	0.85	20.03	17.84	100.9	307	25.5	13.8	488	4.12	5.3	0.7	0.9	3.2	7.9	0.17	0.46	0.40	43	0.05	0.060	
1267752	Soil	1.00	28.58	16.45	95.6	110	34.0	14.5	429	5.04	6.5	0.6	1.3	4.9	9.6	0.11	0.48	0.75	47	0.06	0.041	
1267753	Soil	0.27	15.85	25.39	108.1	35	26.3	18.1	1037	4.45	2.9	0.9	0.6	3.7	8.4	0.16	0.29	0.35	38	0.08	0.053	
1267754	Soil	0.50	16.63	18.52	151.8	108	23.7	14.5	1034	3.44	2.8	0.3	0.6	2.5	7.9	0.16	0.21	0.33	37	0.06	0.064	
1267755	Soil	0.61	14.20	21.40	90.7	69	13.7	17.5	796	3.85	5.8	0.6	0.5	3.4	6.6	0.09	0.33	0.40	48	0.05	0.049	
1267756	Soil	0.70	20.80	17.65	187.1	50	23.0	13.2	395	3.77	5.9	0.8	0.7	4.7	6.6	0.16	0.36	0.37	45	0.04	0.029	
1267757	Soil	0.88	22.27	26.33	111.9	115	19.5	10.0	486	4.89	7.6	0.6	0.6	3.4	6.5	0.17	0.38	0.46	45	0.04	0.063	
1267758	Soil	0.80	20.53	21.95	140.9	208	20.6	17.2	884	4.74	5.9	0.7	0.8	3.6	5.2	0.23	0.26	0.46	42	0.02	0.065	



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1267689	Soil	5.6	35.5	0.50	104.5	0.003	2	2.08	0.001	0.16	<0.1	3.0	0.12	<0.02	19	0.2	0.03	7.7	2.41	<0.1	0.04
1267690	Soil	6.2	35.9	0.56	129.7	0.005	1	1.85	0.002	0.12	<0.1	3.2	0.10	<0.02	19	0.2	0.04	7.2	2.04	<0.1	0.04
1267691	Soil	12.4	32.8	0.54	180.3	0.010	2	1.78	0.003	0.09	0.1	3.0	0.10	<0.02	24	0.2	0.03	6.1	2.30	<0.1	<0.02
1267692	Soil	10.2	37.9	0.46	151.5	0.010	2	2.45	0.002	0.10	0.2	3.2	0.15	<0.02	37	0.3	0.06	7.8	2.87	<0.1	<0.02
1267693	Soil	5.4	39.8	0.55	123.9	0.003	2	2.71	<0.001	0.13	<0.1	3.4	0.16	<0.02	13	0.2	<0.02	8.4	2.32	<0.1	0.07
1267694	Soil	5.4	34.2	0.51	90.5	0.004	2	2.08	0.001	0.12	<0.1	3.0	0.12	<0.02	18	0.2	<0.02	7.1	2.00	<0.1	0.04
1267695	Soil	6.6	36.9	0.41	221.9	0.005	1	2.04	0.003	0.16	<0.1	2.8	0.12	<0.02	27	0.3	<0.02	9.0	1.90	<0.1	0.02
1267696	Soil	7.9	32.5	0.44	126.8	0.008	2	1.87	0.003	0.14	<0.1	3.0	0.15	<0.02	12	0.1	0.03	8.6	2.03	<0.1	0.03
1267697	Soil	5.6	41.6	0.56	142.9	0.007	2	2.44	0.002	0.14	<0.1	3.4	0.17	<0.02	11	0.2	<0.02	8.9	2.56	<0.1	0.04
1267698	Soil	6.2	33.2	0.45	135.1	0.005	1	2.12	0.002	0.13	<0.1	2.9	0.17	<0.02	23	0.3	0.05	8.5	1.99	<0.1	0.04
1267699	Soil	10.0	34.3	0.46	261.4	0.007	2	2.25	0.002	0.08	0.1	2.8	0.17	<0.02	13	0.3	0.06	7.5	1.83	<0.1	0.04
1267700	Soil	11.4	31.8	0.47	154.8	0.010	2	2.03	0.002	0.09	0.1	2.6	0.16	<0.02	16	0.3	0.02	7.2	1.81	<0.1	0.03
1267751	Soil	7.3	38.5	0.46	180.2	0.008	2	2.05	0.003	0.20	<0.1	2.8	0.17	0.02	28	0.3	0.03	8.3	2.29	<0.1	0.04
1267752	Soil	7.7	43.9	0.61	172.7	0.015	3	2.56	0.003	0.22	0.1	3.9	0.20	<0.02	32	0.4	0.03	10.0	5.36	<0.1	0.05
1267753	Soil	3.2	39.7	0.48	280.0	0.009	3	1.93	0.004	0.19	0.2	3.1	0.16	0.02	33	0.2	0.03	7.9	2.84	<0.1	0.05
1267754	Soil	7.2	29.9	0.39	499.6	0.003	<1	2.37	0.003	0.18	<0.1	2.8	0.16	<0.02	19	0.4	0.05	8.7	1.65	<0.1	0.05
1267755	Soil	7.4	29.8	0.25	157.4	0.006	<1	1.91	0.003	0.12	0.1	2.9	0.15	<0.02	7	0.3	0.05	8.4	1.71	<0.1	0.02
1267756	Soil	8.3	36.0	0.44	174.5	0.007	1	2.12	0.003	0.10	0.2	3.4	0.14	<0.02	22	0.3	0.04	8.1	2.43	<0.1	0.04
1267757	Soil	6.3	36.0	0.30	176.1	0.004	<1	2.06	0.002	0.13	0.1	2.9	0.11	<0.02	32	0.2	0.03	8.5	1.60	<0.1	0.04
1267758	Soil	5.2	36.3	0.28	189.7	0.003	<1	2.38	0.003	0.13	<0.1	3.2	0.12	0.02	44	0.4	0.05	8.9	1.58	<0.1	0.04



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 12 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001352.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1267689	Soil	0.32	18.9	1.8	<0.05	1.7	3.97	13.1	0.03	<1	1.2	43.7	<10	<2
1267690	Soil	0.31	14.5	1.1	<0.05	1.8	4.30	17.4	0.03	<1	1.5	39.1	<10	<2
1267691	Soil	0.59	15.1	1.1	<0.05	0.8	4.99	27.1	0.03	<1	1.0	32.8	<10	<2
1267692	Soil	1.14	18.9	1.5	<0.05	1.9	3.70	24.7	0.04	<1	1.1	42.0	<10	<2
1267693	Soil	0.21	25.0	1.8	<0.05	2.2	3.88	12.4	0.02	<1	1.1	64.0	<10	<2
1267694	Soil	0.30	17.4	1.1	<0.05	1.5	3.35	12.2	0.03	<1	1.1	40.6	<10	<2
1267695	Soil	0.74	24.1	1.5	<0.05	1.0	2.32	13.7	0.03	<1	1.2	37.2	<10	<2
1267696	Soil	0.61	28.0	1.6	<0.05	2.0	3.29	17.1	0.03	<1	0.6	23.1	<10	<2
1267697	Soil	0.37	23.5	1.7	<0.05	2.2	3.72	13.0	0.02	<1	1.1	39.6	<10	<2
1267698	Soil	0.45	26.5	1.6	<0.05	1.5	2.91	13.1	0.04	<1	0.8	38.2	<10	<2
1267699	Soil	0.63	20.6	1.7	<0.05	1.9	2.41	20.7	0.04	<1	0.9	42.9	<10	<2
1267700	Soil	0.92	21.0	1.3	<0.05	1.5	2.94	23.6	0.03	<1	0.5	35.5	<10	<2
1267751	Soil	0.86	26.7	1.8	<0.05	1.2	3.35	16.0	0.04	<1	0.9	30.3	<10	<2
1267752	Soil	1.11	29.1	2.8	<0.05	2.2	4.16	18.3	0.04	<1	1.2	41.0	<10	<2
1267753	Soil	0.87	27.3	3.2	<0.05	1.7	2.83	7.7	0.04	<1	1.3	25.2	<10	<2
1267754	Soil	0.53	28.3	1.3	<0.05	1.6	2.91	14.9	0.03	<1	1.0	34.3	<10	<2
1267755	Soil	0.60	23.7	1.8	<0.05	0.8	2.61	15.7	0.03	<1	0.7	19.3	<10	<2
1267756	Soil	0.68	22.0	1.8	<0.05	1.6	3.51	17.8	0.04	<1	1.2	33.3	<10	<2
1267757	Soil	0.94	24.5	1.6	<0.05	1.9	2.53	13.3	0.04	<1	0.8	28.8	<10	<2
1267758	Soil	0.67	24.0	1.6	<0.05	1.6	2.71	11.7	0.05	<1	1.6	35.9	<10	<2



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: October 24, 2011

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

WHI11001352.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
617010	Soil	0.68	14.31	16.69	54.5	14	19.1	8.1	318	3.01	5.4	0.4	1.3	3.4	8.5	0.05	0.20	0.28	35	0.09	0.018
REP 617010	QC	0.69	14.76	17.27	57.2	12	19.5	8.4	324	3.13	5.6	0.4	2.0	3.7	9.2	0.06	0.20	0.29	36	0.10	0.019
617681	Soil	0.95	21.98	42.28	93.0	79	27.8	15.9	891	4.30	7.3	0.5	0.7	4.1	12.7	0.16	0.28	0.38	30	0.24	0.039
REP 617681	QC	0.99	21.67	40.84	95.2	64	27.8	15.9	880	4.22	7.1	0.5	0.6	3.7	12.2	0.16	0.24	0.35	29	0.23	0.037
617695	Soil	0.51	39.56	30.91	117.6	106	30.9	15.4	725	4.05	7.0	1.0	4.8	4.0	53.4	0.14	0.23	0.53	25	0.49	0.053
REP 617695	QC	0.56	39.78	31.44	114.9	105	31.7	15.6	752	4.06	7.2	1.0	3.3	4.0	55.0	0.15	0.21	0.55	25	0.50	0.055
1267807	Soil	0.64	39.69	31.35	89.3	84	30.2	16.6	328	4.09	9.0	0.6	<0.2	4.2	7.9	0.05	0.27	0.51	30	0.03	0.022
REP 1267807	QC	0.59	38.92	30.29	84.9	86	29.4	16.7	330	4.09	8.6	0.6	0.2	4.1	8.2	0.05	0.27	0.49	30	0.03	0.022
1267823	Soil	0.43	19.25	18.74	93.2	76	21.6	9.5	352	2.82	5.6	1.8	1.6	2.1	109.2	0.14	0.23	0.29	24	1.24	0.050
REP 1267823	QC	0.42	18.48	18.53	92.8	68	21.2	9.2	346	2.79	5.8	1.9	0.6	2.0	107.5	0.14	0.23	0.29	24	1.21	0.049
1267840	Soil	0.42	12.06	14.91	115.8	87	16.9	10.6	638	3.26	2.5	0.6	0.4	3.0	11.6	0.18	0.16	0.34	36	0.04	0.024
REP 1267840	QC	0.47	12.90	15.84	118.6	87	17.0	10.8	651	3.38	2.9	0.6	<0.2	3.1	12.8	0.18	0.18	0.38	38	0.05	0.023
1267849	Soil	0.45	24.54	22.95	90.9	54	25.7	13.2	804	3.35	4.4	0.9	1.2	3.4	31.3	0.05	0.18	0.35	22	2.09	0.028
REP 1267849	QC	0.46	23.46	22.27	85.9	51	25.0	12.8	785	3.19	4.2	0.9	1.1	3.3	31.5	0.05	0.18	0.34	22	2.02	0.027
1266382	Soil	0.69	36.45	187.5	112.9	91	45.0	55.0	4640	4.25	4.7	0.9	2.1	5.6	22.6	0.08	0.21	0.46	21	0.23	0.033
REP 1266382	QC	0.74	38.74	202.3	124.3	90	48.9	59.9	4736	4.57	5.1	1.0	1.5	6.4	25.1	0.10	0.28	0.52	23	0.25	0.038
1266396	Soil	0.29	22.22	17.84	68.4	23	31.2	11.2	200	4.28	5.4	0.3	0.4	2.8	5.9	0.04	0.13	0.34	32	0.03	0.016
REP 1266396	QC	0.30	23.01	19.75	72.7	30	33.2	12.0	210	4.67	5.8	0.3	0.7	3.0	6.3	0.03	0.16	0.36	34	0.04	0.017
1266470	Soil	0.53	22.95	17.78	55.6	146	19.0	10.0	605	2.59	4.5	2.3	1.1	1.5	51.6	0.18	0.22	0.27	25	1.34	0.087
REP 1266470	QC	0.58	23.10	18.19	56.8	145	18.9	10.1	638	2.66	5.0	2.3	1.3	1.7	53.2	0.17	0.22	0.27	25	1.39	0.087
1267569	Soil	0.42	34.55	28.30	95.4	71	33.7	16.7	597	3.60	9.7	1.1	1.5	4.4	154.4	0.09	0.31	0.38	20	2.93	0.047
REP 1267569	QC	0.41	34.69	28.39	92.3	67	32.8	16.4	595	3.62	9.3	1.1	1.5	4.5	147.0	0.08	0.32	0.37	20	2.90	0.045
1267583	Soil	0.62	24.62	27.24	64.3	110	19.3	9.7	347	3.45	5.3	0.7	0.9	4.7	10.5	0.07	0.22	0.41	41	0.09	0.027
REP 1267583	QC	0.58	24.15	27.34	64.3	117	19.5	9.8	348	3.40	5.0	0.6	0.6	4.7	10.4	0.06	0.23	0.41	41	0.09	0.027
617031	Soil	0.52	14.11	22.64	71.8	51	21.7	9.9	287	3.72	5.5	0.4	0.6	3.4	7.0	0.04	0.22	0.35	35	0.06	0.027
REP 617031	QC	0.50	13.88	22.04	69.4	50	21.1	9.8	287	3.65	5.1	0.4	0.7	3.5	6.9	0.05	0.21	0.34	35	0.06	0.027
617063	Soil	0.41	29.18	19.46	81.4	42	29.0	14.0	500	3.37	7.5	0.6	0.8	4.1	51.4	0.13	0.34	0.27	24	1.49	0.049
REP 617063	QC	0.40	28.09	18.37	79.7	41	29.0	13.6	483	3.32	7.3	0.6	0.9	3.9	49.3	0.11	0.33	0.27	24	1.46	0.047

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 Vancouver BC V6C 2G8 Canada

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Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI11001352.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
617010	Soil	9.2	29.4	0.37	74.6	0.012	2	1.19	0.003	0.10	<0.1	2.3	0.08	<0.02	14	<0.1	0.03	5.5	0.77	<0.1	<0.02
REP 617010	QC	10.1	29.7	0.39	77.3	0.013	2	1.27	0.004	0.10	<0.1	2.3	0.09	<0.02	20	0.2	<0.02	5.6	0.89	<0.1	<0.02
617681	Soil	7.2	28.0	0.25	136.4	0.002	2	1.56	0.002	0.15	<0.1	3.3	0.10	0.02	23	0.2	0.03	5.0	0.68	<0.1	<0.02
REP 617681	QC	7.1	27.9	0.26	133.4	0.001	2	1.49	0.001	0.14	<0.1	2.9	0.09	<0.02	19	0.2	0.02	4.9	0.58	<0.1	<0.02
617695	Soil	7.7	33.8	0.47	220.3	0.003	3	1.74	0.004	0.10	<0.1	4.6	0.10	<0.02	67	0.3	0.02	5.6	1.09	<0.1	0.05
REP 617695	QC	8.0	36.0	0.49	224.3	0.003	2	1.76	0.005	0.10	<0.1	4.7	0.11	0.03	59	0.3	0.03	5.6	1.25	<0.1	0.07
1267807	Soil	5.5	36.9	0.45	61.2	0.004	<1	1.85	0.002	0.09	<0.1	3.6	0.11	<0.02	23	0.1	0.02	6.9	1.59	<0.1	0.06
REP 1267807	QC	5.6	37.5	0.44	62.1	0.004	1	1.88	0.002	0.09	<0.1	3.6	0.11	<0.02	13	0.2	<0.02	6.8	1.63	<0.1	0.04
1267823	Soil	7.8	25.3	0.47	141.5	0.004	6	1.42	0.006	0.10	<0.1	3.6	0.07	0.05	33	0.8	<0.02	4.2	0.63	<0.1	0.05
REP 1267823	QC	7.1	24.8	0.46	131.6	0.004	5	1.41	0.006	0.10	<0.1	3.3	0.07	0.05	42	0.9	0.05	4.0	0.64	<0.1	0.05
1267840	Soil	6.5	31.0	0.33	236.2	0.006	3	1.88	0.007	0.16	<0.1	2.7	0.15	0.04	17	<0.1	0.04	7.8	1.44	<0.1	0.02
REP 1267840	QC	6.6	31.4	0.34	271.0	0.006	2	1.93	0.008	0.17	<0.1	3.0	0.16	<0.02	8	0.2	<0.02	7.7	1.58	<0.1	0.02
1267849	Soil	4.1	29.2	1.28	229.4	0.003	3	1.55	0.003	0.12	<0.1	3.3	0.09	<0.02	39	0.1	0.02	5.6	1.63	<0.1	0.05
REP 1267849	QC	4.2	28.2	1.23	220.2	0.004	3	1.48	0.003	0.12	<0.1	3.2	0.10	<0.02	35	0.2	0.03	5.2	1.62	<0.1	0.05
1266382	Soil	11.7	34.8	0.46	250.4	0.002	1	2.07	0.003	0.14	<0.1	6.0	0.32	<0.02	37	<0.1	<0.02	6.9	5.00	<0.1	0.06
REP 1266382	QC	13.3	38.6	0.54	265.6	0.004	2	2.28	0.004	0.17	<0.1	6.4	0.36	<0.02	39	0.2	<0.02	7.9	7.12	<0.1	0.05
1266396	Soil	4.6	36.8	0.60	84.4	0.002	<1	2.29	<0.001	0.06	<0.1	3.2	0.10	<0.02	24	<0.1	0.02	7.3	1.37	<0.1	0.03
REP 1266396	QC	4.6	40.2	0.65	87.6	0.002	1	2.42	<0.001	0.07	<0.1	3.3	0.10	<0.02	76	<0.1	<0.02	7.6	1.43	<0.1	0.03
1266470	Soil	7.2	23.8	0.46	187.5	0.005	2	1.53	0.005	0.09	<0.1	2.9	0.08	0.07	61	0.4	0.03	4.9	1.09	<0.1	0.04
REP 1266470	QC	6.9	24.5	0.46	193.9	0.004	1	1.50	0.005	0.09	<0.1	2.9	0.08	0.07	68	0.3	<0.02	4.9	1.00	<0.1	0.05
1267569	Soil	7.2	25.8	0.99	86.3	0.003	3	1.50	0.004	0.08	<0.1	4.3	0.07	0.03	37	0.3	0.02	4.5	2.05	<0.1	0.06
REP 1267569	QC	7.5	25.6	1.02	87.2	0.003	3	1.54	0.004	0.08	<0.1	4.3	0.08	0.04	33	0.4	0.04	4.5	2.03	<0.1	0.06
1267583	Soil	11.9	28.5	0.38	247.2	0.005	2	2.01	0.003	0.13	<0.1	3.0	0.15	<0.02	14	<0.1	<0.02	8.0	2.07	<0.1	0.03
REP 1267583	QC	12.0	28.1	0.38	247.8	0.005	2	1.98	0.003	0.12	<0.1	2.9	0.15	<0.02	21	<0.1	0.03	8.0	2.05	<0.1	0.03
617031	Soil	7.4	29.4	0.42	137.1	0.006	2	1.77	0.001	0.12	<0.1	2.3	0.12	<0.02	18	0.1	<0.02	7.4	1.28	<0.1	0.02
REP 617031	QC	7.5	29.9	0.41	137.7	0.006	3	1.75	0.002	0.12	<0.1	2.3	0.11	<0.02	15	0.2	<0.02	7.0	1.32	<0.1	<0.02
617063	Soil	9.8	29.0	0.94	77.2	0.013	3	1.45	0.003	0.09	<0.1	4.2	0.06	0.02	43	0.3	0.03	4.7	0.88	<0.1	0.05
REP 617063	QC	9.4	28.3	0.91	74.8	0.012	3	1.42	0.003	0.09	<0.1	4.2	0.06	0.02	40	0.5	0.03	4.6	0.85	<0.1	0.07

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 1 of 2 Part 3

QUALITY CONTROL REPORT

WHI11001352.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
617010	Soil	0.79	11.7	2.9	<0.05	0.7	3.11	19.3	0.04	<1	0.3	17.7	<10	<2
REP 617010	QC	0.82	12.3	2.8	<0.05	0.7	3.21	20.9	<0.02	<1	0.4	20.1	<10	<2
617681	Soil	0.31	13.7	13.1	<0.05	0.8	3.40	18.0	0.04	<1	1.0	27.3	<10	<2
REP 617681	QC	0.28	12.5	11.4	<0.05	0.8	3.41	17.3	0.03	<1	0.9	25.2	<10	<2
617695	Soil	0.43	11.4	4.3	<0.05	1.6	13.22	18.6	0.06	2	1.3	33.5	<10	<2
REP 617695	QC	0.45	12.2	4.8	<0.05	1.7	13.40	18.8	0.05	1	1.3	34.6	<10	<2
1267807	Soil	0.20	13.1	2.0	<0.05	1.9	4.38	12.3	0.06	<1	1.2	37.6	<10	<2
REP 1267807	QC	0.20	13.2	1.9	<0.05	1.6	4.45	12.5	0.05	<1	1.0	36.2	<10	<2
1267823	Soil	0.52	13.0	1.3	<0.05	1.5	7.93	16.7	0.03	<1	1.2	33.4	<10	<2
REP 1267823	QC	0.61	13.0	1.2	<0.05	1.5	7.77	15.6	0.03	<1	1.1	34.5	<10	<2
1267840	Soil	0.57	26.7	1.6	<0.05	0.9	2.10	13.0	0.03	<1	0.6	32.9	<10	<2
REP 1267840	QC	0.70	29.7	1.7	<0.05	0.9	2.21	14.3	0.03	<1	0.8	36.0	<10	<2
1267849	Soil	0.51	12.9	3.8	<0.05	2.2	5.12	11.7	0.03	<1	0.9	26.9	<10	<2
REP 1267849	QC	0.51	12.9	3.4	<0.05	1.9	5.08	11.9	0.03	<1	0.9	26.6	<10	<2
1266382	Soil	0.15	15.9	11.4	<0.05	1.7	22.40	46.9	0.05	<1	1.9	46.3	<10	<2
REP 1266382	QC	0.22	20.1	12.6	<0.05	1.5	24.80	51.5	0.06	<1	2.1	51.8	<10	<2
1266396	Soil	0.34	11.5	1.1	<0.05	0.9	2.77	10.8	0.05	<1	1.0	42.9	<10	<2
REP 1266396	QC	0.31	12.1	1.2	<0.05	1.2	2.93	10.9	0.04	<1	1.0	46.5	<10	<2
1266470	Soil	0.65	12.0	0.7	<0.05	1.2	9.44	16.2	0.02	<1	1.2	22.3	<10	<2
REP 1266470	QC	0.62	10.9	0.7	<0.05	1.4	9.52	15.8	0.03	<1	1.2	21.8	<10	<2
1267569	Soil	0.13	7.0	0.9	<0.05	3.5	9.05	17.8	0.03	<1	0.9	46.2	<10	<2
REP 1267569	QC	0.16	7.1	1.0	<0.05	3.3	8.93	18.2	0.04	<1	1.0	44.8	<10	<2
1267583	Soil	0.79	24.1	1.8	<0.05	1.2	6.86	28.2	0.04	<1	1.7	29.7	<10	<2
REP 1267583	QC	0.74	23.9	2.0	<0.05	1.2	6.69	29.2	0.03	<1	1.6	28.9	<10	<2
617031	Soil	0.66	19.1	3.9	<0.05	1.2	2.66	16.8	0.03	<1	0.7	31.2	<10	<2
REP 617031	QC	0.66	19.2	3.9	<0.05	1.2	2.74	17.5	<0.02	<1	0.7	30.8	<10	<2
617063	Soil	1.14	7.7	1.4	<0.05	2.6	7.78	21.3	0.02	<1	0.9	34.3	<10	<2
REP 617063	QC	1.11	7.6	1.3	<0.05	2.5	7.82	20.6	<0.02	<1	0.8	32.6	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI11001352.1

		1F15 Mo ppm	1F15 Cu ppm	1F15 Pb ppm	1F15 Zn ppm	1F15 Ag ppb	1F15 Ni ppm	1F15 Co ppm	1F15 Mn ppm	1F15 Fe %	1F15 As ppm	1F15 U ppm	1F15 Au ppb	1F15 Th ppm	1F15 Sr ppm	1F15 Cd ppm	1F15 Sb ppm	1F15 Bi ppm	1F15 V ppm	1F15 Ca %	1F15 P %
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1267463	Soil	0.42	21.63	17.37	71.7	36	27.0	12.1	195	3.69	4.3	0.6	1.0	4.1	3.9	0.03	0.14	0.32	29	0.02	0.014
REP 1267463	QC	0.44	22.10	18.85	75.3	37	27.7	12.7	207	3.72	4.5	0.6	0.6	4.5	4.1	0.02	0.14	0.33	29	0.01	0.015
1267643	Soil	0.56	30.13	29.04	71.0	93	22.3	10.4	346	3.56	6.3	1.0	0.6	3.1	10.5	0.13	0.26	0.39	35	0.09	0.067
REP 1267643	QC	0.58	30.06	29.04	70.8	83	21.6	10.4	350	3.45	6.1	1.0	0.6	2.7	9.9	0.08	0.25	0.37	34	0.09	0.065
1267692	Soil	1.16	16.49	24.35	93.2	122	27.0	10.1	450	4.42	10.2	0.8	1.0	4.8	8.6	0.11	0.47	0.39	53	0.06	0.038
REP 1267692	QC	1.19	17.22	24.05	93.4	130	27.8	11.1	479	4.44	10.3	0.8	1.7	4.8	9.0	0.15	0.51	0.39	54	0.08	0.041
Reference Materials																					
STD DS8	Standard	13.60	108.5	127.2	320.0	1771	38.9	7.8	656	2.60	25.0	2.8	108.4	7.1	72.7	2.36	5.77	6.32	43	0.75	0.083
STD DS8	Standard	13.56	105.5	125.1	317.7	1706	37.7	7.8	615	2.50	23.3	2.8	106.2	6.8	66.3	2.35	5.51	6.33	42	0.73	0.078
STD DS8	Standard	13.96	114.4	114.9	312.3	1785	40.8	8.5	656	2.63	25.6	2.8	102.6	7.1	71.3	2.32	5.47	6.31	44	0.77	0.093
STD DS8	Standard	14.12	114.5	134.0	329.5	1842	40.3	7.7	632	2.59	25.4	3.2	114.0	7.7	69.2	2.41	5.77	7.08	44	0.75	0.084
STD DS8	Standard	12.74	100.0	117.8	297.2	1693	37.4	7.1	589	2.40	23.1	2.5	105.5	6.7	60.3	2.11	4.96	5.48	40	0.69	0.075
STD DS8	Standard	13.36	104.0	122.4	299.1	1697	38.0	7.0	585	2.36	23.9	2.8	105.5	6.8	62.6	2.22	4.98	6.14	39	0.71	0.079
STD DS8	Standard	13.11	103.6	122.1	308.0	1716	38.0	7.6	634	2.43	24.2	2.7	118.4	7.0	64.7	2.27	5.29	6.18	41	0.71	0.083
STD DS8	Standard	11.12	118.3	113.2	316.3	1926	35.9	7.8	546	2.40	26.6	2.8	115.3	6.7	55.2	2.46	5.75	7.24	40	0.65	0.086
STD DS8	Standard	13.96	108.5	142.9	312.4	1826	37.0	7.7	625	2.56	26.6	3.3	115.8	7.8	79.2	2.50	5.98	7.64	43	0.77	0.087
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI11001352.1

		1F15 La ppm	1F15 Cr ppm	1F15 Mg %	1F15 Ba ppm	1F15 Ti %	1F15 B ppm	1F15 Al %	1F15 Na %	1F15 K %	1F15 W ppm	1F15 Sc ppm	1F15 Ti ppm	1F15 S %	1F15 Hg ppb	1F15 Se ppm	1F15 Te ppm	1F15 Ga ppm	1F15 Cs ppm	1F15 Ge ppm	1F15 Hf ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1267463	Soil	3.6	34.3	0.52	233.9	0.008	2	1.93	<0.001	0.15	<0.1	3.0	0.17	<0.02	25	<0.1	0.04	7.2	2.34	<0.1	0.05
REP 1267463	QC	3.9	36.0	0.53	245.9	0.008	2	1.94	<0.001	0.15	<0.1	3.3	0.19	<0.02	21	<0.1	<0.02	7.8	2.36	<0.1	0.05
1267643	Soil	9.2	30.3	0.36	184.4	0.007	<1	1.98	0.003	0.14	0.1	3.7	0.15	0.03	19	<0.1	0.03	7.0	2.73	<0.1	0.03
REP 1267643	QC	8.2	29.8	0.37	173.0	0.004	<1	1.90	0.003	0.12	0.1	3.2	0.13	0.03	41	0.1	0.04	6.3	1.93	<0.1	0.04
1267692	Soil	10.2	37.9	0.46	151.5	0.010	2	2.45	0.002	0.10	0.2	3.2	0.15	<0.02	37	0.3	0.06	7.8	2.87	<0.1	<0.02
REP 1267692	QC	10.8	40.8	0.50	160.2	0.011	1	2.46	0.002	0.11	0.2	3.3	0.16	<0.02	41	0.3	0.03	7.8	2.84	<0.1	0.04
Reference Materials																					
STD DS8	Standard	16.7	129.0	0.64	304.9	0.122	2	1.02	0.116	0.45	3.1	2.6	5.57	0.16	206	5.4	5.17	5.0	2.53	0.2	0.08
STD DS8	Standard	16.4	120.2	0.62	276.3	0.118	2	0.98	0.101	0.43	3.1	2.2	5.46	0.16	207	5.0	4.73	4.7	2.42	0.2	0.08
STD DS8	Standard	17.1	127.6	0.65	267.5	0.137	3	1.02	0.109	0.45	2.7	2.7	4.84	0.16	179	5.4	4.65	5.0	2.42	0.2	0.08
STD DS8	Standard	17.6	128.4	0.64	290.5	0.123	3	1.02	0.110	0.45	3.1	2.5	5.76	0.17	189	5.6	5.43	5.0	2.68	<0.1	0.08
STD DS8	Standard	14.6	116.5	0.60	262.1	0.108	2	0.89	0.086	0.39	2.7	2.3	5.22	0.16	193	4.8	5.14	4.6	2.34	0.1	0.08
STD DS8	Standard	15.5	114.4	0.60	272.9	0.109	2	0.89	0.086	0.39	2.9	2.0	5.30	0.16	189	5.1	5.01	4.5	2.42	<0.1	0.08
STD DS8	Standard	15.5	118.0	0.61	270.4	0.112	2	0.92	0.086	0.42	2.8	2.2	5.29	0.16	189	5.1	5.01	4.7	2.43	<0.1	0.08
STD DS8	Standard	12.3	110.0	0.60	237.8	0.098	3	0.86	0.083	0.40	2.8	2.0	5.39	0.17	205	5.0	4.67	4.4	2.31	0.1	0.05
STD DS8	Standard	17.0	124.2	0.63	281.9	0.134	3	1.09	0.128	0.47	3.1	2.4	6.13	0.17	214	5.5	5.30	4.8	2.48	0.1	0.08
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 24, 2011

Page: 2 of 2 Part 3

QUALITY CONTROL REPORT

WHI11001352.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
1267463	Soil	0.50	23.5	2.0	<0.05	1.8	3.35	9.1	0.03	1	1.3	34.3	<10	<2
REP 1267463	QC	0.51	23.2	2.1	<0.05	1.8	3.47	9.8	0.03	<1	1.4	37.6	<10	<2
1267643	Soil	0.72	23.7	2.1	<0.05	0.8	6.61	22.3	0.04	<1	1.1	21.8	<10	<2
REP 1267643	QC	0.74	18.5	1.9	<0.05	1.1	6.06	20.5	0.04	<1	1.7	22.0	<10	<2
1267692	Soil	1.14	18.9	1.5	<0.05	1.9	3.70	24.7	0.04	<1	1.1	42.0	<10	<2
REP 1267692	QC	1.16	19.6	1.5	<0.05	1.9	4.01	25.3	0.04	<1	1.3	44.6	<10	<2
Reference Materials														
STD DS8	Standard	1.47	39.9	7.2	<0.05	1.8	6.65	31.4	2.25	55	5.5	28.2	121	363
STD DS8	Standard	1.48	36.8	6.7	<0.05	1.7	6.00	29.4	2.08	46	5.3	28.6	112	342
STD DS8	Standard	1.62	38.8	7.0	<0.05	2.4	7.10	30.4	2.20	53	5.0	27.9	113	328
STD DS8	Standard	1.49	41.1	7.0	<0.05	1.9	6.58	30.8	2.35	59	5.4	28.3	124	354
STD DS8	Standard	1.38	35.3	6.3	<0.05	1.8	5.87	26.3	2.01	45	4.7	26.3	114	318
STD DS8	Standard	1.24	37.1	6.0	<0.05	1.6	5.91	27.7	2.04	55	4.6	27.0	118	339
STD DS8	Standard	1.29	37.8	6.4	<0.05	1.9	6.10	28.6	2.07	55	4.9	27.0	122	325
STD DS8	Standard	1.08	37.6	6.8	<0.05	1.4	4.86	21.2	2.36	55	4.6	28.1	103	354
STD DS8	Standard	1.50	39.3	6.9	<0.05	2.2	6.86	30.1	2.27	53	5.4	28.9	117	348
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: Radius Gold Inc.
Suite 650 - 200 Burrard Street
Vancouver BC V6C 3L6 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 29, 2011
Report Date: December 16, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001353.2

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-24
P.O. Number
Number of Samples: 321

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
Suite 650 - 200 Burrard Street
Vancouver BC V6C 3L6
Canada

CC: David Cass
database backup
Simon Ridgway
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			WHI
1F05	314	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
RJSV	320	Saving all or part of Soil Reject			WHI

ADDITIONAL COMMENTS

Version 2: Revised Sample IDs - Samples 617001, 617002 & 617003 should be listed as 617701, 617702 & 617703



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1267759	Soil		0.01	0.38	25.43	22.08	70.9	118	24.3	10.9	276	3.86	7.1	0.5	1.4	3.7	6.7	0.07	0.29	0.46	26	0.05	0.023
1267709	Soil		0.01	0.45	19.05	17.31	77.4	54	19.6	8.7	286	2.66	5.2	2.0	3.5	2.2	113.6	0.10	0.34	0.49	19	1.25	0.054
1267710	Soil		0.01	0.26	23.73	18.30	73.5	63	22.6	13.0	425	3.17	2.9	0.5	1.9	2.5	8.7	0.04	0.16	0.32	26	0.08	0.041
1267711	Soil		0.01	0.44	20.91	21.15	72.6	44	17.1	9.7	314	4.67	5.6	0.3	0.5	2.8	4.4	0.05	0.20	0.35	35	0.02	0.039
1267712	Soil		0.01	0.55	19.01	18.69	70.1	57	23.1	10.3	284	3.46	5.4	0.5	1.1	3.6	5.5	0.05	0.25	0.30	30	0.03	0.027
1267713	Soil		0.01	0.43	19.32	20.46	75.5	27	27.6	12.8	307	3.76	5.6	0.5	0.4	4.0	5.9	0.04	0.24	0.32	29	0.03	0.016
1267714	Soil		0.01	0.58	16.79	27.18	84.5	90	27.4	9.9	601	5.41	12.6	0.9	0.9	6.3	5.9	0.09	0.55	0.31	27	0.05	0.040
1267715	Soil		0.01	0.49	13.16	17.16	67.8	50	18.2	8.1	451	3.56	7.9	0.4	1.5	2.7	5.7	0.06	0.36	0.27	28	0.04	0.031
1267716	Soil		0.01	0.36	10.94	16.35	92.6	58	21.6	11.4	473	3.51	2.9	0.7	<0.2	3.5	15.9	0.17	0.22	0.29	33	0.14	0.028
1267717	Soil		0.01	0.38	15.16	14.22	97.3	60	24.2	12.3	359	3.75	2.9	0.4	<0.2	3.2	11.0	0.06	0.17	0.28	31	0.06	0.025
1267718	Soil		0.01	0.43	12.02	16.09	102.2	123	20.0	11.7	458	3.33	6.0	0.3	<0.2	2.8	23.0	0.12	0.20	0.30	30	0.11	0.026
1267719	Soil		0.01	0.66	18.03	27.28	95.0	117	21.3	16.3	629	3.69	6.4	1.2	<0.2	3.2	61.5	0.15	0.28	0.42	28	0.49	0.041
1267720	Soil		0.01	0.51	16.02	19.03	68.7	55	22.4	11.9	439	3.24	4.8	0.9	0.8	3.4	34.8	0.08	0.19	0.30	28	0.31	0.029
1267721	Soil		0.01	0.41	8.94	17.39	80.7	46	14.9	6.9	194	3.11	3.6	0.3	0.4	2.6	5.6	0.09	0.19	0.25	35	0.04	0.013
1267722	Soil		0.01	0.53	30.63	20.43	69.1	116	21.5	10.5	492	2.89	10.4	2.4	1.4	2.0	79.9	0.14	0.19	0.35	24	1.02	0.055
1267723	Soil		0.01	0.42	24.18	18.91	67.1	91	19.7	10.0	388	2.82	8.3	2.4	0.5	2.3	82.2	0.12	0.18	0.33	24	1.16	0.036
1267724	Soil		0.01	0.43	45.97	13.38	96.2	252	22.9	7.0	289	2.66	5.0	2.6	1.6	1.3	77.9	0.27	0.31	0.29	26	1.25	0.099
1267725	Soil		0.01	0.32	42.21	20.90	87.2	32	35.3	16.7	391	4.30	6.0	0.4	0.4	3.8	5.4	0.03	0.20	0.33	34	0.04	0.010
1267726	Soil		0.01	0.49	25.39	20.13	93.7	22	28.9	14.4	387	4.08	5.6	0.4	0.6	3.2	13.5	0.05	0.23	0.30	36	0.17	0.012
1267727	Soil		0.01	1.09	14.07	31.00	172.3	68	29.1	11.0	378	5.24	14.1	0.6	0.4	5.0	9.6	0.30	0.75	0.33	49	0.08	0.038
1267728	Soil		0.01	0.37	14.42	23.87	64.3	63	20.3	9.5	213	4.12	6.5	0.4	<0.2	3.0	4.5	0.07	0.26	0.27	27	0.03	0.019
1267729	Soil		0.01	0.42	15.02	16.98	77.8	57	22.1	10.8	272	3.12	6.5	0.5	<0.2	3.0	19.5	0.09	0.27	0.27	35	0.19	0.017
1267730	Soil		0.01	0.50	13.76	18.58	68.3	40	19.5	10.8	316	3.12	8.1	0.4	<0.2	3.0	20.9	0.05	0.31	0.26	26	0.24	0.017
1267951	Soil		0.01	0.27	23.95	18.64	78.0	38	27.8	12.4	207	3.93	5.9	0.5	<0.2	3.4	4.7	0.03	0.17	0.36	31	0.02	0.017
1267952	Soil		0.01	0.95	32.24	56.23	116.1	278	36.2	27.6	1540	5.72	3.3	0.7	0.7	2.9	6.0	0.04	0.21	0.99	27	0.04	0.021
1267953	Soil		0.01	0.75	18.28	17.85	87.7	71	18.2	11.3	570	3.48	6.4	0.5	<0.2	2.4	8.3	0.08	0.38	0.35	38	0.06	0.036
1267954	Soil		0.01	0.42	23.57	16.23	100.2	54	19.2	10.2	297	3.88	4.5	0.6	<0.2	3.9	6.0	0.14	0.22	0.43	30	0.03	0.033
1267955	Soil		0.01	0.42	23.64	27.72	65.8	39	15.1	10.8	148	2.67	7.5	0.4	<0.2	4.2	4.7	0.12	0.23	0.45	18	0.02	0.019
1267956	Soil		0.01	0.92	20.53	30.36	125.6	75	22.0	13.4	821	4.53	7.6	0.6	<0.2	3.3	7.4	0.17	0.46	0.41	42	0.04	0.050
1267957	Soil		0.01	0.51	23.07	18.49	95.4	102	21.6	12.1	338	3.89	5.7	0.6	<0.2	3.9	6.6	0.08	0.23	0.40	28	0.02	0.032



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267759	Soil	4.6	29.9	0.41	92.3	0.002	1	1.81	<0.001	0.08	<0.1	2.8	0.11	<0.02	30	0.1	0.02	6.6	1.21	<0.1	0.02
1267709	Soil	6.1	23.1	0.46	245.7	0.005	8	1.34	0.015	0.11	<0.1	2.7	0.10	0.10	74	0.6	0.02	4.8	1.36	<0.1	0.05
1267710	Soil	2.9	28.2	0.38	221.5	0.005	2	1.50	0.002	0.14	<0.1	2.6	0.14	0.02	45	0.1	0.03	6.8	3.22	<0.1	0.02
1267711	Soil	4.0	29.1	0.35	90.2	0.002	<1	1.90	<0.001	0.11	<0.1	2.4	0.12	<0.02	19	0.2	0.03	8.5	2.09	<0.1	<0.02
1267712	Soil	6.2	33.2	0.46	113.1	0.003	1	1.77	<0.001	0.10	<0.1	2.4	0.11	<0.02	39	0.1	0.03	6.6	1.57	<0.1	0.02
1267713	Soil	5.4	31.1	0.48	88.2	0.003	1	1.83	<0.001	0.10	<0.1	2.7	0.11	<0.02	53	0.2	<0.02	6.6	1.56	<0.1	0.04
1267714	Soil	7.4	28.6	0.30	143.8	0.001	2	2.04	<0.001	0.07	<0.1	3.0	0.15	<0.02	42	0.3	0.03	4.0	1.46	<0.1	0.10
1267715	Soil	6.2	22.3	0.30	96.5	0.003	1	1.33	0.001	0.10	<0.1	2.0	0.11	<0.02	31	<0.1	0.02	5.0	1.35	<0.1	<0.02
1267716	Soil	3.9	30.7	0.37	372.2	0.007	1	1.49	0.004	0.24	0.1	2.4	0.14	<0.02	15	<0.1	<0.02	6.7	1.65	<0.1	<0.02
1267717	Soil	4.9	32.2	0.45	298.8	0.002	<1	2.09	0.002	0.19	<0.1	2.8	0.15	<0.02	23	<0.1	0.03	8.2	2.04	<0.1	<0.02
1267718	Soil	5.3	24.6	0.35	164.7	0.001	<1	1.70	<0.001	0.12	<0.1	2.0	0.11	<0.02	12	0.1	<0.02	6.7	0.84	<0.1	<0.02
1267719	Soil	6.4	28.9	0.47	163.8	0.004	3	1.65	0.001	0.19	<0.1	2.8	0.11	0.02	28	0.2	<0.02	6.2	1.56	<0.1	<0.02
1267720	Soil	6.9	29.9	0.49	162.0	0.002	<1	1.69	0.001	0.10	<0.1	3.2	0.08	<0.02	20	0.2	<0.02	6.1	1.25	<0.1	0.02
1267721	Soil	7.1	23.8	0.35	68.1	0.004	<1	1.48	<0.001	0.08	<0.1	1.7	0.08	<0.02	12	<0.1	<0.02	6.7	0.91	<0.1	<0.02
1267722	Soil	6.2	26.8	0.44	192.3	0.003	3	1.50	0.009	0.11	0.1	3.1	0.08	0.05	47	0.5	<0.02	5.2	2.05	<0.1	0.04
1267723	Soil	6.1	26.0	0.44	159.9	0.003	2	1.51	0.005	0.11	0.1	3.3	0.09	0.05	32	0.4	<0.02	5.2	1.82	<0.1	0.04
1267724	Soil	9.4	28.0	0.48	211.6	0.006	3	1.52	0.008	0.09	<0.1	3.1	0.08	0.08	89	0.7	<0.02	4.5	1.44	<0.1	0.04
1267725	Soil	4.3	36.9	0.69	167.3	0.003	<1	2.23	<0.001	0.10	<0.1	3.7	0.11	<0.02	25	0.2	0.03	7.5	1.05	<0.1	<0.02
1267726	Soil	5.3	32.7	0.61	116.1	0.005	<1	1.88	<0.001	0.09	<0.1	3.1	0.10	<0.02	17	<0.1	<0.02	7.0	0.95	<0.1	0.02
1267727	Soil	8.5	35.3	0.38	143.9	0.012	<1	2.41	<0.001	0.08	0.2	2.3	0.11	<0.02	70	0.2	0.02	5.9	1.23	<0.1	0.04
1267728	Soil	4.4	25.9	0.32	69.6	0.001	<1	1.93	<0.001	0.07	<0.1	2.3	0.11	<0.02	265	0.1	0.03	5.7	1.19	<0.1	0.03
1267729	Soil	7.8	25.8	0.42	193.0	0.004	<1	1.60	0.002	0.07	<0.1	2.2	0.09	<0.02	62	0.1	<0.02	5.7	0.92	<0.1	<0.02
1267730	Soil	7.3	21.8	0.42	122.7	0.003	<1	1.39	0.001	0.07	<0.1	2.1	0.09	<0.02	344	<0.1	0.02	4.5	1.12	<0.1	<0.02
1267951	Soil	3.3	36.7	0.52	147.9	0.003	<1	2.13	<0.001	0.11	<0.1	3.0	0.14	<0.02	35	<0.1	0.04	8.6	1.64	<0.1	0.05
1267952	Soil	3.0	30.2	0.66	109.6	<0.001	<1	2.73	<0.001	0.09	<0.1	5.3	0.21	<0.02	32	0.2	0.04	7.6	4.23	<0.1	0.03
1267953	Soil	7.2	27.6	0.36	122.1	0.006	<1	1.62	<0.001	0.11	<0.1	2.1	0.10	<0.02	22	0.2	0.03	6.6	1.54	<0.1	<0.02
1267954	Soil	5.7	30.2	0.30	191.9	0.003	<1	1.82	<0.001	0.22	<0.1	3.3	0.21	<0.02	22	<0.1	0.02	7.9	2.54	<0.1	<0.02
1267955	Soil	5.3	16.8	0.19	97.2	<0.001	<1	1.11	<0.001	0.13	<0.1	2.0	0.12	<0.02	19	<0.1	0.02	4.8	1.24	<0.1	<0.02
1267956	Soil	7.0	33.5	0.37	194.6	0.004	<1	2.03	<0.001	0.14	<0.1	2.6	0.14	<0.02	27	0.3	0.03	7.6	1.86	<0.1	0.03
1267957	Soil	6.3	28.1	0.32	125.4	0.002	<1	1.76	<0.001	0.14	<0.1	2.7	0.12	<0.02	22	<0.1	0.04	6.6	2.23	<0.1	0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 2 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1267759	Soil	0.37	12.8	0.9	<0.05	1.6	5.14	11.4	0.05	<1	0.9	34.0	<10	<2
1267709	Soil	0.52	13.4	0.6	<0.05	1.7	6.95	12.7	0.03	<1	0.8	31.5	<10	<2
1267710	Soil	0.83	19.2	1.0	<0.05	1.1	3.81	8.4	0.03	<1	1.0	17.6	<10	<2
1267711	Soil	0.70	18.1	1.2	<0.05	1.5	2.27	8.9	0.03	<1	0.6	26.3	<10	<2
1267712	Soil	0.57	13.8	1.0	<0.05	1.3	3.37	14.0	0.03	<1	0.9	35.1	<10	<2
1267713	Soil	0.41	13.2	0.8	<0.05	2.3	3.06	13.1	0.03	<1	1.1	39.1	<10	<2
1267714	Soil	0.45	10.9	0.5	<0.05	4.3	4.45	18.2	0.05	<1	1.5	42.6	<10	<2
1267715	Soil	0.54	15.3	0.9	<0.05	0.8	2.86	14.0	0.02	<1	0.7	22.9	<10	<2
1267716	Soil	0.94	29.0	1.3	<0.05	0.6	2.24	8.6	0.03	<1	0.6	18.2	<10	<2
1267717	Soil	0.51	26.5	1.2	<0.05	1.5	2.40	11.2	0.03	<1	1.1	37.8	<10	<2
1267718	Soil	0.33	17.3	0.9	<0.05	1.0	2.03	11.7	0.03	<1	0.9	35.9	<10	<2
1267719	Soil	0.61	19.7	1.1	<0.05	1.0	5.14	14.7	0.04	<1	1.2	48.3	<10	<2
1267720	Soil	0.52	13.1	2.5	<0.05	1.2	5.21	16.1	0.03	<1	0.8	36.1	<10	<2
1267721	Soil	0.55	16.2	0.8	<0.05	0.8	1.95	14.8	<0.02	<1	0.5	26.7	<10	<2
1267722	Soil	0.66	16.4	1.0	<0.05	1.3	9.10	14.6	0.03	<1	1.3	28.8	<10	<2
1267723	Soil	0.75	16.4	1.0	<0.05	1.4	8.05	13.0	0.03	<1	1.1	30.5	<10	<2
1267724	Soil	0.65	12.9	0.6	<0.05	1.4	14.70	16.2	0.03	<1	1.0	21.8	<10	<2
1267725	Soil	0.23	13.0	1.0	<0.05	1.2	3.90	11.0	0.04	<1	1.3	37.2	<10	<2
1267726	Soil	0.48	15.9	0.9	<0.05	1.2	3.04	13.2	0.03	<1	1.0	37.9	<10	<2
1267727	Soil	1.34	13.7	0.7	<0.05	3.0	2.79	20.5	0.05	<1	0.9	35.6	<10	<2
1267728	Soil	0.36	12.3	0.7	<0.05	1.7	2.51	10.6	0.03	<1	0.9	43.6	<10	<2
1267729	Soil	0.54	13.1	0.6	<0.05	1.1	2.72	17.8	0.02	<1	0.7	29.8	<10	<2
1267730	Soil	0.43	12.4	0.6	<0.05	1.1	2.59	16.5	0.03	<1	0.5	37.9	<10	<2
1267951	Soil	0.47	18.3	1.1	<0.05	1.7	3.11	8.1	0.04	<1	1.0	36.6	<10	<2
1267952	Soil	0.05	24.1	1.0	<0.05	1.6	6.06	10.5	0.04	<1	1.7	60.8	<10	<2
1267953	Soil	0.62	17.3	0.8	<0.05	0.4	2.92	16.0	0.03	<1	0.8	32.6	<10	<2
1267954	Soil	0.35	31.7	1.0	<0.05	1.2	5.46	13.6	0.04	<1	1.2	30.0	<10	<2
1267955	Soil	0.13	15.4	0.8	<0.05	1.4	3.05	11.7	0.03	<1	1.0	19.3	<10	<2
1267956	Soil	0.68	21.8	1.1	<0.05	0.9	3.40	16.1	0.03	<1	1.1	34.4	<10	<2
1267957	Soil	0.25	19.9	0.8	<0.05	1.1	4.04	14.7	0.03	<1	1.3	32.5	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1267958	Soil			1.04	12.82	16.47	82.2	139	15.5	7.2	262	3.15	8.0	0.5	<0.2	4.0	8.2	0.12	0.48	0.32	46	0.06	0.028
1267959	Soil			0.72	22.33	29.18	99.8	72	21.0	11.7	425	4.20	7.8	0.6	<0.2	4.1	5.5	0.11	0.39	0.40	31	0.02	0.054
1267960	Soil			0.63	23.56	31.01	86.6	64	25.6	13.8	326	4.11	6.8	0.6	<0.2	4.5	5.0	0.09	0.33	0.37	26	0.02	0.033
1267961	Soil			0.68	33.57	36.49	80.2	56	28.6	16.6	598	4.80	10.2	0.5	<0.2	4.1	13.1	0.05	0.30	0.44	31	0.03	0.030
1097040	Soil			0.88	11.22	14.49	97.7	210	13.9	6.9	259	3.22	5.9	0.4	<0.2	3.3	6.2	0.09	0.35	0.47	45	0.05	0.022
1097041	Soil			0.51	22.81	15.97	77.0	86	16.4	9.9	293	3.71	5.4	0.3	<0.2	2.8	7.9	0.03	0.18	0.40	24	0.02	0.053
1097042	Soil			0.51	24.81	25.44	106.7	57	28.9	14.5	293	4.81	5.4	0.5	2.6	4.5	6.5	0.11	0.34	0.59	33	0.03	0.028
1097043	Soil			0.71	22.74	25.69	70.0	51	17.9	11.1	467	3.88	5.7	0.6	1.8	4.6	6.7	0.15	0.33	0.45	37	0.04	0.030
1097044	Soil			0.47	24.45	26.68	81.7	22	28.1	15.6	476	3.69	5.1	0.7	1.6	5.3	6.5	0.06	0.29	0.42	30	0.03	0.018
1097045	Soil			0.57	21.27	33.01	94.3	43	15.2	10.7	421	4.53	5.2	0.4	0.5	4.1	5.8	0.10	0.31	0.42	37	0.04	0.047
1097046	Soil			0.75	36.39	48.08	87.5	46	33.6	25.7	1450	4.39	6.7	1.2	1.9	6.9	9.7	0.06	0.36	0.47	36	0.05	0.023
1097047	Soil			0.43	33.00	36.59	92.4	71	29.9	21.0	744	4.57	5.7	0.6	0.9	5.3	14.0	0.07	0.20	0.48	34	0.11	0.028
1097048	Soil			0.39	30.00	28.33	85.3	57	31.5	16.1	572	4.04	6.1	0.8	1.1	5.2	20.8	0.05	0.21	0.43	30	0.22	0.028
1097049	Soil			0.38	34.08	29.64	86.9	116	32.3	16.7	643	3.97	5.4	1.0	1.1	5.2	37.1	0.07	0.21	0.43	30	0.43	0.032
1097050	Soil			0.44	37.88	30.04	87.2	44	30.0	15.6	565	4.49	6.0	0.8	0.6	5.6	15.1	0.05	0.24	0.47	35	0.15	0.027
1267001	Soil			0.44	40.44	32.42	94.0	41	30.9	16.5	595	4.78	6.4	0.8	0.5	5.8	15.8	0.06	0.25	0.48	37	0.17	0.028
1267002	Soil			0.50	23.17	27.59	108.8	109	21.4	10.2	639	3.07	16.1	1.3	14.1	1.0	76.2	0.54	1.42	0.41	20	3.53	0.092
1267003	Soil			0.31	22.56	24.88	79.1	64	23.7	12.5	626	3.32	9.8	0.7	3.5	1.3	19.0	0.25	0.70	0.33	20	1.21	0.048
1267004	Soil			0.19	7.19	13.14	53.1	64	7.7	4.5	2279	3.29	88.6	1.0	3.7	0.5	37.1	0.15	4.64	0.15	9	7.33	0.091
1267005	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1267006	Soil			0.43	23.94	25.45	132.0	69	23.7	12.6	493	3.10	11.3	0.7	3.2	1.8	49.5	0.17	0.64	0.29	14	1.50	0.054
1267007	Soil			0.74	18.79	29.50	118.6	64	26.1	9.8	398	4.25	58.9	1.3	1.4	4.2	61.5	0.39	6.28	0.38	36	1.39	0.062
1267008	Soil			0.39	30.76	26.51	93.4	77	27.7	13.4	514	3.52	7.6	1.5	1.2	3.4	41.9	0.21	0.56	0.38	23	1.16	0.045
1267009	Soil			0.47	28.86	28.10	93.6	99	26.6	12.9	691	3.44	11.9	1.0	1.6	3.0	29.8	0.21	1.00	0.33	25	0.91	0.049
1267010	Soil			0.48	40.06	23.32	87.9	116	23.5	11.8	616	3.10	6.8	2.8	1.9	1.9	54.1	0.26	0.54	0.36	23	1.61	0.074
1267011	Soil			0.33	18.01	16.62	57.4	71	15.0	7.6	523	2.11	6.4	1.1	1.7	1.0	50.9	0.33	0.54	0.22	16	1.79	0.044
1267012	Soil			0.31	20.56	13.97	48.7	110	14.8	7.7	440	1.82	3.6	1.7	1.0	0.7	65.4	0.20	0.32	0.22	16	1.73	0.057
1267013	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1267014	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1267015	Soil			1.02	21.11	19.03	89.0	195	20.1	9.7	324	4.66	5.2	0.7	2.9	3.8	5.6	0.26	0.54	0.37	50	0.03	0.053



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method Analyte Unit MDL	1F15 La ppm	1F15 Cr ppm	1F15 Mg %	1F15 Ba ppm	1F15 Ti %	1F15 B ppm	1F15 Al %	1F15 Na %	1F15 K %	1F15 W ppm	1F15 Sc ppm	1F15 Ti ppm	1F15 S %	1F15 Hg ppb	1F15 Se ppm	1F15 Te ppm	1F15 Ga ppm	1F15 Cs ppm	1F15 Ge ppm	1F15 Hf ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267958	Soil	11.4	27.2	0.37	125.1	0.011	<1	1.53	<0.001	0.10	0.1	2.0	0.12	<0.02	24	0.2	0.05	6.6	1.48	<0.1	<0.02
1267959	Soil	5.4	28.3	0.32	68.5	0.003	<1	1.90	<0.001	0.09	<0.1	2.3	0.11	0.02	33	0.2	0.03	5.9	2.22	<0.1	0.04
1267960	Soil	4.7	24.5	0.29	67.7	0.001	<1	1.69	<0.001	0.09	<0.1	2.8	0.10	<0.02	32	0.2	<0.02	4.9	1.68	<0.1	0.04
1267961	Soil	4.1	35.4	0.41	153.2	<0.001	<1	2.21	<0.001	0.10	<0.1	3.4	0.13	0.02	26	0.1	<0.02	7.7	2.32	<0.1	0.04
1097040	Soil	8.9	27.8	0.35	98.3	0.003	<1	1.76	<0.001	0.09	<0.1	1.8	0.09	<0.02	26	<0.1	0.02	7.1	1.06	<0.1	<0.02
1097041	Soil	3.9	15.5	0.12	56.8	<0.001	<1	0.87	0.002	0.08	<0.1	2.3	0.09	<0.02	21	<0.1	0.03	4.2	0.99	<0.1	<0.02
1097042	Soil	5.3	34.7	0.45	109.8	0.002	2	2.29	<0.001	0.12	<0.1	3.0	0.14	<0.02	24	<0.1	0.04	8.1	2.85	<0.1	0.06
1097043	Soil	7.4	25.9	0.27	126.1	0.002	1	1.76	0.002	0.11	<0.1	2.6	0.13	<0.02	20	<0.1	0.04	7.8	1.60	<0.1	0.05
1097044	Soil	8.8	31.1	0.50	105.8	0.005	1	1.79	0.002	0.10	<0.1	3.0	0.11	<0.02	16	0.1	<0.02	7.0	1.58	<0.1	0.04
1097045	Soil	5.7	26.7	0.29	96.2	0.002	1	1.74	0.001	0.13	<0.1	2.3	0.13	<0.02	22	0.2	0.03	9.1	1.70	<0.1	0.05
1097046	Soil	10.7	35.4	0.54	247.1	0.005	2	2.03	0.002	0.14	<0.1	5.0	0.19	<0.02	31	0.2	0.03	7.5	3.84	<0.1	0.05
1097047	Soil	7.4	38.4	0.58	110.9	0.003	<1	2.06	0.003	0.12	<0.1	4.0	0.11	<0.02	8	<0.1	<0.02	8.6	2.83	<0.1	0.04
1097048	Soil	8.8	35.6	0.63	110.3	0.005	1	1.87	0.004	0.10	<0.1	4.3	0.09	<0.02	20	0.1	<0.02	7.4	2.28	<0.1	0.05
1097049	Soil	11.3	36.2	0.64	130.1	0.003	1	1.96	0.005	0.12	<0.1	5.0	0.11	0.03	29	<0.1	<0.02	7.6	2.48	<0.1	0.04
1097050	Soil	8.5	38.0	0.57	169.5	0.003	1	2.09	0.004	0.12	<0.1	4.6	0.12	<0.02	13	0.1	<0.02	8.5	2.62	<0.1	0.04
1267001	Soil	8.7	39.8	0.61	178.6	0.002	<1	2.17	0.004	0.12	<0.1	4.9	0.12	<0.02	22	<0.1	0.02	9.2	2.48	<0.1	0.03
1267002	Soil	7.8	24.4	0.84	112.7	0.005	7	1.37	0.007	0.07	0.1	2.3	0.10	0.08	224	0.4	0.07	4.3	0.87	<0.1	0.08
1267003	Soil	3.8	23.9	0.49	120.6	0.002	2	1.55	0.004	0.05	<0.1	2.1	0.05	0.05	108	0.1	<0.02	4.7	0.48	<0.1	0.05
1267004	Soil	4.2	7.8	4.45	89.1	0.002	3	0.47	0.004	0.04	<0.1	1.1	0.11	0.03	257	0.2	0.02	1.1	0.27	<0.1	0.03
1267005	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1267006	Soil	4.1	14.9	0.43	82.7	0.002	4	0.84	0.004	0.06	<0.1	3.2	0.09	0.06	169	0.2	0.05	2.6	1.07	<0.1	0.05
1267007	Soil	14.9	29.0	0.44	116.9	0.004	2	1.90	0.003	0.08	0.1	4.9	0.14	0.04	920	0.3	0.05	5.0	1.05	<0.1	0.04
1267008	Soil	9.6	26.2	0.50	159.5	0.003	2	1.79	0.005	0.11	0.4	3.5	0.08	0.05	129	0.2	<0.02	5.5	1.00	<0.1	0.08
1267009	Soil	11.8	23.6	0.48	167.2	0.004	1	1.52	0.004	0.08	<0.1	3.6	0.08	0.03	210	0.1	<0.02	4.4	0.93	<0.1	0.04
1267010	Soil	9.8	23.9	0.45	302.9	0.005	2	1.60	0.011	0.12	<0.1	3.3	0.09	0.08	128	0.4	0.03	5.0	1.32	<0.1	0.04
1267011	Soil	6.2	14.2	0.36	98.2	0.004	1	0.95	0.004	0.05	<0.1	1.7	0.05	0.06	123	0.3	<0.02	3.0	0.65	<0.1	0.04
1267012	Soil	5.5	14.3	0.34	127.7	0.005	2	0.96	0.005	0.05	<0.1	1.6	0.06	0.07	82	0.4	<0.02	2.9	0.87	<0.1	0.03
1267013	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1267014	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1267015	Soil	7.7	31.9	0.35	107.2	0.008	<1	1.81	0.002	0.09	0.1	2.7	0.11	0.02	30	0.2	0.04	8.0	1.92	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 3 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1267958	Soil	0.85	17.9	0.9	<0.05	1.0	2.71	23.1	0.03	<1	0.6	25.9	<10	<2
1267959	Soil	0.58	15.6	0.7	<0.05	1.6	2.96	13.8	0.04	<1	0.8	29.7	<10	<2
1267960	Soil	0.26	13.0	0.6	<0.05	2.3	3.26	11.5	0.03	<1	1.0	29.4	<10	<2
1267961	Soil	0.19	16.3	0.8	<0.05	2.5	4.44	11.8	0.05	<1	1.2	48.1	<10	<2
1097040	Soil	0.67	15.0	0.9	<0.05	1.6	2.16	18.1	0.03	<1	0.3	32.9	<10	<2
1097041	Soil	0.22	14.2	0.9	<0.05	0.6	2.42	9.0	0.03	<1	0.5	5.4	<10	<2
1097042	Soil	0.32	21.2	1.2	<0.05	2.6	3.86	11.8	0.07	<1	1.1	56.4	<10	<2
1097043	Soil	0.54	19.2	1.0	<0.05	2.5	3.93	15.9	0.04	<1	1.1	29.0	<10	<2
1097044	Soil	0.38	14.6	1.2	<0.05	1.4	4.88	19.9	0.04	<1	1.1	33.7	<10	<2
1097045	Soil	0.56	20.2	1.3	<0.05	2.4	2.67	12.6	0.03	<1	0.8	21.1	<10	<2
1097046	Soil	0.37	22.1	1.2	<0.05	2.1	8.39	31.0	0.04	<1	1.8	39.0	<10	<2
1097047	Soil	0.49	16.7	1.2	<0.05	2.2	7.24	18.8	0.04	<1	1.2	40.4	<10	<2
1097048	Soil	0.36	13.2	1.2	<0.05	1.7	8.68	21.5	0.05	<1	1.4	38.9	<10	<2
1097049	Soil	0.50	15.3	1.0	<0.05	2.2	17.96	23.4	0.04	<1	1.6	39.7	<10	<2
1097050	Soil	0.41	18.0	1.1	<0.05	1.7	7.78	19.8	0.04	<1	1.6	38.1	<10	<2
1267001	Soil	0.44	17.4	1.1	<0.05	1.9	8.25	20.5	0.03	<1	1.8	41.0	<10	<2
1267002	Soil	0.40	8.9	0.7	0.07	1.6	9.83	17.4	0.09	2	0.9	19.2	<10	<2
1267003	Soil	0.31	5.3	0.6	<0.05	1.4	4.22	12.5	0.04	1	0.8	26.6	<10	<2
1267004	Soil	0.07	2.5	0.7	<0.05	0.6	5.98	9.5	<0.02	1	0.5	4.4	<10	<2
1267005	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1267006	Soil	0.21	6.3	0.6	<0.05	1.7	7.70	12.7	0.03	<1	0.6	25.6	<10	<2
1267007	Soil	0.89	10.7	0.6	<0.05	1.8	12.38	31.7	0.05	<1	1.4	20.9	<10	<2
1267008	Soil	0.50	11.1	0.6	<0.05	2.8	8.55	18.9	0.04	<1	1.0	30.0	<10	<2
1267009	Soil	0.53	8.9	0.5	<0.05	1.6	10.76	24.5	0.03	<1	1.0	25.3	<10	<2
1267010	Soil	0.48	12.6	0.5	<0.05	1.7	10.25	19.1	0.02	<1	0.9	28.1	<10	<2
1267011	Soil	0.39	6.5	0.4	<0.05	1.4	5.62	13.0	<0.02	<1	0.6	15.7	<10	<2
1267012	Soil	0.42	8.9	0.3	<0.05	1.0	6.02	11.1	<0.02	<1	0.6	15.4	<10	<2
1267013	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1267014	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1267015	Soil	1.28	16.9	0.9	<0.05	1.0	2.78	15.3	0.04	<1	0.7	26.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
1267016	Soil		0.72	23.20	17.45	76.4	136	24.8	11.6	302	4.97	2.9	0.9	0.4	4.7	5.4	0.12	0.44	0.40	46	0.03	0.034
1267017	Soil		0.52	22.14	16.59	61.6	110	24.2	10.9	393	3.17	2.4	1.6	2.0	4.8	61.6	0.08	0.22	0.32	39	0.31	0.024
1267018	Soil		0.51	26.57	25.91	71.6	207	23.1	11.8	332	3.75	2.6	0.9	0.4	3.8	64.1	0.17	0.18	0.36	37	0.32	0.028
1267019	Soil		1.05	37.09	41.26	134.6	175	33.3	23.9	1634	7.18	5.4	0.8	0.6	4.4	5.4	0.18	0.31	0.49	49	0.03	0.052
1267020	Soil		1.31	22.96	24.46	142.7	94	24.5	15.4	1496	5.86	8.3	0.5	<0.2	3.2	7.6	0.20	0.59	0.50	54	0.05	0.075
1267021	Soil		0.25	10.66	17.79	123.0	87	25.0	13.0	178	4.66	0.7	1.2	<0.2	5.3	3.8	0.13	0.24	0.37	44	0.03	0.025
1267022	Soil		0.63	22.91	18.00	117.3	69	23.0	11.5	472	4.90	2.6	0.5	<0.2	3.3	6.8	0.17	0.21	0.55	40	0.06	0.053
1267023	Soil		0.62	18.12	19.99	133.7	195	19.4	9.2	353	5.16	3.5	0.5	1.1	3.1	5.2	0.19	0.26	0.44	49	0.02	0.054
1267024	Soil		0.81	17.45	15.87	95.1	72	18.2	10.0	435	5.20	6.0	0.5	1.2	3.5	4.9	0.14	0.39	0.38	50	0.02	0.051
1267025	Soil		0.62	22.16	17.63	70.3	48	21.5	10.3	383	4.71	4.8	0.5	<0.2	3.4	6.5	0.08	0.30	0.37	41	0.04	0.045
1267026	Soil		0.57	22.14	21.83	136.6	50	21.7	14.6	886	4.45	2.2	0.8	<0.2	4.0	9.9	0.14	0.29	0.42	48	0.21	0.035
1267027	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1267028	Soil		0.57	7.93	14.16	47.6	18	10.9	5.5	186	3.08	5.0	0.3	1.2	2.6	10.5	0.07	0.26	0.40	40	0.20	0.018
1267029	Soil		0.78	22.98	16.58	54.1	197	16.7	13.2	845	2.55	5.5	0.8	1.9	1.6	87.8	0.30	0.32	0.33	35	1.31	0.073
1267030	Soil		0.64	21.76	16.77	48.4	158	17.4	6.4	185	2.72	4.6	0.7	1.2	2.3	9.3	0.13	0.27	0.51	34	0.08	0.037
617701	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
617702	Soil		0.34	24.84	23.44	108.4	86	24.1	12.2	338	3.22	7.8	0.6	1.1	2.7	83.0	0.14	0.40	0.34	14	0.88	0.043
617703	Soil		0.43	27.80	24.84	118.8	96	27.1	11.9	291	3.29	8.8	0.7	1.9	2.5	103.7	0.19	0.44	0.33	16	1.02	0.045
1267731	Soil		0.54	20.06	23.91	237.8	167	19.2	20.8	1635	4.48	4.2	0.5	1.5	3.6	7.7	0.20	0.30	0.44	40	0.05	0.045
1267732	Soil		0.61	24.50	31.71	162.2	61	24.5	21.9	2384	4.51	5.6	0.5	0.8	3.6	12.1	0.11	0.23	0.46	39	0.12	0.059
1267733	Soil		0.65	24.91	44.89	151.7	79	24.5	22.5	2078	4.51	6.3	0.6	1.1	4.0	11.3	0.11	0.28	0.51	36	0.09	0.061
1267734	Soil		0.30	17.33	22.68	124.8	38	23.5	12.9	320	3.74	5.0	0.3	0.3	2.8	8.1	0.05	0.13	0.37	32	0.05	0.035
1267735	Soil		0.40	11.44	14.27	88.5	179	18.7	11.9	876	3.00	2.0	0.5	0.4	3.0	20.1	0.08	0.20	0.29	34	0.30	0.032
1267736	Soil		0.41	18.46	15.27	91.1	89	24.1	11.5	220	4.10	4.0	0.6	0.5	3.7	8.9	0.06	0.21	0.36	35	0.06	0.028
1267737	Soil		0.43	8.25	12.65	66.6	23	16.7	8.9	175	3.22	2.4	0.6	0.8	3.5	6.1	0.06	0.28	0.28	38	0.04	0.021
1267738	Soil		0.83	17.32	23.23	79.4	101	24.1	10.6	334	4.04	8.0	0.6	0.7	4.1	7.9	0.08	0.48	0.35	39	0.05	0.031
1267739	Soil		0.33	11.50	16.07	56.6	50	17.7	9.0	1194	3.52	1.1	0.7	0.6	3.8	5.6	0.13	0.23	0.33	33	0.04	0.022
1267740	Soil		0.29	23.60	23.28	78.7	113	36.7	12.9	498	4.13	6.0	0.5	0.7	4.0	15.4	0.08	0.22	0.37	29	0.34	0.029
1267741	Soil		0.40	14.81	19.19	71.3	34	24.1	11.1	394	3.51	5.2	0.6	1.0	3.8	16.2	0.08	0.20	0.30	34	0.30	0.022
1267742	Soil		0.46	12.36	14.23	67.3	137	20.4	9.5	362	2.89	4.4	1.0	0.5	4.2	29.0	0.09	0.29	0.25	33	0.26	0.015



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267016	Soil	5.5	36.2	0.43	117.6	0.005	<1	1.86	0.003	0.12	<0.1	2.9	0.10	<0.02	21	0.2	0.04	8.4	2.11	<0.1	0.03
1267017	Soil	12.8	34.1	0.57	228.0	0.007	<1	1.88	0.005	0.09	<0.1	4.1	0.10	<0.02	12	<0.1	<0.02	6.8	1.94	<0.1	0.04
1267018	Soil	6.2	34.6	0.52	404.3	0.003	<1	2.14	0.004	0.10	<0.1	3.5	0.09	<0.02	22	0.1	<0.02	8.2	2.69	<0.1	0.03
1267019	Soil	4.9	47.2	0.58	146.9	0.003	<1	2.96	0.001	0.10	<0.1	5.2	0.11	<0.02	46	0.3	0.04	11.2	4.48	<0.1	0.05
1267020	Soil	7.3	41.2	0.44	121.4	0.007	<1	2.22	0.001	0.08	0.1	2.8	0.10	0.02	41	0.3	0.05	9.2	1.87	<0.1	0.04
1267021	Soil	2.3	41.6	0.39	166.4	0.005	<1	1.94	0.003	0.12	<0.1	3.1	0.13	<0.02	16	<0.1	<0.02	8.1	1.39	<0.1	0.03
1267022	Soil	4.0	35.3	0.46	154.5	0.001	<1	2.35	0.002	0.09	<0.1	3.1	0.09	0.02	27	0.2	<0.02	9.7	1.98	<0.1	0.04
1267023	Soil	5.3	35.6	0.37	185.7	0.003	<1	2.37	0.003	0.09	<0.1	3.3	0.14	<0.02	20	0.2	0.03	10.8	1.31	<0.1	0.03
1267024	Soil	7.8	32.3	0.34	111.3	0.004	<1	2.08	0.001	0.07	<0.1	2.9	0.14	<0.02	24	0.2	0.03	10.2	1.84	<0.1	0.03
1267025	Soil	5.9	32.4	0.38	165.2	0.002	<1	2.10	0.001	0.09	<0.1	2.7	0.10	<0.02	15	0.2	0.03	8.5	1.27	<0.1	0.04
1267026	Soil	4.1	33.6	0.40	334.9	0.003	<1	2.21	0.002	0.11	<0.1	3.2	0.17	<0.02	13	<0.1	0.02	8.2	2.08	<0.1	0.03
1267027	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1267028	Soil	7.2	20.0	0.26	78.4	0.008	2	1.17	0.002	0.08	<0.1	1.8	0.09	<0.02	7	<0.1	0.05	7.7	0.94	<0.1	<0.02
1267029	Soil	7.8	24.6	0.44	709.0	0.010	3	1.29	0.002	0.06	<0.1	2.8	0.06	0.06	58	0.4	0.03	5.2	0.90	<0.1	0.04
1267030	Soil	10.2	23.2	0.30	170.8	0.005	2	1.60	0.002	0.07	<0.1	2.3	0.11	<0.02	25	0.2	0.04	6.2	1.22	<0.1	<0.02
617701	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
617702	Soil	4.4	17.1	0.36	87.2	0.001	5	0.97	0.001	0.08	<0.1	3.3	0.09	0.04	65	0.3	0.04	3.2	1.22	<0.1	0.04
617703	Soil	4.1	17.5	0.34	102.6	0.002	7	1.04	0.001	0.09	<0.1	3.9	0.10	0.05	78	0.4	0.05	3.4	1.18	<0.1	0.05
1267731	Soil	8.0	31.9	0.32	313.2	0.004	3	2.44	<0.001	0.15	<0.1	3.6	0.20	<0.02	31	0.2	0.05	9.6	2.29	<0.1	0.03
1267732	Soil	7.4	34.4	0.36	381.2	0.002	2	2.52	0.001	0.17	<0.1	3.5	0.22	<0.02	22	0.2	0.04	9.3	2.93	<0.1	0.05
1267733	Soil	7.4	33.4	0.38	173.0	0.003	1	2.25	0.002	0.15	<0.1	4.1	0.19	<0.02	21	0.2	0.04	8.9	3.16	<0.1	0.05
1267734	Soil	4.3	35.6	0.46	219.1	0.001	2	2.52	<0.001	0.17	<0.1	3.0	0.16	<0.02	12	<0.1	0.03	9.6	1.74	<0.1	0.03
1267735	Soil	6.7	26.8	0.32	508.7	0.005	2	1.64	0.003	0.23	<0.1	2.3	0.14	<0.02	17	0.1	0.03	6.8	0.85	<0.1	<0.02
1267736	Soil	3.8	34.7	0.48	235.7	0.004	2	2.22	<0.001	0.16	<0.1	3.0	0.16	<0.02	15	<0.1	0.02	8.9	2.25	<0.1	0.03
1267737	Soil	5.3	28.9	0.32	222.6	0.012	2	1.45	0.002	0.19	0.1	2.2	0.19	<0.02	7	<0.1	0.03	7.1	1.80	<0.1	<0.02
1267738	Soil	8.2	31.0	0.44	130.9	0.006	3	1.90	<0.001	0.12	<0.1	2.5	0.13	<0.02	19	0.2	0.04	6.7	1.60	<0.1	0.04
1267739	Soil	5.1	27.1	0.21	299.5	0.006	2	1.26	0.002	0.17	<0.1	2.2	0.13	<0.02	24	<0.1	0.04	5.6	1.00	<0.1	<0.02
1267740	Soil	5.4	33.3	0.64	132.2	0.003	2	2.24	0.001	0.14	<0.1	3.8	0.10	<0.02	25	0.2	0.04	7.0	1.09	<0.1	0.03
1267741	Soil	9.0	30.3	0.49	179.6	0.004	2	2.03	0.001	0.13	<0.1	3.2	0.12	<0.02	16	<0.1	0.02	7.5	1.14	<0.1	0.03
1267742	Soil	11.1	28.9	0.51	153.3	0.011	3	1.70	0.005	0.11	<0.1	3.1	0.11	<0.02	28	0.1	<0.02	5.8	1.12	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 4 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1267016	Soil	0.87	18.1	0.9	<0.05	1.4	2.72	11.2	0.05	<1	0.8	31.5	<10	<2
1267017	Soil	0.85	16.0	0.8	<0.05	1.2	8.72	24.5	0.03	<1	1.3	56.2	<10	<2
1267018	Soil	0.67	17.7	0.9	<0.05	1.4	4.59	13.0	0.04	<1	1.2	52.5	<10	<2
1267019	Soil	0.67	18.6	1.7	<0.05	2.5	4.64	10.9	0.07	<1	1.3	50.9	<10	<2
1267020	Soil	1.08	14.7	0.9	<0.05	1.4	2.70	14.7	0.04	<1	0.9	43.4	<10	<2
1267021	Soil	0.76	21.0	1.4	<0.05	1.2	2.15	4.9	0.03	<1	0.5	23.7	<10	<2
1267022	Soil	0.67	16.5	1.2	<0.05	1.7	2.82	9.0	0.03	<1	1.0	43.3	<10	<2
1267023	Soil	0.72	20.8	1.1	<0.05	1.5	2.76	11.3	0.04	<1	0.7	41.1	<10	<2
1267024	Soil	0.75	19.7	1.0	<0.05	1.2	2.70	16.0	0.04	<1	0.5	32.3	<10	<2
1267025	Soil	0.79	15.6	0.8	<0.05	1.6	2.47	11.9	0.03	<1	0.8	35.2	<10	<2
1267026	Soil	0.67	17.6	1.1	<0.05	1.0	2.02	8.4	0.04	<1	0.9	26.6	<10	<2
1267027	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1267028	Soil	0.73	13.8	0.8	<0.05	0.7	1.97	15.1	0.04	<1	0.2	11.0	<10	<2
1267029	Soil	0.83	8.3	0.6	<0.05	1.4	5.62	16.6	0.03	<1	0.8	18.3	<10	<2
1267030	Soil	0.77	12.2	0.9	<0.05	0.7	4.89	23.4	0.03	<1	0.7	19.3	<10	<2
617701	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
617702	Soil	0.21	7.4	0.5	<0.05	2.2	7.21	11.9	0.04	<1	0.8	34.4	<10	<2
617703	Soil	0.23	8.1	0.4	<0.05	2.0	7.45	10.9	0.04	<1	0.7	38.3	<10	<2
1267731	Soil	0.54	31.3	1.4	<0.05	1.7	4.04	19.2	0.03	<1	1.0	49.7	<10	<2
1267732	Soil	0.42	29.4	1.1	<0.05	1.8	3.63	19.7	0.04	<1	1.7	47.7	<10	<2
1267733	Soil	0.50	26.2	1.1	<0.05	1.8	4.99	20.0	0.03	<1	1.7	42.3	<10	<2
1267734	Soil	0.32	26.7	1.1	<0.05	1.4	2.96	9.5	0.04	<1	1.4	50.2	<10	<2
1267735	Soil	0.77	26.3	1.2	<0.05	0.8	2.13	13.8	0.03	<1	0.8	23.8	<10	<2
1267736	Soil	0.74	24.9	1.2	<0.05	1.6	2.74	8.3	0.03	<1	1.0	40.5	<10	<2
1267737	Soil	0.83	29.4	1.5	<0.05	0.5	2.14	11.0	0.03	<1	0.4	13.4	<10	<2
1267738	Soil	0.92	17.8	0.9	<0.05	2.0	2.80	17.6	0.03	<1	0.9	41.9	<10	<2
1267739	Soil	0.94	24.2	1.2	<0.05	0.6	1.99	10.9	0.02	<1	0.7	9.8	<10	<2
1267740	Soil	0.47	14.4	0.9	<0.05	1.6	5.34	15.7	0.04	<1	1.5	43.0	<10	<2
1267741	Soil	0.57	17.5	0.9	<0.05	1.5	4.58	20.8	0.04	<1	1.1	33.3	<10	<2
1267742	Soil	0.75	15.7	0.9	<0.05	2.0	5.02	23.5	0.03	<1	0.7	30.0	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
1267743	Soil		0.33	10.45	20.46	127.2	24	13.2	7.1	372	3.44	4.8	0.5	0.7	2.8	9.8	0.11	0.19	0.33	27	0.20	0.020
1267744	Soil		0.49	16.16	24.85	67.3	64	21.7	9.9	604	3.14	14.6	0.6	0.5	3.7	37.2	0.13	0.56	0.32	20	0.37	0.047
1267745	Soil		0.49	13.63	23.56	63.3	80	18.6	9.0	626	2.74	9.8	1.0	0.3	2.9	76.0	0.16	0.36	0.29	19	0.85	0.041
1267746	Soil		0.32	19.89	24.68	66.4	119	22.0	9.0	456	2.92	6.5	0.8	0.5	2.8	108.6	0.24	0.31	0.35	15	1.07	0.060
1267747	Soil		0.62	15.88	43.41	655.6	103	22.1	12.2	2448	5.84	24.4	1.0	1.1	2.8	56.9	1.22	1.38	0.34	33	0.89	0.073
1267748	Soil		0.51	13.02	24.57	136.2	23	17.5	9.7	900	2.98	12.6	0.4	0.6	2.7	27.9	0.37	0.65	0.27	25	0.61	0.033
1267749	Soil		0.46	16.42	34.01	85.8	143	19.5	8.0	474	2.50	38.8	1.3	4.2	1.3	124.7	0.25	2.03	0.25	20	6.72	0.104
1267750	Soil		0.54	27.06	31.25	104.0	135	40.3	15.0	448	3.18	7.0	0.6	0.9	3.1	225.5	0.14	0.30	0.33	9	4.75	0.044
1267761	Soil		0.45	10.79	14.10	43.2	126	9.1	4.9	256	2.45	2.9	0.4	<0.2	2.4	6.7	0.09	0.20	0.28	36	0.07	0.021
1267762	Soil		0.40	13.11	16.36	103.9	270	18.6	12.0	659	3.10	3.7	0.3	0.5	2.7	12.8	0.11	0.16	0.27	33	0.17	0.034
1267763	Soil		0.37	10.05	16.39	74.7	37	14.7	7.3	232	3.55	3.8	0.4	<0.2	2.8	5.7	0.05	0.16	0.31	33	0.05	0.020
1267764	Soil		0.33	18.76	20.21	66.1	83	23.4	10.2	226	4.58	5.6	0.3	<0.2	3.1	3.8	0.02	0.15	0.37	31	0.02	0.026
1267765	Soil		0.56	9.46	13.95	57.8	85	14.0	6.6	208	3.09	4.0	0.3	0.7	3.2	8.2	0.05	0.25	0.28	37	0.07	0.021
1267766	Soil		0.49	15.85	22.31	98.6	36	27.3	12.4	282	3.74	5.2	0.4	0.9	3.9	5.9	0.06	0.23	0.28	37	0.05	0.015
1267767	Soil		0.34	9.98	13.79	76.8	111	17.8	9.1	272	3.32	3.4	0.4	0.9	3.0	8.2	0.04	0.15	0.30	32	0.07	0.015
1267768	Soil		0.42	13.60	18.13	54.1	31	17.7	8.7	260	3.45	6.6	0.3	0.3	2.9	6.7	0.05	0.24	0.27	35	0.05	0.013
1267769	Soil		0.37	12.30	9.33	62.0	16	18.6	10.3	167	2.69	2.2	0.4	0.3	2.8	5.0	0.03	0.15	0.34	33	0.03	0.015
1267770	Soil		0.28	32.00	20.19	74.4	35	28.9	11.2	269	4.01	6.7	0.4	0.4	4.5	5.3	0.02	0.22	0.30	29	0.03	0.016
1267771	Soil		0.37	10.78	17.46	47.7	52	15.3	7.4	227	3.14	5.0	0.3	4.3	1.8	5.1	0.06	0.23	0.52	29	0.05	0.016
1267772	Soil		0.75	13.88	17.45	89.7	121	11.9	7.7	381	2.33	3.9	0.2	2.6	0.7	7.5	0.35	0.41	0.43	25	0.08	0.032
1267773	Soil		0.47	18.45	31.92	74.2	150	24.2	9.8	312	4.18	6.2	0.8	2.3	2.7	40.9	0.07	0.23	0.52	13	0.57	0.062
1267774	Soil		0.58	11.14	25.48	66.0	41	13.9	7.7	272	3.07	10.6	0.4	2.4	2.0	16.8	0.06	0.44	0.38	31	0.18	0.026
1267775	Soil		0.41	14.92	22.90	51.1	103	18.1	9.2	385	2.59	5.5	0.4	1.2	3.3	49.7	0.06	0.18	0.32	15	0.38	0.024
1267776	Soil		0.61	15.34	23.24	57.4	108	17.2	7.5	458	2.75	11.1	0.6	0.4	2.4	59.9	0.17	0.45	0.59	29	0.84	0.036
1267777	Soil		0.39	13.49	24.39	71.7	93	16.4	6.6	581	2.13	18.9	0.5	3.8	0.9	247.0	0.20	1.20	0.31	14	7.10	0.075
1267778	Soil		1.22	11.16	32.31	88.3	24	22.7	22.8	1274	5.10	12.5	1.0	3.5	4.3	5.1	0.11	0.72	0.43	40	0.05	0.045
1267779	Soil		0.69	24.64	26.62	86.7	23	24.3	19.3	776	4.21	9.6	1.0	1.4	5.7	3.7	0.11	0.42	0.43	31	0.02	0.021
1267780	Soil		1.00	24.69	56.00	104.8	22	21.9	19.4	964	4.39	11.0	0.8	2.2	4.2	4.6	0.08	0.46	0.44	37	0.02	0.032
1267781	Soil		0.96	23.09	36.10	100.3	18	23.2	16.6	1152	4.02	10.2	0.8	1.9	3.8	4.5	0.15	0.47	0.42	36	0.02	0.033
1267782	Soil		1.36	19.35	31.41	81.2	19	18.8	13.7	1167	3.81	11.2	0.7	1.8	0.7	5.4	0.15	0.63	0.39	45	0.03	0.052



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267743	Soil	7.0	20.4	0.28	136.5	0.001	1	1.82	<0.001	0.07	<0.1	2.1	0.14	<0.02	14	<0.1	0.02	5.3	1.22	<0.1	0.04
1267744	Soil	9.3	16.4	0.24	207.5	0.003	3	1.17	0.001	0.13	<0.1	3.7	0.09	0.03	58	0.1	0.03	3.2	0.85	<0.1	0.04
1267745	Soil	14.7	13.8	0.16	324.8	0.005	4	1.05	0.002	0.11	<0.1	3.5	0.11	0.03	51	0.2	0.04	2.9	0.86	<0.1	0.02
1267746	Soil	12.2	13.5	0.18	272.1	0.003	4	1.09	0.002	0.11	<0.1	4.1	0.11	0.05	34	0.2	0.03	2.7	0.93	<0.1	0.06
1267747	Soil	12.4	25.5	0.30	346.3	0.006	4	1.86	0.003	0.13	<0.1	3.9	0.12	0.04	62	0.2	0.04	5.6	1.43	<0.1	0.07
1267748	Soil	8.1	19.2	0.31	168.7	0.004	3	1.34	<0.001	0.10	<0.1	2.7	0.11	0.03	60	0.2	0.03	4.1	0.71	<0.1	0.05
1267749	Soil	12.5	14.8	1.10	114.1	0.002	6	1.04	0.003	0.06	<0.1	2.1	0.11	0.05	413	0.4	0.05	2.6	0.58	<0.1	0.06
1267750	Soil	3.1	10.9	0.34	83.3	0.002	6	0.71	0.003	0.12	<0.1	3.5	0.14	0.10	81	0.4	0.05	2.0	2.71	<0.1	0.03
1267761	Soil	7.6	17.4	0.15	165.5	0.005	<1	1.24	0.001	0.09	<0.1	1.6	0.10	<0.02	14	<0.1	0.04	6.0	0.72	<0.1	<0.02
1267762	Soil	5.8	27.5	0.35	451.8	0.002	1	2.09	<0.001	0.16	<0.1	2.3	0.14	<0.02	19	<0.1	0.03	7.0	0.78	<0.1	0.02
1267763	Soil	5.2	24.4	0.32	117.7	0.002	<1	1.72	<0.001	0.09	<0.1	2.2	0.11	<0.02	68	<0.1	0.02	7.1	0.78	<0.1	0.03
1267764	Soil	3.6	32.8	0.46	81.5	0.002	<1	2.08	<0.001	0.06	<0.1	2.8	0.10	<0.02	29	0.1	0.02	7.8	1.23	<0.1	0.03
1267765	Soil	8.2	21.5	0.30	236.5	0.003	1	1.79	<0.001	0.11	<0.1	1.9	0.13	<0.02	12	<0.1	0.03	6.4	1.08	<0.1	0.03
1267766	Soil	7.3	34.1	0.53	103.4	0.006	1	2.27	<0.001	0.08	<0.1	2.6	0.13	<0.02	17	0.1	0.02	7.0	1.36	<0.1	0.06
1267767	Soil	6.2	27.3	0.41	105.7	0.005	<1	1.61	0.002	0.11	<0.1	2.3	0.09	<0.02	20	<0.1	0.03	6.9	1.20	<0.1	0.03
1267768	Soil	6.6	23.9	0.38	79.8	0.004	2	1.70	<0.001	0.06	<0.1	2.0	0.08	<0.02	50	<0.1	0.02	6.0	0.95	<0.1	0.03
1267769	Soil	5.2	26.7	0.42	111.3	0.009	2	1.64	0.001	0.13	<0.1	2.4	0.15	<0.02	15	<0.1	<0.02	7.3	2.26	<0.1	<0.02
1267770	Soil	4.4	30.7	0.54	91.6	0.004	1	2.00	<0.001	0.08	<0.1	3.1	0.10	<0.02	61	<0.1	0.02	6.4	1.26	<0.1	0.05
1267771	Soil	4.2	22.1	0.33	86.0	0.002	2	1.40	<0.001	0.06	<0.1	1.7	0.09	<0.02	40	0.1	0.02	6.0	0.59	<0.1	<0.02
1267772	Soil	3.3	8.6	0.03	86.8	0.004	2	0.48	0.001	0.06	<0.1	1.0	0.07	0.02	13	<0.1	0.03	2.8	1.43	<0.1	<0.02
1267773	Soil	6.9	7.5	0.06	165.0	<0.001	2	0.77	<0.001	0.06	<0.1	4.0	0.17	0.04	129	0.3	0.03	1.4	0.99	<0.1	0.04
1267774	Soil	5.1	16.1	0.20	171.6	0.002	2	1.25	<0.001	0.05	0.1	1.8	0.13	<0.02	28	0.2	0.04	4.4	1.10	<0.1	<0.02
1267775	Soil	7.3	10.7	0.14	153.4	0.001	2	1.02	0.001	0.08	<0.1	2.4	0.18	<0.02	69	0.2	<0.02	2.8	0.71	<0.1	0.04
1267776	Soil	7.0	18.2	0.21	227.3	0.003	2	1.36	0.002	0.07	0.1	2.3	0.12	0.03	67	0.3	0.04	4.1	0.94	<0.1	0.03
1267777	Soil	6.4	11.2	0.45	237.0	0.002	4	0.91	0.003	0.06	<0.1	1.5	0.08	0.12	128	0.4	0.02	2.1	0.37	<0.1	0.06
1267778	Soil	4.7	35.5	0.38	132.1	0.011	2	1.61	0.002	0.10	0.2	3.5	0.12	<0.02	22	0.4	0.09	6.3	5.83	<0.1	<0.02
1267779	Soil	2.2	31.3	0.39	76.8	0.005	2	1.56	0.003	0.10	0.2	3.3	0.14	<0.02	29	0.2	0.03	5.2	3.22	<0.1	0.04
1267780	Soil	4.9	31.2	0.38	88.0	0.006	2	1.76	0.002	0.10	0.1	3.1	0.19	<0.02	18	0.3	0.04	6.3	3.04	<0.1	0.03
1267781	Soil	5.4	31.0	0.41	90.6	0.006	2	1.69	0.002	0.09	0.1	2.9	0.16	<0.02	34	0.2	0.05	5.9	2.47	<0.1	0.02
1267782	Soil	6.8	30.5	0.34	84.5	0.008	1	1.64	0.002	0.07	0.2	1.4	0.15	0.03	16	0.4	0.05	6.8	2.36	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 5 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1267743	Soil	0.28	13.4	0.7	<0.05	1.6	2.43	16.2	0.04	<1	0.6	25.7	<10	<2
1267744	Soil	0.36	11.6	0.5	<0.05	1.4	7.96	35.0	0.03	<1	0.9	16.5	<10	<2
1267745	Soil	0.43	11.9	0.6	<0.05	1.3	10.51	49.9	0.03	<1	0.9	10.4	<10	<2
1267746	Soil	0.42	14.0	0.6	<0.05	2.1	12.99	35.5	0.04	<1	0.9	16.6	<10	<2
1267747	Soil	0.68	16.2	0.8	<0.05	2.1	10.93	30.1	0.03	<1	1.1	14.3	<10	<2
1267748	Soil	0.53	10.2	0.5	<0.05	1.6	4.86	23.8	0.02	<1	0.7	16.6	<10	<2
1267749	Soil	0.36	4.9	0.5	<0.05	2.1	15.22	24.1	0.02	2	0.7	9.4	<10	<2
1267750	Soil	0.09	9.8	3.5	<0.05	1.9	8.36	9.3	0.03	<1	0.8	27.9	<10	<2
1267761	Soil	0.74	17.3	1.0	<0.05	0.5	1.91	15.7	<0.02	<1	0.2	9.1	<10	<2
1267762	Soil	0.43	18.9	1.1	<0.05	1.1	2.25	12.9	0.03	<1	0.8	30.7	<10	<2
1267763	Soil	0.46	15.9	0.9	<0.05	1.2	2.17	10.9	0.03	<1	0.5	27.7	<10	<2
1267764	Soil	0.43	13.4	0.8	<0.05	1.6	2.90	8.4	0.03	<1	0.8	40.9	<10	<2
1267765	Soil	0.58	20.0	1.1	<0.05	1.4	2.34	17.1	0.03	<1	0.9	26.8	<10	<2
1267766	Soil	0.56	20.5	0.9	<0.05	1.8	2.61	15.9	0.03	<1	0.9	41.5	<10	<2
1267767	Soil	0.63	19.6	0.9	<0.05	1.1	2.21	13.0	0.03	<1	0.5	27.6	<10	<2
1267768	Soil	0.50	14.3	0.7	<0.05	1.6	2.29	13.8	0.03	<1	0.5	33.3	<10	<2
1267769	Soil	0.79	24.9	1.5	<0.05	0.6	2.30	11.4	0.02	<1	0.5	17.7	<10	<2
1267770	Soil	0.34	13.5	0.9	<0.05	2.1	2.65	10.6	0.03	<1	1.4	36.5	<10	<2
1267771	Soil	0.44	13.9	1.0	<0.05	0.5	1.96	9.9	0.04	<1	0.5	17.3	<10	<2
1267772	Soil	0.32	10.1	1.7	<0.05	0.2	1.22	7.1	<0.02	3	0.3	2.4	<10	<2
1267773	Soil	0.09	10.7	0.7	<0.05	1.6	13.14	24.2	0.06	<1	1.1	6.5	<10	<2
1267774	Soil	0.44	11.1	0.7	<0.05	0.5	2.18	11.8	0.04	2	0.6	15.0	<10	<2
1267775	Soil	0.18	10.8	0.6	<0.05	0.9	5.81	33.0	0.04	<1	0.8	11.4	<10	<2
1267776	Soil	0.68	10.9	0.6	<0.05	1.5	4.30	18.8	0.02	<1	0.6	14.5	<10	<2
1267777	Soil	0.24	3.8	0.4	<0.05	1.6	7.48	16.8	0.02	<1	0.6	7.3	<10	<2
1267778	Soil	0.62	14.8	1.9	<0.05	0.6	4.63	13.5	0.05	<1	1.7	25.4	<10	<2
1267779	Soil	0.46	13.9	1.5	<0.05	1.6	5.17	6.1	0.05	1	1.0	25.7	<10	<2
1267780	Soil	0.57	15.4	2.4	<0.05	1.5	4.36	11.9	0.05	<1	0.8	22.6	<10	<2
1267781	Soil	0.59	14.7	1.1	<0.05	1.2	4.60	13.5	0.04	<1	0.8	25.5	<10	<2
1267782	Soil	0.48	12.6	1.2	<0.05	0.2	3.84	15.8	0.04	<1	0.6	17.9	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1267783	Soil			1.01	26.42	89.96	238.8	18	37.9	18.6	1862	4.95	11.3	1.1	2.5	5.7	5.1	0.27	0.47	0.35	34	0.03	0.049
1267784	Soil			1.25	21.10	25.34	76.0	5	20.7	14.3	1230	3.63	12.1	0.9	0.6	3.2	5.3	0.12	0.56	0.35	43	0.03	0.033
1267785	Soil			0.94	18.96	35.17	78.3	10	24.8	19.5	1309	4.51	13.0	0.8	1.3	5.4	3.8	0.10	0.44	0.41	31	0.02	0.034
1267786	Soil			1.32	9.36	14.40	35.7	7	7.8	9.4	847	2.32	9.7	0.6	1.3	2.2	4.4	0.07	0.57	0.32	46	0.02	0.022
1267787	Soil			1.40	107.0	41.40	85.2	7	25.9	24.4	4046	4.51	27.5	1.3	0.6	6.1	5.0	0.14	0.58	0.51	33	0.02	0.048
617040	Soil			0.46	20.45	21.45	67.9	44	20.3	9.7	324	3.25	22.2	0.8	1.7	2.8	54.0	0.08	0.53	0.29	18	0.69	0.022
617041	Soil			0.50	22.60	28.15	77.3	153	24.8	11.5	473	3.45	24.9	1.1	4.3	3.4	55.3	0.08	0.89	0.33	21	1.34	0.054
617072	Soil			0.55	16.91	39.56	66.9	186	16.5	8.2	1619	3.33	20.3	0.7	2.9	1.7	43.7	0.20	1.97	0.20	20	6.75	0.088
617073	Soil			0.58	16.44	24.40	87.2	191	19.9	9.5	1456	3.40	16.2	0.6	1.0	2.6	45.6	0.18	0.87	0.24	23	5.43	0.059
617074	Soil			0.59	18.24	22.52	103.7	74	22.7	10.5	641	3.65	10.2	0.8	<0.2	3.3	19.7	0.21	0.54	0.28	28	1.08	0.032
617075	Soil			0.54	25.05	25.17	84.0	138	29.1	11.6	416	3.64	12.4	0.7	1.3	4.8	40.6	0.11	0.59	0.31	21	1.17	0.039
617076	Soil			0.42	20.98	25.41	76.0	82	24.5	10.5	455	3.83	13.0	0.9	1.1	3.9	23.7	0.08	0.59	0.31	20	0.67	0.024
617077	Soil			0.56	20.11	30.37	78.8	78	22.8	11.5	1258	4.24	13.3	1.0	1.1	4.1	20.0	0.19	0.56	0.29	24	1.57	0.029
617078	Soil			0.46	21.90	25.98	63.1	166	22.7	10.8	960	3.37	14.6	0.7	2.0	2.5	34.0	0.13	1.00	0.26	21	4.41	0.060
617079	Soil			0.58	21.09	29.16	85.4	38	24.3	12.3	1062	4.07	14.7	0.8	1.0	4.7	17.2	0.19	0.76	0.31	26	1.67	0.025
617080	Soil			0.60	20.90	20.61	75.1	138	24.0	10.3	672	3.30	12.6	1.0	2.1	2.0	30.0	0.12	0.79	0.28	25	2.04	0.047
617081	Soil			0.50	23.64	22.04	76.3	127	24.8	11.4	522	3.46	12.7	0.8	0.6	3.0	50.2	0.16	0.69	0.29	22	2.22	0.051
617082	Soil			0.57	19.82	21.79	71.4	113	24.6	10.2	636	3.69	12.6	0.7	0.8	3.6	20.1	0.14	0.62	0.27	23	1.29	0.036
617083	Soil			0.44	24.59	24.43	78.7	109	22.4	9.0	542	3.47	11.3	0.8	1.2	2.6	39.8	0.16	0.57	0.28	18	2.22	0.056
617084	Soil			0.51	25.67	22.92	109.3	151	23.2	11.1	419	3.29	12.4	0.9	1.6	2.0	59.5	0.19	0.60	0.29	15	1.45	0.061
617085	Soil			0.56	40.54	28.89	107.5	157	31.8	15.1	445	3.83	18.7	1.0	2.3	3.6	82.8	0.19	3.00	0.33	15	1.97	0.059
617086	Soil			0.42	27.07	28.93	76.2	157	25.3	10.8	389	3.32	12.0	0.8	1.5	2.5	72.6	0.11	0.64	0.32	15	1.54	0.037
617087	Soil			0.37	27.19	29.65	81.9	133	27.4	12.7	531	3.20	10.6	0.7	1.1	2.7	84.3	0.13	0.59	0.30	10	3.53	0.054
617088	Soil			0.39	24.79	27.80	75.4	150	24.5	9.9	444	3.18	11.1	1.2	3.0	2.0	65.7	0.19	0.70	0.30	12	1.76	0.052
617089	Soil			0.34	29.39	27.01	90.0	116	22.0	9.3	465	3.00	14.0	4.4	4.6	1.4	82.8	0.22	0.80	0.33	13	2.44	0.052
617090	Soil			0.59	22.17	30.59	119.7	132	24.3	11.3	1086	3.97	17.8	1.4	3.2	2.2	39.4	0.31	1.07	0.32	21	1.60	0.061
617091	Soil			0.38	31.17	30.46	85.5	132	28.7	12.4	404	3.18	9.9	0.7	0.9	2.7	188.4	0.11	0.44	0.27	11	4.32	0.045
617092	Soil			0.39	30.70	25.95	95.6	145	28.0	11.9	396	3.17	9.1	0.6	1.1	2.2	104.9	0.11	0.46	0.29	12	2.22	0.048
617093	Soil			0.43	28.22	24.26	98.1	175	30.1	10.8	322	3.22	13.7	0.5	1.2	2.0	134.0	0.19	0.44	0.36	16	2.55	0.043
617094	Soil			0.63	35.77	32.04	107.1	171	32.5	14.8	487	4.20	16.7	0.9	1.8	4.2	57.3	0.17	0.75	0.34	17	0.56	0.061



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1267783	Soil	6.4	32.8	0.42	150.4	0.004	2	2.06	0.002	0.13	0.1	4.5	0.28	<0.02	35	0.2	0.07	5.2	2.42	<0.1	0.05
1267784	Soil	6.2	29.3	0.34	125.0	0.007	2	1.60	0.002	0.08	0.2	3.1	0.16	<0.02	11	0.3	0.06	5.8	2.93	<0.1	<0.02
1267785	Soil	3.3	34.8	0.38	63.0	0.006	2	1.72	0.002	0.09	0.2	3.0	0.13	<0.02	29	0.4	0.05	5.3	3.18	<0.1	0.07
1267786	Soil	10.8	17.5	0.11	86.2	0.012	<1	0.97	0.001	0.06	0.2	1.8	0.13	<0.02	8	0.2	<0.02	6.0	2.24	<0.1	<0.02
1267787	Soil	3.9	32.1	0.44	92.1	0.007	2	1.70	0.002	0.09	0.2	3.8	0.10	<0.02	23	0.3	0.06	5.2	4.98	<0.1	0.04
617040	Soil	5.5	17.1	0.25	128.4	0.001	2	1.12	<0.001	0.06	<0.1	3.4	0.10	0.02	92	0.3	0.03	3.0	0.73	<0.1	0.03
617041	Soil	12.4	18.6	0.49	157.6	0.002	3	1.18	0.002	0.05	<0.1	4.6	0.10	0.03	251	0.3	0.05	3.1	0.90	<0.1	0.03
617072	Soil	7.0	15.3	4.59	102.3	0.003	5	1.18	0.005	0.09	<0.1	2.6	0.14	0.08	117	0.4	0.03	2.8	0.60	<0.1	0.05
617073	Soil	8.4	18.1	3.48	98.7	0.006	8	1.24	0.005	0.13	<0.1	3.6	0.09	0.06	123	0.4	<0.02	3.0	0.72	<0.1	0.05
617074	Soil	8.6	22.1	0.76	129.1	0.004	2	1.47	0.002	0.09	<0.1	3.7	0.11	0.02	49	0.3	<0.02	4.3	1.13	<0.1	0.05
617075	Soil	10.6	20.7	0.61	106.7	0.004	4	1.22	0.003	0.09	<0.1	5.4	0.10	0.03	142	0.2	0.05	3.5	1.03	0.1	0.05
617076	Soil	7.1	20.5	0.42	101.6	0.001	3	1.44	0.001	0.11	<0.1	4.2	0.10	<0.02	110	0.1	<0.02	3.8	0.88	<0.1	0.07
617077	Soil	11.1	19.9	0.95	105.8	0.003	4	1.39	0.003	0.11	<0.1	4.7	0.13	0.03	118	0.3	0.05	3.7	0.78	<0.1	0.05
617078	Soil	8.5	18.4	2.89	81.1	0.003	5	1.23	0.004	0.10	<0.1	3.7	0.11	0.07	197	0.4	<0.02	3.1	0.92	<0.1	0.08
617079	Soil	10.3	21.4	1.17	118.0	0.003	3	1.47	0.002	0.09	<0.1	4.5	0.12	0.03	129	0.2	0.03	3.9	0.74	<0.1	0.07
617080	Soil	8.9	20.3	1.22	137.9	0.008	3	1.22	0.004	0.08	<0.1	3.1	0.09	0.05	172	0.4	0.03	3.3	1.25	<0.1	0.03
617081	Soil	8.8	18.9	1.10	125.8	0.004	3	1.30	0.003	0.08	<0.1	4.3	0.09	0.04	209	0.3	0.05	3.6	0.94	<0.1	0.05
617082	Soil	8.9	20.7	0.88	120.9	0.002	2	1.46	0.002	0.08	<0.1	4.1	0.10	0.03	144	0.3	0.03	3.9	0.93	<0.1	0.06
617083	Soil	9.9	16.2	1.19	102.4	0.003	3	1.09	0.004	0.07	<0.1	4.2	0.09	0.05	162	0.5	0.02	2.9	0.96	<0.1	0.06
617084	Soil	6.5	16.1	0.55	80.3	0.003	4	0.90	0.003	0.07	<0.1	4.1	0.08	0.06	145	0.5	0.05	2.6	1.43	<0.1	0.02
617085	Soil	7.5	18.0	0.81	78.7	0.002	4	1.12	0.003	0.09	<0.1	5.4	0.10	0.06	330	0.4	0.06	3.0	1.82	<0.1	0.07
617086	Soil	6.7	15.2	0.49	92.7	0.001	4	1.08	0.002	0.10	<0.1	4.2	0.09	0.04	308	0.3	0.02	3.0	0.79	<0.1	0.06
617087	Soil	4.8	10.4	1.45	75.2	0.001	4	0.72	0.003	0.11	<0.1	4.0	0.11	0.07	326	0.5	0.03	1.9	1.49	<0.1	0.03
617088	Soil	6.0	12.1	0.54	97.7	0.001	5	0.85	0.002	0.09	<0.1	3.6	0.09	0.06	279	0.4	<0.02	2.3	0.76	<0.1	0.03
617089	Soil	5.2	13.5	0.77	126.7	0.001	5	0.99	0.003	0.07	<0.1	2.9	0.11	0.06	165	0.6	0.03	2.5	0.64	<0.1	0.05
617090	Soil	8.8	17.9	0.87	109.6	0.003	3	1.09	0.004	0.07	<0.1	3.4	0.09	0.04	169	0.3	0.04	3.0	0.78	<0.1	0.05
617091	Soil	4.6	12.5	0.65	96.2	0.001	4	0.87	0.004	0.09	<0.1	3.8	0.12	0.04	157	0.4	0.03	2.5	1.55	<0.1	0.06
617092	Soil	5.3	12.9	0.57	103.3	0.001	3	0.86	0.003	0.09	<0.1	3.9	0.11	0.05	223	0.3	0.03	2.5	1.23	<0.1	0.04
617093	Soil	5.4	15.4	0.36	87.1	0.002	3	0.95	0.004	0.06	<0.1	4.2	0.09	0.06	142	0.5	0.02	2.6	1.51	<0.1	0.05
617094	Soil	10.1	18.8	0.41	81.2	0.002	2	1.10	0.003	0.05	<0.1	5.4	0.10	<0.02	407	0.4	0.05	3.0	1.65	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 6 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1267783	Soil	0.32	16.2	0.8	<0.05	1.8	6.57	24.0	0.06	<1	1.9	32.7	<10	<2
1267784	Soil	0.48	14.8	0.9	<0.05	0.8	4.99	15.0	0.04	<1	1.4	23.4	<10	<2
1267785	Soil	0.58	14.0	1.2	<0.05	2.0	4.37	9.1	0.06	<1	1.0	31.1	<10	<2
1267786	Soil	0.71	12.0	1.0	<0.05	0.2	2.95	22.0	0.02	<1	0.6	5.8	<10	<2
1267787	Soil	0.43	12.5	1.3	<0.05	1.6	4.55	14.3	0.07	<1	1.4	26.1	<10	<2
617040	Soil	0.23	9.7	0.5	<0.05	1.4	5.31	17.3	0.04	<1	0.9	23.4	<10	<2
617041	Soil	0.34	7.6	0.6	<0.05	1.4	12.08	29.8	0.04	<1	0.9	22.3	<10	<2
617072	Soil	0.22	6.8	0.4	<0.05	1.6	8.16	16.5	<0.02	<1	0.8	12.1	<10	<2
617073	Soil	0.48	8.7	0.6	<0.05	1.4	10.52	20.5	0.03	<1	1.0	15.8	<10	<2
617074	Soil	0.46	10.5	0.6	<0.05	1.9	7.64	20.1	0.03	<1	1.1	21.9	<10	<2
617075	Soil	0.39	7.3	0.5	<0.05	2.6	15.49	22.6	0.04	<1	1.1	25.3	<10	<2
617076	Soil	0.22	10.4	0.5	<0.05	2.5	9.62	15.0	0.04	<1	0.9	27.0	<10	<2
617077	Soil	0.39	11.0	0.7	<0.05	1.9	12.46	27.8	0.03	<1	1.0	20.3	<10	<2
617078	Soil	0.26	8.0	0.5	<0.05	2.1	11.08	17.8	0.03	<1	0.9	20.2	<10	<2
617079	Soil	0.30	9.4	0.5	<0.05	2.3	9.90	27.1	0.04	<1	1.1	22.6	<10	<2
617080	Soil	0.48	10.3	0.5	<0.05	1.2	7.41	19.2	0.03	<1	0.7	23.0	<10	<2
617081	Soil	0.33	9.0	0.6	<0.05	1.7	11.29	17.6	0.03	<1	0.9	26.0	<10	<2
617082	Soil	0.31	9.3	0.5	<0.05	2.0	9.62	18.7	0.03	<1	1.0	25.4	<10	<2
617083	Soil	0.26	8.2	0.4	<0.05	1.8	13.60	20.2	0.03	1	1.0	22.9	<10	<2
617084	Soil	0.23	8.0	0.4	<0.05	1.5	9.12	17.0	0.04	<1	0.8	26.1	<10	<2
617085	Soil	0.15	6.0	1.1	<0.05	2.7	12.08	17.1	0.05	1	1.0	31.6	<10	<2
617086	Soil	0.22	7.0	0.4	<0.05	1.6	10.15	16.0	0.05	<1	1.0	21.8	<10	<2
617087	Soil	0.09	6.6	0.5	<0.05	1.7	7.91	13.4	0.04	<1	0.7	17.5	<10	<2
617088	Soil	0.16	6.1	0.5	<0.05	1.4	9.31	15.4	0.03	1	0.9	17.6	<10	<2
617089	Soil	0.19	5.3	4.5	<0.05	2.0	8.97	12.4	0.04	<1	0.9	22.1	<10	<2
617090	Soil	0.33	6.2	0.4	<0.05	1.7	10.24	22.4	0.03	<1	0.9	20.7	<10	<2
617091	Soil	0.12	5.4	0.3	<0.05	2.3	8.26	12.9	0.03	<1	0.9	23.7	<10	<2
617092	Soil	0.16	6.1	0.3	<0.05	2.2	8.75	14.2	0.04	<1	0.8	22.4	<10	<2
617093	Soil	0.24	7.5	0.3	<0.05	1.3	8.59	11.8	0.03	<1	0.9	23.9	<10	<2
617094	Soil	0.19	5.7	0.5	<0.05	2.0	12.80	23.3	0.04	<1	0.9	43.5	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
617095	Soil			0.44	28.56	19.51	83.0	161	26.1	10.2	293	3.20	9.5	1.0	1.6	3.0	57.1	0.15	0.39	0.28	20	0.74	0.067
617096	Soil			0.34	19.61	20.19	99.7	80	21.1	9.4	323	2.93	16.3	0.7	1.7	2.0	61.2	0.17	0.45	0.22	14	1.02	0.040
617097	Soil			0.49	18.83	26.91	105.5	137	21.7	9.5	876	3.37	13.7	1.5	2.2	1.9	95.6	0.29	0.71	0.25	20	2.66	0.071
617098	Soil			0.40	21.49	28.03	185.0	160	24.5	9.8	488	2.92	13.9	1.0	2.8	2.1	104.7	0.33	0.68	0.25	16	2.72	0.073
617099	Soil			0.43	25.71	20.12	103.1	119	28.6	12.5	398	3.18	28.9	0.9	3.9	3.8	53.3	0.22	0.82	0.25	17	0.92	0.039
617100	Soil			0.47	22.69	22.57	88.7	87	25.2	10.9	442	3.13	26.7	0.7	2.0	3.6	42.4	0.18	0.71	0.24	16	0.85	0.033
1267251	Soil			0.33	13.97	46.97	275.8	95	15.6	9.1	591	2.36	19.9	0.8	<0.2	1.1	90.7	0.68	0.57	0.26	23	4.25	0.110
1267252	Soil			0.57	16.37	32.74	204.2	134	17.4	6.8	611	2.16	47.6	1.2	6.1	0.6	70.1	0.57	2.00	0.19	16	3.59	0.134
1267253	Soil			0.47	13.24	36.77	196.3	160	13.4	5.0	880	2.31	56.9	1.5	3.2	0.6	69.5	0.52	2.15	0.16	19	5.59	0.194
1267254	Soil			0.59	20.24	102.3	191.2	186	24.8	14.7	1280	2.87	440.8	1.2	3.4	1.1	38.7	0.34	68.03	0.28	18	2.44	0.214
1267469	Soil			0.51	16.93	24.23	104.0	628	20.9	14.6	639	4.09	5.7	0.4	0.4	2.4	8.8	0.23	0.32	0.35	31	0.07	0.053
1267470	Soil			0.80	19.35	24.12	86.0	107	23.9	12.5	487	4.66	7.1	0.5	0.3	3.5	7.0	0.18	0.38	0.39	33	0.04	0.068
1267471	Soil			0.48	30.83	34.31	85.8	138	29.5	20.6	894	3.89	8.2	0.7	0.5	4.5	11.7	0.10	0.46	0.33	25	0.15	0.044
1267472	Soil			0.58	20.29	33.54	110.5	109	17.1	13.6	1450	4.74	4.1	0.5	1.5	1.1	6.1	0.26	0.26	0.33	35	0.05	0.110
1267473	Soil			0.56	26.57	23.97	94.1	37	32.1	17.7	729	3.93	5.7	0.7	0.2	5.0	7.7	0.11	0.41	0.30	35	0.07	0.031
1267474	Soil			0.89	12.59	17.14	63.0	107	14.0	5.9	242	3.41	7.9	0.5	1.1	2.9	6.1	0.09	0.46	0.25	44	0.04	0.046
1267475	Soil			0.89	17.47	18.01	72.6	71	25.5	9.8	243	3.16	8.3	0.7	0.5	5.0	6.8	0.09	0.46	0.23	42	0.05	0.017
1267476	Soil			0.35	17.22	23.55	95.7	86	19.4	10.4	273	3.41	4.8	0.4	<0.2	3.5	10.9	0.04	0.13	0.34	31	0.05	0.028
1267477	Soil			0.76	18.14	22.46	73.0	73	23.8	9.6	259	4.02	8.5	0.5	<0.2	3.6	5.3	0.08	0.41	0.29	33	0.02	0.027
1267478	Soil			0.56	17.46	19.67	61.9	67	15.7	9.8	381	4.68	5.8	0.5	<0.2	3.2	3.9	0.04	0.22	0.35	41	0.02	0.042
1267479	Soil			1.10	10.45	16.47	55.8	141	14.0	7.7	266	2.80	6.2	0.5	0.6	4.0	5.9	0.07	0.34	0.25	50	0.05	0.016
1267480	Soil			0.22	36.28	27.56	89.0	143	35.0	17.1	509	3.76	5.7	0.4	0.8	5.2	39.6	0.08	0.16	0.26	20	0.81	0.033
1267481	Soil			0.42	31.58	26.12	67.0	190	28.3	13.5	565	3.27	4.4	0.7	0.4	1.6	79.1	0.11	0.20	0.21	18	1.34	0.095
1267482	Soil			0.57	41.61	34.00	95.4	208	34.8	14.9	521	4.22	9.7	0.8	0.6	2.6	53.7	0.17	0.31	0.28	20	1.05	0.079
1267483	Soil			0.61	40.75	29.84	91.4	169	35.3	14.4	421	4.44	7.5	0.5	0.2	3.7	47.3	0.14	0.24	0.25	20	0.96	0.066
1267484	Soil			0.97	30.31	48.67	107.3	159	27.1	20.1	967	4.45	8.9	0.9	0.2	3.2	20.3	0.17	0.47	0.32	27	0.31	0.100
1267485	Soil			1.11	29.16	29.44	81.2	335	27.8	12.7	547	3.78	7.9	1.6	0.4	2.9	80.1	0.18	0.42	0.24	19	1.31	0.118
1267486	Soil			1.11	21.16	28.16	92.8	212	17.3	13.5	1266	3.58	6.6	0.8	<0.2	1.2	32.5	0.32	0.39	0.26	21	0.58	0.141
1267487	Soil			0.91	27.36	35.42	79.3	153	28.2	17.7	693	4.74	14.4	0.7	<0.2	2.3	6.4	0.15	0.42	0.34	27	0.04	0.077
1267488	Soil			0.48	26.50	25.60	71.2	224	28.3	13.4	292	3.51	10.1	0.7	0.5	2.2	109.2	0.11	0.30	0.26	10	2.97	0.061



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
			ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
			0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02	
617095	Soil		10.3	21.4	0.46	88.4	0.003	2	1.12	0.004	0.05	<0.1	4.4	0.07	0.02	204	0.4	0.03	3.5	0.78	<0.1	0.05
617096	Soil		4.8	14.1	0.32	93.4	0.001	2	0.84	0.004	0.06	<0.1	2.7	0.06	0.05	261	0.5	<0.02	2.6	0.63	<0.1	0.04
617097	Soil		8.8	15.4	0.98	146.9	0.003	3	0.99	0.004	0.06	<0.1	3.5	0.08	0.05	316	0.5	0.03	2.8	0.82	<0.1	0.03
617098	Soil		7.3	13.8	0.99	119.0	0.002	3	0.88	0.005	0.07	<0.1	3.3	0.08	0.03	479	0.5	0.03	2.4	0.67	<0.1	0.04
617099	Soil		8.8	18.2	0.46	78.6	0.002	2	0.92	0.004	0.07	<0.1	5.2	0.08	0.02	204	0.3	0.03	2.9	1.02	<0.1	0.06
617100	Soil		9.1	16.0	0.38	87.4	0.002	2	0.81	0.003	0.06	<0.1	4.6	0.07	0.03	241	0.4	<0.02	2.5	0.73	<0.1	0.05
1267251	Soil		17.2	14.8	0.39	330.5	0.002	3	1.26	0.004	0.07	<0.1	1.9	0.05	0.07	158	0.3	0.03	3.3	0.33	<0.1	0.04
1267252	Soil		8.6	12.0	0.87	105.4	0.003	3	0.81	0.004	0.06	<0.1	1.1	0.09	0.11	328	0.5	0.04	2.0	0.79	<0.1	0.04
1267253	Soil		13.1	13.4	2.33	96.8	0.003	2	0.93	0.005	0.04	<0.1	1.2	0.06	0.09	564	0.5	0.04	1.9	0.54	<0.1	0.04
1267254	Soil		20.0	13.4	0.27	79.2	0.002	4	0.97	0.004	0.11	<0.1	1.6	0.28	0.14	6158	0.5	0.04	3.0	0.44	<0.1	0.07
1267469	Soil		4.8	30.9	0.36	164.7	0.005	<1	1.63	0.003	0.18	<0.1	2.2	0.11	0.02	<5	0.2	0.03	7.2	1.44	<0.1	0.02
1267470	Soil		5.3	32.2	0.42	106.4	0.005	<1	1.93	0.004	0.11	<0.1	2.3	0.10	0.02	67	0.3	0.04	6.6	1.94	<0.1	0.04
1267471	Soil		9.7	26.8	0.42	118.0	0.003	<1	1.63	0.004	0.10	<0.1	4.0	0.08	<0.02	74	0.1	0.02	5.4	1.13	<0.1	0.05
1267472	Soil		4.6	31.8	0.25	148.2	0.006	<1	1.64	0.003	0.16	<0.1	1.4	0.11	0.05	53	0.3	0.04	7.2	1.29	<0.1	0.02
1267473	Soil		6.5	32.9	0.57	116.8	0.009	<1	1.91	0.005	0.12	<0.1	3.6	0.12	<0.02	57	0.2	<0.02	6.5	2.02	<0.1	0.04
1267474	Soil		9.2	23.9	0.28	79.2	0.007	<1	1.49	0.004	0.06	0.1	2.1	0.12	<0.02	48	0.2	0.02	6.3	1.15	<0.1	<0.02
1267475	Soil		10.9	30.3	0.51	81.3	0.012	<1	1.85	0.004	0.06	0.2	2.8	0.12	<0.02	54	0.2	<0.02	5.5	1.44	<0.1	0.04
1267476	Soil		4.0	30.5	0.37	147.7	0.001	<1	2.06	0.004	0.12	<0.1	2.7	0.11	<0.02	19	<0.1	0.03	7.9	0.94	<0.1	0.03
1267477	Soil		6.4	27.7	0.39	61.7	0.004	<1	1.82	0.003	0.08	<0.1	2.5	0.10	<0.02	104	0.2	0.03	5.7	1.53	<0.1	0.04
1267478	Soil		4.2	30.9	0.27	47.4	0.004	<1	1.70	0.005	0.09	<0.1	2.4	0.11	<0.02	37	0.3	0.05	8.3	1.90	<0.1	0.03
1267479	Soil		9.5	25.5	0.31	93.1	0.010	<1	1.74	0.004	0.05	0.1	2.0	0.13	<0.02	21	0.1	0.02	6.3	1.15	<0.1	0.06
1267480	Soil		5.4	27.5	0.46	96.5	0.004	3	1.33	0.003	0.08	<0.1	7.3	0.09	0.03	53	0.3	0.04	4.9	2.40	<0.1	0.07
1267481	Soil		6.4	21.3	0.30	158.9	0.003	2	1.26	0.003	0.07	<0.1	4.9	0.09	0.10	62	0.3	0.02	4.3	1.45	<0.1	0.06
1267482	Soil		8.9	23.4	0.38	159.3	0.004	3	1.28	0.005	0.08	<0.1	8.1	0.10	0.08	51	0.4	0.06	4.4	2.05	<0.1	0.07
1267483	Soil		5.3	24.4	0.35	158.1	0.003	3	1.25	0.003	0.07	<0.1	8.7	0.13	0.07	58	0.3	0.03	4.4	2.39	<0.1	0.05
1267484	Soil		5.6	24.6	0.34	131.1	0.004	1	1.52	0.003	0.08	<0.1	5.0	0.11	0.05	18	0.2	0.04	4.8	3.28	<0.1	0.05
1267485	Soil		10.3	20.1	0.30	125.9	0.002	3	1.16	0.004	0.09	<0.1	6.6	0.10	0.10	58	0.4	0.04	3.4	1.50	<0.1	0.09
1267486	Soil		3.5	20.9	0.18	103.7	0.003	1	0.89	0.003	0.08	<0.1	2.7	0.08	0.11	38	0.3	0.04	3.7	1.65	<0.1	0.02
1267487	Soil		4.1	24.7	0.29	120.9	0.003	1	1.66	0.003	0.08	<0.1	3.3	0.09	0.04	47	0.3	0.08	4.5	2.34	<0.1	0.06
1267488	Soil		7.5	7.3	0.12	107.1	0.001	2	0.47	0.002	0.07	<0.1	4.0	0.10	0.05	60	0.4	0.04	1.1	0.34	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 7 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
617095	Soil			0.31	6.1	0.4	<0.05	1.8	11.79	21.8	0.03	<1	1.0	35.2	<10	3
617096	Soil			0.21	4.9	0.3	<0.05	1.5	5.93	11.1	0.03	<1	0.6	19.7	<10	<2
617097	Soil			0.38	6.3	0.6	<0.05	1.3	10.94	23.0	0.03	<1	0.7	23.0	<10	<2
617098	Soil			0.24	5.1	0.3	<0.05	1.3	9.04	18.7	0.03	<1	0.8	20.2	<10	<2
617099	Soil			0.24	5.5	0.4	<0.05	2.3	10.58	21.5	0.04	<1	0.8	26.3	<10	<2
617100	Soil			0.23	5.3	0.3	<0.05	1.8	11.40	24.3	0.03	<1	0.9	20.3	<10	<2
1267251	Soil			0.41	4.4	0.6	<0.05	1.5	11.68	33.0	0.03	<1	0.8	9.9	<10	<2
1267252	Soil			0.32	5.5	0.3	<0.05	1.1	9.75	19.4	0.03	<1	0.6	7.5	<10	<2
1267253	Soil			0.19	4.7	0.6	<0.05	1.1	14.78	24.5	0.02	<1	0.7	5.4	<10	<2
1267254	Soil			0.22	5.6	0.4	<0.05	1.6	21.55	37.0	0.02	<1	1.1	7.5	<10	<2
1267469	Soil			0.54	20.3	1.0	<0.05	0.8	2.68	12.0	0.03	<1	0.9	31.1	<10	<2
1267470	Soil			0.78	13.8	0.7	<0.05	1.4	2.99	13.1	0.03	<1	1.1	34.0	<10	<2
1267471	Soil			0.33	10.7	0.9	<0.05	1.5	10.71	24.5	0.03	<1	1.6	31.5	<10	<2
1267472	Soil			0.69	18.2	0.8	<0.05	0.7	2.80	11.7	0.03	<1	0.9	14.4	<10	<2
1267473	Soil			0.57	15.7	0.8	<0.05	1.5	5.21	17.5	0.03	<1	1.4	33.2	<10	<2
1267474	Soil			1.07	11.3	0.7	<0.05	0.7	2.65	19.3	0.03	<1	0.4	16.3	<10	<2
1267475	Soil			0.85	11.0	0.8	<0.05	2.0	3.21	23.5	0.03	<1	0.8	30.5	<10	<2
1267476	Soil			0.25	16.4	1.1	<0.05	1.5	2.41	9.6	0.03	<1	1.1	41.3	<10	<2
1267477	Soil			0.58	12.9	0.7	<0.05	1.9	2.86	13.9	0.03	<1	0.9	42.2	<10	<2
1267478	Soil			0.90	16.0	1.1	<0.05	1.5	2.40	9.7	0.04	<1	0.5	21.7	<10	<2
1267479	Soil			0.94	14.4	0.8	<0.05	2.4	2.25	19.5	0.03	<1	0.6	25.8	<10	<2
1267480	Soil			0.27	7.5	0.6	<0.05	2.2	12.28	17.5	0.05	<1	1.0	52.2	<10	<2
1267481	Soil			0.37	7.4	0.7	<0.05	1.6	18.49	20.4	0.03	<1	1.3	34.1	<10	<2
1267482	Soil			0.31	7.3	1.3	<0.05	2.2	25.91	23.0	0.05	<1	1.1	42.7	<10	<2
1267483	Soil			0.32	8.3	1.3	<0.05	1.7	13.57	18.9	0.05	<1	1.1	40.7	<10	<2
1267484	Soil			0.28	12.4	0.6	<0.05	1.5	12.85	21.9	0.06	<1	1.5	43.7	<10	<2
1267485	Soil			0.30	7.3	1.9	<0.05	2.4	31.17	24.8	0.06	<1	1.1	29.4	<10	<2
1267486	Soil			0.31	11.3	0.9	<0.05	0.6	6.59	11.4	0.04	<1	0.7	15.6	<10	<2
1267487	Soil			0.41	11.9	0.9	<0.05	1.6	4.30	10.2	0.04	<1	1.2	42.9	<10	<2
1267488	Soil			0.11	3.4	0.3	<0.05	1.8	16.71	22.5	0.04	<1	0.7	6.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1267489	Soil			0.85	33.86	28.76	80.0	126	26.7	14.8	908	4.72	14.2	0.7	3.6	2.4	21.4	0.18	0.49	0.53	22	0.17	0.128
1267490	Soil			1.33	16.82	21.22	81.5	39	18.0	8.2	375	3.74	11.1	0.5	1.5	1.4	6.0	0.26	0.69	0.40	40	0.05	0.052
1267491	Soil			0.47	21.14	26.12	81.5	151	26.0	11.6	694	3.55	14.4	0.8	2.5	2.4	47.4	0.11	0.83	0.39	25	0.66	0.049
1267492	Soil			1.25	23.46	16.16	107.9	127	16.0	8.8	356	3.32	8.5	0.4	1.1	0.2	5.4	0.53	0.81	0.43	38	0.06	0.064
1267493	Soil			0.76	27.77	17.15	68.6	447	26.1	7.7	500	2.99	7.4	2.1	1.0	1.1	64.2	0.22	0.48	0.35	28	0.77	0.157
1267494	Soil			0.67	23.85	25.04	79.9	269	24.1	9.4	413	3.32	14.1	1.8	1.7	1.4	87.7	0.17	0.66	0.37	23	0.96	0.077
1267495	Soil			1.40	16.17	20.95	89.7	70	20.6	7.8	257	3.98	10.4	0.5	2.4	3.2	15.2	0.19	0.68	0.37	45	0.15	0.036
1267496	Soil			1.33	16.22	21.78	88.1	58	21.8	8.5	274	3.83	10.1	0.6	2.3	3.2	18.0	0.18	0.67	0.36	42	0.18	0.040
1267497	Soil			0.54	24.72	43.32	114.0	157	39.0	16.0	445	5.17	7.4	0.4	0.7	4.1	4.0	0.09	0.26	0.36	11	0.03	0.035
1267498	Soil			0.48	15.71	32.86	73.9	103	20.2	9.8	283	3.80	7.5	0.9	0.7	2.7	63.2	0.20	0.25	0.46	18	0.83	0.043
1267499	Soil			0.66	15.85	25.22	223.9	96	19.5	8.8	1169	3.59	14.4	0.9	1.2	1.6	25.2	0.96	0.99	0.34	34	0.75	0.066
1267500	Soil			0.32	15.73	50.91	151.4	211	16.3	6.3	2075	4.01	35.1	1.3	23.2	1.2	67.6	0.51	4.30	0.21	14	7.54	0.141
1266551	Soil			0.56	20.93	70.51	203.9	154	26.7	9.4	410	3.03	22.7	0.8	0.4	2.9	25.2	0.19	1.14	0.40	9	0.53	0.041
1266552	Soil			0.52	17.74	35.81	97.4	98	26.3	11.2	573	3.81	21.7	1.1	2.9	4.8	30.0	0.13	1.53	0.37	23	0.38	0.031
1266474	Soil			0.73	16.77	19.86	74.5	30	19.1	8.6	321	3.10	7.7	0.5	3.5	0.7	5.8	0.11	0.52	0.27	30	0.03	0.036
1266475	Soil			0.81	17.89	20.63	96.6	31	18.5	8.2	319	3.54	7.1	0.5	1.5	1.3	8.9	0.18	0.38	0.33	37	0.13	0.054
1266476	Soil			0.77	18.86	21.22	82.9	49	19.4	7.8	202	3.50	7.8	0.5	0.8	2.4	5.8	0.15	0.45	0.33	30	0.03	0.032
1266477	Soil			0.34	26.01	33.09	85.6	61	61.5	31.9	1033	4.76	4.6	1.1	1.1	3.4	10.2	0.04	0.19	0.31	15	0.06	0.045
1266478	Soil			0.97	25.59	16.38	71.4	18	10.7	4.6	163	2.31	6.0	0.4	0.7	1.5	5.3	0.09	0.42	0.39	39	0.01	0.040
1266479	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1266480	Soil			0.52	15.83	21.14	114.0	71	18.5	8.0	435	2.86	16.8	0.7	1.5	2.2	21.2	0.18	0.86	0.33	23	0.82	0.063
1266481	Soil			0.45	22.35	27.66	263.1	181	16.5	9.1	956	2.98	21.1	0.9	3.0	0.5	55.9	1.21	0.75	0.29	21	2.91	0.210
1266482	Soil			0.86	29.83	26.22	94.2	61	16.9	17.4	1163	4.71	4.9	0.5	0.8	3.4	3.9	0.18	0.37	0.40	40	0.03	0.049
1266483	Soil			1.06	16.23	19.51	115.3	94	12.5	12.3	950	4.25	6.8	0.4	0.7	2.8	4.2	0.37	0.46	0.37	46	0.03	0.048
1266484	Soil			0.57	30.58	34.37	76.6	183	28.3	25.0	1577	4.15	6.1	0.6	0.9	2.1	9.6	0.09	0.31	0.44	26	0.15	0.057
1266485	Soil			0.83	24.77	27.78	75.1	154	24.3	14.9	523	4.73	7.5	0.5	0.6	2.7	4.4	0.14	0.43	0.38	28	0.03	0.050
1266486	Soil			0.43	21.74	29.72	60.9	109	19.2	12.2	486	4.42	5.4	0.3	0.5	2.0	2.8	0.15	0.27	0.36	22	0.02	0.053
1266487	Soil			0.61	20.49	29.45	61.7	78	25.4	12.9	467	3.90	7.0	0.6	0.9	3.1	7.8	0.07	0.43	0.35	28	0.08	0.040
1266488	Soil			0.54	19.04	24.79	66.6	38	22.6	11.0	321	3.92	6.5	0.4	1.1	2.9	11.9	0.06	0.37	0.32	28	0.24	0.030
1266489	Soil			0.60	21.12	32.35	75.5	59	26.6	14.1	466	4.27	7.8	0.5	0.6	3.7	9.2	0.07	0.42	0.37	30	0.20	0.034



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1267489	Soil	3.8	13.4	0.11	164.5	0.001	1	0.85	<0.001	0.07	<0.1	3.4	0.09	0.05	54	0.2	0.08	2.1	0.77	<0.1	0.03
1267490	Soil	6.3	20.0	0.24	110.5	0.006	1	1.12	0.002	0.07	0.2	1.9	0.11	0.02	28	0.3	0.07	5.2	1.98	<0.1	<0.02
1267491	Soil	8.2	22.3	0.37	224.5	0.003	2	1.39	0.003	0.07	<0.1	3.0	0.10	0.04	138	0.3	0.04	4.4	0.96	<0.1	0.04
1267492	Soil	4.1	13.1	0.04	63.6	0.004	1	0.43	0.001	0.05	<0.1	0.6	0.05	0.04	28	0.2	0.05	4.0	2.09	<0.1	<0.02
1267493	Soil	7.9	20.1	0.31	235.5	0.005	1	1.36	0.003	0.06	<0.1	2.8	0.11	0.10	71	0.4	0.04	4.1	2.70	<0.1	0.04
1267494	Soil	5.7	18.0	0.30	214.5	0.003	2	1.10	0.003	0.06	<0.1	2.9	0.11	0.06	86	0.5	0.04	3.5	1.71	<0.1	0.05
1267495	Soil	7.4	27.8	0.42	101.8	0.008	2	1.73	0.002	0.06	0.2	2.5	0.14	<0.02	31	0.3	0.06	5.8	1.96	<0.1	0.02
1267496	Soil	7.5	29.2	0.45	115.9	0.008	2	1.74	0.002	0.06	0.2	2.6	0.13	<0.02	33	0.4	0.04	5.4	2.08	<0.1	0.03
1267497	Soil	2.7	12.9	0.17	64.2	<0.001	2	1.17	<0.001	0.05	<0.1	3.3	0.33	0.02	47	0.4	0.04	1.9	2.96	<0.1	0.04
1267498	Soil	5.7	9.2	0.07	259.2	0.001	2	0.78	0.001	0.08	<0.1	3.5	0.12	0.03	58	0.2	0.06	1.9	0.52	<0.1	0.02
1267499	Soil	8.5	20.9	0.35	158.7	0.007	2	1.35	0.003	0.08	0.1	2.6	0.10	0.04	73	0.3	0.04	4.1	0.98	<0.1	0.03
1267500	Soil	8.7	10.5	3.79	103.8	0.002	4	0.69	0.005	0.07	<0.1	1.6	0.06	0.06	234	0.5	0.05	1.4	0.21	<0.1	0.10
1266551	Soil	9.1	6.0	0.05	102.6	<0.001	2	0.47	<0.001	0.09	<0.1	4.4	0.09	0.04	377	0.4	0.03	1.1	0.52	<0.1	0.04
1266552	Soil	15.4	17.6	0.26	141.1	0.003	2	1.13	0.002	0.11	<0.1	6.1	0.11	<0.02	237	0.2	0.03	3.2	0.75	<0.1	0.05
1266474	Soil	7.2	22.3	0.29	72.6	0.008	1	1.28	0.002	0.08	0.1	1.3	0.09	0.02	37	0.2	0.02	4.4	1.39	<0.1	<0.02
1266475	Soil	5.6	25.5	0.31	116.8	0.003	<1	1.75	<0.001	0.07	<0.1	1.6	0.14	0.02	18	0.2	0.04	6.2	1.43	<0.1	0.03
1266476	Soil	6.3	23.0	0.27	61.6	0.011	1	1.27	<0.001	0.11	<0.1	2.2	0.10	0.02	25	0.2	0.04	5.0	1.77	<0.1	<0.02
1266477	Soil	5.2	18.8	0.16	143.3	0.003	1	1.53	<0.001	0.13	<0.1	3.9	0.13	0.03	38	<0.1	0.03	3.6	3.25	<0.1	0.03
1266478	Soil	5.4	14.7	0.05	62.4	0.004	2	0.92	0.001	0.10	<0.1	1.4	0.14	<0.02	21	0.2	0.06	7.1	2.20	<0.1	<0.02
1266479	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1266480	Soil	8.2	17.8	0.31	112.8	0.003	2	1.08	0.002	0.07	<0.1	2.7	0.05	0.04	140	0.2	<0.02	3.8	0.91	<0.1	0.05
1266481	Soil	18.4	15.1	0.49	120.0	0.003	2	1.19	0.004	0.05	<0.1	1.7	0.07	0.14	327	0.4	0.03	3.0	0.48	<0.1	0.03
1266482	Soil	3.9	30.2	0.21	118.3	0.003	<1	2.12	0.001	0.10	<0.1	2.9	0.15	<0.02	35	0.3	0.06	9.4	2.13	<0.1	0.06
1266483	Soil	7.0	22.2	0.15	104.5	0.007	<1	1.32	0.001	0.09	<0.1	2.0	0.12	<0.02	28	0.1	0.05	7.2	1.61	<0.1	<0.02
1266484	Soil	7.0	21.7	0.24	131.4	0.003	1	1.36	<0.001	0.13	<0.1	4.1	0.11	0.02	37	0.2	0.05	4.8	1.48	<0.1	0.02
1266485	Soil	6.7	26.4	0.34	83.7	0.006	1	1.52	<0.001	0.13	<0.1	3.0	0.12	<0.02	27	0.2	0.03	5.0	1.82	<0.1	<0.02
1266486	Soil	4.8	21.5	0.22	65.2	0.006	1	1.18	<0.001	0.12	<0.1	2.5	0.10	<0.02	28	0.1	0.04	4.7	1.23	<0.1	<0.02
1266487	Soil	8.0	26.4	0.42	78.3	0.007	1	1.53	0.001	0.10	<0.1	2.9	0.12	<0.02	28	0.1	0.03	4.7	1.69	<0.1	<0.02
1266488	Soil	6.7	24.9	0.37	107.6	0.007	1	1.40	0.001	0.12	<0.1	2.6	0.11	<0.02	20	0.1	0.03	4.9	1.28	<0.1	<0.02
1266489	Soil	7.4	27.9	0.39	124.0	0.004	2	1.71	<0.001	0.13	<0.1	3.1	0.13	<0.02	28	0.1	0.03	5.7	1.30	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1267489	Soil	0.20	8.6	0.7	<0.05	0.9	6.87	15.9	0.07	<1	1.1	9.4	<10	<2
1267490	Soil	0.80	10.7	1.0	<0.05	0.4	3.06	13.9	0.04	<1	0.5	21.7	<10	<2
1267491	Soil	0.47	8.9	0.6	<0.05	1.5	7.35	20.4	0.04	<1	1.0	23.5	<10	<2
1267492	Soil	0.30	14.2	1.2	<0.05	<0.1	1.72	8.4	0.03	<1	0.3	1.9	<10	<2
1267493	Soil	0.55	14.2	0.6	<0.05	1.2	15.47	15.8	0.04	<1	1.1	32.8	<10	<2
1267494	Soil	0.46	10.8	0.5	<0.05	1.3	9.36	14.0	0.03	2	0.8	32.3	<10	<2
1267495	Soil	1.13	13.2	0.8	<0.05	1.0	2.54	15.4	0.04	<1	0.5	39.1	<10	<2
1267496	Soil	1.14	12.3	0.9	<0.05	1.1	2.97	16.2	0.04	<1	0.6	43.2	<10	<2
1267497	Soil	0.13	7.5	0.7	<0.05	1.7	7.15	9.5	0.06	<1	1.3	30.0	<10	<2
1267498	Soil	0.28	9.9	0.6	<0.05	0.8	6.23	19.2	0.05	<1	0.8	6.0	<10	<2
1267499	Soil	0.77	10.4	0.6	<0.05	1.2	6.34	20.9	0.03	<1	0.9	11.5	<10	<2
1267500	Soil	0.15	2.5	0.6	<0.05	3.4	10.43	21.4	0.02	<1	0.6	3.2	<10	<2
1266551	Soil	0.11	7.0	0.4	<0.05	1.2	11.57	37.7	0.04	<1	1.1	2.2	<10	<2
1266552	Soil	0.46	8.5	0.8	<0.05	1.9	17.56	39.5	0.04	<1	1.4	11.9	<10	<2
1266474	Soil	0.42	10.0	0.5	<0.05	0.3	2.96	19.8	0.03	<1	0.6	22.3	<10	<2
1266475	Soil	0.60	14.9	0.8	<0.05	0.8	2.83	17.3	0.04	<1	0.7	29.8	<10	<2
1266476	Soil	0.71	12.8	0.6	<0.05	0.5	2.75	15.9	0.03	<1	0.6	20.1	<10	<2
1266477	Soil	0.24	13.3	0.6	<0.05	0.9	8.47	23.5	0.04	1	2.3	21.1	<10	<2
1266478	Soil	0.48	17.8	1.1	<0.05	0.3	2.25	11.2	<0.02	<1	0.3	2.4	<10	<2
1266479	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1266480	Soil	0.46	9.3	0.5	<0.05	1.4	6.98	17.1	0.02	<1	0.8	15.9	<10	<2
1266481	Soil	0.29	5.2	0.4	<0.05	1.1	16.03	30.8	0.03	<1	0.9	8.4	<10	<2
1266482	Soil	0.66	20.0	1.1	<0.05	2.4	3.92	9.7	0.03	<1	1.0	32.9	<10	<2
1266483	Soil	0.96	19.8	1.3	<0.05	0.9	2.09	15.1	0.03	<1	0.5	15.1	<10	<2
1266484	Soil	0.41	14.4	0.6	<0.05	0.4	7.51	19.4	0.04	<1	1.3	22.0	<10	<2
1266485	Soil	0.57	13.4	0.7	<0.05	0.8	3.66	18.0	0.04	<1	0.9	31.4	<10	<2
1266486	Soil	0.46	14.6	0.7	<0.05	0.5	2.50	13.2	0.04	<1	0.6	18.5	<10	<2
1266487	Soil	0.54	12.3	0.8	<0.05	0.5	3.91	26.2	0.03	<1	1.0	38.5	<10	<2
1266488	Soil	0.53	13.4	0.8	<0.05	0.3	2.93	19.7	0.03	<1	0.7	31.4	<10	<2
1266489	Soil	0.48	14.1	0.7	<0.05	0.6	4.15	33.9	0.04	<1	1.0	35.5	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method Analyte	Unit	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1266490	Soil	0.71	23.99	29.68	71.4	67	29.8	14.5	545	3.67	7.6	0.7	1.4	4.2	12.2	0.06	0.46	0.36	28	0.25	0.048
1266491	Soil	0.61	23.96	16.47	67.5	52	19.2	12.3	301	3.79	5.8	0.4	0.6	2.5	10.7	0.16	0.36	0.49	28	0.18	0.047
1266492	Soil	0.40	14.10	19.27	58.7	75	22.2	16.6	477	2.94	4.3	0.4	0.5	3.0	11.6	0.05	0.20	0.30	28	0.18	0.032
1266493	Soil	0.33	16.29	25.82	105.9	86	18.0	6.6	242	2.09	57.6	0.7	6.1	1.1	82.6	0.19	1.45	0.23	14	3.98	0.085
1266494	Soil	0.32	19.35	19.66	40.1	64	16.2	10.3	276	2.74	9.3	0.5	0.7	3.2	22.7	0.03	0.18	0.37	12	0.59	0.034
1266495	Soil	0.37	20.95	18.51	34.0	120	17.4	9.0	595	2.74	6.6	1.1	0.8	0.6	69.5	0.14	0.29	0.27	14	2.76	0.119
1266496	Soil	0.40	16.47	7.57	55.1	33	10.3	4.8	548	1.10	4.4	1.2	12.1	0.1	114.1	0.77	0.43	0.72	10	5.04	0.153
1266497	Soil	0.52	17.91	79.83	189.3	81	19.0	13.1	1412	2.55	62.3	0.6	1.2	1.0	116.8	1.53	0.62	0.41	24	4.42	0.106
1266498	Soil	0.47	9.36	17.56	83.9	42	10.1	7.5	1077	3.97	13.8	0.5	1.1	1.5	141.0	0.41	0.21	0.29	27	4.90	0.111
1266499	Soil	0.22	8.19	8.16	55.9	46	6.5	3.8	362	0.89	4.6	0.7	0.5	0.4	219.6	0.23	0.16	0.18	8	11.40	0.152
1266500	Soil	0.55	16.15	50.40	222.7	131	17.2	11.4	803	2.65	13.6	0.7	0.6	0.8	137.9	0.53	0.29	0.46	20	6.71	0.127
1267594	Soil	0.95	40.51	26.24	85.6	240	27.9	13.2	915	4.01	12.0	1.5	1.4	1.7	94.2	0.25	0.35	0.38	28	0.40	0.157
1267595	Soil	0.89	42.57	20.96	77.3	370	30.8	11.8	691	3.24	11.7	7.4	2.4	1.3	92.6	0.20	0.51	0.32	38	0.77	0.150
1267596	Soil	0.72	10.84	17.28	91.2	152	17.7	7.5	159	3.46	7.4	1.0	1.2	2.8	58.9	0.10	0.28	0.20	29	0.43	0.043
1267597	Soil	0.70	35.72	29.27	99.0	47	31.2	14.3	645	5.26	11.8	0.7	0.7	4.6	64.8	0.15	0.32	0.35	26	0.38	0.059
1267598	Soil	0.65	13.44	17.20	51.7	10	14.9	5.5	86	3.76	10.0	0.4	<0.2	2.2	7.1	0.05	0.22	0.26	39	0.02	0.028
1267599	Soil	0.40	38.12	21.75	96.6	65	32.0	12.8	241	4.51	6.8	0.6	0.8	3.4	25.0	0.07	0.14	0.34	23	0.26	0.047
1267600	Soil	0.65	23.62	20.07	68.8	164	17.2	9.4	725	3.05	7.8	1.0	0.7	1.3	69.4	0.17	0.26	0.29	26	0.78	0.143
1267873	Soil	0.33	39.72	26.25	103.5	174	33.9	17.8	362	4.15	12.1	0.5	1.6	3.5	53.3	0.08	0.20	0.33	21	0.31	0.030
1267874	Soil	0.92	30.45	28.71	104.3	106	20.9	13.2	827	4.60	9.2	0.5	0.2	0.6	7.1	0.50	0.42	0.44	36	0.06	0.070
1267875	Soil	2.01	33.18	41.54	97.3	210	31.7	22.5	508	4.53	28.0	0.6	0.4	3.8	87.2	0.17	0.64	0.38	15	0.67	0.059
1267876	Soil	0.50	21.96	15.15	54.6	224	20.5	8.7	390	2.31	18.7	1.4	6.3	2.5	96.4	0.11	0.63	0.24	16	1.77	0.111
1267877	Soil	0.69	25.20	23.28	81.0	173	21.9	10.4	533	4.02	9.8	1.6	<0.2	2.7	94.4	0.25	0.32	0.36	20	0.88	0.125
1267878	Soil	0.68	13.26	18.14	49.1	50	12.9	6.7	198	3.33	9.1	0.3	0.3	2.4	6.6	0.05	0.29	0.28	32	0.03	0.022
1267879	Soil	0.54	30.57	27.39	73.8	115	31.4	14.2	488	3.52	13.9	0.7	0.6	2.8	86.6	0.11	0.66	0.32	17	1.77	0.057
1267880	Soil	0.43	19.14	21.13	58.2	146	16.7	10.0	414	2.62	9.8	1.3	0.9	1.2	93.8	0.09	0.41	0.25	16	1.82	0.080
1267881	Soil	0.79	29.36	28.85	82.6	212	27.8	13.7	557	3.89	8.8	1.2	0.5	3.4	104.5	0.20	0.44	0.30	20	0.97	0.079
1267882	Soil	1.02	19.43	27.37	74.8	261	17.1	10.8	203	3.83	11.0	0.3	1.3	1.6	6.9	0.12	0.61	0.41	19	0.02	0.053
1267883	Soil	1.11	21.87	27.27	94.8	153	17.7	13.2	311	3.99	8.1	0.4	<0.2	2.2	16.9	0.41	0.43	0.31	31	0.14	0.045
1267884	Soil	0.34	20.48	32.52	87.2	78	32.2	14.9	742	4.18	10.6	0.6	0.8	4.8	16.0	0.11	0.52	0.35	25	0.16	0.020



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

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 Report Date: December 16, 2011

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1266490	Soil	11.4	27.2	0.45	123.9	0.005	1	1.58	0.002	0.11	<0.1	4.2	0.12	<0.02	20	0.1	0.03	4.8	1.38	<0.1	0.03
1266491	Soil	7.6	19.2	0.23	98.7	0.004	1	1.17	<0.001	0.18	<0.1	2.6	0.12	0.02	13	0.2	0.09	5.1	1.96	<0.1	<0.02
1266492	Soil	8.0	26.1	0.34	191.1	0.005	1	1.45	0.001	0.22	<0.1	2.4	0.12	0.02	19	0.1	0.02	6.3	0.92	<0.1	0.02
1266493	Soil	9.0	10.6	0.80	69.4	0.002	3	0.83	0.003	0.07	0.1	1.9	0.11	0.06	321	0.3	0.03	2.0	0.65	<0.1	0.04
1266494	Soil	7.3	8.4	0.11	87.6	<0.001	3	0.63	0.002	0.10	<0.1	3.1	0.08	0.04	93	<0.1	0.04	1.8	0.61	<0.1	0.04
1266495	Soil	10.6	10.1	0.20	106.2	0.002	4	0.79	0.003	0.07	<0.1	1.3	0.10	0.13	71	0.4	0.02	2.0	0.87	<0.1	0.02
1266496	Soil	6.9	6.7	0.33	80.8	0.006	8	0.65	0.013	0.04	<0.1	0.6	0.07	0.19	78	0.6	0.04	1.7	0.71	<0.1	0.04
1266497	Soil	19.2	14.1	0.26	634.2	0.003	5	1.14	0.006	0.08	<0.1	1.5	0.07	0.08	94	0.2	0.03	2.6	0.68	<0.1	0.03
1266498	Soil	25.8	14.4	0.34	127.5	0.002	3	1.40	0.010	0.07	<0.1	2.0	0.06	0.08	32	0.2	0.03	3.0	0.31	<0.1	0.04
1266499	Soil	8.1	5.0	0.26	71.9	0.001	7	0.40	0.006	0.06	<0.1	0.5	0.03	0.12	37	0.3	<0.02	0.9	0.34	<0.1	0.05
1266500	Soil	18.0	11.7	0.31	205.9	0.002	5	1.17	0.005	0.10	<0.1	1.4	0.05	0.08	49	0.3	0.02	2.5	0.28	<0.1	0.03
1267594	Soil	7.9	23.5	0.45	151.1	0.003	3	1.76	0.004	0.08	<0.1	4.1	0.14	0.09	63	0.2	0.05	5.0	5.29	<0.1	0.04
1267595	Soil	13.1	28.8	0.39	242.4	0.007	2	1.78	0.005	0.06	0.1	3.5	0.14	0.10	180	1.0	<0.02	5.0	3.30	<0.1	0.06
1267596	Soil	7.0	25.2	0.37	92.5	0.008	2	1.15	0.005	0.05	<0.1	3.2	0.07	0.05	149	0.5	<0.02	4.0	2.99	<0.1	0.05
1267597	Soil	4.8	26.9	0.40	105.6	0.001	2	1.44	0.003	0.06	<0.1	4.9	0.15	0.04	47	0.2	0.03	4.6	2.90	<0.1	0.04
1267598	Soil	6.4	15.6	0.11	56.8	0.002	<1	1.11	0.002	0.04	<0.1	1.9	0.12	<0.02	36	<0.1	0.03	5.0	1.65	<0.1	<0.02
1267599	Soil	4.2	18.1	0.09	46.3	<0.001	1	0.57	0.002	0.06	<0.1	6.5	0.12	<0.02	52	<0.1	0.07	2.1	1.89	<0.1	0.03
1267600	Soil	6.2	18.0	0.19	171.1	0.003	<1	1.07	0.005	0.05	<0.1	3.0	0.13	0.09	109	0.2	0.03	3.8	2.06	<0.1	0.04
1267873	Soil	5.9	24.3	0.38	94.9	0.006	3	0.98	0.004	0.07	<0.1	4.3	0.08	0.02	82	0.2	<0.02	4.5	5.47	<0.1	0.03
1267874	Soil	4.8	20.6	0.11	152.7	0.004	2	1.04	0.003	0.12	<0.1	1.5	0.09	0.03	32	0.1	0.04	5.2	2.71	<0.1	<0.02
1267875	Soil	5.3	12.9	0.08	73.5	<0.001	2	0.53	0.002	0.08	<0.1	6.8	0.14	0.04	49	0.2	0.06	1.7	2.12	<0.1	0.04
1267876	Soil	5.9	10.1	0.06	147.3	0.001	3	0.74	0.006	0.08	<0.1	4.1	0.13	0.08	115	0.3	0.03	2.1	2.49	<0.1	0.06
1267877	Soil	9.2	14.3	0.09	104.1	0.001	1	0.86	0.002	0.06	<0.1	4.7	0.11	0.04	40	0.1	0.06	2.6	1.45	<0.1	0.03
1267878	Soil	6.9	13.1	0.13	64.6	0.004	<1	0.87	0.002	0.05	<0.1	2.0	0.09	<0.02	16	<0.1	0.04	4.2	1.08	<0.1	<0.02
1267879	Soil	9.0	13.6	0.15	135.2	0.001	3	0.86	0.003	0.08	<0.1	6.4	0.12	0.07	127	0.3	0.06	2.4	0.95	<0.1	0.05
1267880	Soil	6.6	12.4	0.13	127.5	0.001	2	0.76	0.003	0.06	<0.1	2.6	0.09	0.09	141	0.4	0.06	2.1	0.89	<0.1	0.03
1267881	Soil	9.9	21.8	0.32	122.0	0.003	2	1.33	0.003	0.07	<0.1	8.7	0.10	0.06	99	0.2	0.05	3.9	2.93	<0.1	0.03
1267882	Soil	2.2	14.4	0.14	49.8	0.002	2	0.96	<0.001	0.10	<0.1	2.8	0.10	<0.02	35	0.2	0.05	2.6	2.74	<0.1	<0.02
1267883	Soil	5.1	14.6	0.09	89.8	0.004	1	0.77	0.002	0.09	<0.1	2.8	0.09	<0.02	26	<0.1	0.04	4.2	2.46	<0.1	<0.02
1267884	Soil	7.1	28.4	0.49	163.7	0.002	<1	1.91	0.005	0.09	<0.1	3.5	0.08	<0.02	135	<0.1	<0.02	6.2	1.05	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 9 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1266490	Soil	0.47	11.0	0.5	<0.05	1.1	9.11	51.2	0.04	<1	0.9	29.7	<10	<2
1266491	Soil	0.49	21.7	0.8	<0.05	0.5	2.89	18.0	0.04	<1	0.7	20.6	<10	<2
1266492	Soil	0.72	20.2	0.8	<0.05	1.0	3.16	20.2	0.02	<1	1.1	27.7	<10	<2
1266493	Soil	0.28	6.2	0.4	<0.05	1.3	10.22	20.3	0.02	<1	0.8	9.5	<10	<2
1266494	Soil	0.16	6.3	0.3	<0.05	1.0	5.39	22.3	0.03	1	0.6	6.9	<10	<2
1266495	Soil	0.29	6.0	0.3	<0.05	0.6	11.09	22.1	0.02	<1	0.7	6.2	<10	<2
1266496	Soil	0.38	3.9	0.7	0.09	1.5	5.86	12.2	0.08	2	0.4	3.4	<10	<2
1266497	Soil	0.42	7.3	0.5	<0.05	1.3	12.29	36.8	0.03	<1	0.9	8.2	<10	<2
1266498	Soil	0.39	5.9	0.5	<0.05	1.5	14.33	52.3	0.03	<1	0.9	9.8	<10	<2
1266499	Soil	0.12	4.1	0.2	<0.05	1.4	5.38	14.9	<0.02	<1	0.4	3.8	<10	<2
1266500	Soil	0.23	5.2	1.1	<0.05	1.6	10.69	38.6	0.02	<1	1.0	11.4	<10	<2
1267594	Soil	0.44	18.7	0.6	<0.05	1.4	18.06	16.4	0.04	<1	1.8	43.5	<10	<2
1267595	Soil	0.72	13.3	0.5	<0.05	1.7	19.68	26.6	0.03	<1	1.2	28.0	<10	<2
1267596	Soil	0.52	10.4	1.0	<0.05	1.4	4.90	14.5	0.04	<1	0.4	25.6	<10	<2
1267597	Soil	0.37	13.5	0.6	<0.05	1.2	8.54	26.4	0.06	<1	1.2	45.4	<10	<2
1267598	Soil	0.39	11.1	0.7	<0.05	0.4	2.17	13.7	0.03	<1	0.4	9.8	<10	<2
1267599	Soil	0.07	8.8	0.5	<0.05	1.0	7.24	15.0	0.05	<1	1.4	3.9	<10	<2
1267600	Soil	0.43	13.1	0.5	<0.05	1.2	9.24	14.9	0.04	<1	1.1	10.5	<10	<2
1267873	Soil	0.34	10.7	0.7	<0.05	0.9	8.45	15.0	0.05	<1	1.2	33.6	<10	<2
1267874	Soil	0.58	19.2	0.7	<0.05	0.2	2.16	10.6	0.05	<1	0.6	10.0	<10	<2
1267875	Soil	0.12	9.2	0.4	<0.05	1.6	16.09	21.5	0.06	<1	1.3	5.9	<10	<2
1267876	Soil	0.20	12.2	0.5	<0.05	2.0	18.15	14.4	0.04	<1	0.9	4.1	<10	<2
1267877	Soil	0.21	14.5	0.5	<0.05	0.7	12.97	20.2	0.05	<1	1.2	6.9	<10	<2
1267878	Soil	0.39	14.9	0.5	<0.05	0.5	2.27	14.6	0.02	<1	0.3	8.4	<10	<2
1267879	Soil	0.22	7.7	0.4	<0.05	1.8	23.42	28.5	0.06	<1	1.3	10.9	<10	<2
1267880	Soil	0.23	6.2	0.3	<0.05	1.1	12.41	20.2	0.04	<1	0.9	6.1	<10	<2
1267881	Soil	0.34	11.6	0.5	<0.05	1.2	28.72	27.0	0.06	<1	1.2	33.3	<10	<2
1267882	Soil	0.20	14.5	0.6	<0.05	0.4	2.16	4.9	0.05	2	0.8	18.9	<10	<2
1267883	Soil	0.40	18.3	0.6	<0.05	0.2	4.10	11.4	0.03	<1	0.5	8.6	<10	<2
1267884	Soil	0.25	11.0	0.6	<0.05	1.5	6.30	21.8	0.03	<1	1.2	35.3	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	
1267885	Soil	0.76	23.56	29.28	73.9	130	31.1	12.3	448	4.15	11.5	0.8	0.4	3.5	38.1	0.19	0.60	0.29	25	0.41	0.057
1267886	Soil	0.41	18.97	18.89	112.3	122	21.2	10.0	627	2.97	9.4	0.9	1.2	1.6	82.7	0.19	0.46	0.25	20	1.50	0.058
1267887	Soil	0.53	20.81	23.51	82.1	143	24.9	10.8	572	3.25	20.6	0.9	1.0	1.9	57.2	0.28	0.60	0.29	24	0.81	0.075
1267888	Soil	0.44	23.93	35.60	97.6	39	28.8	14.5	936	4.20	19.9	0.6	1.1	3.8	31.3	0.14	0.69	0.35	25	0.27	0.033
1267889	Soil	0.53	22.33	36.41	76.1	240	30.2	11.3	364	4.11	31.5	0.6	0.5	2.8	137.3	0.35	0.29	0.34	15	1.11	0.051
1267890	Soil	0.94	13.89	29.19	65.9	33	16.6	8.1	238	3.30	13.6	0.5	0.6	3.5	13.1	0.53	0.47	0.31	46	0.11	0.017
1267891	Soil	0.54	15.92	27.60	142.3	56	25.8	11.9	366	3.93	18.0	1.1	<0.2	4.1	67.7	0.39	0.43	0.33	36	0.71	0.035
1267892	Soil	0.35	18.96	50.74	262.6	29	28.4	11.6	242	4.09	32.9	0.8	<0.2	4.7	24.4	0.09	1.04	0.32	24	0.23	0.016
1267893	Soil	0.45	17.76	40.38	255.0	32	26.1	12.2	1056	4.90	21.1	1.0	0.9	4.6	27.6	0.43	0.81	0.32	31	0.36	0.029
1267894	Soil	0.19	18.24	18.67	289.7	43	17.6	7.7	169	2.41	16.9	0.6	0.8	2.4	296.5	0.37	0.70	0.23	12	7.91	0.031
1267895	Soil	0.27	22.52	23.79	215.9	74	22.3	9.8	196	2.83	10.9	1.4	1.1	2.8	114.2	0.24	0.66	0.29	12	1.30	0.041
1267896	Soil	0.38	24.89	29.99	89.7	122	28.3	13.2	291	3.25	7.4	0.5	<0.2	3.5	141.5	0.08	0.24	0.28	9	2.41	0.039
1267897	Soil	0.38	21.00	24.87	79.3	89	26.9	11.4	294	2.75	6.5	0.5	3.3	2.6	245.6	0.12	0.28	0.37	7	5.03	0.041
1267898	Soil	0.28	16.24	20.87	78.6	99	17.4	8.5	233	2.34	5.5	0.7	1.5	1.1	90.1	0.10	0.21	0.33	8	1.27	0.045
1267899	Soil	0.40	22.99	32.79	94.2	145	27.0	13.7	360	3.52	8.1	0.4	1.7	3.0	48.6	0.09	0.28	0.39	10	0.60	0.029
1267900	Soil	0.38	23.79	24.02	120.3	113	23.2	10.8	290	2.89	8.0	0.9	1.8	1.6	105.8	0.21	0.42	0.33	12	1.42	0.041
1267901	Soil	0.73	33.05	22.98	140.4	87	23.7	10.4	364	3.58	8.9	0.4	0.2	1.2	32.3	0.15	0.24	0.49	24	0.43	0.054
1267902	Soil	0.57	19.41	22.10	71.0	234	17.9	10.0	347	3.11	16.8	1.0	1.3	1.7	51.7	0.10	0.34	0.32	15	0.98	0.049
1267903	Soil	0.78	17.83	21.35	66.9	76	18.9	8.7	326	3.40	12.7	0.7	0.8	2.2	23.1	0.12	0.42	0.28	23	0.41	0.051
1267904	Soil	0.65	16.11	16.94	53.7	71	14.7	6.4	185	2.96	15.2	0.3	0.7	1.2	6.3	0.03	0.81	0.30	18	0.03	0.025
1267905	Soil	1.03	17.12	10.14	63.3	23	19.3	10.1	302	3.72	40.7	0.2	<0.2	1.2	6.3	0.06	0.47	0.29	33	0.02	0.034
1267906	Soil	0.61	14.37	20.87	75.6	65	16.0	10.5	509	3.27	16.9	0.3	<0.2	1.8	10.9	0.22	0.39	0.27	21	0.14	0.035
1267907	Soil	0.58	26.20	26.15	73.2	130	29.1	11.4	368	4.58	14.3	0.7	0.8	4.6	49.7	0.06	0.22	0.35	10	0.74	0.037
1267908	Soil	0.57	22.89	19.50	63.2	140	24.0	10.9	286	3.20	8.5	1.1	<0.2	2.1	48.1	0.10	0.40	0.30	17	1.01	0.054
1267909	Soil	1.09	25.45	25.77	78.3	156	29.3	13.0	428	3.81	16.7	0.8	1.0	3.9	33.2	0.14	0.61	0.33	15	0.49	0.024
1267910	Soil	0.60	25.32	24.00	65.1	238	29.7	12.5	889	3.94	49.5	1.2	0.7	2.3	73.9	0.18	0.49	0.29	12	1.42	0.060
1267911	Soil	0.51	19.99	15.78	94.3	72	19.0	8.6	499	3.18	12.3	0.6	<0.2	1.7	21.8	0.15	0.33	0.27	28	0.17	0.042
1267912	Soil	0.46	20.34	20.98	69.8	112	22.3	10.4	228	3.61	20.1	0.3	<0.2	2.4	10.3	0.08	0.41	0.31	23	0.04	0.022
1267913	Soil	0.44	26.99	17.42	64.7	427	20.8	8.7	513	2.58	11.4	1.2	0.5	1.8	153.6	0.21	0.38	0.28	17	1.22	0.088
1267914	Soil	0.41	25.53	15.49	81.7	258	19.1	7.5	308	2.36	13.6	1.4	0.7	1.1	161.8	0.34	0.39	0.25	16	1.51	0.096



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267885	Soil	7.9	19.5	0.28	124.6	0.004	1	1.12	0.004	0.08	<0.1	4.1	0.11	0.02	113	0.2	0.03	3.1	2.50	<0.1	<0.02
1267886	Soil	5.5	17.1	0.32	119.1	0.003	2	1.04	0.004	0.08	<0.1	3.1	0.06	0.06	162	0.3	<0.02	3.2	1.11	<0.1	0.03
1267887	Soil	8.0	19.9	0.30	221.0	0.003	1	1.20	0.005	0.07	<0.1	3.4	0.11	0.06	453	0.3	0.04	3.7	1.86	<0.1	0.03
1267888	Soil	7.4	22.6	0.33	206.4	0.002	1	1.55	0.005	0.08	<0.1	3.5	0.15	<0.02	290	0.1	0.03	4.4	1.75	<0.1	0.03
1267889	Soil	14.8	11.5	0.09	105.4	0.002	2	0.72	0.005	0.06	<0.1	6.3	0.14	0.04	367	0.3	0.02	1.3	1.68	<0.1	<0.02
1267890	Soil	9.4	22.0	0.25	116.4	0.008	1	1.47	0.011	0.05	0.1	2.5	0.18	<0.02	120	<0.1	0.04	5.8	1.71	<0.1	0.02
1267891	Soil	9.4	29.0	0.31	167.6	0.002	2	2.19	0.006	0.10	<0.1	3.3	0.14	0.02	102	0.2	0.03	6.5	1.14	<0.1	0.04
1267892	Soil	6.1	24.5	0.26	86.9	<0.001	1	1.88	0.003	0.07	<0.1	3.5	0.13	<0.02	206	0.3	<0.02	4.9	0.98	<0.1	0.04
1267893	Soil	11.2	29.5	0.42	129.3	0.002	<1	1.99	0.005	0.08	<0.1	4.3	0.12	<0.02	217	0.2	0.04	6.1	0.88	<0.1	0.07
1267894	Soil	4.6	14.6	0.58	107.1	0.002	6	1.03	0.006	0.11	<0.1	2.6	0.13	0.08	64	0.6	<0.02	2.8	1.53	<0.1	0.05
1267895	Soil	5.2	14.2	0.36	93.8	0.002	7	0.98	0.004	0.10	<0.1	3.4	0.11	0.09	101	0.5	<0.02	2.9	1.52	<0.1	0.05
1267896	Soil	3.4	10.0	0.29	78.0	<0.001	3	0.67	0.004	0.08	<0.1	3.8	0.12	0.04	84	0.1	<0.02	1.9	1.85	<0.1	0.05
1267897	Soil	2.4	9.4	0.34	61.4	<0.001	3	0.56	0.003	0.07	<0.1	3.2	0.09	0.05	54	0.3	0.03	1.5	1.59	<0.1	0.05
1267898	Soil	2.3	8.4	0.14	74.5	<0.001	2	0.60	<0.001	0.05	<0.1	2.1	0.07	0.06	62	0.3	0.05	1.6	0.56	<0.1	<0.02
1267899	Soil	3.1	11.5	0.21	79.7	<0.001	3	0.76	<0.001	0.06	<0.1	4.1	0.10	0.02	72	0.3	0.04	2.0	0.84	<0.1	0.06
1267900	Soil	3.2	13.5	0.27	97.7	0.001	4	0.81	0.001	0.06	<0.1	2.9	0.08	0.06	119	0.6	<0.02	2.5	0.84	<0.1	0.06
1267901	Soil	2.8	23.4	0.35	118.3	0.002	2	1.43	<0.001	0.05	<0.1	2.2	0.09	0.03	43	0.3	0.04	5.2	3.87	<0.1	<0.02
1267902	Soil	3.2	9.9	0.09	92.0	<0.001	2	0.35	0.001	0.05	<0.1	4.5	0.11	0.05	271	0.3	0.04	1.1	2.72	<0.1	0.03
1267903	Soil	5.8	12.7	0.12	91.0	0.001	<1	0.74	<0.001	0.05	<0.1	3.1	0.09	0.02	106	0.2	0.03	2.3	1.18	<0.1	<0.02
1267904	Soil	2.5	6.8	0.05	41.0	0.001	<1	0.64	<0.001	0.03	<0.1	2.2	0.10	<0.02	21	0.1	0.03	2.2	1.47	<0.1	<0.02
1267905	Soil	2.5	10.7	0.06	80.8	0.001	1	0.75	<0.001	0.04	<0.1	2.9	0.10	<0.02	45	0.2	0.07	3.6	5.06	<0.1	<0.02
1267906	Soil	4.2	9.7	0.08	91.9	0.003	2	0.60	<0.001	0.07	<0.1	2.4	0.07	<0.02	34	0.2	0.03	2.2	3.91	<0.1	<0.02
1267907	Soil	10.3	6.7	0.07	71.9	<0.001	3	0.62	0.002	0.05	<0.1	7.7	0.19	0.03	561	0.4	0.07	1.1	1.64	<0.1	0.03
1267908	Soil	4.4	16.2	0.28	100.2	0.002	2	1.03	<0.001	0.07	<0.1	4.0	0.06	0.04	133	0.3	0.03	3.1	3.33	<0.1	0.05
1267909	Soil	4.5	14.6	0.22	94.7	0.001	2	0.94	0.001	0.06	<0.1	5.0	0.12	<0.02	500	0.4	0.05	2.6	1.29	<0.1	0.06
1267910	Soil	7.6	8.6	0.12	146.2	<0.001	2	0.63	0.002	0.04	<0.1	4.5	0.11	0.06	2440	0.6	0.05	1.3	1.30	<0.1	0.05
1267911	Soil	6.8	19.1	0.29	145.1	0.003	2	1.23	<0.001	0.08	<0.1	2.6	0.08	<0.02	49	0.2	0.03	4.2	3.39	<0.1	<0.02
1267912	Soil	5.1	21.6	0.30	39.8	0.002	1	1.35	<0.001	0.07	<0.1	2.2	0.07	<0.02	51	0.1	0.02	4.4	1.66	<0.1	<0.02
1267913	Soil	4.7	15.9	0.37	154.1	<0.001	2	1.22	<0.001	0.08	<0.1	3.9	0.10	0.08	171	0.5	<0.02	3.3	3.86	<0.1	0.07
1267914	Soil	4.6	15.6	0.37	141.3	0.002	4	1.05	0.002	0.08	<0.1	2.8	0.08	0.11	166	0.8	<0.02	2.8	2.42	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 10 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
1267885	Soil	0.44	11.3	0.5	<0.05	1.0	10.32	17.9	0.03	<1	1.0	21.5	<10	<2
1267886	Soil	0.42	8.3	0.4	<0.05	1.2	7.16	14.7	0.03	<1	0.7	19.0	<10	<2
1267887	Soil	0.48	10.7	0.4	<0.05	1.6	9.02	19.6	0.03	<1	1.0	19.1	<10	<2
1267888	Soil	0.27	12.8	0.5	<0.05	1.1	5.91	23.5	0.04	<1	0.9	31.3	<10	<2
1267889	Soil	0.20	8.5	0.3	<0.05	0.7	19.11	48.4	0.06	<1	1.1	5.7	<10	<2
1267890	Soil	0.77	12.1	0.6	<0.05	1.4	2.61	20.1	0.04	<1	0.5	19.1	<10	<2
1267891	Soil	0.61	13.0	0.6	<0.05	2.0	5.81	29.8	0.04	<1	1.1	23.8	<10	<2
1267892	Soil	0.24	10.1	0.5	<0.05	2.3	4.69	21.3	0.03	<1	1.3	21.6	<10	<2
1267893	Soil	0.39	11.8	0.5	<0.05	2.5	9.57	24.2	0.04	<1	1.2	23.9	<10	<2
1267894	Soil	0.25	10.6	0.4	<0.05	2.1	5.60	12.8	0.02	<1	0.8	22.2	<10	<2
1267895	Soil	0.26	10.7	0.3	<0.05	2.4	7.66	13.6	0.03	<1	0.7	23.8	<10	<2
1267896	Soil	0.07	6.8	0.3	<0.05	2.2	8.20	11.0	0.04	<1	0.9	22.1	<10	<2
1267897	Soil	0.08	5.0	1.3	<0.05	2.0	7.39	8.1	0.07	<1	0.6	22.2	<10	<2
1267898	Soil	0.12	4.5	0.3	<0.05	1.6	5.80	7.0	0.03	<1	0.6	14.5	<10	<2
1267899	Soil	0.11	4.8	0.6	<0.05	2.3	8.51	11.0	0.05	<1	0.9	24.1	<10	<2
1267900	Soil	0.21	5.7	0.4	<0.05	1.9	7.42	9.3	0.03	<1	0.7	23.8	<10	<2
1267901	Soil	0.38	10.1	0.7	<0.05	0.7	2.92	7.5	0.04	<1	0.9	39.4	<10	<2
1267902	Soil	0.07	6.3	0.3	<0.05	0.9	9.29	12.1	0.04	<1	0.9	3.7	<10	<2
1267903	Soil	0.24	6.7	0.6	<0.05	0.6	8.34	17.1	0.04	<1	0.8	8.2	<10	<2
1267904	Soil	0.19	9.4	0.4	<0.05	0.2	1.90	5.9	0.03	<1	0.4	2.1	<10	<2
1267905	Soil	0.17	14.3	0.8	<0.05	0.2	2.02	5.4	0.03	<1	0.3	3.7	<10	<2
1267906	Soil	0.32	12.1	0.5	<0.05	0.3	3.07	12.8	0.03	<1	0.5	6.8	<10	<2
1267907	Soil	0.05	5.9	0.3	<0.05	1.3	20.08	29.6	0.05	<1	1.1	4.6	<10	<2
1267908	Soil	0.27	8.4	0.4	<0.05	1.3	10.34	11.1	0.03	<1	0.8	25.4	<10	<2
1267909	Soil	0.20	6.3	0.5	<0.05	2.3	7.90	16.0	0.04	<1	0.8	13.9	<10	<2
1267910	Soil	0.17	5.4	0.3	<0.05	1.6	16.05	24.8	0.04	<1	0.8	6.0	<10	<2
1267911	Soil	0.43	12.7	0.6	<0.05	0.4	4.77	13.0	0.02	<1	0.7	25.6	<10	<2
1267912	Soil	0.27	8.4	0.5	<0.05	0.6	2.31	11.7	0.03	<1	0.8	35.9	<10	<2
1267913	Soil	0.32	12.0	0.4	<0.05	1.9	13.03	9.6	0.04	<1	1.2	19.5	<10	<2
1267914	Soil	0.30	10.8	0.4	<0.05	1.5	8.90	9.3	0.03	<1	0.8	18.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1267915	Soil	0.38	27.97	19.55	90.7	103	23.5	10.7	444	2.91	27.7	0.9	1.0	1.6	77.6	0.14	0.65	0.29	17	0.89	0.061
1267916	Soil	0.27	25.14	22.43	79.4	199	21.9	7.8	205	2.91	17.5	0.7	<0.2	1.5	81.7	0.08	0.29	0.32	13	0.81	0.049
1267917	Soil	0.56	23.53	17.15	110.4	202	24.3	10.2	702	2.89	22.3	1.2	0.6	0.8	88.4	0.40	0.73	0.28	26	1.32	0.112
1267918	Soil	1.32	29.07	25.02	83.5	41	23.1	13.3	346	3.86	16.7	0.4	<0.2	2.4	55.6	0.13	0.32	0.33	17	0.61	0.048
1267919	Soil	0.52	17.09	19.06	46.4	109	15.9	10.1	269	3.22	8.4	1.0	<0.2	2.2	47.5	0.10	0.23	0.26	19	1.07	0.086
1267920	Soil	0.57	37.93	21.03	60.5	195	28.7	11.6	340	3.87	18.3	1.0	1.0	1.8	66.1	0.11	0.33	0.26	17	1.22	0.058
1267962	Soil	0.94	16.87	28.34	70.2	39	20.2	12.8	806	3.30	8.4	0.8	<0.2	1.8	6.9	0.14	0.42	0.27	36	0.05	0.049
1267963	Soil	0.67	31.35	26.17	85.9	74	29.5	14.2	531	4.92	9.3	0.5	<0.2	4.4	7.4	0.05	0.21	0.45	33	0.02	0.036
1267964	Soil	0.55	30.94	58.52	96.5	61	32.5	34.5	2823	3.82	7.4	0.7	<0.2	3.7	11.8	0.14	0.21	0.40	25	0.18	0.043
1267965	Soil	0.47	21.72	31.48	84.2	76	27.7	21.7	932	3.82	6.0	0.4	<0.2	3.3	5.7	0.06	0.18	0.40	26	0.03	0.035
1267966	Soil	0.52	17.51	18.93	72.1	39	26.4	10.5	1161	3.21	5.4	0.7	<0.2	4.9	7.9	0.06	0.26	0.28	32	0.08	0.022
1267967	Soil	0.45	24.97	22.35	83.6	24	28.7	16.1	523	3.69	6.1	0.5	<0.2	4.4	8.6	0.03	0.24	0.38	28	0.07	0.026
1267968	Soil	0.27	15.62	14.43	79.0	50	23.6	12.1	333	2.82	4.0	0.3	<0.2	3.1	14.8	0.05	0.15	0.29	25	0.21	0.019
1267969	Soil	0.33	24.85	23.37	79.9	33	28.1	14.5	322	3.59	5.0	0.4	<0.2	4.2	13.1	0.03	0.18	0.38	25	0.12	0.017
1267970	Soil	0.27	19.54	21.63	69.6	20	26.8	12.4	374	3.39	4.2	0.4	<0.2	3.8	14.2	0.03	0.13	0.34	24	0.11	0.017
1267971	Soil	0.53	13.66	13.51	93.9	71	19.1	9.5	256	2.44	3.7	1.5	<0.2	3.3	13.1	0.18	0.19	0.24	29	0.10	0.027
1267972	Soil	0.29	15.87	18.62	71.5	70	22.8	10.1	250	3.40	3.5	0.5	<0.2	3.7	5.5	0.04	0.10	0.30	27	0.04	0.019
1267973	Soil	0.93	10.06	17.72	73.1	46	21.8	11.1	219	3.48	8.0	0.4	<0.2	3.6	6.4	0.05	0.25	0.28	44	0.05	0.016
1267974	Soil	0.29	37.47	20.12	87.8	107	29.7	14.9	322	4.09	3.9	0.4	5.1	4.0	8.6	0.09	0.23	0.53	31	0.04	0.027
1267975	Soil	0.56	21.22	13.70	87.5	61	27.6	11.5	237	4.25	5.3	0.4	2.1	3.9	8.7	0.05	0.39	0.40	35	0.03	0.025
1267976	Soil	0.74	16.60	19.82	80.2	98	21.0	9.7	215	3.92	10.1	0.4	1.6	4.1	8.6	0.08	0.51	0.42	41	0.03	0.027
1267977	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
617704	Soil	1.22	14.54	13.32	79.8	48	27.3	10.2	232	2.79	3.2	0.7	4.8	1.4	148.9	0.15	0.24	0.21	22	2.47	0.075
617705	Soil	1.55	16.37	15.58	90.6	58	34.3	13.4	352	3.22	3.9	0.6	2.3	3.6	244.5	0.25	0.32	0.19	20	4.57	0.072
617706	Soil	2.87	19.31	15.84	199.8	230	37.9	12.6	331	3.55	6.1	1.0	2.0	4.0	104.6	1.73	1.30	0.21	66	2.66	0.066
617707	Soil	2.13	17.04	24.69	137.1	238	31.6	10.6	554	3.56	6.0	1.1	3.2	2.0	63.9	0.79	0.98	0.21	59	1.35	0.095
617708	Soil	1.52	16.21	17.11	83.0	109	17.1	7.1	334	2.89	9.0	1.0	5.2	0.6	53.2	0.35	0.79	0.32	46	0.77	0.078
617709	Soil	1.28	11.37	13.93	44.6	100	8.8	3.8	98	2.62	7.8	0.4	3.1	3.3	4.4	0.06	0.70	0.27	43	0.01	0.025
617710	Soil	2.91	19.65	36.12	78.8	90	21.6	12.1	533	2.53	8.3	0.6	2.0	3.1	4.7	0.13	0.64	0.25	19	0.03	0.047
617711	Soil	0.86	20.35	20.44	79.4	39	27.5	13.1	468	3.09	5.1	0.8	1.7	4.4	5.2	0.15	0.49	0.22	29	0.06	0.053



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267915	Soil	5.2	16.6	0.33	119.1	0.001	3	1.00	0.001	0.07	<0.1	3.9	0.07	0.07	209	0.5	0.03	3.0	1.74	<0.1	0.05
1267916	Soil	4.2	13.4	0.22	101.4	0.001	3	0.81	0.001	0.07	<0.1	3.5	0.08	0.07	203	0.9	0.03	2.3	3.01	<0.1	0.03
1267917	Soil	6.7	22.7	0.43	163.8	0.009	5	1.20	0.004	0.08	<0.1	2.0	0.09	0.10	131	1.2	0.02	3.2	7.02	<0.1	0.03
1267918	Soil	3.3	8.2	0.06	95.8	<0.001	<1	0.67	<0.001	0.05	<0.1	5.2	0.09	<0.02	38	0.2	0.06	1.7	1.08	<0.1	<0.02
1267919	Soil	4.6	10.8	0.10	203.1	<0.001	1	0.76	0.002	0.07	<0.1	3.7	0.08	0.04	64	0.4	0.03	2.2	1.62	<0.1	<0.02
1267920	Soil	7.4	10.3	0.11	129.3	<0.001	4	0.63	0.001	0.06	<0.1	6.4	0.09	0.05	249	0.6	0.04	1.3	1.52	<0.1	<0.02
1267962	Soil	9.6	27.5	0.41	104.4	0.011	2	1.73	0.001	0.09	0.1	2.1	0.11	<0.02	35	0.3	<0.02	5.1	2.10	<0.1	<0.02
1267963	Soil	4.6	41.2	0.45	71.1	0.003	<1	2.37	<0.001	0.10	<0.1	3.9	0.10	<0.02	21	0.3	0.03	8.1	2.96	<0.1	0.05
1267964	Soil	7.4	29.7	0.39	212.2	0.003	<1	1.77	<0.001	0.14	<0.1	4.7	0.11	<0.02	38	0.1	<0.02	6.4	1.70	<0.1	0.04
1267965	Soil	3.8	29.5	0.36	251.3	0.002	<1	2.09	<0.001	0.18	<0.1	3.6	0.15	<0.02	10	0.2	0.04	6.7	1.65	<0.1	0.03
1267966	Soil	9.8	31.8	0.49	198.2	0.007	<1	1.97	<0.001	0.10	<0.1	3.5	0.10	<0.02	25	0.2	<0.02	5.8	1.20	<0.1	0.03
1267967	Soil	5.5	32.9	0.48	155.3	0.004	1	1.92	<0.001	0.15	<0.1	3.4	0.12	<0.02	20	0.2	<0.02	6.6	2.02	<0.1	0.03
1267968	Soil	4.0	26.6	0.38	204.9	0.002	1	1.75	<0.001	0.25	<0.1	2.4	0.12	<0.02	10	0.2	0.02	6.0	0.71	<0.1	0.03
1267969	Soil	4.5	30.3	0.56	93.1	0.003	1	1.85	<0.001	0.18	<0.1	2.8	0.10	<0.02	15	0.1	<0.02	6.4	1.36	<0.1	0.03
1267970	Soil	4.9	30.5	0.57	117.0	0.005	1	1.65	<0.001	0.13	<0.1	2.7	0.08	<0.02	13	0.1	<0.02	6.2	1.52	<0.1	0.02
1267971	Soil	9.8	26.6	0.42	215.9	0.011	1	1.42	0.002	0.08	<0.1	2.8	0.09	<0.02	46	0.3	<0.02	5.3	0.94	<0.1	<0.02
1267972	Soil	4.8	28.8	0.43	110.3	0.002	1	2.02	<0.001	0.09	<0.1	2.5	0.10	<0.02	17	0.3	<0.02	6.7	1.09	<0.1	0.03
1267973	Soil	7.7	30.8	0.42	146.8	0.007	<1	2.32	<0.001	0.09	0.1	2.3	0.11	<0.02	13	0.2	<0.02	6.5	1.08	<0.1	0.05
1267974	Soil	4.9	41.6	0.62	186.5	0.003	3	2.34	0.005	0.17	<0.1	3.2	0.18	<0.02	25	0.2	<0.02	9.0	3.05	<0.1	0.03
1267975	Soil	6.1	37.3	0.54	153.8	0.001	2	2.16	0.005	0.13	<0.1	2.6	0.14	<0.02	22	0.2	<0.02	7.6	2.54	<0.1	0.04
1267976	Soil	6.9	32.3	0.49	118.0	0.002	1	2.05	0.004	0.12	<0.1	2.5	0.15	<0.02	22	0.2	0.03	7.4	1.79	<0.1	0.05
1267977	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
617704	Soil	12.8	18.1	0.33	151.5	<0.001	11	0.97	0.003	0.20	<0.1	2.7	0.30	0.11	34	0.4	<0.02	2.4	1.31	<0.1	0.09
617705	Soil	16.1	18.9	0.35	124.1	0.001	11	1.06	0.004	0.27	<0.1	4.4	0.25	0.03	27	0.3	<0.02	2.5	1.74	<0.1	0.08
617706	Soil	21.2	22.1	0.37	167.3	0.002	9	1.30	0.004	0.28	<0.1	5.1	0.38	0.04	28	0.8	<0.02	3.4	1.38	<0.1	0.10
617707	Soil	21.2	24.9	0.31	204.7	0.001	6	1.49	0.003	0.18	<0.1	3.1	0.27	0.08	38	0.7	0.03	3.8	1.12	<0.1	0.12
617708	Soil	9.0	23.1	0.28	143.2	0.004	4	1.34	0.004	0.11	0.1	1.3	0.18	0.08	28	0.5	0.07	5.2	2.08	<0.1	<0.02
617709	Soil	11.3	15.6	0.13	37.2	0.013	2	0.79	0.002	0.09	<0.1	1.1	0.12	<0.02	26	0.3	<0.02	5.4	1.25	<0.1	<0.02
617710	Soil	13.0	20.4	0.23	62.6	0.002	4	0.90	0.002	0.12	<0.1	2.1	0.19	0.03	51	0.3	0.02	2.8	1.64	<0.1	0.04
617711	Soil	12.8	27.2	0.49	87.6	0.002	5	1.88	0.002	0.21	<0.1	2.8	0.17	<0.02	35	0.2	<0.02	4.6	1.90	<0.1	0.10



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 11 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1267915	Soil			0.21	9.0	0.4	<0.05	1.3	8.68	11.8	0.03	<1	1.0	20.9	<10	<2
1267916	Soil			0.22	13.9	0.4	<0.05	1.2	7.17	9.1	0.03	<1	1.0	16.3	<10	<2
1267917	Soil			0.55	18.3	0.4	<0.05	0.7	4.97	15.3	0.03	<1	0.5	18.1	<10	<2
1267918	Soil			0.13	5.7	0.4	<0.05	0.7	8.42	11.5	0.06	<1	1.0	4.0	<10	<2
1267919	Soil			0.21	11.8	0.4	<0.05	0.6	7.22	12.5	0.04	<1	0.6	12.0	<10	<2
1267920	Soil			0.09	6.1	0.3	<0.05	0.9	18.29	17.4	0.05	<1	1.1	5.4	<10	<2
1267962	Soil			0.66	13.0	0.8	<0.05	0.4	4.04	24.9	0.03	<1	1.2	27.3	<10	<2
1267963	Soil			0.44	15.0	0.8	<0.05	2.8	4.77	13.0	0.06	<1	1.3	43.4	<10	<2
1267964	Soil			0.26	12.8	0.7	<0.05	2.2	13.35	23.6	0.04	<1	1.3	31.8	<10	<2
1267965	Soil			0.36	21.4	0.8	<0.05	1.6	4.17	12.9	0.04	<1	1.5	33.6	<10	<2
1267966	Soil			0.55	13.8	0.7	<0.05	1.2	6.03	22.0	0.03	<1	0.8	30.9	<10	<2
1267967	Soil			0.34	17.7	1.2	<0.05	1.5	4.03	14.2	0.04	<1	1.6	36.3	<10	<2
1267968	Soil			0.31	17.5	0.8	<0.05	1.7	2.59	9.5	0.03	<1	1.3	25.7	<10	<2
1267969	Soil			0.25	14.5	0.8	<0.05	1.9	3.69	11.9	0.03	<1	1.5	36.8	<10	<2
1267970	Soil			0.34	14.9	1.1	<0.05	1.1	3.50	12.4	0.03	<1	1.2	40.8	<10	<2
1267971	Soil			0.55	15.2	0.7	<0.05	0.6	4.51	22.1	0.02	<1	0.6	34.0	<10	<2
1267972	Soil			0.38	15.7	0.9	<0.05	1.7	3.24	11.6	0.03	<1	1.0	51.4	<10	<2
1267973	Soil			0.72	15.3	0.7	<0.05	2.4	2.44	16.2	0.02	<1	0.6	34.0	<10	<2
1267974	Soil			0.29	24.2	3.0	<0.05	1.5	3.91	13.7	0.05	<1	1.7	54.5	<10	<2
1267975	Soil			0.21	18.6	1.2	<0.05	2.2	3.08	14.6	0.03	<1	1.0	56.9	<10	<2
1267976	Soil			0.36	17.8	1.2	<0.05	2.2	2.74	15.9	0.03	<1	1.0	47.1	<10	<2
1267977	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
617704	Soil			0.46	12.4	0.6	<0.05	4.7	10.46	27.2	0.03	<1	1.1	10.1	<10	<2
617705	Soil			0.25	13.9	0.7	<0.05	5.6	11.07	38.6	0.04	<1	1.0	11.0	<10	<2
617706	Soil			0.41	14.4	0.8	<0.05	7.5	14.32	46.3	0.04	<1	1.2	15.8	<10	<2
617707	Soil			0.60	13.4	0.8	<0.05	5.4	13.58	43.2	0.04	<1	1.4	14.7	<10	<2
617708	Soil			0.80	15.9	0.9	<0.05	0.8	4.66	20.8	0.03	<1	0.7	13.3	<10	<2
617709	Soil			0.65	10.1	0.8	<0.05	1.6	1.97	26.8	<0.02	<1	0.2	4.9	<10	<2
617710	Soil			0.20	11.8	0.6	<0.05	1.8	7.03	34.2	0.02	<1	0.6	11.4	<10	<2
617711	Soil			0.15	20.4	0.8	<0.05	3.2	4.83	60.7	0.03	<1	0.8	35.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
617712	Soil	0.60	13.46	13.39	44.3	35	14.2	7.3	205	2.81	4.0	0.4	0.7	4.0	5.2	0.10	0.44	0.23	37	0.05	0.055
617713	Soil	0.41	16.55	18.69	65.8	101	15.8	7.1	225	1.97	4.8	0.6	1.5	3.4	15.5	0.11	0.34	0.26	15	0.55	0.065
617714	Soil	1.43	26.79	27.91	68.4	50	17.6	16.1	1822	3.84	16.4	1.1	2.6	0.9	6.5	0.12	0.67	0.43	40	0.04	0.075
617715	Soil	1.89	38.62	16.99	79.2	38	19.2	15.6	1754	4.06	17.5	1.0	2.0	1.9	8.6	0.14	0.83	0.50	49	0.04	0.067
617716	Soil	1.53	27.23	28.74	86.5	40	22.6	22.0	1871	4.57	16.7	1.0	1.3	2.0	7.8	0.15	0.81	0.49	44	0.04	0.072
617717	Soil	0.95	30.13	22.72	86.6	35	23.5	28.2	2692	5.07	9.7	1.1	2.4	2.9	7.3	0.11	0.62	0.50	40	0.03	0.084
617718	Soil	1.21	16.97	15.89	79.2	28	17.9	8.1	386	3.11	10.3	0.8	1.8	0.8	13.3	0.14	0.70	0.35	49	0.09	0.055
617719	Soil	0.49	25.21	47.86	78.9	31	12.2	7.7	402	3.88	14.8	0.9	0.5	2.3	6.8	0.07	0.70	0.37	14	0.09	0.030
617720	Soil	0.61	14.86	28.05	72.6	20	24.5	16.3	930	4.09	9.3	0.7	1.0	3.3	7.0	0.07	0.47	0.42	35	0.08	0.058
617721	Soil	2.65	8.87	79.86	156.7	56	10.1	5.7	2363	2.34	23.9	2.2	1.7	1.7	24.8	0.82	0.38	0.22	30	3.66	0.274
617722	Soil	2.72	16.26	1052	383.1	125	18.7	9.7	1672	3.02	25.2	3.6	2.4	2.5	34.6	0.84	0.66	0.28	43	3.56	0.854
617723	Soil	1.82	12.67	249.7	827.6	86	13.5	7.1	2751	4.28	13.3	1.7	1.2	1.1	32.6	2.38	0.46	0.17	21	6.47	0.157
617724	Soil	1.95	17.47	176.8	989.7	149	17.6	8.3	1792	4.19	16.1	4.2	3.1	1.4	16.8	1.70	0.49	0.25	29	1.35	0.162
617725	Soil	2.21	19.04	167.8	1080	174	20.8	9.7	3246	4.39	18.7	3.3	2.1	1.6	28.2	2.24	0.59	0.25	33	3.26	0.213
617726	Soil	0.99	11.98	43.83	302.0	117	15.3	6.9	573	2.75	8.7	3.6	3.3	1.6	14.4	0.52	0.43	0.25	29	1.02	0.145
617727	Soil	0.89	10.63	33.32	432.7	162	18.6	6.8	254	2.80	7.0	0.9	2.1	3.3	13.5	0.34	0.26	0.48	27	0.55	0.073
617728	Soil	1.09	13.08	22.48	106.7	67	16.0	7.2	291	2.67	8.0	1.0	2.7	2.0	8.4	0.10	0.40	0.29	25	0.15	0.110
617729	Soil	0.51	18.65	44.58	91.7	108	22.2	13.1	1080	3.69	12.5	0.8	2.9	1.9	66.6	0.27	0.84	0.33	13	0.21	0.184
617730	Soil	0.45	18.40	24.96	71.1	136	19.1	8.8	424	2.88	5.4	1.0	2.8	1.1	19.2	0.07	0.31	0.27	20	0.27	0.209
617731	Soil	0.13	46.05	22.95	97.6	73	41.6	13.0	585	3.03	2.5	1.6	3.9	4.2	118.6	0.16	0.12	0.26	16	4.42	0.061
617732	Soil	0.31	61.70	31.25	127.5	69	43.4	13.2	419	3.24	4.2	3.0	2.7	4.5	20.0	0.14	0.33	0.35	21	0.49	0.078



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
617712	Soil	19.0	25.7	0.37	90.9	0.004	6	1.68	0.002	0.19	<0.1	2.0	0.17	0.02	21	0.2	0.02	5.6	2.48	<0.1	0.05
617713	Soil	22.5	16.5	0.46	73.9	0.002	6	1.02	0.003	0.19	<0.1	3.3	0.11	0.04	23	0.3	<0.02	3.0	1.54	<0.1	0.11
617714	Soil	5.9	28.0	0.31	171.4	0.006	1	1.26	0.004	0.09	0.1	1.5	0.11	0.05	29	0.3	0.03	5.5	3.19	<0.1	<0.02
617715	Soil	9.3	35.3	0.42	94.1	0.009	2	1.85	0.004	0.09	0.1	2.7	0.15	0.03	44	0.5	0.06	6.9	4.35	<0.1	<0.02
617716	Soil	8.7	35.1	0.45	74.0	0.008	2	1.90	0.005	0.10	0.1	2.7	0.14	0.03	38	0.5	0.04	6.5	4.20	<0.1	0.02
617717	Soil	6.5	36.3	0.44	118.9	0.006	1	1.96	0.007	0.14	0.1	3.9	0.14	0.02	20	0.3	0.05	7.2	4.50	<0.1	0.03
617718	Soil	11.0	29.7	0.38	153.0	0.007	2	1.69	0.005	0.09	0.1	1.7	0.17	0.03	24	0.2	0.03	6.1	2.58	<0.1	<0.02
617719	Soil	2.7	11.8	0.13	123.5	<0.001	1	0.72	0.003	0.13	<0.1	2.7	0.32	<0.02	27	<0.1	0.02	2.4	1.37	<0.1	<0.02
617720	Soil	5.9	30.5	0.47	165.7	0.002	2	2.00	0.006	0.15	0.1	2.7	0.24	0.03	21	0.2	0.04	6.3	2.56	<0.1	0.05
617721	Soil	14.2	18.9	1.79	116.9	0.002	3	0.98	0.005	0.08	<0.1	1.9	0.47	0.08	68	0.4	0.04	2.2	0.82	<0.1	0.05
617722	Soil	20.5	27.5	1.28	120.7	0.007	7	1.69	0.009	0.20	0.1	2.8	1.11	0.08	109	0.5	0.04	4.3	2.23	<0.1	0.09
617723	Soil	8.6	14.6	4.09	95.5	0.003	3	1.04	0.008	0.07	<0.1	1.6	0.90	0.07	66	0.5	0.04	2.5	0.63	<0.1	0.04
617724	Soil	13.5	22.9	0.51	131.5	0.004	4	1.33	0.005	0.09	0.1	2.2	1.07	0.13	68	0.7	0.04	3.8	0.85	<0.1	0.08
617725	Soil	16.2	22.5	1.90	145.9	0.006	3	1.34	0.007	0.09	<0.1	2.4	1.21	0.07	71	0.6	0.04	3.5	0.80	<0.1	0.07
617726	Soil	13.0	22.8	0.49	100.8	0.006	5	1.34	0.004	0.10	<0.1	2.2	0.41	0.12	43	0.4	<0.02	3.7	0.96	<0.1	0.08
617727	Soil	13.6	25.1	0.48	173.2	0.002	3	1.43	0.004	0.11	<0.1	3.4	0.79	0.06	46	0.3	<0.02	4.1	0.77	<0.1	0.09
617728	Soil	10.6	18.1	0.23	69.6	0.003	4	0.93	0.002	0.13	<0.1	2.0	0.16	0.04	19	0.1	0.05	2.7	1.18	<0.1	0.04
617729	Soil	5.7	12.9	0.15	96.2	0.001	3	0.65	0.004	0.12	<0.1	1.8	0.13	0.10	62	0.3	0.05	2.2	3.62	<0.1	0.03
617730	Soil	6.1	28.4	0.41	91.8	0.002	1	1.27	0.003	0.09	<0.1	1.0	0.15	0.13	44	0.3	0.03	4.6	2.11	<0.1	0.06
617731	Soil	11.3	37.1	1.14	65.2	0.003	4	1.74	0.004	0.13	<0.1	4.3	0.07	0.03	22	0.2	<0.02	5.0	2.17	<0.1	0.15
617732	Soil	15.4	40.2	1.20	82.5	0.005	3	1.87	0.005	0.10	<0.1	5.8	0.10	0.04	28	0.4	<0.02	5.6	2.67	<0.1	0.17



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 12 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001353.2

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
617712	Soil	0.37	21.0	0.9	<0.05	1.9	3.77	51.0	0.03	<1	0.7	29.9	<10	<2
617713	Soil	0.20	12.7	1.6	<0.05	4.1	15.92	38.8	<0.02	<1	0.9	18.0	<10	<2
617714	Soil	0.42	12.1	1.9	<0.05	0.3	3.17	15.1	0.03	<1	0.5	18.9	<10	<2
617715	Soil	0.49	17.0	1.2	<0.05	0.5	4.67	21.4	0.03	<1	1.1	32.1	<10	<2
617716	Soil	0.37	15.2	1.1	<0.05	0.3	5.16	21.5	0.05	<1	1.3	33.3	<10	<2
617717	Soil	0.31	19.0	1.2	<0.05	1.0	6.41	16.9	0.04	<1	1.4	33.0	<10	<2
617718	Soil	0.51	15.9	0.9	<0.05	0.1	5.81	27.2	0.03	<1	0.9	27.4	<10	<2
617719	Soil	0.12	13.0	0.8	<0.05	0.4	4.66	6.3	0.03	<1	0.7	6.1	<10	<2
617720	Soil	0.44	20.4	1.0	<0.05	1.4	4.24	16.5	0.04	<1	1.2	45.3	<10	<2
617721	Soil	0.18	6.9	0.5	<0.05	1.7	12.46	29.6	0.02	<1	0.8	6.5	<10	<2
617722	Soil	0.37	15.3	0.6	<0.05	2.5	22.27	34.8	0.03	<1	0.9	13.1	<10	<2
617723	Soil	0.23	6.3	0.4	<0.05	1.3	9.02	15.7	<0.02	<1	0.8	9.4	<10	<2
617724	Soil	0.48	9.6	0.6	<0.05	1.9	12.53	23.9	0.03	<1	0.9	11.4	<10	<2
617725	Soil	0.31	8.1	0.6	<0.05	1.9	14.91	28.9	0.02	<1	0.9	12.1	<10	<2
617726	Soil	0.51	12.0	0.6	<0.05	2.1	10.38	23.1	<0.02	1	0.8	13.7	<10	<2
617727	Soil	0.45	12.8	0.7	<0.05	2.7	10.36	25.7	0.03	<1	0.8	21.5	<10	<2
617728	Soil	0.23	13.5	0.4	<0.05	2.0	7.58	26.7	0.03	<1	0.5	11.0	<10	<2
617729	Soil	0.07	8.9	0.8	<0.05	1.0	8.68	18.2	0.02	<1	0.6	7.2	<10	<2
617730	Soil	0.24	11.8	0.5	<0.05	2.0	3.83	14.9	0.02	<1	0.6	18.4	<10	<2
617731	Soil	0.11	7.3	0.5	<0.05	4.4	12.57	26.6	0.03	<1	1.0	42.4	<10	<2
617732	Soil	0.23	9.6	0.6	<0.05	5.9	22.94	26.7	0.04	<1	1.2	50.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
Suite 650 - 200 Burrard Street
Vancouver BC V6C 3L6 Canada

Project: Scarlet
Report Date: December 16, 2011

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001353.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
1267715	Soil	0.49	13.16	17.16	67.8	50	18.2	8.1	451	3.56	7.9	0.4	1.5	2.7	5.7	0.06	0.36	0.27	28	0.04	0.031
REP 1267715	QC	0.49	13.81	17.98	71.1	51	18.4	8.6	476	3.69	8.4	0.5	0.6	2.8	5.9	0.06	0.40	0.30	30	0.04	0.031
1267952	Soil	0.95	32.24	56.23	116.1	278	36.2	27.6	1540	5.72	3.3	0.7	0.7	2.9	6.0	0.04	0.21	0.99	27	0.04	0.021
REP 1267952	QC	1.01	33.12	57.01	116.5	292	36.5	27.6	1537	5.84	3.4	0.7	1.2	3.1	6.4	0.05	0.20	1.09	27	0.05	0.022
1267019	Soil	1.05	37.09	41.26	134.6	175	33.3	23.9	1634	7.18	5.4	0.8	0.6	4.4	5.4	0.18	0.31	0.49	49	0.03	0.052
REP 1267019	QC	1.07	37.52	41.53	140.5	173	34.4	25.1	1637	7.32	5.4	0.8	<0.2	4.4	5.8	0.17	0.36	0.48	50	0.02	0.053
1267732	Soil	0.61	24.50	31.71	162.2	61	24.5	21.9	2384	4.51	5.6	0.5	0.8	3.6	12.1	0.11	0.23	0.46	39	0.12	0.059
REP 1267732	QC	0.61	24.57	32.16	166.6	61	25.0	21.9	2403	4.53	5.5	0.5	0.6	3.7	12.1	0.12	0.21	0.46	40	0.12	0.058
1267750	Soil	0.54	27.06	31.25	104.0	135	40.3	15.0	448	3.18	7.0	0.6	0.9	3.1	225.5	0.14	0.30	0.33	9	4.75	0.044
REP 1267750	QC	0.58	25.54	30.82	94.4	131	38.6	14.7	445	3.17	7.0	0.6	0.3	3.2	223.0	0.15	0.33	0.34	10	4.58	0.042
1267773	Soil	0.47	18.45	31.92	74.2	150	24.2	9.8	312	4.18	6.2	0.8	2.3	2.7	40.9	0.07	0.23	0.52	13	0.57	0.062
REP 1267773	QC	0.48	19.08	33.55	78.8	149	24.4	10.6	323	4.36	6.7	0.8	2.7	2.5	42.8	0.07	0.25	0.51	14	0.59	0.065
617081	Soil	0.50	23.64	22.04	76.3	127	24.8	11.4	522	3.46	12.7	0.8	0.6	3.0	50.2	0.16	0.69	0.29	22	2.22	0.051
REP 617081	QC	0.49	21.73	20.48	71.3	114	22.6	10.6	490	3.23	11.8	0.8	1.3	2.8	45.8	0.16	0.61	0.26	21	2.07	0.047
617096	Soil	0.34	19.61	20.19	99.7	80	21.1	9.4	323	2.93	16.3	0.7	1.7	2.0	61.2	0.17	0.45	0.22	14	1.02	0.040
REP 617096	QC	0.37	20.68	21.24	106.1	91	22.1	9.9	336	3.09	17.5	0.8	1.1	2.2	65.7	0.18	0.48	0.25	15	1.08	0.043
1267484	Soil	0.97	30.31	48.67	107.3	159	27.1	20.1	967	4.45	8.9	0.9	0.2	3.2	20.3	0.17	0.47	0.32	27	0.31	0.100
REP 1267484	QC	0.96	28.84	46.82	100.7	147	26.2	19.1	935	4.29	8.5	0.9	0.4	3.4	19.8	0.15	0.44	0.29	25	0.30	0.098
1267492	Soil	1.25	23.46	16.16	107.9	127	16.0	8.8	356	3.32	8.5	0.4	1.1	0.2	5.4	0.53	0.81	0.43	38	0.06	0.064
REP 1267492	QC	1.23	24.37	16.81	113.4	131	15.9	8.7	367	3.31	8.6	0.4	1.0	0.2	5.6	0.52	0.83	0.42	38	0.05	0.066
1266494	Soil	0.32	19.35	19.66	40.1	64	16.2	10.3	276	2.74	9.3	0.5	0.7	3.2	22.7	0.03	0.18	0.37	12	0.59	0.034
REP 1266494	QC	0.33	19.71	20.38	42.5	62	16.9	10.5	283	2.78	9.5	0.5	0.8	3.3	23.2	0.03	0.19	0.37	12	0.60	0.037
1267873	Soil	0.33	39.72	26.25	103.5	174	33.9	17.8	362	4.15	12.1	0.5	1.6	3.5	53.3	0.08	0.20	0.33	21	0.31	0.030
REP 1267873	QC	0.31	38.19	25.53	96.7	159	33.1	17.3	349	4.08	11.7	0.5	1.9	3.3	49.6	0.07	0.19	0.31	21	0.29	0.028
1267893	Soil	0.45	17.76	40.38	255.0	32	26.1	12.2	1056	4.90	21.1	1.0	0.9	4.6	27.6	0.43	0.81	0.32	31	0.36	0.029
REP 1267893	QC	0.47	17.61	39.72	253.2	35	26.2	12.5	1064	4.92	20.9	1.0	0.9	4.5	27.9	0.41	0.87	0.33	31	0.35	0.029
1267905	Soil	1.03	17.12	10.14	63.3	23	19.3	10.1	302	3.72	40.7	0.2	<0.2	1.2	6.3	0.06	0.47	0.29	33	0.02	0.034
REP 1267905	QC	0.93	15.83	9.32	57.0	18	18.0	9.2	285	3.41	36.4	0.2	<0.2	1.1	5.7	0.05	0.39	0.26	30	0.02	0.032

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001353.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
1267715	Soil	6.2	22.3	0.30	96.5	0.003	1	1.33	0.001	0.10	<0.1	2.0	0.11	<0.02	31	<0.1	0.02	5.0	1.35	<0.1	<0.02
REP 1267715	QC	6.5	22.6	0.31	98.7	0.003	1	1.39	0.001	0.10	<0.1	2.1	0.10	<0.02	30	0.2	0.02	5.2	1.46	<0.1	0.02
1267952	Soil	3.0	30.2	0.66	109.6	<0.001	<1	2.73	<0.001	0.09	<0.1	5.3	0.21	<0.02	32	0.2	0.04	7.6	4.23	<0.1	0.03
REP 1267952	QC	3.2	32.6	0.67	116.1	<0.001	<1	2.76	<0.001	0.09	<0.1	5.4	0.21	<0.02	35	0.2	0.04	7.6	4.40	<0.1	0.03
1267019	Soil	4.9	47.2	0.58	146.9	0.003	<1	2.96	0.001	0.10	<0.1	5.2	0.11	<0.02	46	0.3	0.04	11.2	4.48	<0.1	0.05
REP 1267019	QC	5.4	48.6	0.58	143.8	0.005	<1	3.03	0.002	0.11	<0.1	5.6	0.11	<0.02	44	0.4	0.05	11.3	5.34	<0.1	0.06
1267732	Soil	7.4	34.4	0.36	381.2	0.002	2	2.52	0.001	0.17	<0.1	3.5	0.22	<0.02	22	0.2	0.04	9.3	2.93	<0.1	0.05
REP 1267732	QC	7.6	34.4	0.35	386.6	0.003	2	2.57	0.002	0.17	<0.1	3.6	0.22	<0.02	22	0.2	0.02	9.7	2.95	<0.1	0.04
1267750	Soil	3.1	10.9	0.34	83.3	0.002	6	0.71	0.003	0.12	<0.1	3.5	0.14	0.10	81	0.4	0.05	2.0	2.71	<0.1	0.03
REP 1267750	QC	3.4	11.1	0.32	92.8	0.002	6	0.74	0.003	0.12	<0.1	3.5	0.13	0.09	61	0.3	0.05	1.9	2.68	<0.1	0.04
1267773	Soil	6.9	7.5	0.06	165.0	<0.001	2	0.77	<0.001	0.06	<0.1	4.0	0.17	0.04	129	0.3	0.03	1.4	0.99	<0.1	0.04
REP 1267773	QC	7.3	7.9	0.07	172.5	<0.001	3	0.83	<0.001	0.06	<0.1	4.2	0.19	0.04	113	0.2	0.05	1.5	1.17	<0.1	0.03
617081	Soil	8.8	18.9	1.10	125.8	0.004	3	1.30	0.003	0.08	<0.1	4.3	0.09	0.04	209	0.3	0.05	3.6	0.94	<0.1	0.05
REP 617081	QC	8.1	17.9	1.01	118.0	0.003	3	1.21	0.002	0.07	<0.1	4.1	0.09	0.04	157	0.3	0.04	3.6	0.91	<0.1	0.06
617096	Soil	4.8	14.1	0.32	93.4	0.001	2	0.84	0.004	0.06	<0.1	2.7	0.06	0.05	261	0.5	<0.02	2.6	0.63	<0.1	0.04
REP 617096	QC	5.1	15.3	0.35	99.4	0.001	3	0.90	0.004	0.06	<0.1	3.0	0.07	0.05	194	0.5	<0.02	2.7	0.69	<0.1	0.04
1267484	Soil	5.6	24.6	0.34	131.1	0.004	1	1.52	0.003	0.08	<0.1	5.0	0.11	0.05	18	0.2	0.04	4.8	3.28	<0.1	0.05
REP 1267484	QC	5.2	23.4	0.33	129.3	0.003	<1	1.42	0.003	0.07	<0.1	4.9	0.10	0.04	27	0.2	0.05	4.4	3.00	<0.1	0.05
1267492	Soil	4.1	13.1	0.04	63.6	0.004	1	0.43	0.001	0.05	<0.1	0.6	0.05	0.04	28	0.2	0.05	4.0	2.09	<0.1	<0.02
REP 1267492	QC	4.3	13.1	0.04	66.3	0.005	1	0.44	0.002	0.05	<0.1	0.7	0.06	0.04	36	0.2	0.06	4.2	2.18	<0.1	<0.02
1266494	Soil	7.3	8.4	0.11	87.6	<0.001	3	0.63	0.002	0.10	<0.1	3.1	0.08	0.04	93	<0.1	0.04	1.8	0.61	<0.1	0.04
REP 1266494	QC	7.0	8.6	0.11	87.7	<0.001	3	0.60	0.003	0.09	<0.1	3.1	0.08	0.04	108	0.1	0.05	1.8	0.50	<0.1	0.03
1267873	Soil	5.9	24.3	0.38	94.9	0.006	3	0.98	0.004	0.07	<0.1	4.3	0.08	0.02	82	0.2	<0.02	4.5	5.47	<0.1	0.03
REP 1267873	QC	5.6	23.6	0.36	90.1	0.006	3	0.95	0.004	0.07	<0.1	4.1	0.09	<0.02	80	0.2	0.04	4.2	5.42	<0.1	0.02
1267893	Soil	11.2	29.5	0.42	129.3	0.002	<1	1.99	0.005	0.08	<0.1	4.3	0.12	<0.02	217	0.2	0.04	6.1	0.88	<0.1	0.07
REP 1267893	QC	11.2	29.8	0.42	129.5	0.002	<1	2.02	0.006	0.08	<0.1	4.2	0.13	<0.02	211	0.2	0.04	6.2	0.91	<0.1	0.06
1267905	Soil	2.5	10.7	0.06	80.8	0.001	1	0.75	<0.001	0.04	<0.1	2.9	0.10	<0.02	45	0.2	0.07	3.6	5.06	<0.1	<0.02
REP 1267905	QC	2.2	9.9	0.06	72.4	0.001	<1	0.70	<0.001	0.04	<0.1	2.7	0.09	<0.02	34	0.2	0.03	3.1	4.18	<0.1	<0.02

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 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 1 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001353.2

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
1267715	Soil	0.54	15.3	0.9	<0.05	0.8	2.86	14.0	0.02	<1	0.7	22.9	<10	<2
REP 1267715	QC	0.54	16.7	1.0	<0.05	0.9	3.02	14.5	0.03	<1	0.6	23.8	<10	<2
1267952	Soil	0.05	24.1	1.0	<0.05	1.6	6.06	10.5	0.04	<1	1.7	60.8	<10	<2
REP 1267952	QC	0.05	24.8	1.0	<0.05	1.5	6.21	10.8	0.04	<1	1.7	59.9	<10	<2
1267019	Soil	0.67	18.6	1.7	<0.05	2.5	4.64	10.9	0.07	<1	1.3	50.9	<10	<2
REP 1267019	QC	0.67	20.8	1.8	<0.05	2.4	4.88	12.1	0.07	<1	1.3	52.9	<10	<2
1267732	Soil	0.42	29.4	1.1	<0.05	1.8	3.63	19.7	0.04	<1	1.7	47.7	<10	<2
REP 1267732	QC	0.44	29.9	1.2	<0.05	1.6	3.61	19.6	0.04	<1	1.7	47.0	<10	<2
1267750	Soil	0.09	9.8	3.5	<0.05	1.9	8.36	9.3	0.03	<1	0.8	27.9	<10	<2
REP 1267750	QC	0.11	10.1	3.3	<0.05	2.0	8.58	10.5	0.04	<1	0.7	27.0	<10	<2
1267773	Soil	0.09	10.7	0.7	<0.05	1.6	13.14	24.2	0.06	<1	1.1	6.5	<10	<2
REP 1267773	QC	0.10	12.4	0.7	<0.05	1.3	13.50	25.9	0.06	3	1.2	7.0	<10	3
617081	Soil	0.33	9.0	0.6	<0.05	1.7	11.29	17.6	0.03	<1	0.9	26.0	<10	<2
REP 617081	QC	0.34	8.2	0.6	<0.05	1.5	10.79	16.8	0.04	<1	0.8	24.8	<10	<2
617096	Soil	0.21	4.9	0.3	<0.05	1.5	5.93	11.1	0.03	<1	0.6	19.7	<10	<2
REP 617096	QC	0.21	5.4	0.3	<0.05	1.5	6.32	11.9	0.03	1	0.7	20.7	<10	<2
1267484	Soil	0.28	12.4	0.6	<0.05	1.5	12.85	21.9	0.06	<1	1.5	43.7	<10	<2
REP 1267484	QC	0.26	10.9	0.6	<0.05	1.5	12.50	21.0	0.05	<1	1.2	41.2	<10	<2
1267492	Soil	0.30	14.2	1.2	<0.05	<0.1	1.72	8.4	0.03	<1	0.3	1.9	<10	<2
REP 1267492	QC	0.28	14.7	1.2	<0.05	<0.1	1.79	9.0	0.03	<1	0.2	1.9	<10	<2
1266494	Soil	0.16	6.3	0.3	<0.05	1.0	5.39	22.3	0.03	1	0.6	6.9	<10	<2
REP 1266494	QC	0.15	5.8	0.3	<0.05	1.2	5.59	22.4	0.03	<1	0.6	7.0	<10	<2
1267873	Soil	0.34	10.7	0.7	<0.05	0.9	8.45	15.0	0.05	<1	1.2	33.6	<10	<2
REP 1267873	QC	0.34	10.3	0.7	<0.05	0.8	7.87	14.4	0.04	<1	1.0	32.7	<10	<2
1267893	Soil	0.39	11.8	0.5	<0.05	2.5	9.57	24.2	0.04	<1	1.2	23.9	<10	<2
REP 1267893	QC	0.38	12.2	0.5	<0.05	2.5	9.54	24.5	0.03	<1	1.2	23.1	<10	<2
1267905	Soil	0.17	14.3	0.8	<0.05	0.2	2.02	5.4	0.03	<1	0.3	3.7	<10	<2
REP 1267905	QC	0.14	12.6	0.6	<0.05	0.2	1.84	5.3	0.03	<1	0.3	3.6	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001353.2

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
1267966	Soil	0.52	17.51	18.93	72.1	39	26.4	10.5	1161	3.21	5.4	0.7	<0.2	4.9	7.9	0.06	0.26	0.28	32	0.08	0.022
REP 1267966	QC	0.55	18.01	19.03	72.7	47	27.4	10.7	1198	3.29	5.8	0.7	0.2	5.0	8.1	0.07	0.27	0.31	33	0.08	0.022
1267974	Soil	0.29	37.47	20.12	87.8	107	29.7	14.9	322	4.09	3.9	0.4	5.1	4.0	8.6	0.09	0.23	0.53	31	0.04	0.027
REP 1267974	QC	0.27	37.56	20.01	90.9	114	28.9	14.3	320	4.04	3.7	0.4	2.5	4.0	8.4	0.06	0.22	0.45	31	0.04	0.026
617732	Soil	0.31	61.70	31.25	127.5	69	43.4	13.2	419	3.24	4.2	3.0	2.7	4.5	20.0	0.14	0.33	0.35	21	0.49	0.078
REP 617732	QC	0.34	61.09	31.51	129.7	64	42.9	13.0	403	3.27	4.4	3.0	3.0	4.8	20.0	0.14	0.32	0.35	22	0.53	0.080
Reference Materials																					
STD DS8	Standard	12.38	104.2	127.3	324.7	1822	36.3	7.0	607	2.52	26.8	2.7	114.9	6.5	69.8	2.48	6.03	6.23	42	0.72	0.087
STD DS8	Standard	12.53	106.0	121.3	318.2	1816	36.7	7.4	609	2.48	24.5	2.5	130.2	5.9	62.6	2.33	5.24	5.78	41	0.70	0.079
STD DS8	Standard	12.52	107.5	122.6	317.3	1795	37.7	7.2	621	2.55	25.2	2.7	113.6	6.8	63.0	2.28	4.90	6.52	42	0.71	0.083
STD DS8	Standard	11.26	103.1	122.3	307.3	1721	36.2	7.1	564	2.34	23.2	2.6	112.6	6.3	56.9	2.16	4.36	6.24	40	0.65	0.076
STD DS8	Standard	13.21	104.2	124.9	317.0	1874	36.0	7.4	651	2.53	25.5	2.7	111.7	6.6	67.1	2.36	5.53	6.34	42	0.73	0.084
STD DS8	Standard	12.75	106.9	124.2	320.8	1818	36.2	7.3	631	2.54	25.1	2.7	115.6	6.6	63.7	2.34	5.50	6.03	42	0.73	0.081
STD DS8	Standard	10.45	94.90	113.1	285.5	1680	34.4	6.7	555	2.28	22.1	2.3	104.7	5.5	55.2	2.13	4.44	5.79	38	0.64	0.073
STD DS8	Standard	13.28	113.2	126.1	326.3	1753	38.5	7.9	618	2.53	24.4	2.9	112.3	7.5	64.1	2.34	5.42	6.39	42	0.70	0.082
STD DS8	Standard	12.37	107.6	129.0	305.8	1831	37.7	7.5	616	2.55	24.0	2.8	113.8	7.1	60.2	2.30	4.83	5.99	42	0.69	0.080
STD DS8	Standard	12.07	104.9	124.9	316.7	1805	38.7	7.7	615	2.48	25.7	2.7	114.7	6.4	57.5	2.22	5.23	6.58	41	0.68	0.083
STD DS8	Standard	13.66	109.7	120.2	310.7	1725	39.4	7.0	627	2.45	23.5	2.9	117.9	6.9	72.9	2.12	5.77	6.34	41	0.75	0.078
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001353.2

		1F15 La ppm	1F15 Cr ppm	1F15 Mg %	1F15 Ba ppm	1F15 Ti ppm	1F15 B ppm	1F15 Al %	1F15 Na %	1F15 K %	1F15 W ppm	1F15 Sc ppm	1F15 Ti ppm	1F15 S %	1F15 Hg ppb	1F15 Se ppm	1F15 Te ppm	1F15 Ga ppm	1F15 Cs ppm	1F15 Ge ppm	1F15 Hf ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1267966	Soil	9.8	31.8	0.49	198.2	0.007	<1	1.97	<0.001	0.10	<0.1	3.5	0.10	<0.02	25	0.2	<0.02	5.8	1.20	<0.1	0.03
REP 1267966	QC	9.8	32.8	0.55	199.4	0.007	1	2.03	0.001	0.10	<0.1	3.7	0.10	<0.02	27	0.2	0.02	6.1	1.27	<0.1	0.04
1267974	Soil	4.9	41.6	0.62	186.5	0.003	3	2.34	0.005	0.17	<0.1	3.2	0.18	<0.02	25	0.2	<0.02	9.0	3.05	<0.1	0.03
REP 1267974	QC	4.9	40.7	0.62	182.0	0.002	2	2.35	0.004	0.17	<0.1	3.2	0.18	<0.02	19	<0.1	<0.02	8.8	2.79	<0.1	0.04
617732	Soil	15.4	40.2	1.20	82.5	0.005	3	1.87	0.005	0.10	<0.1	5.8	0.10	0.04	28	0.4	<0.02	5.6	2.67	<0.1	0.17
REP 617732	QC	16.5	40.6	1.23	87.0	0.005	4	1.93	0.005	0.12	<0.1	6.1	0.10	0.04	28	0.3	0.03	5.7	2.87	<0.1	0.21
Reference Materials																					
STD DS8	Standard	15.1	123.5	0.61	273.1	0.100	3	0.96	0.100	0.43	2.8	2.2	5.64	0.16	201	5.2	5.07	4.8	2.46	<0.1	0.06
STD DS8	Standard	13.5	121.5	0.62	265.4	0.102	3	0.93	0.100	0.43	3.2	2.3	5.62	0.17	201	5.5	5.22	4.8	2.54	0.2	0.08
STD DS8	Standard	14.3	123.4	0.62	267.1	0.108	3	0.96	0.103	0.43	3.0	2.4	5.62	0.16	192	5.4	5.20	4.7	2.51	0.1	0.08
STD DS8	Standard	12.5	113.6	0.57	239.1	0.094	2	0.83	0.079	0.39	2.8	2.2	5.45	0.16	189	5.0	4.75	4.4	2.39	<0.1	0.08
STD DS8	Standard	15.9	121.3	0.62	280.1	0.111	4	0.94	0.093	0.42	2.9	2.3	5.53	0.17	222	5.6	5.20	4.9	2.52	0.1	0.10
STD DS8	Standard	15.4	123.8	0.62	276.9	0.108	2	0.93	0.085	0.43	3.0	2.1	5.45	0.17	200	5.2	4.96	4.9	2.43	<0.1	0.07
STD DS8	Standard	11.3	112.3	0.58	237.7	0.089	3	0.82	0.075	0.39	2.7	1.9	5.17	0.15	191	5.0	4.69	4.3	2.27	<0.1	0.06
STD DS8	Standard	16.0	124.8	0.62	272.9	0.111	2	0.90	0.086	0.41	3.2	2.2	5.62	0.16	211	5.3	5.00	4.8	2.53	<0.1	0.09
STD DS8	Standard	13.8	119.3	0.61	264.8	0.102	3	0.90	0.084	0.42	2.9	2.1	5.76	0.17	185	5.2	5.05	4.8	2.55	<0.1	0.08
STD DS8	Standard	12.5	118.3	0.60	259.6	0.100	3	0.87	0.078	0.41	3.0	2.1	5.65	0.17	230	5.1	5.04	4.7	2.51	0.1	0.08
STD DS8	Standard	17.6	124.2	0.62	274.2	0.126	2	1.03	0.122	0.45	3.2	2.6	5.34	0.15	173	5.1	5.01	4.7	2.43	<0.1	0.09
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 2 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001353.2

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
1267966	Soil	0.55	13.8	0.7	<0.05	1.2	6.03	22.0	0.03	<1	0.8	30.9	<10	<2
REP 1267966	QC	0.54	14.2	0.8	<0.05	1.2	6.16	21.7	0.03	<1	0.9	31.0	<10	<2
1267974	Soil	0.29	24.2	3.0	<0.05	1.5	3.91	13.7	0.05	<1	1.7	54.5	<10	<2
REP 1267974	QC	0.25	23.6	5.1	<0.05	1.5	3.82	13.4	0.04	<1	1.8	56.5	<10	<2
617732	Soil	0.23	9.6	0.6	<0.05	5.9	22.94	26.7	0.04	<1	1.2	50.2	<10	<2
REP 617732	QC	0.23	10.6	0.7	<0.05	6.2	22.43	28.9	0.04	<1	1.0	51.8	<10	<2
Reference Materials														
STD DS8	Standard	1.22	39.6	7.1	<0.05	1.6	5.75	28.4	2.14	57	4.6	30.4	106	352
STD DS8	Standard	1.24	39.5	6.8	<0.05	1.5	5.54	25.7	2.25	51	5.2	28.0	105	334
STD DS8	Standard	1.38	39.0	6.5	<0.05	1.9	5.85	26.4	2.24	52	5.3	29.0	117	348
STD DS8	Standard	1.21	36.7	6.2	<0.05	1.7	5.02	23.3	2.12	57	4.8	25.2	113	337
STD DS8	Standard	1.42	39.3	7.0	<0.05	2.0	6.28	30.1	2.22	56	4.7	31.5	119	357
STD DS8	Standard	1.25	37.9	6.6	<0.05	1.8	5.85	28.6	2.29	55	4.7	27.4	107	350
STD DS8	Standard	1.12	35.4	5.6	<0.05	1.5	4.80	21.5	2.00	51	4.8	25.3	104	319
STD DS8	Standard	1.28	39.9	6.7	<0.05	1.9	6.20	28.0	2.44	59	5.0	27.9	120	362
STD DS8	Standard	1.21	40.0	6.5	<0.05	1.9	5.50	25.5	2.30	56	5.0	28.4	119	354
STD DS8	Standard	1.15	38.7	6.5	<0.05	1.7	5.12	23.7	2.12	61	4.8	28.5	130	367
STD DS8	Standard	1.54	39.4	6.7	<0.05	2.1	6.70	31.6	2.08	54	5.2	26.2	119	330
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: December 16, 2011

Page: 3 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001353.2

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001353.2

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15		
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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Page: 3 of 3 **Part** 3

QUALITY CONTROL REPORT

WHI11001353.2

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10



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Acme Analytical Laboratories (Vancouver) Ltd.

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Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 29, 2011
Report Date: October 31, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001354.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-24
P.O. Number
Number of Samples: 321

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

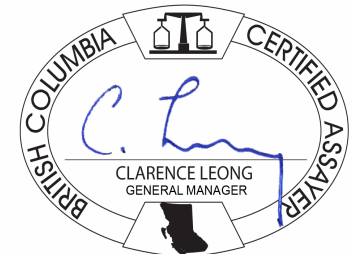
Table with 7 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, 1F05, RJSV, and 7TD.

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: David Clark
database backup
Simon Ridgway
Scott Turton



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
617733	Soil			0.23	33.33	17.44	98.0	36	44.6	12.2	243	3.15	2.0	1.7	3.0	2.9	43.6	0.14	0.16	0.42	18	1.52	0.071
617734	Soil			0.12	19.56	10.29	92.1	15	45.3	13.7	231	3.29	1.0	0.9	1.2	5.1	44.0	0.09	0.13	0.28	17	1.96	0.069
617735	Soil			0.19	50.84	21.73	98.5	34	42.7	16.9	312	2.96	11.8	3.4	1.2	4.8	41.4	0.16	0.25	0.39	22	1.38	0.077
617736	Soil			0.28	15.92	10.77	91.9	20	31.8	10.9	293	2.52	2.0	0.9	2.1	4.1	18.3	0.18	0.24	0.28	19	0.66	0.073
617737	Soil			0.32	41.80	33.64	111.7	45	33.1	12.2	543	2.81	2.8	1.2	6.8	3.6	25.1	0.21	0.22	0.35	23	0.84	0.089
617738	Soil			0.27	28.73	13.42	95.3	34	26.7	9.0	195	2.51	4.6	1.7	7.1	4.0	18.6	0.27	0.20	0.22	29	0.48	0.074
617042	Soil			0.31	35.92	13.38	92.6	35	27.0	10.2	347	2.25	1.6	2.2	1.4	2.9	55.5	0.26	0.15	0.18	28	2.05	0.066
617043	Soil			0.31	24.14	9.78	88.1	50	27.4	10.2	376	2.46	3.0	1.2	4.7	2.6	35.7	0.35	0.23	0.16	31	1.07	0.058
617044	Soil			0.26	31.01	12.49	78.8	40	25.4	10.4	334	2.34	1.7	1.0	2.6	5.4	107.9	0.24	0.10	0.14	27	4.96	0.058
617045	Soil			0.39	35.69	12.30	82.0	58	26.8	10.9	306	2.38	5.3	1.3	14.1	6.2	62.8	0.22	0.19	0.28	30	3.71	0.064
617046	Soil			0.44	36.55	15.45	98.9	63	28.7	11.1	290	2.60	5.6	1.3	7.1	5.1	34.4	0.29	0.23	0.21	33	1.83	0.067
617047	Soil			0.55	38.28	25.66	115.1	105	26.3	9.9	304	2.42	6.3	1.7	21.8	4.1	46.6	0.40	0.33	0.19	31	2.21	0.074
617048	Soil			1.07	30.96	58.64	181.0	179	23.5	9.2	441	2.49	9.1	2.5	5.6	2.2	76.0	0.56	0.77	0.19	24	3.05	0.090
617049	Soil			0.86	18.37	26.85	150.3	246	15.5	5.6	222	2.32	8.2	2.9	2.1	2.3	51.1	0.50	0.39	0.24	22	1.36	0.162
617050	Soil			1.43	8.75	1007	2478	150	10.1	4.4	1441	2.05	9.8	1.9	3.6	0.8	43.9	5.56	0.70	0.18	18	11.31	0.107
617739	Soil			2.64	26.07	166.3	554.1	58	27.4	12.6	1905	3.87	13.1	2.6	3.4	4.0	14.1	0.55	0.53	0.30	27	0.30	0.131
617740	Soil			0.74	17.07	25.41	107.0	47	19.9	8.8	366	2.89	6.1	1.1	0.4	3.4	13.7	0.12	0.31	0.27	37	0.28	0.029
617741	Soil			1.16	18.05	49.54	176.2	72	25.9	10.3	556	3.21	10.8	2.8	1.5	3.3	16.3	0.19	0.53	0.29	36	0.25	0.058
617742	Soil			0.99	23.00	50.13	227.9	80	21.4	11.7	812	2.97	7.8	11.5	2.0	1.7	41.7	0.47	0.41	0.29	27	0.93	0.086
617743	Soil			0.96	11.52	21.11	139.0	78	19.8	7.5	335	2.91	9.2	2.4	1.7	1.1	18.1	0.25	0.43	0.28	42	0.44	0.114
617744	Soil			1.01	24.53	96.38	172.3	146	23.7	10.4	243	3.40	17.6	0.9	<0.2	1.4	82.6	0.28	0.69	0.42	14	0.27	0.166
617745	Soil			0.72	25.86	49.15	171.5	72	29.2	13.7	392	3.01	12.8	1.0	0.6	5.3	52.8	0.46	0.69	0.30	13	0.69	0.123
617746	Soil			0.79	25.82	43.77	91.6	111	21.2	9.7	444	3.17	14.2	0.8	<0.2	4.6	28.3	0.26	0.46	0.41	16	0.55	0.089
617747	Soil			0.70	32.99	60.27	269.5	219	38.6	17.5	790	3.96	15.3	1.3	1.2	4.6	30.1	0.74	0.50	0.32	19	0.54	0.157
617748	Soil			0.79	25.34	52.12	201.0	141	24.9	10.2	501	3.13	11.6	1.0	0.5	3.1	41.3	0.50	0.40	0.29	13	1.52	0.167
617749	Soil			0.60	27.41	61.32	243.6	185	26.6	11.8	489	3.25	14.4	1.0	0.3	3.8	50.7	0.49	0.65	0.35	11	1.12	0.140
617750	Soil			0.56	24.74	51.41	193.7	145	24.8	11.7	345	3.01	12.3	0.8	0.5	3.6	43.1	0.36	0.48	0.33	11	1.06	0.130
1266501	Soil			1.16	28.62	60.33	463.3	160	29.4	12.6	647	3.78	8.5	1.2	1.0	3.1	19.6	0.61	0.49	0.30	27	1.07	0.063
1266502	Soil			0.89	17.21	27.16	127.4	185	21.6	10.7	485	3.48	10.1	1.8	1.5	1.4	28.8	0.27	0.53	0.28	48	0.43	0.104
1266503	Soil			0.99	14.40	29.32	129.7	120	19.6	15.6	1801	3.07	9.0	1.4	1.3	1.5	69.4	0.54	0.47	0.28	48	0.96	0.098



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	Analyte	Unit	MDL	1F15 La	1F15 Cr	1F15 Mg	1F15 Ba	1F15 Ti	1F15 B	1F15 Al	1F15 Na	1F15 K	1F15 W	1F15 Sc	1F15 Ti	1F15 S	1F15 Hg	1F15 Se	1F15 Te	1F15 Ga	1F15 Cs	1F15 Ge	1F15 Hf
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
617733	Soil			12.3	41.2	1.27	104.7	0.003	5	2.04	<0.001	0.09	<0.1	3.6	0.07	0.06	21	0.2	0.02	5.7	0.75	<0.1	0.13
617734	Soil			13.3	40.2	1.41	72.5	0.003	4	2.01	<0.001	0.12	<0.1	4.0	0.07	0.03	12	0.1	<0.02	5.8	1.18	<0.1	0.10
617735	Soil			12.5	41.8	1.30	73.7	0.004	6	2.12	<0.001	0.12	<0.1	3.6	0.07	0.05	40	0.1	<0.02	6.6	0.83	<0.1	0.23
617736	Soil			31.9	35.0	1.51	240.9	0.008	4	1.65	0.003	0.10	<0.1	5.4	0.07	0.04	25	0.2	<0.02	5.0	1.26	0.1	0.11
617737	Soil			22.2	41.3	1.65	476.9	0.005	4	2.01	0.003	0.10	<0.1	5.0	0.09	0.05	15	0.2	0.02	6.3	1.40	<0.1	0.17
617738	Soil			29.0	43.7	2.04	104.2	0.007	4	1.95	<0.001	0.10	<0.1	4.2	0.08	0.04	16	0.5	<0.02	6.4	0.84	<0.1	0.12
617042	Soil			24.8	44.1	2.04	80.4	0.004	3	2.00	0.001	0.11	<0.1	3.2	0.08	0.05	34	0.4	<0.02	6.3	0.68	<0.1	0.08
617043	Soil			26.7	43.8	2.13	83.6	0.008	6	1.91	0.002	0.13	<0.1	3.1	0.09	0.05	26	0.5	<0.02	6.3	1.15	<0.1	0.12
617044	Soil			23.9	36.7	2.63	63.4	0.004	4	1.74	0.003	0.12	<0.1	4.1	0.07	0.02	21	0.7	0.02	5.3	0.72	<0.1	0.14
617045	Soil			26.7	38.8	2.68	51.5	0.007	5	1.78	0.003	0.18	<0.1	4.2	0.12	<0.02	29	0.5	<0.02	5.5	1.83	<0.1	0.10
617046	Soil			28.3	42.6	2.57	64.3	0.007	7	1.95	0.002	0.22	<0.1	4.2	0.17	0.03	32	0.5	0.03	6.2	1.45	<0.1	0.14
617047	Soil			25.4	36.8	2.27	56.3	0.006	7	1.73	0.003	0.21	<0.1	3.7	0.15	0.04	28	0.6	<0.02	5.4	0.83	<0.1	0.11
617048	Soil			21.8	25.3	1.68	68.2	0.004	5	1.25	0.003	0.14	<0.1	2.7	0.16	0.05	76	0.8	<0.02	3.8	0.71	<0.1	0.12
617049	Soil			15.5	14.9	0.30	75.3	0.003	5	0.87	0.002	0.09	<0.1	2.7	0.16	0.10	84	0.6	0.03	2.4	0.79	<0.1	0.12
617050	Soil			6.5	10.5	6.00	45.1	0.004	6	0.60	0.008	0.07	<0.1	1.2	1.08	<0.02	145	0.4	0.03	1.6	1.08	<0.1	0.05
617739	Soil			16.5	27.8	0.46	148.1	0.003	4	1.95	<0.001	0.15	<0.1	3.4	0.49	0.04	58	0.4	0.03	4.6	1.22	<0.1	0.05
617740	Soil			15.0	33.7	0.95	131.9	0.007	3	1.75	<0.001	0.13	<0.1	2.0	0.17	<0.02	23	0.3	0.04	6.3	1.29	<0.1	0.03
617741	Soil			17.5	29.9	0.60	166.5	0.006	3	1.70	0.001	0.11	<0.1	3.1	0.20	0.02	43	0.3	<0.02	4.9	0.96	<0.1	0.05
617742	Soil			8.8	24.2	0.50	212.9	0.003	4	1.53	0.001	0.11	<0.1	2.4	0.22	0.07	46	0.7	<0.02	4.4	0.86	<0.1	0.08
617743	Soil			15.3	28.6	0.59	165.5	0.010	2	1.75	0.002	0.08	<0.1	1.8	0.16	0.06	22	0.4	0.02	5.3	1.61	<0.1	<0.02
617744	Soil			6.8	12.5	0.13	87.7	0.002	4	0.62	0.008	0.21	<0.1	0.8	0.23	0.28	76	0.6	0.04	2.4	3.86	<0.1	0.03
617745	Soil			7.7	14.9	0.34	74.7	0.003	4	0.76	0.004	0.14	<0.1	2.6	0.13	0.11	49	0.4	0.02	2.1	3.58	<0.1	0.05
617746	Soil			8.0	15.4	0.33	116.8	0.004	4	0.86	0.019	0.14	<0.1	3.0	0.13	0.18	74	0.4	0.07	2.7	1.42	<0.1	0.08
617747	Soil			12.8	17.8	0.34	113.1	0.002	3	1.08	0.003	0.12	<0.1	3.9	0.16	0.06	164	0.5	<0.02	3.0	2.21	<0.1	0.11
617748	Soil			10.0	14.7	0.47	89.2	0.002	5	0.73	0.004	0.13	<0.1	3.4	0.12	0.10	100	0.5	0.03	2.1	2.33	<0.1	0.09
617749	Soil			7.7	12.3	0.25	81.7	0.002	7	0.77	0.006	0.14	<0.1	3.4	0.15	0.12	178	0.6	0.02	2.1	2.48	<0.1	0.16
617750	Soil			7.0	10.9	0.31	70.6	0.001	5	0.71	0.004	0.13	<0.1	2.8	0.11	0.10	101	0.5	0.04	2.1	1.72	<0.1	0.09
1266501	Soil			8.9	18.3	0.65	98.3	0.004	3	1.13	0.004	0.08	<0.1	3.5	0.35	0.04	68	0.4	0.04	3.1	1.79	<0.1	0.07
1266502	Soil			14.5	28.7	0.41	206.1	0.009	2	1.99	0.003	0.06	<0.1	2.7	0.20	0.05	72	0.4	0.04	5.3	1.59	<0.1	0.03
1266503	Soil			10.0	26.3	0.40	208.8	0.010	2	1.66	0.005	0.06	<0.1	2.2	0.22	0.05	49	0.5	0.03	5.6	1.71	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 2 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
617733	Soil	0.22	6.6	0.6	<0.05	4.0	15.37	23.5	0.04	<1	1.2	49.7	<10	<2
617734	Soil	0.15	7.6	0.5	<0.05	4.4	14.09	26.9	0.03	<1	1.2	45.4	<10	<2
617735	Soil	0.30	6.5	0.4	<0.05	7.0	11.41	28.9	0.04	<1	1.3	53.2	<10	<2
617736	Soil	0.29	7.2	0.5	<0.05	4.0	22.80	57.6	0.04	<1	1.3	37.5	<10	<2
617737	Soil	0.23	9.1	0.3	<0.05	4.7	20.20	45.9	0.03	<1	1.4	43.9	<10	<2
617738	Soil	0.32	9.7	0.4	<0.05	5.0	16.23	52.8	0.03	<1	1.3	47.3	<10	<2
617042	Soil	0.21	8.6	0.8	<0.05	3.4	12.65	47.2	0.03	<1	1.0	39.6	<10	<2
617043	Soil	0.25	10.8	0.5	<0.05	3.2	12.94	54.8	0.03	<1	1.1	44.2	<10	<2
617044	Soil	0.10	8.2	0.6	<0.05	5.4	11.16	47.4	0.03	2	1.0	36.2	<10	<2
617045	Soil	0.12	13.2	1.0	<0.05	4.7	11.93	52.3	0.03	<1	1.0	39.5	<10	<2
617046	Soil	0.20	14.1	1.0	<0.05	4.5	13.19	55.4	0.03	<1	1.2	47.0	<10	<2
617047	Soil	0.21	11.7	1.1	<0.05	4.2	12.50	49.4	0.04	<1	1.0	39.8	<10	<2
617048	Soil	0.17	8.4	1.6	<0.05	3.2	12.93	43.1	0.04	<1	0.9	24.3	<10	<2
617049	Soil	0.23	9.3	0.7	<0.05	3.8	10.76	26.0	0.03	1	1.0	8.1	<10	<2
617050	Soil	0.14	6.2	2.0	<0.05	0.9	6.70	12.8	0.04	<1	0.5	4.1	<10	<2
617739	Soil	0.31	14.3	0.5	<0.05	1.6	12.77	56.6	0.04	<1	1.5	28.9	<10	<2
617740	Soil	0.44	16.7	0.7	<0.05	1.1	3.62	37.0	0.04	<1	0.7	34.0	<10	<2
617741	Soil	0.46	11.2	0.7	<0.05	1.6	10.61	44.1	0.04	1	1.0	22.5	<10	<2
617742	Soil	0.40	11.0	0.9	<0.05	1.8	7.52	22.8	0.03	<1	1.0	20.4	<10	<2
617743	Soil	0.56	12.6	0.6	<0.05	0.5	8.89	37.2	0.04	<1	0.9	24.0	<10	<2
617744	Soil	0.04	10.7	2.1	<0.05	0.2	7.33	21.1	0.04	<1	0.7	6.3	<10	<2
617745	Soil	0.12	7.6	2.5	<0.05	2.0	10.38	23.8	0.04	<1	1.0	13.7	<10	<2
617746	Soil	0.18	7.8	0.4	<0.05	2.8	10.58	20.8	0.03	<1	0.8	11.7	<10	<2
617747	Soil	0.12	8.4	0.5	<0.05	3.7	18.80	29.8	0.04	2	1.1	16.0	<10	<2
617748	Soil	0.13	7.9	1.6	<0.05	3.6	15.76	24.3	0.03	<1	0.9	10.6	<10	<2
617749	Soil	0.13	8.4	0.4	<0.05	4.7	13.35	18.2	0.04	<1	0.9	10.9	<10	<2
617750	Soil	0.10	7.2	0.6	<0.05	4.1	12.24	17.7	0.03	<1	0.8	9.6	<10	<2
1266501	Soil	0.30	10.7	0.9	<0.05	1.8	12.33	21.2	0.03	<1	1.1	22.5	<10	<2
1266502	Soil	0.58	10.2	0.5	<0.05	0.7	11.64	35.9	0.03	<1	1.0	18.8	<10	<2
1266503	Soil	0.59	15.3	1.1	<0.05	0.7	5.22	24.5	0.04	<1	0.5	22.6	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1266504	Soil			0.85	32.68	29.60	93.3	161	31.0	13.4	780	3.21	10.2	4.2	1.9	1.9	87.3	0.24	0.70	0.34	41	1.03	0.094
1266505	Soil			0.49	24.78	31.96	317.8	110	17.1	10.3	199	3.57	5.6	1.7	0.6	6.3	59.8	0.64	0.40	0.41	13	0.56	0.044
1266506	Soil			0.69	14.32	17.44	59.7	67	19.9	10.3	372	2.98	8.1	1.1	0.8	4.3	50.5	0.16	0.34	0.26	51	0.59	0.023
1266507	Soil			0.67	24.84	17.70	61.1	144	18.7	10.5	343	2.55	7.7	2.6	8.0	3.8	68.7	0.22	0.38	0.22	20	1.19	0.033
1266508	Soil			0.43	33.65	12.52	61.2	88	25.1	9.8	259	2.50	5.2	3.3	7.0	3.0	70.1	0.20	0.25	0.20	41	1.69	0.053
1266509	Soil			0.39	42.53	18.48	75.6	44	27.5	11.0	275	2.73	6.4	3.4	2.1	5.8	93.2	0.15	0.28	0.21	46	1.03	0.026
1266510	Soil			0.52	23.57	17.48	96.3	32	25.4	10.3	372	2.82	6.0	2.6	5.9	5.8	33.8	0.38	0.44	0.29	43	0.76	0.032
1266511	Soil			0.36	7.01	17.38	149.4	28	32.4	12.7	421	4.16	1.5	0.3	3.8	3.0	7.4	0.19	0.20	0.32	31	0.08	0.044
1266512	Soil			1.19	15.02	22.62	108.9	134	20.6	15.7	572	5.52	16.0	0.5	1.6	3.1	6.9	0.17	0.81	0.40	54	0.04	0.081
1266553	Soil			1.59	40.71	14.89	47.5	95	11.0	4.9	415	2.29	12.2	1.3	5.5	0.3	8.9	0.08	0.71	0.38	49	0.05	0.124
1266554	Soil			1.50	16.26	20.12	66.7	23	18.9	14.5	1762	4.23	14.7	0.8	1.6	1.6	6.0	0.11	0.69	0.41	50	0.03	0.049
1266555	Soil			1.41	17.14	23.66	62.4	41	14.3	10.4	1235	3.69	13.4	0.8	1.1	1.9	5.2	0.13	0.62	0.60	50	0.03	0.056
1266556	Soil			1.35	13.55	25.12	58.4	25	15.3	8.4	386	4.10	18.5	0.9	1.4	0.9	6.2	0.10	0.77	0.57	53	0.04	0.050
1266557	Soil			1.36	16.62	22.16	89.3	25	18.2	12.0	941	3.72	11.5	0.8	1.7	2.1	8.5	0.18	0.70	0.40	55	0.06	0.048
1266558	Soil			1.41	16.89	31.65	56.7	63	11.6	12.0	1786	3.07	10.1	0.8	1.3	0.6	9.5	0.10	0.73	0.45	59	0.06	0.066
1266559	Soil			1.69	15.65	19.03	67.1	31	13.5	13.8	1398	4.04	12.3	0.7	1.0	2.9	7.5	0.10	0.78	0.43	57	0.04	0.051
1266560	Soil			1.04	40.47	83.74	84.3	63	16.2	20.5	1782	4.21	26.7	0.7	0.7	3.2	8.9	0.16	0.47	0.58	35	0.03	0.077
1266561	Soil			1.43	13.06	42.05	123.7	43	14.0	19.1	2667	4.96	10.1	0.7	0.8	3.8	5.6	0.21	0.69	0.44	52	0.03	0.060
1266562	Soil			0.69	33.06	38.86	80.8	45	23.5	21.9	2309	3.96	9.5	1.2	1.9	2.6	6.4	0.14	0.54	0.45	33	0.03	0.066
1266563	Soil			1.16	35.54	38.00	118.1	50	30.5	15.5	1585	3.57	14.8	1.1	2.1	4.6	10.6	0.29	0.84	0.37	41	0.10	0.066
1266564	Soil			0.72	17.71	16.31	51.2	56	8.9	16.3	1566	3.33	4.1	0.7	1.1	2.4	5.5	0.08	0.33	0.39	36	0.02	0.051
1266565	Soil			0.98	52.19	30.38	78.3	110	15.3	7.2	385	2.76	9.4	1.4	1.0	1.6	9.7	0.11	0.45	0.37	40	0.10	0.073
1266566	Soil			1.08	18.36	30.93	92.7	83	20.4	9.4	528	3.37	10.8	0.9	0.6	4.1	9.6	0.14	0.66	0.33	49	0.08	0.045
1266567	Soil			1.07	12.09	32.95	91.8	26	15.3	11.6	792	4.69	9.4	0.7	1.8	3.3	4.6	0.12	0.65	0.41	47	0.02	0.045
1266568	Soil			0.74	17.18	48.20	111.3	85	14.1	12.6	2084	3.74	15.6	0.6	0.4	2.6	5.9	0.29	0.37	0.40	33	0.04	0.054
1266569	Soil			0.95	23.95	134.0	528.4	128	19.6	9.0	1111	3.55	11.6	1.3	0.7	1.9	20.9	1.33	0.57	0.28	37	1.70	0.104
1266570	Soil			0.94	21.72	114.5	398.3	133	22.9	11.1	1295	3.37	10.6	1.1	3.1	2.9	32.6	0.94	0.63	0.25	33	3.27	0.090
1266571	Soil			0.90	14.46	87.02	134.7	53	14.9	7.2	519	3.04	19.5	0.8	<0.2	3.0	20.4	0.20	0.43	0.36	16	0.43	0.034
1266572	Soil			0.36	3.47	54.85	194.1	26	4.2	2.9	975	1.42	4.5	0.5	<0.2	1.0	51.1	0.55	0.17	0.09	11	16.27	0.084
1266573	Soil			0.75	9.31	48.39	863.0	114	14.2	6.6	2262	3.79	8.8	1.5	1.0	1.7	31.2	1.45	0.49	0.17	36	7.36	0.122



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1266504	Soil	12.8	29.1	0.46	171.2	0.010	2	1.66	0.005	0.07	<0.1	3.5	0.18	0.07	122	1.0	0.03	4.9	2.31	<0.1	0.04
1266505	Soil	9.2	8.1	0.04	43.7	<0.001	4	0.42	0.002	0.06	<0.1	4.3	0.34	0.03	61	0.5	0.05	1.1	1.35	<0.1	0.02
1266506	Soil	12.9	31.3	0.74	137.0	0.011	2	1.85	0.003	0.07	<0.1	2.4	0.14	<0.02	18	0.2	0.03	6.5	1.24	<0.1	0.06
1266507	Soil	23.7	16.4	0.35	111.2	0.003	6	0.77	0.004	0.13	<0.1	4.5	0.58	0.04	123	0.8	<0.02	2.2	1.67	<0.1	0.11
1266508	Soil	25.0	40.7	1.84	112.3	0.005	8	2.16	0.003	0.13	<0.1	4.0	0.16	0.06	62	0.5	<0.02	6.7	1.23	<0.1	0.13
1266509	Soil	26.8	50.9	2.30	327.5	0.008	7	2.51	0.003	0.13	<0.1	5.2	0.17	0.03	36	1.3	<0.02	7.9	1.22	<0.1	0.17
1266510	Soil	23.9	50.6	1.90	132.4	0.004	5	2.41	0.003	0.12	<0.1	5.9	0.15	<0.02	34	0.3	0.03	6.8	1.15	<0.1	0.10
1266511	Soil	3.7	40.2	0.77	149.6	<0.001	2	2.88	0.001	0.10	<0.1	2.1	0.11	<0.02	16	<0.1	0.05	7.4	2.02	<0.1	0.05
1266512	Soil	7.6	36.9	0.55	83.7	0.004	2	2.25	0.002	0.08	0.1	2.1	0.13	0.02	38	0.4	0.07	7.4	4.27	<0.1	0.04
1266553	Soil	10.6	24.9	0.24	93.5	0.006	2	1.18	0.004	0.07	0.1	0.4	0.15	0.07	28	0.3	0.06	5.6	2.19	<0.1	<0.02
1266554	Soil	7.0	33.8	0.40	55.2	0.015	2	1.62	0.002	0.07	0.2	2.0	0.09	0.02	18	0.3	0.05	6.2	3.35	<0.1	<0.02
1266555	Soil	7.9	28.7	0.26	85.7	0.010	2	1.49	0.002	0.08	0.2	2.1	0.12	0.03	32	0.2	0.02	6.9	2.49	<0.1	<0.02
1266556	Soil	7.4	32.1	0.25	85.5	0.012	2	1.34	0.004	0.08	0.2	1.4	0.17	0.03	27	0.3	0.06	7.3	2.62	<0.1	<0.02
1266557	Soil	10.3	34.2	0.41	128.0	0.012	2	2.05	0.002	0.08	0.2	2.3	0.16	0.02	36	0.3	0.04	6.1	1.90	<0.1	<0.02
1266558	Soil	10.2	25.1	0.20	271.6	0.016	2	1.26	0.003	0.07	0.1	1.6	0.17	0.06	23	0.2	0.05	7.4	3.43	<0.1	<0.02
1266559	Soil	9.5	34.9	0.30	86.5	0.015	2	1.62	0.003	0.09	0.2	2.2	0.14	0.03	35	0.4	0.05	7.4	2.59	<0.1	<0.02
1266560	Soil	5.9	29.5	0.29	68.6	0.004	1	1.68	0.006	0.12	0.2	2.7	0.13	0.04	58	0.3	0.05	7.6	4.21	<0.1	0.03
1266561	Soil	7.3	33.9	0.19	104.5	0.013	1	1.91	0.003	0.11	0.1	2.7	0.15	0.03	46	0.5	0.07	8.5	2.57	<0.1	<0.02
1266562	Soil	4.3	31.0	0.34	102.0	0.006	2	1.57	0.006	0.14	0.2	3.0	0.13	0.03	24	0.2	0.06	5.5	3.39	<0.1	0.04
1266563	Soil	12.2	29.8	0.48	136.9	0.018	3	1.63	0.004	0.10	0.2	3.0	0.13	<0.02	29	0.4	0.03	4.5	2.83	<0.1	<0.02
1266564	Soil	4.5	24.6	0.11	73.6	0.004	<1	1.26	0.005	0.13	<0.1	2.1	0.11	0.03	31	0.2	0.03	7.5	3.08	<0.1	<0.02
1266565	Soil	8.4	25.8	0.27	168.5	0.004	1	1.56	0.004	0.10	0.2	2.6	0.19	0.03	20	0.2	0.05	5.4	4.26	<0.1	0.03
1266566	Soil	12.8	28.3	0.36	150.6	0.007	2	1.83	0.003	0.08	0.2	2.6	0.17	<0.02	20	0.2	0.05	5.6	2.05	<0.1	0.03
1266567	Soil	6.4	28.2	0.23	82.9	0.007	2	1.45	0.003	0.11	0.2	2.0	0.13	<0.02	28	0.3	0.05	6.5	2.94	<0.1	<0.02
1266568	Soil	5.5	29.1	0.20	76.4	0.002	<1	1.44	0.003	0.09	<0.1	2.1	0.11	0.03	41	0.3	0.02	7.2	2.04	<0.1	0.02
1266569	Soil	12.7	23.5	1.01	216.2	0.007	3	1.37	0.006	0.08	0.1	2.8	0.24	0.04	74	0.3	0.03	3.9	1.29	<0.1	0.04
1266570	Soil	10.9	21.5	1.86	168.8	0.007	4	1.27	0.007	0.10	0.1	3.1	0.26	0.04	50	0.3	<0.02	3.4	1.12	<0.1	0.05
1266571	Soil	6.1	11.5	0.31	133.6	0.003	3	0.76	0.004	0.16	<0.1	3.8	0.22	0.13	20	<0.1	0.04	2.1	1.58	<0.1	0.03
1266572	Soil	6.5	7.1	8.49	39.1	0.003	5	0.32	0.015	0.06	<0.1	1.3	0.19	<0.02	12	0.4	<0.02	0.8	0.56	<0.1	<0.02
1266573	Soil	11.2	19.1	4.05	123.1	0.009	3	1.14	0.009	0.05	0.1	2.1	0.44	<0.02	50	0.4	0.03	2.8	0.78	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 3 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
1266504	Soil	0.75	11.2	1.3	<0.05	1.4	14.80	33.1	0.04	<1	1.0	28.4	<10	<2
1266505	Soil	0.07	5.9	0.6	<0.05	1.2	15.98	43.1	0.08	<1	1.0	3.1	<10	<2
1266506	Soil	0.75	12.2	1.0	<0.05	2.1	3.35	28.6	0.05	<1	0.5	35.3	<10	<2
1266507	Soil	0.25	10.2	0.5	<0.05	6.3	12.81	46.6	0.04	<1	0.9	17.0	<10	<2
1266508	Soil	0.35	11.3	1.1	<0.05	5.1	13.55	47.1	0.04	<1	1.2	50.8	<10	<2
1266509	Soil	0.46	12.8	0.9	<0.05	6.2	15.04	55.1	0.04	1	1.3	87.2	<10	<2
1266510	Soil	0.46	9.7	1.9	<0.05	5.1	12.93	55.3	0.06	<1	1.3	65.4	<10	<2
1266511	Soil	0.26	17.3	1.0	<0.05	2.0	2.12	8.0	0.04	<1	1.0	73.2	<10	<2
1266512	Soil	1.13	15.9	2.0	<0.05	1.6	2.20	16.0	0.04	<1	0.7	50.9	<10	<2
1266553	Soil	0.32	11.5	1.1	<0.05	0.3	3.68	24.3	0.03	<1	0.8	8.1	<10	<2
1266554	Soil	0.57	11.4	3.4	<0.05	0.2	2.62	16.4	0.04	1	0.4	20.5	<10	<2
1266555	Soil	0.76	13.6	2.9	<0.05	0.5	3.07	18.4	0.03	<1	0.5	13.7	<10	<2
1266556	Soil	0.63	13.1	2.5	<0.05	0.2	3.21	16.0	0.02	<1	0.4	9.6	<10	<2
1266557	Soil	0.76	14.0	1.1	<0.05	0.4	3.46	23.7	0.03	<1	0.8	26.5	<10	<2
1266558	Soil	0.63	15.4	1.6	<0.05	0.1	3.88	23.3	0.03	<1	0.9	9.2	<10	<2
1266559	Soil	1.05	15.6	1.4	<0.05	0.3	2.80	20.0	0.04	<1	0.3	21.7	<10	<2
1266560	Soil	0.51	15.2	1.3	<0.05	1.0	4.04	15.3	0.04	<1	0.9	24.3	<10	<2
1266561	Soil	0.98	17.4	1.4	<0.05	0.7	3.44	17.5	0.05	<1	0.8	16.9	<10	<2
1266562	Soil	0.62	16.6	2.4	<0.05	0.8	5.86	13.0	0.05	<1	1.3	21.0	<10	<2
1266563	Soil	0.50	12.0	0.8	<0.05	0.5	6.15	30.4	0.04	<1	1.2	25.1	<10	<2
1266564	Soil	0.60	20.2	1.7	<0.05	0.6	3.94	10.0	0.03	<1	0.5	7.5	<10	<2
1266565	Soil	0.59	20.1	1.1	<0.05	0.5	6.98	19.2	0.03	<1	0.8	18.2	<10	<2
1266566	Soil	0.74	15.1	1.6	<0.05	0.9	5.21	30.5	0.03	1	0.6	22.2	<10	<2
1266567	Soil	0.86	16.7	1.7	<0.05	0.5	2.98	14.2	0.04	<1	0.5	14.8	<10	<2
1266568	Soil	0.45	14.0	1.6	<0.05	0.8	3.32	12.8	0.04	<1	0.7	25.1	<10	<2
1266569	Soil	0.52	11.2	0.6	<0.05	1.2	11.21	24.6	0.02	<1	0.9	18.9	<10	<2
1266570	Soil	0.45	8.5	0.9	<0.05	1.9	9.49	22.9	0.02	<1	0.6	18.0	<10	<2
1266571	Soil	0.15	9.9	0.8	<0.05	0.9	7.44	14.5	0.03	<1	0.7	9.7	<10	<2
1266572	Soil	0.10	3.5	0.4	<0.05	0.3	5.71	13.3	<0.02	<1	0.4	4.0	<10	<2
1266573	Soil	0.33	6.9	0.6	<0.05	0.7	9.43	21.5	0.02	<1	0.5	11.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1266574	Soil	1.61	13.89	117.0	2234	182	18.7	7.7	2153	5.82	11.1	1.6	1.1	2.0	26.8	3.28	0.61	0.19	34	4.81	0.106
1266575	Soil	1.00	11.58	64.33	960.0	132	15.1	6.8	1821	4.10	8.9	2.2	1.0	1.2	28.7	3.65	0.51	0.17	32	5.94	0.119
1266576	Soil	1.47	8.78	95.32	3881	58	14.8	7.2	5564	7.55	10.5	2.9	0.7	1.2	21.4	13.55	0.54	0.18	48	5.35	0.113
1266577	Soil	1.74	2.69	740.0	2238	62	2.2	1.0	2822	19.29	5.9	2.8	0.5	0.3	29.3	11.97	0.12	<0.02	6	10.68	0.055
1266578	Soil	1.49	22.98	129.2	2208	257	22.1	8.8	5058	9.95	13.9	4.6	1.4	2.8	20.1	4.95	0.45	0.26	31	1.87	0.160
1266579	Soil	0.53	32.33	22.74	105.0	126	21.6	10.3	430	2.52	10.2	5.1	6.6	1.8	77.0	0.41	0.44	0.23	32	2.17	0.072
1266580	Soil	0.33	40.17	14.50	96.0	99	19.7	7.0	294	2.00	5.0	8.2	6.4	1.2	79.8	0.28	0.33	0.20	29	2.51	0.090
1266581	Soil	0.48	28.58	20.73	94.2	107	26.8	10.9	442	3.25	7.9	1.6	7.6	4.1	33.9	0.24	0.45	0.24	36	0.67	0.054
1266582	Soil	0.72	46.53	27.10	122.9	59	29.9	11.7	381	2.92	9.7	1.6	19.0	4.4	60.7	0.40	0.34	0.24	24	2.06	0.079
1266583	Soil	0.33	39.53	13.58	103.0	89	25.0	9.5	324	2.42	3.3	2.6	4.3	3.0	49.6	0.21	0.33	0.23	29	1.18	0.074
1266584	Soil	0.90	21.63	47.68	151.5	245	17.7	8.2	771	2.46	24.9	1.6	1.1	0.5	134.8	0.62	4.27	0.22	30	7.25	0.193
1266585	Soil	0.99	13.77	42.81	135.0	674	10.2	5.2	2348	2.74	38.4	1.9	0.8	0.2	361.9	0.63	11.91	0.14	21	15.41	0.392
1266586	Soil	1.32	12.06	44.58	161.7	459	10.0	5.6	2958	3.03	20.7	1.0	3.7	0.3	52.2	1.69	7.36	0.12	21	11.47	0.124
1266587	Soil	1.29	18.70	46.48	139.3	240	18.8	10.0	569	2.58	11.7	1.0	1.6	0.7	215.8	0.84	0.76	0.26	39	5.30	0.145
1266588	Soil	1.17	17.68	68.02	324.5	338	18.1	11.4	2350	3.64	28.1	0.9	0.8	0.8	23.8	1.27	3.82	0.21	45	4.69	0.175
1266589	Soil	1.06	32.83	64.44	134.2	192	25.5	14.5	616	3.52	21.4	0.7	2.3	1.6	75.0	0.50	2.14	0.33	26	5.60	0.121
1266590	Soil	0.96	30.51	43.54	146.7	132	25.4	14.3	498	3.27	17.9	0.9	1.2	0.8	36.3	0.48	1.61	0.30	33	1.38	0.097
1266591	Soil	0.22	6.55	17.87	68.1	48	4.6	3.2	146	0.73	5.2	0.4	0.4	0.3	218.3	0.17	0.42	0.06	7	26.06	0.039
1266592	Soil	0.74	38.06	46.96	204.6	226	30.1	14.0	308	3.14	16.1	0.8	0.9	1.6	53.8	0.33	2.12	0.28	28	1.77	0.073
1266593	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1266594	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1266595	Soil	1.03	20.79	32.46	228.4	78	20.4	8.8	336	3.31	8.4	0.8	0.6	2.4	10.7	0.35	0.52	0.33	34	0.16	0.067
1266596	Soil	1.48	17.27	145.3	273.2	505	17.4	8.7	1871	3.65	37.4	1.3	<0.2	0.5	63.5	0.93	10.05	0.23	37	6.23	0.159
1266597	Soil	0.38	7.68	34.39	136.4	135	5.6	3.7	2350	2.34	11.8	0.7	<0.2	0.2	60.8	0.61	3.20	0.08	12	13.17	0.124
1266598	Soil	2.64	17.65	29.43	1050	270	36.2	7.9	>10000	23.99	338.4	6.3	0.8	0.9	69.9	1.39	16.34	0.17	18	1.95	0.164
1266599	Soil	1.10	24.29	78.81	336.2	602	25.7	11.9	1796	3.81	32.7	2.0	1.6	1.4	37.8	1.14	3.60	0.27	39	2.65	0.198
1266600	Soil	4.03	20.25	73.25	845.8	1518	21.1	11.8	3662	4.64	45.6	1.9	1.0	1.0	24.4	2.79	5.11	0.20	43	4.30	0.179
1266601	Soil	2.32	23.22	17.94	95.2	74	28.6	14.9	488	3.97	10.5	1.6	0.3	3.9	22.5	0.17	0.33	0.21	35	0.31	0.100
1266602	Soil	1.71	15.05	17.80	121.1	123	25.5	11.3	400	3.75	5.9	1.0	1.8	3.0	8.9	0.25	0.50	0.25	52	0.11	0.121
1266603	Soil	2.64	15.84	17.23	129.2	67	34.9	13.3	506	3.87	6.3	1.0	<0.2	2.9	36.9	0.38	0.48	0.24	66	0.79	0.111



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	Analyte	1F15 La	1F15 Cr	1F15 Mg	1F15 Ba	1F15 Ti	1F15 B	1F15 Al	1F15 Na	1F15 K	1F15 W	1F15 Sc	1F15 Ti	1F15 S	1F15 Hg	1F15 Se	1F15 Te	1F15 Ga	1F15 Cs	1F15 Ge	1F15 Hf
Unit	MDL	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1266574	Soil	10.8	21.0	2.60	153.5	0.008	3	1.16	0.010	0.05	0.1	2.5	1.29	0.05	109	0.6	0.03	3.1	0.68	<0.1	0.04
1266575	Soil	9.5	18.4	3.01	135.6	0.009	3	1.10	0.009	0.05	<0.1	1.8	1.12	0.06	58	0.6	0.03	2.8	0.68	<0.1	0.03
1266576	Soil	15.3	23.6	2.87	160.5	0.009	2	1.64	0.007	0.04	<0.1	2.4	1.19	0.06	104	0.5	0.04	3.7	0.97	<0.1	0.04
1266577	Soil	2.9	1.9	5.54	45.5	0.001	2	0.10	0.009	<0.01	<0.1	0.4	24.76	0.04	139	0.5	<0.02	0.3	0.11	<0.1	<0.02
1266578	Soil	13.1	20.9	0.70	151.2	0.004	4	1.24	0.006	0.06	<0.1	3.1	1.41	0.07	142	0.6	0.05	3.0	0.73	<0.1	0.07
1266579	Soil	23.9	29.3	1.29	124.1	0.005	6	1.55	0.006	0.12	<0.1	3.4	0.31	0.07	80	0.6	0.03	4.5	1.38	<0.1	0.10
1266580	Soil	20.0	31.4	1.46	110.6	0.004	6	1.55	0.007	0.10	<0.1	2.6	0.15	0.11	74	0.6	<0.02	4.7	1.14	<0.1	0.10
1266581	Soil	24.4	37.2	1.39	109.2	0.005	4	1.97	0.004	0.11	<0.1	5.7	0.13	0.03	42	0.3	0.05	5.4	0.98	<0.1	0.08
1266582	Soil	24.4	33.9	1.58	90.1	0.003	5	1.35	0.005	0.10	<0.1	6.9	0.13	0.05	53	0.8	0.03	4.0	2.02	<0.1	0.13
1266583	Soil	21.4	35.6	1.34	164.2	0.005	5	1.73	0.005	0.10	<0.1	5.1	0.09	0.05	48	0.7	<0.02	4.8	1.11	<0.1	0.13
1266584	Soil	13.2	17.8	1.31	160.2	0.007	5	0.99	0.010	0.07	0.2	1.2	0.60	0.10	144	0.7	0.08	2.3	0.99	<0.1	0.03
1266585	Soil	7.6	11.0	2.45	127.9	0.002	7	0.73	0.010	0.06	<0.1	0.6	0.35	0.08	268	0.5	0.03	1.5	0.73	<0.1	0.02
1266586	Soil	6.1	10.1	5.06	119.4	0.004	5	0.63	0.010	0.04	<0.1	0.7	0.22	0.07	141	0.6	0.03	1.5	0.46	<0.1	0.02
1266587	Soil	17.1	22.3	0.41	223.2	0.007	3	1.33	0.006	0.06	0.1	1.7	0.15	0.10	104	0.8	0.05	3.5	1.23	<0.1	0.03
1266588	Soil	11.1	20.0	2.32	145.7	0.007	4	1.33	0.007	0.06	<0.1	1.5	0.30	0.10	101	0.7	0.03	3.1	0.76	<0.1	0.07
1266589	Soil	12.7	15.8	0.85	78.9	0.006	6	0.99	0.005	0.08	0.1	3.3	0.22	0.06	84	0.7	0.09	2.2	1.66	<0.1	0.11
1266590	Soil	10.3	22.8	0.35	113.2	0.008	2	1.22	0.004	0.06	0.1	2.7	0.20	0.07	118	0.6	0.09	3.2	2.81	<0.1	0.05
1266591	Soil	2.2	4.2	0.30	27.2	0.003	<1	0.24	0.003	0.02	<0.1	0.6	0.06	<0.02	41	0.2	0.07	0.6	0.44	<0.1	0.03
1266592	Soil	11.1	22.2	0.33	122.3	0.007	2	1.15	0.004	0.10	0.1	4.4	0.41	0.05	389	0.8	0.08	3.2	2.89	<0.1	0.07
1266593	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1266594	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1266595	Soil	10.9	26.9	0.43	138.9	0.004	1	1.44	0.001	0.10	<0.1	2.8	0.12	0.03	46	0.3	0.04	4.6	1.20	<0.1	0.06
1266596	Soil	13.8	19.8	1.69	138.4	0.007	1	1.28	0.005	0.03	0.1	1.4	0.17	0.11	229	0.8	0.04	2.8	0.64	<0.1	0.03
1266597	Soil	4.4	6.0	6.14	96.7	0.004	2	0.35	0.007	0.02	<0.1	0.6	0.13	<0.02	157	0.7	0.05	0.7	0.32	<0.1	<0.02
1266598	Soil	9.0	18.3	0.60	811.9	0.010	2	0.86	<0.001	<0.01	0.3	2.6	0.88	0.11	202	1.7	0.09	3.6	0.69	0.2	0.05
1266599	Soil	14.4	24.8	1.06	147.4	0.009	2	1.41	0.008	0.06	0.1	3.1	0.30	0.09	385	1.0	0.08	3.8	0.81	<0.1	0.09
1266600	Soil	12.0	20.2	2.05	142.8	0.007	2	1.17	0.007	0.04	<0.1	2.5	0.32	0.13	714	0.9	0.03	2.7	0.44	<0.1	0.09
1266601	Soil	21.4	24.3	0.33	255.7	0.002	7	1.64	0.001	0.25	<0.1	4.7	0.22	0.04	29	0.5	<0.02	4.7	1.25	<0.1	0.20
1266602	Soil	14.5	29.3	0.28	140.6	0.003	5	1.97	<0.001	0.18	<0.1	3.3	0.26	0.06	35	0.4	0.05	5.8	1.79	<0.1	0.23
1266603	Soil	16.7	31.9	0.30	263.2	0.002	5	2.06	<0.001	0.22	<0.1	4.1	0.35	0.04	32	0.6	<0.02	6.1	1.74	<0.1	0.24



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 4 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
1266574	Soil	0.46	5.7	0.9	<0.05	1.1	9.43	21.2	<0.02	<1	0.6	11.1	15	<2
1266575	Soil	0.45	6.4	0.7	<0.05	1.1	8.60	18.9	<0.02	<1	0.5	10.0	<10	<2
1266576	Soil	0.42	6.4	0.8	<0.05	0.8	13.16	23.6	0.02	<1	0.8	9.4	22	<2
1266577	Soil	0.03	0.7	0.3	<0.05	0.3	3.42	4.7	<0.02	<1	0.3	0.6	<10	<2
1266578	Soil	0.29	7.8	0.5	<0.05	2.2	15.87	24.2	0.02	<1	0.9	8.9	<10	<2
1266579	Soil	0.35	9.3	1.7	<0.05	3.3	14.58	48.5	0.04	<1	1.0	47.5	<10	<2
1266580	Soil	0.30	9.7	1.1	<0.05	3.9	13.77	34.6	0.04	<1	0.8	48.9	<10	<2
1266581	Soil	0.34	10.6	0.5	<0.05	3.0	17.13	51.3	0.04	<1	1.1	50.8	<10	<2
1266582	Soil	0.28	7.6	2.6	<0.05	6.1	20.47	54.1	0.04	<1	0.9	46.5	<10	<2
1266583	Soil	0.39	9.7	0.5	<0.05	4.3	16.30	41.8	0.03	<1	1.0	49.5	<10	<2
1266584	Soil	0.38	6.6	0.9	<0.05	0.8	23.86	31.1	0.02	<1	0.7	8.8	<10	<2
1266585	Soil	0.11	6.6	1.9	<0.05	0.7	23.16	20.1	0.07	<1	0.7	4.6	<10	<2
1266586	Soil	0.13	4.1	0.6	<0.05	0.7	16.46	15.4	0.05	<1	0.4	4.2	<10	<2
1266587	Soil	0.72	6.8	2.3	<0.05	1.3	24.69	42.3	0.03	<1	0.8	9.2	<10	<2
1266588	Soil	0.31	5.7	0.8	<0.05	1.6	18.54	25.5	0.03	<1	0.8	8.7	<10	<2
1266589	Soil	0.23	5.0	1.4	<0.05	2.9	17.88	24.8	0.05	<1	0.9	9.3	<10	<2
1266590	Soil	0.52	8.6	0.6	<0.05	1.1	10.40	20.8	0.04	<1	0.9	12.2	<10	<2
1266591	Soil	0.08	1.7	0.2	<0.05	0.7	3.10	4.1	<0.02	<1	0.2	2.4	<10	<2
1266592	Soil	0.39	9.0	1.0	<0.05	2.1	12.59	21.6	0.03	<1	0.6	14.5	<10	<2
1266593	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1266594	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1266595	Soil	0.39	9.0	3.0	<0.05	1.6	6.13	23.5	0.02	<1	0.6	20.0	<10	<2
1266596	Soil	0.42	4.5	1.2	<0.05	0.7	25.15	28.2	0.03	<1	0.9	7.6	<10	<2
1266597	Soil	0.10	2.8	1.4	<0.05	0.3	11.80	12.2	<0.02	<1	0.2	2.6	<10	<2
1266598	Soil	0.22	3.6	0.6	<0.05	1.1	26.03	22.5	1.86	1	0.7	5.6	<10	<2
1266599	Soil	0.60	7.1	2.5	<0.05	2.5	23.90	30.0	0.07	<1	1.0	9.9	<10	<2
1266600	Soil	0.27	4.6	1.8	<0.05	2.1	26.42	27.5	0.06	<1	0.7	6.4	<10	<2
1266601	Soil	0.44	18.7	2.1	<0.05	7.9	14.34	60.1	0.05	<1	1.2	12.9	<10	<2
1266602	Soil	0.61	20.9	1.1	<0.05	8.2	8.88	37.0	0.04	<1	1.5	14.8	<10	<2
1266603	Soil	0.49	22.2	2.5	<0.05	9.8	10.49	47.0	0.05	<1	2.0	17.9	16	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1266604	Soil			1.83	19.21	16.34	107.1	71	40.1	12.9	408	3.89	7.6	1.2	0.3	3.3	46.0	0.27	0.30	0.21	42	0.65	0.077
1266605	Soil			1.16	14.63	16.30	81.3	45	32.0	14.7	456	4.03	5.6	0.8	0.9	3.5	37.9	0.09	0.18	0.22	36	0.53	0.073
1266606	Soil			0.98	11.61	14.71	79.1	55	29.4	11.3	338	3.62	8.0	0.9	0.2	3.0	20.5	0.10	0.29	0.23	45	0.40	0.087
1266607	Soil			1.27	9.80	314.3	187.1	53	12.2	7.2	1222	1.90	10.0	1.1	0.2	0.8	38.6	0.43	0.44	0.14	24	9.16	0.111
1266608	Soil			1.04	17.07	494.2	532.0	209	19.4	8.2	1101	2.58	12.6	1.4	1.3	1.4	24.1	1.11	0.62	0.22	33	2.68	0.203
1266609	Soil			1.06	14.88	544.2	904.6	276	16.4	7.5	1783	2.52	11.9	1.6	1.6	0.7	19.7	2.69	0.61	0.19	31	3.19	0.153
1266610	Soil			1.34	7.52	393.4	991.6	132	7.9	3.6	1877	1.66	8.7	2.4	<0.2	0.6	53.1	2.28	0.57	0.07	10	15.67	0.107
1266611	Soil			1.28	6.11	205.5	1111	105	5.6	2.6	1597	1.62	8.6	2.6	<0.2	0.9	53.1	1.76	0.82	0.06	7	16.51	0.089
1266612	Soil			0.90	40.64	88.77	301.5	405	26.6	12.7	584	4.04	19.8	2.3	1.4	2.7	32.4	0.71	1.78	0.38	16	0.90	0.106
1266613	Soil			0.86	26.22	30.14	86.3	145	21.7	9.7	332	2.79	11.3	2.9	0.8	2.3	40.7	0.18	0.46	0.28	21	1.01	0.090
1266614	Soil			0.82	35.46	23.23	114.9	189	27.6	10.3	204	2.59	10.5	2.7	5.9	2.9	48.0	0.32	0.50	0.21	24	1.57	0.102
1266615	Soil			0.42	31.78	13.43	107.0	95	27.2	10.3	437	2.39	4.2	1.7	3.5	2.1	41.3	0.43	0.24	0.16	30	1.53	0.073
1266616	Soil			0.47	35.60	15.44	87.8	60	26.0	11.1	434	2.23	4.4	1.9	4.6	2.1	39.0	0.36	0.19	0.16	31	1.55	0.074
1266617	Soil			0.55	33.37	16.33	94.9	76	28.4	12.4	458	2.59	7.7	1.5	5.2	3.1	24.3	0.34	0.23	0.19	35	0.81	0.070
1266618	Soil			0.47	44.37	21.59	87.4	55	28.0	13.2	362	2.44	8.4	1.3	15.2	6.3	39.3	0.19	0.14	0.21	30	2.12	0.053
1266619	Soil			0.79	12.70	11.66	55.8	62	15.5	6.3	702	1.10	1.8	1.8	0.7	0.9	59.3	0.47	0.20	0.12	11	2.68	0.110
1266620	Soil			0.19	11.38	8.15	75.5	14	36.7	12.9	306	2.49	0.7	0.9	1.0	9.2	63.5	0.07	0.10	0.20	13	4.17	0.068
1266621	Soil			0.21	17.75	10.19	69.4	20	36.1	12.1	274	2.54	3.0	1.4	0.7	7.4	152.1	0.13	0.08	0.19	13	8.33	0.064
1266622	Soil			0.32	27.96	15.06	93.8	19	45.2	13.6	310	2.89	2.6	1.4	2.6	5.7	45.7	0.13	0.15	0.28	16	1.94	0.068
1266623	Soil			0.64	12.95	28.34	76.6	46	13.1	7.4	1495	1.67	5.0	0.7	0.9	1.9	12.7	0.29	0.27	0.26	17	0.49	0.093
1266624	Soil			0.78	15.16	39.70	152.5	38	11.3	5.8	2346	1.53	6.7	1.2	1.0	2.3	25.9	0.69	0.31	0.27	21	1.73	0.129
1266625	Soil			1.13	10.09	31.10	47.0	63	11.0	5.3	1380	1.59	7.6	1.3	0.8	2.0	14.7	0.15	0.27	0.20	14	0.80	0.051
1266626	Soil			0.83	32.83	21.96	52.9	82	11.0	6.9	1453	1.41	6.1	8.1	2.1	0.3	35.8	0.24	0.33	0.22	14	2.72	0.169
1266627	Soil			0.95	20.85	22.94	91.2	64	12.4	11.8	1090	3.17	7.3	0.7	1.2	1.7	8.7	0.21	0.34	0.41	27	0.17	0.047
1266628	Soil			2.49	12.79	369.0	870.7	175	9.8	5.5	1085	1.93	14.5	1.5	0.5	1.1	82.4	3.65	1.27	0.13	7	9.70	0.061
1266629	Soil			6.22	6.69	270.5	1881	129	7.8	3.2	824	2.35	15.4	3.3	0.3	0.5	161.5	2.49	2.22	0.07	13	8.84	0.118
1266630	Soil			2.86	4.42	204.3	1333	157	3.6	2.1	932	3.80	19.0	1.4	<0.2	0.7	53.3	1.10	2.83	0.06	7	8.98	0.058
1266631	Soil			1.82	27.24	30.72	80.6	179	18.4	7.4	252	1.65	14.3	10.2	5.7	0.7	226.3	0.36	0.89	0.35	13	5.43	0.108
1266632	Soil			1.41	28.19	30.54	208.3	147	23.9	9.9	385	2.29	18.4	3.5	5.9	1.8	113.8	0.76	1.13	0.21	19	2.97	0.079
1266633	Soil			0.81	28.26	26.52	96.4	116	23.9	11.9	500	2.42	12.1	1.6	2.8	4.5	60.0	0.28	0.76	0.23	25	2.21	0.058



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: October 31, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1266604	Soil	20.4	30.5	0.37	214.5	0.002	4	1.67	0.001	0.19	<0.1	4.6	0.29	0.03	31	0.5	<0.02	4.3	1.08	<0.1	0.19
1266605	Soil	21.1	34.4	0.36	267.4	0.002	5	2.27	<0.001	0.21	<0.1	4.2	0.26	0.03	30	0.3	<0.02	6.1	1.73	<0.1	0.19
1266606	Soil	18.7	33.9	0.45	182.9	0.005	4	2.29	0.002	0.16	<0.1	3.4	0.25	0.03	15	0.4	<0.02	6.4	1.63	<0.1	0.18
1266607	Soil	7.4	14.6	4.84	66.0	0.005	2	0.86	0.006	0.06	<0.1	1.5	0.36	0.04	67	0.5	<0.02	2.1	0.98	<0.1	0.03
1266608	Soil	11.9	23.7	1.30	118.0	0.006	3	1.35	0.006	0.07	0.1	2.1	0.39	0.09	141	0.7	0.03	3.7	0.87	<0.1	0.07
1266609	Soil	9.8	20.5	1.51	93.5	0.007	3	1.11	0.008	0.05	<0.1	1.3	0.34	0.12	301	0.8	<0.02	3.0	0.56	<0.1	0.06
1266610	Soil	7.2	6.1	9.02	36.7	0.005	1	0.26	0.009	0.02	<0.1	0.9	1.65	<0.02	77	0.3	0.06	0.7	0.48	<0.1	0.03
1266611	Soil	6.9	4.7	9.36	20.8	0.004	1	0.18	0.012	0.02	<0.1	0.9	1.49	<0.02	73	0.3	0.04	0.5	0.41	<0.1	0.03
1266612	Soil	10.5	14.6	0.29	60.9	0.002	4	0.74	0.003	0.12	<0.1	3.4	0.33	0.05	129	0.6	0.04	2.4	1.93	<0.1	0.12
1266613	Soil	11.1	19.0	0.44	91.0	0.002	3	1.16	0.003	0.12	<0.1	3.0	0.11	0.07	56	0.6	0.03	3.5	0.68	<0.1	0.13
1266614	Soil	18.4	28.3	1.07	89.2	0.003	7	1.25	0.004	0.15	<0.1	3.9	0.22	0.08	82	0.8	0.03	4.0	1.51	<0.1	0.18
1266615	Soil	27.0	40.3	1.75	82.9	0.004	5	1.73	0.002	0.14	<0.1	3.1	0.11	0.07	50	0.8	<0.02	5.7	0.44	<0.1	0.14
1266616	Soil	27.0	44.7	2.01	67.9	0.006	6	1.83	0.003	0.14	<0.1	4.2	0.13	0.09	55	0.9	0.04	5.8	1.69	<0.1	0.14
1266617	Soil	24.4	47.5	2.18	71.8	0.008	5	1.97	0.003	0.12	<0.1	4.2	0.13	0.07	37	0.8	0.03	6.3	1.28	<0.1	0.23
1266618	Soil	28.7	48.4	3.13	71.3	0.006	4	2.02	0.003	0.12	<0.1	4.5	0.08	<0.02	26	1.1	0.02	6.3	2.13	<0.1	0.15
1266619	Soil	10.1	20.4	0.87	625.3	0.006	8	0.82	0.008	0.07	<0.1	2.1	0.08	0.18	98	1.3	<0.02	2.5	1.34	<0.1	0.14
1266620	Soil	28.5	34.2	1.94	192.7	0.005	3	1.47	0.003	0.11	<0.1	3.7	0.04	<0.02	16	0.4	<0.02	4.5	1.81	<0.1	0.15
1266621	Soil	16.6	34.6	1.41	92.4	0.004	2	1.47	0.002	0.09	<0.1	3.8	0.04	<0.02	20	0.5	<0.02	4.6	0.73	<0.1	0.14
1266622	Soil	13.3	42.2	1.38	71.6	0.003	5	1.76	0.007	0.11	<0.1	4.3	0.06	0.04	35	0.1	<0.02	5.0	0.76	<0.1	0.15
1266623	Soil	21.0	15.9	0.31	77.6	0.002	5	0.96	0.004	0.12	<0.1	2.1	0.10	0.07	46	0.1	<0.02	2.8	0.76	<0.1	0.05
1266624	Soil	37.5	21.1	0.35	111.1	0.003	6	0.85	0.006	0.09	<0.1	1.5	0.09	0.10	47	0.2	0.02	2.3	0.79	<0.1	0.06
1266625	Soil	15.8	11.7	0.33	101.5	<0.001	4	0.57	0.003	0.06	<0.1	1.5	0.07	0.05	28	0.2	<0.02	1.6	0.52	<0.1	0.02
1266626	Soil	14.3	14.9	0.21	225.9	0.003	5	0.76	0.005	0.05	<0.1	0.9	0.08	0.18	89	0.8	<0.02	2.1	0.98	<0.1	0.02
1266627	Soil	4.8	21.4	0.19	91.1	0.003	1	0.91	0.006	0.15	<0.1	1.6	0.11	0.04	19	<0.1	0.03	5.8	2.32	<0.1	<0.02
1266628	Soil	3.9	6.5	7.02	41.0	0.001	3	0.28	0.009	0.09	<0.1	1.3	0.54	0.07	1159	0.3	<0.02	0.9	1.53	<0.1	<0.02
1266629	Soil	5.4	8.0	6.13	38.9	0.002	5	0.34	0.010	0.05	<0.1	0.9	1.45	0.06	6236	0.5	<0.02	1.0	0.46	<0.1	<0.02
1266630	Soil	2.0	3.7	6.58	18.1	0.001	3	0.16	0.006	0.04	<0.1	0.8	2.83	0.03	16828	0.4	<0.02	0.5	0.86	<0.1	<0.02
1266631	Soil	17.4	14.0	0.26	40.2	0.001	7	0.69	0.007	0.12	<0.1	1.0	0.28	0.11	262	0.9	<0.02	1.7	1.90	<0.1	0.04
1266632	Soil	15.4	18.6	0.73	47.7	0.002	7	0.80	0.006	0.17	<0.1	2.8	0.50	0.08	258	0.6	<0.02	2.3	2.88	<0.1	0.06
1266633	Soil	16.1	28.0	1.51	74.1	0.004	3	1.03	0.008	0.12	<0.1	4.3	0.23	0.04	518	1.1	<0.02	3.2	1.86	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 5 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
1266604	Soil	0.53	16.7	0.9	<0.05	8.8	13.59	67.8	0.06	<1	1.6	15.6	<10	<2
1266605	Soil	0.52	20.5	1.8	<0.05	7.4	11.20	59.1	0.05	<1	2.1	18.4	10	<2
1266606	Soil	0.68	17.0	1.0	<0.05	6.0	9.57	54.2	0.03	<1	1.6	17.8	11	<2
1266607	Soil	0.23	5.3	0.6	<0.05	0.7	7.43	15.7	<0.02	<1	0.8	6.0	<10	<2
1266608	Soil	0.51	6.6	0.8	<0.05	2.2	12.24	20.0	0.03	<1	0.6	10.2	<10	<2
1266609	Soil	0.46	5.2	2.4	<0.05	1.2	9.35	17.3	<0.02	<1	0.7	8.3	<10	<2
1266610	Soil	0.10	2.0	1.1	<0.05	0.8	7.12	12.0	<0.02	1	0.3	2.4	<10	<2
1266611	Soil	0.08	1.6	2.9	<0.05	0.8	6.42	11.1	<0.02	<1	0.3	1.7	<10	<2
1266612	Soil	0.17	8.6	2.1	<0.05	3.5	20.20	20.5	0.03	<1	1.0	7.6	<10	<2
1266613	Soil	0.32	9.0	2.0	<0.05	3.8	10.11	21.3	0.03	<1	1.1	14.3	<10	<2
1266614	Soil	0.29	10.5	1.2	<0.05	5.9	13.62	34.0	0.03	<1	1.2	20.2	19	<2
1266615	Soil	0.28	9.4	1.1	<0.05	3.9	14.26	51.4	0.03	<1	1.2	33.6	<10	<2
1266616	Soil	0.36	14.2	2.0	<0.05	5.3	17.00	54.4	0.04	<1	1.0	43.2	12	<2
1266617	Soil	0.41	11.1	2.9	<0.05	6.9	14.78	52.6	0.04	<1	1.3	45.3	<10	<2
1266618	Soil	0.14	10.4	2.5	<0.05	5.9	14.05	56.5	<0.02	<1	1.0	46.9	12	<2
1266619	Soil	0.31	6.2	6.8	<0.05	4.3	13.39	18.3	<0.02	<1	1.0	11.6	10	<2
1266620	Soil	0.04	6.7	2.0	<0.05	10.1	10.93	53.7	<0.02	<1	1.2	32.8	<10	<2
1266621	Soil	0.08	5.5	3.2	<0.05	7.2	12.07	31.0	<0.02	<1	0.9	32.9	<10	<2
1266622	Soil	0.17	6.7	2.0	<0.05	5.6	12.62	27.7	0.05	<1	1.2	43.7	<10	<2
1266623	Soil	0.17	9.6	2.1	<0.05	1.3	13.88	45.8	0.02	<1	0.6	14.2	<10	<2
1266624	Soil	0.22	9.3	2.7	<0.05	1.9	19.99	89.4	0.03	<1	0.7	20.1	<10	<2
1266625	Soil	0.12	5.9	2.3	<0.05	1.2	8.50	61.8	0.03	2	0.3	16.0	<10	<2
1266626	Soil	0.27	6.2	1.8	<0.05	0.9	13.53	22.8	0.02	<1	0.9	7.7	<10	<2
1266627	Soil	0.34	16.6	6.2	<0.05	0.2	3.86	10.3	0.03	<1	0.5	7.6	<10	<2
1266628	Soil	0.08	5.3	2.8	<0.05	0.6	4.52	7.8	<0.02	<1	0.5	3.4	<10	<2
1266629	Soil	0.11	3.9	1.8	<0.05	0.7	6.27	9.3	<0.02	<1	0.4	2.2	<10	<2
1266630	Soil	0.04	2.7	0.5	<0.05	0.5	3.23	4.0	<0.02	<1	0.2	1.0	<10	<2
1266631	Soil	0.22	10.1	8.6	<0.05	2.5	10.41	32.2	<0.02	<1	0.8	13.0	<10	<2
1266632	Soil	0.20	10.9	3.5	<0.05	3.7	10.64	30.0	0.03	<1	0.8	12.3	<10	<2
1266633	Soil	0.31	9.7	3.7	<0.05	2.6	8.80	34.6	0.03	1	0.9	20.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1266634	Soil			0.82	28.54	19.87	108.6	159	25.3	9.4	291	2.42	10.5	2.5	3.0	2.0	55.2	0.31	0.71	0.23	29	1.32	0.067
1266635	Soil			0.57	52.89	25.60	106.4	79	25.6	11.7	494	2.62	5.0	1.5	4.4	3.2	45.4	0.29	0.34	0.26	29	1.31	0.080
1266636	Soil			0.52	27.72	16.31	98.8	52	27.1	9.7	230	2.54	2.1	1.8	3.9	4.1	30.5	0.23	0.22	0.20	22	0.88	0.060
1266637	Soil			0.65	40.64	21.85	94.4	75	29.2	12.1	322	2.60	7.0	1.5	4.3	4.6	37.0	0.20	0.36	0.22	30	1.26	0.059
1266638	Soil			0.94	26.69	13.52	93.6	49	23.9	9.2	400	1.79	4.0	2.7	2.7	2.3	67.0	0.38	0.42	0.17	18	2.39	0.085
1266639	Soil			0.44	31.76	24.47	111.3	46	24.0	8.5	174	2.01	5.5	1.2	2.5	2.9	39.8	0.43	0.24	0.22	19	1.47	0.067
1266640	Soil			0.56	25.78	30.16	119.3	66	30.9	10.9	479	2.46	6.0	2.9	1.8	2.5	76.0	0.36	0.34	0.29	15	2.59	0.074
1267401	Soil			1.51	30.73	46.91	141.5	121	29.8	13.3	488	3.09	14.8	1.1	1.3	3.8	39.8	0.44	0.44	0.32	13	1.84	0.115
1267402	Soil			1.66	32.24	34.50	102.6	149	27.4	10.2	281	3.26	11.8	1.3	0.9	3.8	40.4	0.23	0.42	0.36	21	1.10	0.112
1267403	Soil			6.01	125.6	52.43	322.1	267	248.1	215.6	6600	9.76	18.7	4.2	<0.2	10.4	33.6	2.19	1.30	0.35	32	0.33	0.223
1267404	Soil			1.73	33.67	28.13	97.9	164	22.1	9.1	252	2.64	7.7	1.4	0.5	3.7	41.0	0.33	0.40	0.32	18	1.13	0.079
1267405	Soil			2.45	37.37	23.82	130.6	356	34.9	14.0	398	3.39	10.7	1.7	0.7	5.3	39.2	0.73	0.68	0.28	27	1.06	0.146
1267406	Soil			1.16	24.73	21.94	68.7	131	19.2	7.4	341	2.11	6.4	1.3	0.7	1.7	36.5	0.32	0.33	0.26	20	1.57	0.108
1267407	Soil			1.56	24.49	27.31	70.1	109	19.0	8.3	376	2.47	8.4	1.2	0.7	2.1	30.2	0.21	0.30	0.29	22	1.38	0.090
1266651	Soil			1.19	47.37	26.53	82.0	59	27.4	15.2	986	3.24	12.6	1.2	1.9	4.2	10.1	0.10	0.54	0.30	38	0.10	0.051
1266652	Soil			1.20	31.26	26.22	92.9	31	24.3	11.4	778	3.45	10.9	0.9	0.9	2.7	9.4	0.16	0.65	0.32	46	0.07	0.052
1266653	Soil			1.01	18.16	30.52	80.9	35	21.2	12.9	918	3.36	11.7	1.0	1.5	1.5	9.6	0.14	0.65	0.33	42	0.04	0.056
1266654	Soil			1.03	15.16	40.86	67.4	19	26.5	18.1	1908	3.55	11.4	1.9	1.2	2.8	9.5	0.14	0.64	0.34	42	0.04	0.051
1266655	Soil			0.52	99.84	34.28	85.7	8	31.2	24.7	2358	4.14	10.3	1.1	0.5	6.7	18.5	0.10	0.51	0.38	27	0.03	0.020
1266656	Soil			1.48	13.88	28.12	74.1	12	15.6	14.3	1438	3.14	8.6	0.7	0.3	2.6	8.2	0.14	0.79	0.34	55	0.04	0.039
1266657	Soil			3.49	13.88	127.3	26.1	38	5.9	4.3	70	2.34	14.2	0.2	1.4	3.8	25.5	0.01	0.71	0.60	6	0.09	0.014
1266658	Soil			1.24	25.83	29.24	108.2	33	18.5	12.5	1074	3.37	9.3	0.9	0.3	0.8	8.9	0.24	0.62	0.32	47	0.06	0.056
1266659	Soil			1.23	16.30	26.53	107.4	47	16.7	24.4	1897	4.34	6.4	0.7	0.5	4.2	5.8	0.32	0.53	0.42	35	0.05	0.046
1266660	Soil			1.42	4.18	3976	602.9	33	5.3	3.5	1833	2.11	5.6	0.9	<0.2	0.5	50.3	1.69	0.17	0.07	13	9.37	0.143
1266661	Soil			0.28	8.05	55.48	26.7	15	7.5	4.9	155	3.11	7.3	0.3	5.0	2.3	5.8	0.14	0.35	0.51	9	0.13	0.019
1266662	Soil			0.49	5.08	564.5	3895	71	4.5	3.2	4607	8.17	3.7	1.1	1.9	0.5	41.5	13.54	0.18	0.13	11	9.82	0.115
1266663	Soil			0.69	2.98	1603	>10000	185	1.8	1.5	2652	7.28	3.0	1.3	1.0	0.6	42.9	46.81	0.05	0.06	3	9.22	0.057
1266664	Soil			0.64	10.52	410.4	>10000	123	10.5	4.6	4170	9.12	6.0	2.2	1.7	1.0	44.5	22.17	0.31	0.11	16	7.87	0.144
1266665	Soil			1.95	11.74	2234	3085	85	14.1	6.9	2285	10.12	10.2	3.2	2.0	0.9	14.6	4.77	0.55	0.25	44	1.96	0.197
1266666	Soil			2.37	13.80	179.6	1513	95	18.5	9.5	8461	9.90	13.5	3.2	0.9	1.6	10.8	3.59	0.62	0.27	47	0.82	0.183



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1266634	Soil	18.5	32.6	0.88	82.2	0.005	6	1.28	0.007	0.16	<0.1	3.6	0.42	0.08	262	1.1	<0.02	4.1	3.00	<0.1	0.08
1266635	Soil	25.1	41.2	1.71	125.2	0.007	6	1.77	0.007	0.17	<0.1	5.2	0.16	0.07	106	1.1	<0.02	5.3	6.76	<0.1	0.12
1266636	Soil	28.0	39.4	1.28	85.7	0.003	4	1.36	0.005	0.14	<0.1	7.0	0.14	0.06	73	1.5	<0.02	4.0	3.31	<0.1	0.08
1266637	Soil	26.7	46.5	2.27	192.3	0.004	5	1.87	0.006	0.15	<0.1	5.4	0.19	0.04	92	1.1	0.02	5.6	4.53	<0.1	0.11
1266638	Soil	16.8	30.9	1.21	333.2	0.003	7	1.03	0.007	0.11	<0.1	3.4	0.16	0.11	98	1.0	<0.02	3.0	2.46	<0.1	0.10
1266639	Soil	21.7	35.0	1.52	159.5	0.002	5	1.56	0.005	0.10	<0.1	3.5	0.10	0.09	48	0.5	<0.02	4.3	2.28	<0.1	0.11
1266640	Soil	16.3	31.0	0.81	186.8	0.005	6	1.26	0.008	0.12	<0.1	4.7	0.11	0.09	94	0.5	0.02	3.6	4.99	<0.1	0.11
1267401	Soil	9.1	13.6	0.59	80.7	0.001	6	0.82	0.010	0.17	<0.1	3.6	0.17	0.12	113	0.5	0.03	2.1	1.73	<0.1	0.08
1267402	Soil	8.9	18.6	0.45	157.3	0.001	4	1.31	0.009	0.18	<0.1	3.6	0.19	0.14	80	0.6	0.04	3.5	1.44	<0.1	0.10
1267403	Soil	11.3	23.5	0.78	483.1	0.002	4	1.83	0.009	0.15	<0.1	8.3	0.87	0.14	132	1.7	0.05	4.9	6.32	<0.1	0.08
1267404	Soil	5.7	17.7	0.37	104.8	0.002	4	1.07	0.007	0.14	0.1	2.9	0.15	0.12	134	0.9	<0.02	3.2	1.37	<0.1	0.12
1267405	Soil	8.7	19.2	0.45	153.0	0.003	5	1.28	0.009	0.14	<0.1	4.6	0.35	0.09	143	0.7	0.04	3.5	4.74	<0.1	0.09
1267406	Soil	7.3	16.4	0.35	135.5	0.002	5	1.02	0.008	0.12	<0.1	2.1	0.16	0.12	91	0.7	0.02	2.9	1.14	<0.1	0.07
1267407	Soil	6.0	17.3	0.38	110.4	0.001	4	1.14	0.005	0.13	<0.1	2.1	0.12	0.10	71	0.5	0.03	3.3	0.73	<0.1	0.08
1266651	Soil	12.0	28.2	0.44	131.7	0.007	<1	1.51	0.006	0.10	0.1	3.0	0.11	0.02	46	0.3	0.03	4.7	2.96	<0.1	0.02
1266652	Soil	11.4	29.7	0.41	105.2	0.009	2	1.78	0.006	0.12	0.2	2.7	0.16	0.02	34	0.3	0.03	5.4	3.06	<0.1	<0.02
1266653	Soil	7.0	29.1	0.26	126.2	0.007	2	1.42	0.006	0.15	0.1	2.4	0.13	0.04	36	0.3	0.04	5.1	4.14	<0.1	<0.02
1266654	Soil	5.5	29.2	0.32	152.7	0.007	1	1.43	0.006	0.16	0.2	3.5	0.12	0.03	26	0.3	0.05	4.8	4.34	<0.1	<0.02
1266655	Soil	2.0	34.4	0.26	88.4	0.006	2	1.08	0.006	0.19	0.1	4.6	0.14	<0.02	26	<0.1	0.05	3.6	3.88	<0.1	<0.02
1266656	Soil	10.3	24.6	0.18	84.7	0.015	<1	1.26	0.004	0.10	0.1	1.9	0.14	<0.02	31	0.4	0.07	5.6	1.65	<0.1	<0.02
1266657	Soil	6.1	5.5	0.04	81.1	<0.001	<1	0.39	0.005	0.09	<0.1	2.0	0.22	0.05	50	<0.1	0.05	1.8	1.36	<0.1	<0.02
1266658	Soil	10.6	29.4	0.33	91.7	0.009	<1	1.56	0.004	0.10	0.1	1.6	0.15	0.04	42	0.4	0.04	5.4	1.72	<0.1	<0.02
1266659	Soil	6.9	25.1	0.14	105.6	0.007	2	1.38	0.004	0.14	<0.1	3.8	0.15	0.02	55	0.3	0.10	5.0	3.00	<0.1	<0.02
1266660	Soil	5.7	8.3	6.76	43.3	0.003	1	0.67	0.010	0.03	<0.1	0.9	0.13	0.08	74	0.3	<0.02	1.2	0.37	<0.1	<0.02
1266661	Soil	2.3	6.1	0.10	101.4	<0.001	3	0.48	0.002	0.16	<0.1	2.6	0.17	<0.02	31	<0.1	0.04	1.5	2.04	<0.1	<0.02
1266662	Soil	5.3	6.5	7.55	112.1	0.004	3	0.40	0.011	0.02	<0.1	1.0	1.33	0.09	361	0.6	<0.02	1.4	0.40	<0.1	<0.02
1266663	Soil	3.6	2.3	6.71	23.1	0.001	4	0.09	0.010	0.02	<0.1	0.7	3.87	0.38	373	0.8	<0.02	1.2	0.15	1.1	<0.02
1266664	Soil	9.1	10.8	5.24	197.4	0.006	4	0.69	0.010	0.03	<0.1	1.5	3.01	0.09	152	0.9	<0.02	1.9	0.37	<0.1	0.02
1266665	Soil	11.7	23.9	1.07	213.5	0.012	2	1.68	0.003	0.04	0.1	1.8	1.34	0.11	497	0.6	0.04	4.3	1.03	<0.1	0.02
1266666	Soil	17.8	27.2	0.39	231.4	0.013	2	1.87	0.001	0.04	0.1	2.7	1.16	0.11	91	0.6	0.09	5.2	0.94	0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 6 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
1266634	Soil	0.44	13.7	1.4	<0.05	3.2	13.14	34.0	0.03	<1	1.0	25.4	<10	<2
1266635	Soil	0.39	15.5	5.3	<0.05	3.6	17.21	48.6	0.03	<1	1.1	37.4	<10	<2
1266636	Soil	0.22	12.2	1.5	<0.05	3.0	15.50	51.4	0.04	<1	1.0	25.9	<10	<2
1266637	Soil	0.28	13.6	4.7	<0.05	4.8	16.53	50.8	0.04	<1	1.1	43.2	<10	<2
1266638	Soil	0.28	8.9	2.0	<0.05	5.0	12.37	32.5	0.02	<1	0.9	20.4	<10	<2
1266639	Soil	0.26	9.2	3.1	<0.05	5.1	12.02	40.1	0.03	<1	0.7	31.1	<10	<2
1266640	Soil	0.31	11.5	8.2	<0.05	4.1	12.11	32.5	0.04	1	1.0	23.4	<10	<2
1267401	Soil	0.11	7.8	2.5	<0.05	3.1	11.96	22.5	0.04	<1	0.9	9.7	<10	<2
1267402	Soil	0.22	11.0	1.0	<0.05	3.6	16.44	20.2	0.03	<1	1.1	17.0	<10	<2
1267403	Soil	0.05	10.3	2.4	<0.05	5.7	44.57	50.8	0.09	4	3.1	46.1	<10	<2
1267404	Soil	0.20	8.3	1.0	<0.05	4.9	10.03	16.5	0.03	4	1.0	20.5	<10	<2
1267405	Soil	0.25	9.8	1.1	<0.05	4.2	22.81	24.6	0.04	3	1.2	22.6	<10	<2
1267406	Soil	0.22	8.2	1.6	<0.05	2.5	13.50	19.3	0.03	1	0.8	15.9	<10	<2
1267407	Soil	0.22	8.0	2.9	<0.05	2.5	7.95	16.4	0.03	<1	0.9	18.5	<10	<2
1266651	Soil	0.52	12.0	1.7	<0.05	0.6	6.81	24.4	0.04	<1	1.3	25.8	<10	<2
1266652	Soil	0.65	15.3	1.4	<0.05	0.4	5.60	23.4	0.03	<1	1.4	28.1	<10	<2
1266653	Soil	0.43	17.9	2.0	<0.05	0.2	4.79	14.8	0.03	<1	1.2	16.1	<10	<2
1266654	Soil	0.40	18.7	3.3	<0.05	0.3	6.24	12.7	0.04	<1	1.9	15.5	<10	<2
1266655	Soil	0.23	16.2	3.5	<0.05	0.3	4.77	6.6	0.05	<1	1.2	14.1	<10	<2
1266656	Soil	0.72	15.9	1.6	<0.05	0.3	2.67	21.4	0.02	<1	0.6	14.1	<10	<2
1266657	Soil	<0.02	7.2	1.5	<0.05	0.9	3.33	12.5	0.05	<1	0.3	3.2	<10	<2
1266658	Soil	0.43	14.5	2.6	<0.05	0.2	4.75	23.3	0.04	<1	0.8	17.8	<10	<2
1266659	Soil	0.63	22.6	2.8	<0.05	0.7	3.97	15.3	0.04	<1	1.0	16.3	<10	<2
1266660	Soil	0.11	4.1	1.6	<0.05	0.3	5.54	10.6	<0.02	<1	0.3	3.4	<10	<2
1266661	Soil	0.06	9.6	1.2	<0.05	0.9	3.30	4.2	0.08	<1	0.4	1.8	<10	<2
1266662	Soil	0.09	3.4	1.1	<0.05	0.6	5.55	9.4	<0.02	<1	0.7	2.3	<10	<2
1266663	Soil	0.02	1.0	0.4	<0.05	0.4	3.69	6.0	<0.02	<1	0.2	0.7	<10	<2 2.17
1266664	Soil	0.14	3.1	2.7	<0.05	0.6	8.49	15.6	<0.02	<1	0.6	4.3	<10	<2 1.17
1266665	Soil	0.46	8.4	1.0	<0.05	0.7	10.93	19.3	0.03	<1	0.9	9.1	<10	<2
1266666	Soil	0.47	9.4	1.0	<0.05	1.6	17.39	30.6	0.03	<1	1.6	8.6	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1266667	Soil			5.31	14.83	370.8	2718	164	19.6	8.9	7451	13.14	15.7	5.2	2.0	1.4	17.4	7.41	0.41	0.19	39	2.40	0.193
1266668	Soil			1.27	13.33	62.80	554.0	52	13.4	7.4	932	2.65	8.8	0.9	1.5	1.2	16.8	1.56	0.24	0.27	26	1.12	0.114
1266669	Soil			1.73	15.49	155.6	1287	51	18.5	8.4	608	3.61	11.2	0.8	1.1	2.1	12.6	2.09	0.40	0.32	23	0.96	0.060
1266670	Soil			1.41	15.64	716.0	2292	129	14.4	6.9	2518	19.12	12.1	3.0	1.6	3.4	7.4	5.05	0.34	0.21	23	0.37	0.131
1266671	Soil			1.29	10.98	51.61	239.4	53	16.7	8.7	1172	3.11	7.4	1.0	0.9	1.7	12.2	0.45	0.40	0.28	52	0.57	0.066
1266672	Soil			1.11	14.81	31.31	252.7	69	16.9	9.5	857	3.12	7.7	1.3	<0.2	1.8	11.8	1.71	0.40	0.28	55	0.68	0.050
1266673	Soil			0.68	18.55	40.31	149.6	21	19.1	10.5	354	3.26	7.9	0.8	0.6	3.6	21.4	0.63	0.36	0.32	28	0.30	0.031
1266674	Soil			0.61	22.08	31.14	84.0	67	20.3	10.7	454	4.08	5.9	0.5	0.3	3.9	7.4	0.20	0.36	0.36	29	0.10	0.031
1266675	Soil			0.70	21.78	30.11	81.4	78	25.3	9.9	375	3.78	10.2	1.6	0.7	3.1	22.8	0.36	0.40	0.34	28	0.93	0.057
1266676	Soil			0.60	23.98	18.68	113.7	173	19.6	8.8	407	2.25	9.7	7.6	5.0	1.4	75.9	0.64	0.37	0.21	27	1.85	0.072
1266677	Soil			0.98	19.76	18.33	90.2	56	19.9	10.3	480	2.83	8.5	3.0	1.2	1.9	25.8	0.36	0.45	0.29	57	0.60	0.066
1266678	Soil			0.50	19.32	16.56	138.6	121	27.0	9.4	305	3.04	5.8	5.8	0.7	3.2	24.0	0.38	0.26	0.28	57	0.49	0.052
1266679	Soil			0.31	23.52	13.75	91.0	32	27.2	10.2	234	2.74	2.4	1.1	1.7	5.0	17.2	0.17	0.17	0.19	58	0.29	0.013
1266680	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1266681	Soil			0.44	21.87	13.57	87.0	64	23.2	8.9	311	2.44	9.0	4.4	1.9	2.9	51.9	0.66	0.33	0.19	39	1.04	0.050
1266682	Soil			0.70	14.39	30.46	5713	141	21.1	6.7	2111	31.43	5.4	3.7	1.3	2.2	87.4	0.39	0.23	0.11	9	1.01	0.048
1267151	Soil			1.27	33.17	67.20	261.3	196	27.7	26.4	1497	4.59	16.0	0.8	5.2	0.7	15.1	0.51	2.17	0.44	43	0.21	0.067
1267152	Soil			0.82	56.75	39.08	133.6	75	35.2	34.6	777	5.15	9.8	0.7	1.9	2.8	11.5	0.23	0.98	0.35	38	0.05	0.039
1267153	Soil			0.78	40.86	29.54	97.7	94	29.5	16.1	561	5.24	5.0	0.8	1.4	2.1	47.7	0.36	0.44	0.30	37	0.88	0.080
1267154	Soil			0.77	21.38	72.11	127.3	109	15.4	8.0	407	1.98	7.0	1.5	1.2	0.3	111.9	0.82	0.78	0.20	23	1.43	0.110
1267155	Soil			1.78	30.20	1710	652.2	709	20.7	8.8	539	2.93	21.1	1.0	1.9	1.4	48.8	2.17	6.30	0.23	31	4.32	0.074
1267156	Soil			1.01	24.77	46.75	207.2	98	21.7	9.9	419	3.00	12.4	1.2	0.8	0.8	26.1	0.60	1.21	0.29	39	0.91	0.103
1267157	Soil			1.50	27.84	336.2	1038	332	22.7	11.8	991	3.15	73.4	1.1	1.3	0.6	47.1	2.55	5.79	0.28	33	2.28	0.151
1267158	Soil			0.81	35.04	58.95	219.1	190	26.9	13.2	446	3.15	24.7	0.7	0.8	1.5	108.5	0.55	1.51	0.26	31	4.88	0.084
1267159	Soil			1.06	26.18	78.71	344.7	400	22.1	11.3	1667	3.59	34.3	1.8	1.9	0.5	55.3	1.23	3.67	0.26	40	2.43	0.182
1267160	Soil			1.07	21.22	60.40	233.4	401	20.7	10.6	>10000	13.54	46.4	1.3	1.5	1.5	36.6	1.33	3.22	0.22	36	1.55	0.112
1267161	Soil			1.26	20.09	98.61	349.6	607	19.2	11.3	1312	3.74	37.4	1.6	1.2	1.4	35.0	2.67	8.01	0.27	42	1.99	0.095
1267201	Soil			1.06	12.09	331.8	2478	163	13.3	6.1	1596	2.35	9.0	1.6	1.0	0.7	34.1	3.12	0.52	0.15	26	7.28	0.136
1267202	Soil			1.56	9.70	380.1	1315	112	11.6	5.5	1934	2.69	10.2	1.9	1.0	0.5	38.4	1.96	0.55	0.14	24	7.37	0.159
1267203	Soil			0.97	8.87	126.0	455.0	53	10.2	6.0	1206	1.60	7.6	1.1	0.4	0.8	41.8	1.07	0.35	0.14	16	8.40	0.109



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1266667	Soil	15.5	22.6	1.20	181.2	0.009	3	1.52	0.004	0.03	<0.1	2.5	1.11	0.13	249	0.9	0.06	4.1	0.71	0.1	0.05
1266668	Soil	5.6	19.4	0.35	157.8	0.003	4	1.27	0.003	0.10	<0.1	2.4	0.37	0.11	48	0.2	0.04	4.3	1.37	<0.1	0.04
1266669	Soil	7.0	17.3	0.41	89.6	0.004	5	0.94	0.003	0.11	<0.1	3.2	0.42	0.07	55	0.2	0.04	3.1	1.61	<0.1	0.03
1266670	Soil	12.6	17.0	0.27	110.6	0.003	2	0.94	0.002	0.06	<0.1	3.5	7.73	0.07	379	0.5	0.05	2.8	0.86	0.1	0.06
1266671	Soil	10.9	27.1	0.45	149.5	0.011	2	1.84	0.003	0.05	0.1	2.5	0.43	0.05	39	0.3	0.04	6.0	1.47	<0.1	0.02
1266672	Soil	10.0	27.7	0.46	201.2	0.009	2	1.81	0.002	0.05	0.1	2.8	0.22	0.03	39	0.2	0.05	6.1	1.25	<0.1	<0.02
1266673	Soil	6.8	14.6	0.13	76.4	0.002	2	0.94	0.002	0.08	<0.1	2.3	0.15	<0.02	21	0.2	0.07	3.0	1.41	<0.1	<0.02
1266674	Soil	4.8	16.1	0.15	99.5	<0.001	1	1.42	<0.001	0.06	<0.1	2.5	0.11	<0.02	23	0.2	0.07	3.9	1.48	<0.1	0.02
1266675	Soil	16.2	19.8	0.42	95.4	0.002	2	1.19	0.002	0.09	<0.1	4.5	0.23	0.03	129	0.2	0.08	2.9	0.88	<0.1	0.06
1266676	Soil	24.0	20.1	0.31	120.9	0.005	4	1.12	0.003	0.08	<0.1	2.6	0.20	0.08	105	0.7	0.03	3.3	1.02	<0.1	0.06
1266677	Soil	14.4	35.0	0.68	228.9	0.013	2	1.91	0.002	0.07	0.1	2.9	0.16	0.04	30	0.3	0.05	6.9	1.58	<0.1	0.02
1266678	Soil	15.5	46.9	1.39	161.0	0.008	2	2.65	<0.001	0.07	<0.1	4.0	0.16	0.03	28	0.2	0.04	7.8	1.57	<0.1	0.06
1266679	Soil	18.3	47.8	1.86	128.5	0.005	2	2.92	<0.001	0.07	<0.1	2.9	0.16	<0.02	11	0.1	<0.02	8.6	1.69	<0.1	0.10
1266680	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1266681	Soil	16.9	46.5	1.89	146.2	0.006	3	1.99	0.001	0.08	<0.1	4.3	0.08	0.04	29	0.6	0.03	6.2	0.60	<0.1	0.11
1266682	Soil	7.5	5.9	0.12	54.1	0.002	3	0.30	0.004	0.03	<0.1	2.5	16.14	0.04	72	0.6	0.02	1.0	1.52	0.1	0.06
1267151	Soil	9.7	27.1	0.36	120.1	0.013	6	1.25	0.002	0.13	0.2	2.5	0.23	0.04	66	0.4	0.06	4.7	3.23	<0.1	<0.02
1267152	Soil	6.3	29.6	0.45	85.8	0.007	3	1.82	<0.001	0.11	<0.1	6.0	0.21	<0.02	35	0.3	0.02	4.7	4.61	<0.1	0.03
1267153	Soil	12.0	34.2	0.37	72.2	0.004	1	1.77	<0.001	0.06	<0.1	6.9	0.10	0.06	47	0.3	<0.02	4.7	2.13	<0.1	0.04
1267154	Soil	9.4	15.8	0.20	94.5	0.006	2	0.85	0.002	0.04	<0.1	1.5	0.11	0.12	93	0.5	0.02	2.5	1.31	<0.1	<0.02
1267155	Soil	13.5	20.8	2.30	100.0	0.008	2	1.06	0.006	0.06	0.1	4.4	0.15	0.04	232	0.5	0.04	2.7	1.94	<0.1	<0.02
1267156	Soil	8.7	26.6	0.36	128.2	0.007	2	1.43	0.002	0.08	0.1	2.3	0.25	0.09	78	0.5	0.04	4.6	4.22	<0.1	0.02
1267157	Soil	11.3	21.8	0.49	126.7	0.005	5	1.23	0.004	0.10	0.1	2.3	0.45	0.14	315	0.8	0.07	3.1	2.18	<0.1	0.03
1267158	Soil	15.3	20.6	0.42	124.7	0.007	2	1.00	0.006	0.07	0.1	3.6	0.55	0.04	275	0.6	0.02	2.6	1.71	<0.1	0.04
1267159	Soil	16.0	22.5	0.58	169.1	0.005	3	1.35	0.004	0.05	0.1	1.7	0.28	0.13	278	0.6	0.06	3.4	0.92	<0.1	<0.02
1267160	Soil	13.5	21.3	0.85	184.5	0.009	2	1.17	0.005	0.04	0.1	3.8	0.22	0.08	328	0.8	0.06	3.7	1.07	0.1	0.03
1267161	Soil	14.7	26.7	0.69	139.7	0.009	2	1.67	0.002	0.05	0.2	3.6	0.28	0.06	326	0.4	0.05	4.1	1.32	<0.1	<0.02
1267201	Soil	9.3	15.6	4.84	73.9	0.005	3	0.98	0.007	0.05	<0.1	1.3	0.72	0.05	81	0.6	0.03	2.4	0.70	<0.1	0.02
1267202	Soil	9.4	14.8	4.76	71.7	0.005	2	0.95	0.007	0.05	<0.1	1.2	0.89	0.07	73	0.4	<0.02	2.2	0.76	<0.1	<0.02
1267203	Soil	6.9	10.5	5.95	50.2	0.002	2	0.66	0.008	0.06	<0.1	1.4	0.39	0.04	30	0.3	<0.02	1.4	1.54	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 7 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
1266667	Soil	0.36	5.8	1.2	<0.05	1.7	16.03	24.0	<0.02	<1	1.2	6.6	<10	<2
1266668	Soil	0.55	13.5	9.7	<0.05	1.2	4.60	10.7	0.03	<1	0.8	7.7	<10	<2
1266669	Soil	0.54	12.4	0.9	<0.05	1.0	6.00	12.7	0.03	<1	0.8	9.3	<10	<2
1266670	Soil	0.32	7.7	1.3	<0.05	1.8	13.38	20.8	0.03	<1	0.7	6.6	<10	<2
1266671	Soil	0.89	9.8	0.9	<0.05	0.8	5.13	22.9	0.03	<1	0.6	16.5	<10	<2
1266672	Soil	0.81	9.4	2.5	<0.05	0.5	3.75	21.7	0.03	<1	0.6	17.3	<10	<2
1266673	Soil	0.33	11.2	1.8	<0.05	1.5	4.36	21.4	0.05	<1	0.5	11.0	<10	<2
1266674	Soil	0.25	9.9	1.6	<0.05	1.4	4.09	14.0	0.05	<1	0.7	17.0	<10	<2
1266675	Soil	0.39	8.7	1.4	<0.05	2.2	17.62	36.3	0.04	<1	1.2	10.2	<10	<2
1266676	Soil	0.55	9.4	1.9	<0.05	2.5	12.46	35.7	0.03	<1	0.7	15.8	<10	<2
1266677	Soil	0.93	11.2	1.8	<0.05	0.9	4.73	29.4	0.04	<1	0.8	26.3	<10	<2
1266678	Soil	0.68	14.5	1.5	<0.05	1.8	7.61	35.1	0.04	<1	1.2	45.3	<10	<2
1266679	Soil	0.36	15.8	1.7	<0.05	5.4	3.73	38.2	0.04	<1	0.9	53.7	<10	<2
1266680	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1266681	Soil	0.53	10.5	0.8	<0.05	4.5	10.34	34.2	0.03	<1	1.1	53.6	<10	<2
1266682	Soil	0.15	3.8	0.3	<0.05	2.6	8.13	13.6	<0.02	<1	0.5	3.6	<10	<2
1267151	Soil	0.20	15.6	1.6	<0.05	<0.1	4.49	24.4	0.04	3	0.7	15.7	<10	<2
1267152	Soil	0.31	10.3	0.9	<0.05	1.3	6.66	16.5	0.04	<1	1.2	29.6	<10	<2
1267153	Soil	0.46	7.7	1.0	<0.05	1.5	13.38	34.2	0.06	<1	1.2	27.0	<10	<2
1267154	Soil	0.40	5.7	0.8	<0.05	0.7	9.79	18.6	0.03	<1	0.6	6.4	<10	<2
1267155	Soil	0.32	6.7	0.5	<0.05	0.8	11.76	27.8	0.03	<1	0.7	10.2	<10	<2
1267156	Soil	0.74	10.8	1.4	<0.05	0.7	5.99	20.2	0.03	<1	0.8	14.3	<10	<2
1267157	Soil	0.42	9.3	1.0	<0.05	1.2	18.55	23.8	0.04	<1	0.9	9.4	<10	<2
1267158	Soil	0.34	6.2	1.8	<0.05	1.2	17.56	27.3	0.03	<1	0.6	8.4	<10	<2
1267159	Soil	0.41	7.6	0.7	<0.05	0.7	29.71	36.0	0.03	<1	0.7	9.2	<10	<2
1267160	Soil	0.23	6.1	0.8	<0.05	1.2	21.90	30.9	0.92	<1	0.7	9.2	<10	<2
1267161	Soil	0.64	8.6	0.9	<0.05	1.0	17.50	45.8	0.04	<1	0.8	12.2	<10	<2
1267201	Soil	0.22	5.5	0.4	<0.05	0.8	8.69	16.6	<0.02	<1	0.7	6.9	<10	<2
1267202	Soil	0.19	5.8	0.6	<0.05	0.7	8.63	15.8	<0.02	<1	0.6	6.7	<10	<2
1267203	Soil	0.13	4.9	0.9	<0.05	0.8	7.59	11.4	0.02	<1	0.5	4.2	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
1267204	Soil		3.89	10.10	353.1	973.9	123	12.2	5.6	1617	2.50	13.3	2.7	0.8	0.7	55.5	1.77	0.55	0.23	20	8.29	0.152
1267205	Soil		1.48	9.83	178.9	660.3	83	13.7	6.3	1705	2.45	9.1	1.3	3.0	1.0	23.1	0.64	0.62	0.66	33	3.06	0.156
1267206	Soil		0.84	8.11	156.5	440.7	74	9.8	4.7	1492	1.47	6.3	1.1	2.2	0.4	36.3	0.69	0.53	0.32	23	7.91	0.151
1267207	Soil		1.26	9.37	122.5	169.9	67	12.5	5.5	759	1.48	6.3	1.0	2.6	0.9	37.7	0.44	0.52	0.21	19	8.40	0.115
1267208	Soil		3.50	11.74	162.9	437.2	75	14.5	7.4	1261	2.61	11.1	1.2	2.0	1.2	33.3	0.60	0.79	0.28	24	5.74	0.174
1267209	Soil		0.80	25.24	33.59	90.8	39	24.9	17.1	1382	3.65	8.2	0.8	2.7	2.1	7.2	0.13	0.41	0.42	31	0.09	0.062
1267210	Soil		0.97	16.90	21.98	72.6	52	15.6	9.1	705	3.09	6.4	0.8	2.2	0.5	6.9	0.13	0.45	0.37	34	0.09	0.064
1267211	Soil		0.73	15.77	18.49	79.4	81	18.0	6.9	297	2.36	4.2	0.9	2.5	1.8	31.5	0.10	0.33	0.29	26	0.46	0.067
1267212	Soil		1.24	9.35	11.25	64.4	107	13.5	4.8	237	2.08	5.4	0.7	2.1	0.4	9.4	0.17	0.44	0.28	41	0.12	0.086
1267213	Soil		1.44	16.28	20.93	76.9	28	22.1	10.2	467	3.41	8.8	0.9	2.0	1.4	8.3	0.12	0.60	0.33	47	0.10	0.055
1267214	Soil		1.19	23.22	43.31	93.7	77	24.4	13.1	767	2.99	10.5	1.4	1.9	2.4	27.9	0.17	0.37	0.33	29	0.58	0.100
1267215	Soil		1.87	21.05	22.89	103.0	116	38.7	14.3	434	3.57	4.8	0.9	2.9	3.0	66.1	0.19	0.32	0.25	30	1.26	0.102
1267216	Soil		1.51	11.30	11.04	72.2	33	22.4	8.2	194	2.67	5.1	0.8	1.2	2.5	20.1	0.14	0.40	0.23	39	0.28	0.045
1267217	Soil		3.05	14.31	18.22	77.5	57	29.8	8.5	342	2.87	6.4	0.9	2.5	1.2	19.6	0.11	0.39	0.28	42	0.26	0.103
1267218	Soil		1.43	12.50	16.08	78.2	66	21.3	8.5	345	3.02	6.7	1.1	0.7	2.3	29.0	0.08	0.40	0.28	47	0.43	0.106
1267219	Soil		1.81	13.19	14.63	77.7	40	18.4	7.4	330	2.57	7.4	0.9	1.2	1.2	6.5	0.17	0.51	0.23	38	0.59	0.081
1267220	Soil		0.89	11.90	13.49	56.8	28	18.1	8.3	308	2.60	4.9	0.6	0.4	1.9	6.4	0.09	0.43	0.25	35	0.06	0.069
1267221	Soil		1.49	9.90	12.24	57.4	78	12.3	4.7	283	1.78	5.5	1.1	0.7	0.2	8.0	0.17	0.43	0.24	44	0.14	0.091
1267222	Soil		1.29	12.49	13.50	72.4	38	16.4	6.7	200	2.75	6.5	0.8	0.7	0.8	9.4	0.11	0.48	0.30	61	0.09	0.081
1267223	Soil		1.34	9.83	17.52	54.5	22	15.5	5.6	157	2.45	6.5	0.7	0.5	0.6	15.6	0.09	0.44	0.32	57	0.22	0.058
1267224	Soil		0.42	8.76	10.47	40.3	33	15.7	7.1	288	1.93	2.0	0.5	<0.2	3.0	11.0	0.11	0.16	0.22	18	0.18	0.079
1267225	Soil		10.01	27.13	27.40	179.3	270	52.0	12.5	399	3.02	47.9	7.7	2.3	2.3	96.1	0.81	1.25	0.23	55	4.38	0.220
1267226	Soil		0.73	32.12	13.22	91.3	36	25.9	10.2	316	2.16	2.8	1.3	3.2	6.6	107.5	0.30	0.11	0.13	30	7.24	0.060
1267227	Soil		0.29	35.26	12.07	71.6	32	21.8	9.3	324	1.88	0.8	1.0	7.9	6.7	103.6	0.13	0.14	0.14	20	5.57	0.052
1267228	Soil		0.16	30.44	5.33	69.8	17	27.1	10.4	320	2.01	0.3	1.2	2.9	8.2	102.9	0.09	0.11	0.16	14	6.68	0.066
1267229	Soil		0.22	31.24	17.00	90.6	21	37.7	13.0	317	2.76	1.2	1.2	1.5	9.7	21.8	0.10	0.16	0.23	17	1.00	0.072
1267230	Soil		0.15	25.70	11.05	82.8	21	35.9	12.4	343	2.57	1.7	1.3	1.5	8.5	70.0	0.13	0.13	0.21	15	3.73	0.073
1267231	Soil		0.26	30.44	14.77	96.6	33	40.4	12.5	198	2.92	2.2	1.5	4.1	8.0	25.0	0.10	0.16	0.25	17	0.83	0.083
1267232	Soil		0.21	40.77	25.21	116.6	69	47.4	14.6	499	3.43	3.3	1.6	1.4	8.5	21.2	0.15	0.15	0.31	19	0.46	0.077
1267233	Soil		0.72	20.32	31.49	114.2	86	22.5	8.3	191	2.28	9.4	1.0	2.3	2.8	42.8	0.26	0.34	0.31	8	2.14	0.100



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 31, 2011

Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
			ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
			0.5	0.5	0.01	0.5	0.001			1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	0.02	0.1	0.02	0.1	0.02
1267204	Soil		9.3	13.4	5.71	57.4	0.004	3	0.77	0.008	0.05	<0.1	1.5	0.92	0.05	81	0.4	<0.02	1.8	0.72	<0.1	<0.02
1267205	Soil		13.2	22.2	1.60	120.7	0.006	4	1.49	0.005	0.11	<0.1	1.8	0.53	0.07	82	0.3	<0.02	4.0	1.27	<0.1	0.05
1267206	Soil		7.7	14.6	4.28	94.7	0.006	4	0.96	0.007	0.06	<0.1	0.8	0.30	0.06	46	0.5	<0.02	2.1	0.65	<0.1	0.02
1267207	Soil		7.9	15.2	4.59	63.9	0.006	5	0.95	0.007	0.09	<0.1	1.2	0.24	0.02	49	0.4	<0.02	2.2	0.71	<0.1	0.05
1267208	Soil		10.3	19.5	3.22	84.7	0.006	6	1.18	0.007	0.16	<0.1	1.7	0.96	0.05	94	0.4	0.04	3.3	0.91	<0.1	0.07
1267209	Soil		8.3	29.1	0.44	95.8	0.005	3	1.74	0.002	0.13	0.1	1.9	0.14	0.03	48	0.2	0.04	5.4	1.88	<0.1	0.03
1267210	Soil		9.0	27.0	0.26	120.0	0.005	2	1.40	0.003	0.14	<0.1	0.9	0.16	0.04	44	0.3	0.03	5.9	1.84	<0.1	<0.02
1267211	Soil		11.3	24.3	0.43	117.4	0.004	5	1.40	0.004	0.18	<0.1	1.8	0.14	0.05	14	0.3	<0.02	4.4	2.01	<0.1	0.04
1267212	Soil		10.7	26.3	0.27	105.2	0.005	3	1.49	0.003	0.13	<0.1	0.5	0.20	0.05	21	0.3	0.03	5.4	1.84	<0.1	<0.02
1267213	Soil		11.0	31.1	0.37	120.5	0.006	3	1.92	0.002	0.16	<0.1	1.5	0.20	0.03	22	0.3	0.06	6.2	2.21	<0.1	0.03
1267214	Soil		11.1	26.1	0.42	182.5	0.002	9	1.49	0.003	0.17	<0.1	2.5	0.15	0.05	18	0.3	0.04	4.6	2.20	<0.1	0.10
1267215	Soil		23.8	27.1	0.35	203.4	0.003	13	1.26	0.003	0.31	<0.1	3.9	0.32	0.06	27	0.7	0.02	3.7	2.12	<0.1	0.11
1267216	Soil		14.7	31.9	0.44	123.0	0.004	5	2.04	0.004	0.18	<0.1	1.8	0.25	<0.02	15	0.3	<0.02	5.5	2.23	<0.1	0.04
1267217	Soil		13.8	45.2	0.37	159.3	0.008	9	1.84	0.002	0.21	0.1	1.6	0.25	0.04	14	0.5	0.04	5.7	2.93	<0.1	0.03
1267218	Soil		14.2	34.7	0.45	206.4	0.009	8	2.11	0.002	0.23	0.1	2.3	0.29	0.04	17	0.3	0.04	6.2	3.24	<0.1	0.07
1267219	Soil		13.5	24.9	0.53	92.9	0.003	3	1.40	0.001	0.16	<0.1	1.1	0.24	0.04	17	0.3	<0.02	4.9	1.67	<0.1	<0.02
1267220	Soil		17.7	27.9	0.41	100.1	0.005	4	1.78	<0.001	0.18	<0.1	1.5	0.18	0.03	11	0.2	0.03	5.4	2.11	<0.1	0.04
1267221	Soil		12.5	24.3	0.24	114.2	0.004	4	1.27	0.002	0.15	<0.1	0.4	0.22	0.06	29	0.2	0.03	5.1	1.96	<0.1	<0.02
1267222	Soil		14.5	35.6	0.37	147.7	0.006	4	2.33	<0.001	0.21	<0.1	1.2	0.45	0.04	28	0.4	0.04	9.0	5.44	<0.1	0.03
1267223	Soil		13.8	25.8	0.28	160.2	0.006	1	1.57	0.001	0.10	<0.1	1.0	0.26	0.03	20	0.3	<0.02	7.7	2.12	<0.1	<0.02
1267224	Soil		19.1	20.7	0.39	113.5	0.002	5	1.23	0.001	0.22	<0.1	1.6	0.13	0.03	18	0.1	<0.02	3.7	2.15	<0.1	0.04
1267225	Soil		11.2	21.7	1.82	202.9	0.005	16	1.19	0.007	0.31	<0.1	2.8	1.36	0.08	80	1.4	0.04	3.4	5.09	<0.1	0.13
1267226	Soil		23.5	46.6	3.52	39.7	0.003	3	2.17	0.004	0.16	<0.1	3.8	0.12	<0.02	17	0.7	<0.02	6.1	2.42	<0.1	0.14
1267227	Soil		24.4	33.8	2.95	256.8	0.003	3	1.40	0.004	0.14	<0.1	3.1	0.08	<0.02	17	0.9	<0.02	4.4	1.86	<0.1	0.10
1267228	Soil		28.9	30.4	2.18	124.5	0.004	4	1.23	0.004	0.15	<0.1	3.4	0.07	<0.02	7	0.2	<0.02	3.8	1.91	<0.1	0.13
1267229	Soil		33.5	40.0	1.63	121.8	0.004	4	1.63	0.002	0.16	<0.1	4.5	0.08	<0.02	18	0.3	<0.02	4.8	1.53	<0.1	0.13
1267230	Soil		22.0	34.5	1.42	105.0	0.004	4	1.48	0.003	0.15	<0.1	3.4	0.07	<0.02	9	0.2	0.03	4.6	2.24	<0.1	0.11
1267231	Soil		24.9	39.4	1.38	116.3	0.004	4	1.63	0.002	0.15	<0.1	4.5	0.08	0.02	33	0.4	<0.02	5.1	2.01	<0.1	0.14
1267232	Soil		17.5	44.7	1.26	69.3	0.004	6	1.88	0.001	0.18	<0.1	5.3	0.10	0.02	30	0.3	0.02	6.1	3.01	<0.1	0.15
1267233	Soil		6.9	11.3	0.30	73.4	0.001	8	0.57	0.005	0.17	<0.1	2.5	0.21	0.12	98	0.6	0.06	1.5	1.87	<0.1	0.09



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
1267204	Soil	0.15	4.3	0.6	<0.05	0.8	9.16	15.2	<0.02	<1	0.5	5.6	<10	<2
1267205	Soil	0.36	13.0	1.2	<0.05	1.1	10.80	25.3	0.03	1	0.7	10.5	<10	<2
1267206	Soil	0.21	6.7	0.6	<0.05	0.6	6.70	16.2	<0.02	1	0.5	6.9	<10	<2
1267207	Soil	0.20	7.7	0.8	<0.05	1.2	6.58	18.1	<0.02	1	0.6	9.2	<10	<2
1267208	Soil	0.28	9.9	0.6	<0.05	1.9	9.57	21.7	0.02	1	0.7	12.3	<10	<2
1267209	Soil	0.35	14.6	1.0	<0.05	0.8	5.32	27.5	0.03	<1	0.9	30.9	<10	<2
1267210	Soil	0.32	17.0	1.1	<0.05	0.5	4.06	22.4	0.02	<1	0.5	14.7	<10	<2
1267211	Soil	0.41	18.3	3.4	<0.05	1.1	5.79	30.0	0.03	<1	0.9	23.6	<10	<2
1267212	Soil	0.28	18.7	1.5	<0.05	0.4	3.17	25.9	0.03	<1	0.4	12.9	<10	<2
1267213	Soil	0.51	17.3	1.6	<0.05	0.5	4.27	33.2	0.03	1	0.8	21.2	<10	<2
1267214	Soil	0.35	17.5	3.7	<0.05	2.9	8.22	26.6	0.03	2	1.1	30.4	<10	<2
1267215	Soil	0.32	19.7	2.4	<0.05	6.2	15.14	56.3	0.05	1	1.4	13.3	<10	<2
1267216	Soil	0.43	19.7	1.3	<0.05	1.4	4.50	37.6	<0.02	1	0.8	19.6	<10	<2
1267217	Soil	0.35	24.8	3.1	<0.05	1.0	5.97	35.9	<0.02	2	0.8	16.0	<10	<2
1267218	Soil	0.50	29.3	1.4	<0.05	2.7	5.54	35.7	0.03	<1	1.0	18.8	<10	<2
1267219	Soil	0.38	19.2	1.4	<0.05	1.1	4.41	36.4	0.04	<1	0.6	12.8	<10	<2
1267220	Soil	0.32	19.8	1.0	<0.05	0.8	4.63	48.2	0.03	1	0.8	18.8	<10	<2
1267221	Soil	0.28	18.6	2.8	<0.05	0.3	1.98	27.6	0.03	1	0.4	10.6	<10	<2
1267222	Soil	0.64	24.2	1.1	<0.05	0.7	3.80	35.5	0.03	<1	0.6	17.5	<10	<2
1267223	Soil	0.63	12.2	1.4	<0.05	0.3	3.99	32.8	<0.02	<1	0.5	14.1	<10	<2
1267224	Soil	0.24	17.6	0.7	<0.05	1.2	5.40	60.7	0.03	<1	0.8	15.7	<10	<2
1267225	Soil	0.44	19.6	1.2	<0.05	4.9	11.64	26.1	0.03	3	1.1	11.3	<10	<2
1267226	Soil	0.06	11.9	1.5	<0.05	6.0	10.83	48.8	0.03	<1	1.0	42.1	<10	<2
1267227	Soil	0.05	9.3	0.4	<0.05	6.4	11.30	52.1	0.03	<1	0.8	29.8	<10	<2
1267228	Soil	0.08	8.6	0.5	<0.05	7.6	10.89	58.5	0.02	<1	0.8	25.6	<10	<2
1267229	Soil	0.08	9.9	1.0	<0.05	6.0	13.46	65.9	0.04	<1	1.2	33.9	<10	<2
1267230	Soil	0.06	9.3	0.5	<0.05	6.3	10.47	46.7	0.02	<1	0.9	32.1	<10	<2
1267231	Soil	0.16	9.5	1.4	<0.05	6.0	15.21	51.0	0.02	<1	0.9	36.8	<10	<2
1267232	Soil	0.13	11.5	0.7	<0.05	6.5	15.18	40.7	0.04	<1	1.1	46.9	<10	<2
1267233	Soil	0.10	8.4	1.1	<0.05	4.1	9.05	16.9	0.03	<1	0.7	5.3	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1267234	Soil	1.19	26.86	27.87	79.3	127	20.1	7.6	202	2.54	9.0	0.8	1.0	2.7	32.4	0.21	0.36	0.30	15	1.55	0.076
1267235	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1267236	Soil	3.32	42.83	30.28	131.3	157	35.0	12.4	374	3.82	12.0	1.1	0.8	5.9	32.2	0.45	0.80	0.34	21	0.35	0.060
1267237	Soil	1.95	39.72	17.70	61.6	191	29.3	11.5	327	3.06	7.5	1.5	1.0	3.8	22.8	0.14	0.50	0.29	24	0.38	0.080
1267238	Soil	1.45	33.00	17.17	62.9	249	22.8	9.7	304	2.74	6.0	1.0	1.3	3.0	21.7	0.18	0.44	0.27	26	0.86	0.078
1267239	Soil	1.03	30.06	20.31	93.0	53	23.1	11.1	236	3.57	6.6	0.5	0.6	1.9	14.5	0.15	0.38	0.26	29	0.28	0.069
1267240	Soil	0.93	51.48	27.37	107.6	74	34.3	21.1	502	4.81	8.7	0.6	0.4	3.3	16.7	0.20	0.50	0.29	34	0.17	0.050
1267255	Soil	1.23	48.99	29.60	62.5	104	14.7	8.2	608	2.79	11.5	1.9	6.9	2.2	9.8	0.08	0.38	0.43	37	0.10	0.112
1267256	Soil	1.17	18.64	33.32	100.0	33	19.5	12.7	1000	3.08	10.2	0.8	4.5	3.0	8.3	0.19	0.58	0.38	41	0.07	0.054
1267257	Soil	2.12	125.6	38.12	82.5	254	24.4	17.7	2388	2.97	20.9	2.1	4.9	3.9	11.1	0.16	0.55	1.02	39	0.09	0.062
1267258	Soil	1.09	29.44	30.99	91.0	58	21.2	11.7	907	3.00	9.7	1.0	4.1	2.3	8.6	0.11	0.60	0.42	40	0.07	0.053
1267259	Soil	0.96	14.40	44.60	88.6	16	28.9	22.1	1816	4.34	15.1	1.3	2.5	6.3	7.0	0.05	0.42	0.73	34	0.05	0.040
1267260	Soil	0.66	22.42	48.43	114.2	12	27.8	17.6	1534	3.67	8.5	0.9	2.1	5.0	7.5	0.08	0.33	0.41	33	0.07	0.024
1267261	Soil	0.67	23.00	37.07	108.6	30	24.4	16.9	1311	3.65	6.6	0.9	2.5	3.9	7.8	0.11	0.34	0.39	37	0.07	0.034
1267262	Soil	0.90	9.03	24.59	53.6	9	11.6	11.1	600	3.09	6.1	0.6	1.2	4.5	7.4	0.10	0.37	0.37	44	0.05	0.018
1267263	Soil	0.68	31.98	56.99	125.1	13	31.3	18.7	1310	3.73	7.8	1.0	1.5	5.8	8.0	0.09	0.38	0.39	32	0.07	0.022
1267264	Soil	0.81	10.57	26.13	57.8	41	14.4	14.2	502	3.57	6.5	1.0	2.0	4.9	7.3	0.07	0.42	0.38	41	0.03	0.026
1267265	Soil	0.83	18.58	33.71	80.4	33	23.2	26.4	1450	4.01	9.4	1.0	2.5	3.9	5.5	0.12	0.44	0.48	35	0.07	0.060
1267266	Soil	1.81	12.88	20.40	70.6	28	18.6	8.1	413	4.03	13.0	0.7	2.5	4.1	8.5	0.11	0.86	0.37	58	0.07	0.051
1267267	Soil	1.26	79.22	16.98	62.1	123	16.8	15.9	2558	3.39	6.9	1.0	1.2	2.1	5.4	0.11	0.59	0.31	43	0.03	0.055
1267268	Soil	0.83	31.45	24.95	73.6	41	17.5	9.5	976	3.21	5.2	1.2	2.2	0.9	8.9	0.26	0.45	0.36	40	0.09	0.057
1267269	Soil	1.16	15.29	348.0	1904	34	16.0	6.3	491	2.73	10.5	1.1	2.5	1.9	9.3	1.48	0.46	0.31	28	0.73	0.099
1267270	Soil	1.58	9.08	833.8	5769	161	8.2	5.9	2621	2.19	9.1	1.1	1.7	0.4	21.9	15.39	0.34	0.19	23	6.46	0.141
1267271	Soil	0.56	2.20	1194	468.2	46	3.4	1.7	772	0.75	2.7	0.5	<0.2	0.2	42.9	1.25	0.11	0.02	6	18.19	0.072
1267272	Soil	2.13	12.24	70.97	425.5	46	15.6	10.0	2444	2.87	14.6	1.1	1.1	1.3	31.3	0.65	0.49	0.17	35	8.41	0.116
1267273	Soil	1.42	13.17	103.7	978.7	54	20.4	8.1	2599	4.34	11.6	1.5	0.6	1.7	10.3	1.90	0.46	0.27	43	0.71	0.115
1267274	Soil	2.05	14.64	177.5	1612	97	22.4	9.9	1537	5.20	14.0	2.1	39.3	2.1	12.4	1.15	0.58	0.27	44	0.63	0.088
1267275	Soil	0.68	6.40	22.19	175.2	70	9.0	4.7	2014	1.63	5.9	2.2	<0.2	0.4	30.0	0.68	0.37	0.08	24	9.64	0.106
1267276	Soil	2.25	17.05	281.4	987.5	167	19.4	9.1	1716	6.45	13.2	2.1	2.0	2.8	12.1	1.57	0.49	0.24	37	1.24	0.089
1267277	Soil	1.30	16.28	77.03	411.5	135	18.2	6.2	1453	3.83	8.1	1.3	1.7	2.8	34.5	0.88	0.52	0.17	30	5.53	0.088



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267234	Soil	7.2	14.3	0.35	75.8	0.001	5	0.88	0.004	0.14	<0.1	2.4	0.13	0.11	110	0.7	<0.02	2.7	0.97	<0.1	0.09
1267235	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1267236	Soil	12.6	12.0	0.19	67.5	0.003	4	0.63	0.002	0.12	<0.1	5.7	0.21	0.03	151	0.7	0.06	1.9	1.91	<0.1	0.05
1267237	Soil	8.7	19.0	0.27	115.3	0.002	6	1.07	0.003	0.17	<0.1	4.9	0.20	0.06	105	0.5	0.06	3.2	2.27	<0.1	0.06
1267238	Soil	3.9	16.6	0.27	145.7	<0.001	2	1.13	0.003	0.12	<0.1	4.6	0.21	0.07	81	0.5	0.04	3.4	1.40	<0.1	0.12
1267239	Soil	5.7	16.2	0.20	63.8	<0.001	1	0.94	0.002	0.10	<0.1	2.9	0.12	0.04	24	0.3	0.06	3.2	1.32	<0.1	0.03
1267240	Soil	7.5	22.0	0.32	87.6	0.002	2	1.31	0.002	0.10	<0.1	4.8	0.14	0.02	39	0.4	0.06	4.0	2.60	<0.1	0.03
1267255	Soil	8.0	27.7	0.30	178.7	0.004	1	1.67	0.003	0.09	0.2	3.2	0.22	0.04	36	0.2	0.04	6.0	3.42	<0.1	0.04
1267256	Soil	10.8	26.2	0.36	100.6	0.009	1	1.56	0.002	0.07	0.2	2.1	0.18	<0.02	22	0.2	0.03	5.1	1.86	<0.1	0.02
1267257	Soil	11.1	29.0	0.43	174.0	0.010	2	1.61	0.004	0.08	0.2	3.0	0.11	<0.02	39	0.3	0.03	5.2	2.64	<0.1	0.04
1267258	Soil	10.7	27.4	0.36	144.2	0.009	2	1.62	0.002	0.08	0.2	2.4	0.18	0.03	43	0.2	0.03	5.0	1.89	<0.1	<0.02
1267259	Soil	4.8	32.7	0.49	190.7	0.007	2	1.76	0.003	0.11	0.2	4.6	0.14	<0.02	20	<0.1	0.05	5.4	4.39	<0.1	0.03
1267260	Soil	7.7	29.0	0.45	153.5	0.004	1	1.91	0.001	0.12	0.1	4.1	0.17	<0.02	27	<0.1	0.02	5.5	1.75	<0.1	0.03
1267261	Soil	6.2	31.0	0.40	157.0	0.004	1	1.97	0.003	0.13	0.1	3.9	0.18	0.02	27	0.2	0.05	6.7	2.10	<0.1	0.03
1267262	Soil	9.7	21.5	0.21	115.5	0.008	<1	1.45	0.002	0.08	0.1	2.2	0.18	<0.02	<5	<0.1	0.04	6.8	1.62	<0.1	0.02
1267263	Soil	12.0	29.1	0.46	186.1	0.004	2	1.80	0.002	0.13	<0.1	5.0	0.16	<0.02	25	<0.1	0.03	5.2	1.59	<0.1	0.05
1267264	Soil	4.1	28.1	0.23	170.2	0.006	<1	1.60	0.004	0.14	0.1	2.6	0.16	<0.02	28	0.1	0.04	7.4	3.05	<0.1	<0.02
1267265	Soil	3.7	33.2	0.39	71.8	0.007	1	1.65	0.005	0.14	0.2	2.8	0.10	0.02	23	0.3	0.07	5.6	2.99	<0.1	0.03
1267266	Soil	10.2	35.6	0.39	63.1	0.042	2	1.63	<0.001	0.10	0.3	2.2	0.11	<0.02	39	0.4	0.07	7.5	2.11	<0.1	<0.02
1267267	Soil	5.9	29.3	0.20	89.6	0.010	2	1.55	0.002	0.14	0.1	2.7	0.14	0.03	48	0.5	0.05	5.8	2.40	<0.1	<0.02
1267268	Soil	8.2	22.5	0.15	136.8	0.007	2	1.13	<0.001	0.13	0.1	2.8	0.12	0.04	31	0.2	0.07	4.9	2.90	<0.1	<0.02
1267269	Soil	7.4	19.7	0.40	215.7	0.005	2	1.16	0.001	0.09	<0.1	2.9	0.47	0.06	41	0.3	0.04	3.6	1.23	<0.1	0.05
1267270	Soil	7.0	14.7	3.12	738.3	0.008	5	1.04	0.007	0.04	<0.1	1.0	0.39	0.13	647	0.5	0.03	3.5	0.74	<0.1	0.02
1267271	Soil	2.6	4.3	10.87	14.8	0.004	<1	0.20	0.008	0.01	<0.1	0.3	0.06	<0.02	219	0.3	0.03	0.6	0.15	0.1	0.02
1267272	Soil	17.8	22.6	4.39	125.2	0.008	4	1.45	0.008	0.06	0.1	2.3	0.38	<0.02	47	0.4	0.05	3.3	0.85	<0.1	0.04
1267273	Soil	13.3	27.7	0.60	168.0	0.006	2	2.12	0.002	0.08	0.1	2.6	0.40	0.04	37	0.2	0.03	5.0	1.51	<0.1	0.03
1267274	Soil	16.4	28.4	0.58	169.9	0.012	1	1.76	0.004	0.07	0.1	3.1	1.36	0.04	75	0.4	0.04	4.8	1.48	<0.1	0.03
1267275	Soil	6.4	12.5	5.07	59.8	0.007	2	0.82	0.008	0.03	<0.1	0.8	0.13	0.02	43	0.3	0.02	1.7	0.42	<0.1	<0.02
1267276	Soil	13.7	23.3	0.70	198.1	0.004	2	1.59	0.002	0.07	<0.1	3.5	0.97	0.04	71	0.4	0.03	4.2	0.77	<0.1	0.06
1267277	Soil	9.5	16.9	2.97	124.5	0.014	3	0.99	0.009	0.09	0.1	2.6	0.52	0.06	48	0.4	0.02	2.6	0.73	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 9 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt	7TD Zn
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
1267234	Soil			0.13	7.6	1.8	<0.05	3.5	9.36	19.7	0.02	<1	0.8	13.5	<10	<2	
1267235	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
1267236	Soil			0.11	7.2	0.8	<0.05	2.6	14.36	27.9	0.05	<1	0.9	7.1	<10	<2	
1267237	Soil			0.23	10.7	1.3	<0.05	2.4	18.31	20.8	0.04	<1	1.0	12.8	<10	<2	
1267238	Soil			0.22	8.6	1.2	<0.05	3.6	9.38	8.7	0.04	1	0.8	12.1	<10	<2	
1267239	Soil			0.18	10.2	0.7	<0.05	0.9	4.32	14.6	0.03	<1	0.6	10.5	<10	<2	
1267240	Soil			0.13	10.2	0.7	<0.05	1.5	8.34	19.7	0.04	1	0.8	19.6	<10	<2	
1267255	Soil			0.52	15.5	1.2	<0.05	0.8	8.00	22.2	0.05	<1	1.2	16.4	<10	<2	
1267256	Soil			0.60	13.0	0.9	<0.05	0.5	4.02	23.3	0.04	<1	0.6	19.0	<10	<2	
1267257	Soil			0.47	11.2	4.3	<0.05	1.0	5.60	25.5	0.06	<1	0.9	20.4	<10	2	
1267258	Soil			0.58	12.3	1.0	<0.05	0.4	5.88	25.1	0.03	<1	1.1	20.0	<10	<2	
1267259	Soil			0.36	12.9	2.8	<0.05	1.0	6.57	17.0	0.04	<1	1.8	30.0	<10	<2	
1267260	Soil			0.30	14.4	1.4	<0.05	1.0	9.10	19.3	0.05	<1	1.5	26.3	<10	<2	
1267261	Soil			0.39	18.4	2.3	<0.05	0.9	6.84	14.9	0.04	<1	1.3	27.7	<10	<2	
1267262	Soil			0.63	18.8	1.0	<0.05	1.4	3.41	19.1	0.02	<1	0.4	13.1	<10	<2	
1267263	Soil			0.24	13.9	1.3	<0.05	1.7	13.16	25.4	0.03	<1	1.7	24.5	<10	<2	
1267264	Soil			0.69	26.1	1.5	<0.05	1.0	4.31	8.3	0.03	<1	0.8	17.6	<10	<2	
1267265	Soil			0.57	14.3	4.6	<0.05	0.7	4.50	10.0	0.04	<1	1.2	18.8	<10	<2	
1267266	Soil			1.56	11.8	1.3	<0.05	1.0	2.72	20.1	0.05	<1	0.6	22.0	15	<2	
1267267	Soil			0.58	17.9	1.4	<0.05	0.1	3.71	12.4	0.05	<1	0.7	12.1	<10	<2	
1267268	Soil			0.65	19.3	2.9	<0.05	0.2	14.40	17.5	0.04	<1	1.9	8.9	<10	<2	
1267269	Soil			0.55	14.6	0.7	<0.05	1.4	5.85	13.0	0.03	<1	0.9	11.6	<10	<2	
1267270	Soil			0.30	7.1	0.6	<0.05	0.6	7.19	15.7	0.03	<1	0.4	5.7	<10	<2	
1267271	Soil			0.07	2.4	1.2	<0.05	0.4	2.96	4.6	<0.02	1	0.1	1.9	<10	<2	
1267272	Soil			0.29	8.0	4.2	<0.05	1.0	12.88	29.3	0.03	1	0.9	10.5	<10	<2	
1267273	Soil			0.42	14.0	1.1	<0.05	0.9	9.63	27.2	0.04	<1	1.2	16.5	<10	<2	
1267274	Soil			0.49	13.3	0.8	<0.05	0.7	11.07	31.3	0.03	<1	1.0	14.6	<10	<2	
1267275	Soil			0.15	4.7	0.5	<0.05	0.6	7.63	11.2	<0.02	<1	0.5	5.2	<10	<2	
1267276	Soil			0.30	9.3	0.5	<0.05	2.0	13.14	20.3	0.02	<1	1.0	14.5	<10	<2	
1267277	Soil			0.35	8.1	0.8	<0.05	1.1	9.98	17.9	0.02	<1	0.5	9.2	<10	<2	



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1267278	Soil			1.34	19.12	38.35	266.1	22	18.6	11.4	506	4.06	10.2	0.5	1.5	2.8	9.7	0.28	0.58	0.28	42	0.15	0.038
1267279	Soil			1.30	20.16	83.41	369.8	228	19.9	7.9	798	3.29	7.3	2.3	2.3	1.3	24.7	1.14	0.44	0.27	39	0.86	0.126
1267280	Soil			1.09	15.04	23.24	109.0	45	14.9	7.1	324	2.82	7.7	0.7	1.8	1.8	9.5	0.42	0.29	0.27	36	0.15	0.039
1267281	Soil			0.95	17.31	42.89	106.8	28	32.2	14.0	342	4.33	11.4	0.9	1.9	4.3	24.2	0.35	0.59	0.26	39	0.20	0.045
1267282	Soil			0.56	23.77	51.35	68.5	205	30.9	12.0	388	3.27	9.6	2.6	1.2	2.0	104.2	0.26	0.57	0.29	21	1.39	0.053
1267283	Soil			0.44	33.47	51.93	92.2	221	38.4	11.6	190	3.47	8.4	1.0	1.7	5.2	85.2	0.11	0.51	0.34	17	1.09	0.029
1267284	Soil			0.93	14.97	23.48	112.2	186	16.0	7.6	856	4.11	12.8	2.6	<0.2	1.7	77.7	0.90	0.29	0.24	35	2.94	0.111
1267285	Soil			0.60	21.59	16.53	96.3	216	18.4	6.4	233	1.89	7.7	10.1	3.1	0.9	83.2	0.61	0.30	0.18	31	2.18	0.081
1267286	Soil			0.38	19.95	12.79	65.8	72	22.4	9.0	340	2.38	4.9	3.3	2.9	3.3	51.3	0.29	0.26	0.18	40	1.09	0.041
1267287	Soil			0.50	33.29	20.90	73.8	88	27.9	12.2	387	2.54	6.8	3.0	6.4	5.0	47.6	0.29	0.32	0.21	40	1.04	0.042
1267288	Soil			0.38	29.32	13.38	60.4	87	22.3	9.6	387	2.15	5.0	2.5	4.9	2.8	67.5	0.24	0.26	0.17	34	1.42	0.051
1267289	Soil			0.57	24.90	14.69	71.7	105	23.2	9.3	284	2.17	5.3	1.9	4.9	3.3	65.9	0.27	0.32	0.17	34	1.32	0.048
1267290	Soil			0.43	29.32	17.13	71.7	94	21.7	11.3	533	2.14	5.3	3.2	4.8	2.6	74.6	0.24	0.29	0.19	32	1.60	0.048
1267291	Soil			0.57	32.91	15.66	65.4	127	17.9	8.0	421	1.89	4.7	9.9	6.4	1.5	93.1	0.29	0.41	0.25	28	2.06	0.070
1267292	Soil			0.58	26.10	17.64	70.2	123	15.0	7.6	455	1.86	4.9	5.9	4.0	1.0	112.6	0.40	0.42	0.30	21	2.70	0.066
1267293	Soil			0.69	24.02	26.07	85.5	72	25.5	13.9	654	3.34	9.0	1.9	2.8	4.6	34.7	0.20	0.42	0.30	30	0.64	0.030
1267921	Soil			0.43	8.31	11.27	86.4	35	28.4	10.6	368	2.68	2.7	1.1	5.6	5.4	17.2	0.15	0.34	0.15	25	0.37	0.053
1267922	Soil			0.34	7.59	9.15	85.9	37	25.2	9.2	255	2.35	1.7	1.4	4.1	3.5	29.6	0.20	0.28	0.17	20	0.83	0.077
1267923	Soil			0.27	13.74	7.06	87.0	30	24.5	8.8	181	2.28	1.4	1.1	4.5	4.2	15.7	0.15	0.25	0.13	22	0.41	0.061
1267924	Soil			0.29	42.69	20.44	102.0	39	28.2	10.1	212	2.71	2.2	1.3	8.6	4.8	18.5	0.18	0.21	0.15	31	0.52	0.071
1267925	Soil			0.23	31.92	13.50	84.0	52	24.0	8.9	180	2.34	4.4	0.8	11.7	4.9	15.8	0.22	0.17	0.14	29	0.40	0.043
1267926	Soil			0.33	35.72	14.01	93.8	64	27.8	10.7	222	2.61	2.3	1.0	6.8	5.9	28.1	0.12	0.17	0.16	31	1.31	0.072
1267927	Soil			0.26	32.99	14.51	91.7	48	26.7	9.7	245	2.53	2.8	1.1	5.4	6.1	45.3	0.19	0.16	0.12	31	2.19	0.065
1267928	Soil			0.34	35.45	13.77	96.6	64	28.6	11.0	295	2.64	4.3	1.1	7.3	5.5	19.1	0.21	0.21	0.15	36	0.66	0.062
1267929	Soil			1.17	22.05	21.87	84.0	350	20.5	6.9	137	2.21	12.5	4.0	6.5	3.3	49.0	0.27	0.57	0.17	27	0.71	0.095
1267930	Soil			1.15	10.51	20.33	110.7	260	9.6	4.6	441	1.57	6.1	3.0	2.4	0.8	48.1	0.44	0.42	0.11	16	1.25	0.103
1267931	Soil			0.97	16.57	34.23	128.0	75	20.6	8.6	605	3.01	8.3	1.8	2.7	1.8	11.9	0.22	0.52	0.21	37	0.26	0.085
1267932	Soil			1.16	14.06	28.64	113.6	147	14.9	7.1	501	2.75	7.5	1.8	1.7	1.1	12.3	0.15	0.51	0.23	40	0.18	0.085
1267933	Soil			1.25	11.98	36.65	133.3	67	20.6	9.1	500	3.12	9.1	1.5	1.5	2.0	14.7	0.14	0.50	0.25	37	0.21	0.074
1267934	Soil			1.10	12.26	43.32	246.9	81	15.4	7.9	671	2.91	8.8	1.7	1.3	1.8	17.4	0.51	0.40	0.23	27	0.37	0.106



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267278	Soil	8.3	22.8	0.36	73.3	0.005	2	1.37	0.002	0.10	<0.1	2.2	0.24	<0.02	10	0.2	0.05	4.7	1.63	<0.1	<0.02
1267279	Soil	12.4	25.0	0.44	172.1	0.008	1	1.64	0.004	0.07	0.1	2.7	0.40	0.07	90	0.6	0.04	4.8	1.52	<0.1	0.03
1267280	Soil	6.2	16.9	0.18	103.2	0.002	1	1.27	<0.001	0.08	<0.1	1.6	0.15	<0.02	22	0.2	0.04	4.3	1.15	<0.1	<0.02
1267281	Soil	9.5	23.4	0.34	137.7	0.005	2	1.82	0.002	0.09	<0.1	2.5	0.17	<0.02	16	0.2	0.05	4.1	1.50	<0.1	0.03
1267282	Soil	11.6	14.5	0.17	66.5	0.002	2	0.76	0.002	0.06	<0.1	3.1	0.11	0.05	68	0.5	0.07	2.0	0.65	<0.1	0.03
1267283	Soil	9.4	14.9	0.28	58.5	<0.001	3	1.05	0.002	0.08	<0.1	6.3	0.21	0.03	72	0.6	0.06	2.9	1.26	<0.1	0.07
1267284	Soil	23.2	22.1	0.78	192.4	0.003	2	1.17	0.005	0.04	<0.1	2.9	0.12	0.07	86	0.5	0.10	2.4	0.30	<0.1	0.08
1267285	Soil	20.4	24.2	0.53	99.6	0.007	7	1.12	0.008	0.11	<0.1	1.9	0.13	0.07	73	0.7	<0.02	3.5	0.98	<0.1	0.07
1267286	Soil	21.2	35.7	1.49	143.2	0.010	5	1.90	0.002	0.17	<0.1	3.9	0.14	0.03	42	0.4	0.02	6.3	1.91	<0.1	0.10
1267287	Soil	29.9	39.7	1.73	158.2	0.010	4	1.95	0.002	0.12	<0.1	6.0	0.16	0.03	58	0.4	<0.02	6.3	1.90	<0.1	0.13
1267288	Soil	25.8	35.6	1.59	183.6	0.008	4	1.68	0.002	0.11	<0.1	4.4	0.12	0.05	57	0.6	<0.02	5.5	1.47	<0.1	0.09
1267289	Soil	21.2	37.8	1.47	207.0	0.009	4	1.68	0.003	0.10	<0.1	4.5	0.13	0.04	52	0.6	<0.02	5.3	1.46	<0.1	0.10
1267290	Soil	18.9	33.2	1.17	244.0	0.008	3	1.52	0.003	0.07	<0.1	4.0	0.12	0.06	74	0.9	<0.02	4.7	1.06	<0.1	0.09
1267291	Soil	13.4	28.1	0.84	276.3	0.007	5	1.33	0.004	0.06	<0.1	3.2	0.13	0.09	91	1.2	0.03	3.8	1.04	<0.1	0.07
1267292	Soil	7.3	18.0	0.47	179.7	0.004	4	1.08	0.003	0.05	<0.1	1.7	0.09	0.09	77	0.9	<0.02	2.7	0.74	<0.1	0.06
1267293	Soil	10.9	26.1	0.61	137.6	0.001	2	1.62	0.002	0.08	<0.1	3.4	0.11	<0.02	42	0.3	0.06	4.2	1.38	<0.1	0.06
1267921	Soil	27.9	37.9	1.65	494.4	0.005	3	1.72	0.003	0.09	<0.1	4.4	0.09	0.03	15	0.1	0.04	5.0	1.19	<0.1	0.09
1267922	Soil	26.3	34.3	1.53	357.7	0.006	4	1.56	0.003	0.10	<0.1	4.2	0.09	0.06	27	0.3	0.02	4.5	1.51	<0.1	0.11
1267923	Soil	29.0	37.2	1.94	169.3	0.005	4	1.79	0.002	0.12	<0.1	4.2	0.09	0.03	23	0.2	0.03	4.9	1.50	<0.1	0.10
1267924	Soil	30.5	51.0	2.70	219.0	0.004	4	2.28	0.002	0.11	<0.1	5.4	0.09	0.04	225	0.5	0.02	6.6	1.00	<0.1	0.17
1267925	Soil	28.6	43.5	2.28	52.6	0.006	4	1.86	0.001	0.10	<0.1	4.7	0.09	0.03	21	0.7	<0.02	5.4	1.36	<0.1	0.15
1267926	Soil	29.8	50.3	2.86	86.5	0.005	5	2.02	0.003	0.12	<0.1	5.2	0.10	0.02	19	1.0	<0.02	5.9	1.74	<0.1	0.16
1267927	Soil	27.4	48.2	2.90	64.9	0.004	4	1.95	0.002	0.14	<0.1	4.5	0.11	<0.02	35	0.6	<0.02	6.0	1.12	<0.1	0.14
1267928	Soil	29.7	48.3	1.87	80.6	0.006	5	1.77	0.001	0.17	<0.1	4.6	0.12	<0.02	26	0.4	<0.02	5.6	1.31	<0.1	0.12
1267929	Soil	21.5	20.0	0.34	66.8	0.006	4	0.99	0.004	0.16	<0.1	2.7	0.26	0.03	103	0.4	<0.02	2.8	0.81	<0.1	0.14
1267930	Soil	12.8	10.3	0.13	71.0	0.002	2	0.48	0.003	0.05	<0.1	1.0	0.15	0.07	78	0.4	<0.02	1.1	0.41	<0.1	0.04
1267931	Soil	32.5	31.7	0.64	112.5	0.004	2	1.68	0.001	0.12	<0.1	2.4	0.22	0.04	45	0.3	0.04	4.3	1.19	<0.1	0.03
1267932	Soil	13.1	26.9	0.42	141.1	0.004	2	1.58	0.001	0.12	<0.1	1.3	0.22	0.05	25	0.2	0.03	5.3	1.65	<0.1	0.03
1267933	Soil	13.1	26.1	0.37	153.1	0.004	3	1.73	0.002	0.10	<0.1	2.0	0.20	0.03	27	0.3	0.05	4.2	1.25	<0.1	0.04
1267934	Soil	11.7	20.8	0.26	101.7	0.003	4	1.16	0.002	0.13	<0.1	2.1	0.28	0.05	30	0.2	0.04	3.3	0.96	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 10 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1267278	Soil	0.41	15.7	0.7	<0.05	0.7	2.47	17.4	0.02	<1	0.5	22.2	<10	<2
1267279	Soil	0.52	12.9	1.4	<0.05	1.1	10.40	22.5	0.04	<1	0.8	17.7	<10	<2
1267280	Soil	0.35	13.3	0.8	<0.05	0.4	2.61	13.3	0.03	<1	0.4	12.2	<10	<2
1267281	Soil	0.55	13.0	0.6	<0.05	1.5	3.96	22.7	0.04	<1	0.8	28.3	<10	<2
1267282	Soil	0.26	6.0	4.1	<0.05	1.5	14.81	33.1	0.04	<1	0.9	8.5	<10	<2
1267283	Soil	0.14	8.2	1.9	<0.05	3.5	17.42	19.3	0.04	<1	1.2	19.1	<10	<2
1267284	Soil	0.34	5.6	1.9	<0.05	2.7	20.00	40.6	0.03	1	1.5	11.5	<10	<2
1267285	Soil	0.41	12.7	0.8	<0.05	3.0	10.65	29.1	0.03	<1	0.8	26.5	<10	<2
1267286	Soil	0.51	20.4	1.3	<0.05	4.3	9.58	47.8	0.03	<1	0.9	41.0	<10	<2
1267287	Soil	0.63	15.5	6.8	<0.05	5.3	17.73	56.6	0.05	<1	1.3	44.8	<10	<2
1267288	Soil	0.49	14.0	1.6	<0.05	4.1	16.29	48.9	0.04	<1	1.0	39.1	<10	<2
1267289	Soil	0.58	13.6	2.1	<0.05	4.3	13.39	42.8	0.03	<1	0.8	41.9	<10	<2
1267290	Soil	0.58	9.6	1.7	<0.05	3.9	13.45	40.9	0.03	<1	0.9	37.7	<10	<2
1267291	Soil	0.64	8.7	2.3	<0.05	2.8	12.31	26.9	0.04	1	0.7	28.5	11	<2
1267292	Soil	0.44	5.4	2.6	<0.05	2.6	7.66	15.5	0.03	1	0.6	17.1	<10	<2
1267293	Soil	0.29	9.0	1.5	<0.05	2.4	8.92	27.0	0.03	<1	0.8	36.1	<10	<2
1267921	Soil	0.30	8.3	0.7	<0.05	3.4	11.90	60.5	0.04	2	0.9	42.0	<10	<2
1267922	Soil	0.37	9.0	0.6	<0.05	3.3	16.59	48.9	0.03	<1	1.1	35.3	<10	<2
1267923	Soil	0.23	9.8	0.8	<0.05	3.5	15.10	53.8	0.03	<1	1.0	43.6	<10	<2
1267924	Soil	0.24	9.4	1.0	<0.05	5.8	19.23	57.0	0.03	1	1.2	57.8	<10	<2
1267925	Soil	0.22	9.3	0.9	<0.05	4.8	16.53	53.5	0.02	<1	0.9	51.8	<10	<2
1267926	Soil	0.19	10.1	0.9	<0.05	5.8	15.94	56.2	0.03	<1	1.3	52.9	<10	<2
1267927	Soil	0.18	11.1	1.3	<0.05	6.3	12.52	53.6	0.02	<1	1.2	50.5	<10	<2
1267928	Soil	0.20	13.5	1.3	<0.05	4.5	13.70	58.1	0.03	<1	1.2	42.5	<10	<2
1267929	Soil	0.28	10.1	1.1	<0.05	4.3	12.13	34.7	0.03	<1	0.8	21.2	<10	<2
1267930	Soil	0.11	4.8	0.5	<0.05	1.4	7.11	30.6	0.03	<1	0.5	5.8	<10	<2
1267931	Soil	0.35	13.4	1.1	<0.05	1.5	16.39	63.8	0.04	<1	1.0	27.4	<10	<2
1267932	Soil	0.43	16.0	1.3	<0.05	0.7	5.02	34.2	0.03	<1	0.8	25.8	<10	<2
1267933	Soil	0.45	11.2	1.0	<0.05	1.0	6.59	44.1	0.03	<1	1.0	18.3	<10	<2
1267934	Soil	0.30	14.0	1.1	<0.05	1.5	7.61	25.3	0.03	<1	0.7	12.9	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
			0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1267935	Soil		1.90	20.61	284.3	437.2	188	31.4	12.5	2012	3.53	12.2	2.1	1.3	1.9	29.6	1.22	0.74	0.28	35	1.53	0.136
1267936	Soil		0.82	18.42	35.29	245.1	114	17.1	7.5	370	3.39	6.0	1.2	1.9	1.2	12.9	0.29	0.34	0.27	22	0.43	0.125
1267937	Soil		1.54	13.32	89.72	791.1	107	18.4	8.7	985	2.74	11.5	1.4	0.9	2.3	16.4	0.60	0.57	0.23	25	2.30	0.086
1267938	Soil		1.07	10.22	30.18	354.7	103	13.6	5.7	895	2.14	5.4	1.3	1.0	2.1	20.6	0.36	0.27	0.16	20	4.36	0.068
1267939	Soil		0.94	14.66	45.83	1266	78	18.6	9.4	937	2.35	3.9	1.2	1.2	3.0	17.9	1.31	0.19	0.23	20	1.06	0.084
1267940	Soil		0.83	10.77	22.81	68.2	140	16.5	5.7	235	1.86	6.1	1.4	0.4	2.7	22.7	0.25	0.25	0.16	20	3.94	0.102
1267941	Soil		1.08	17.67	30.11	173.1	123	21.3	9.2	574	2.27	6.3	1.4	0.9	2.1	17.5	0.66	0.36	0.19	23	0.79	0.129
1267942	Soil		1.60	21.33	38.18	157.4	66	26.2	12.7	991	3.34	11.3	1.3	1.0	3.2	15.3	0.41	0.29	0.33	32	0.33	0.074
1267943	Soil		0.64	34.48	32.46	84.0	39	27.7	17.2	1149	3.34	7.1	1.2	1.2	5.2	9.3	0.10	0.36	0.34	27	0.10	0.031
1267944	Soil		0.82	29.69	21.92	68.7	29	23.1	13.5	646	2.84	6.1	1.0	0.9	3.7	11.0	0.10	0.36	0.28	25	0.14	0.046
1267945	Soil		0.73	40.91	24.48	72.4	61	24.4	15.7	942	2.75	7.0	1.6	1.2	5.7	14.1	0.09	0.32	0.30	21	0.11	0.058
1267946	Soil		1.04	38.78	36.85	94.1	79	24.9	20.8	1543	3.98	11.9	2.2	0.9	2.8	19.8	0.11	0.33	0.56	32	0.30	0.075
1267947	Soil		0.87	59.16	62.77	99.1	68	34.4	23.8	2439	4.02	11.1	1.4	3.0	4.4	22.0	0.16	0.42	0.46	29	0.34	0.051
1267948	Soil		1.16	91.37	171.6	118.4	125	44.3	56.1	4903	5.09	43.2	1.3	2.2	4.3	14.5	0.20	0.47	0.81	28	0.16	0.037
1267949	Soil		1.58	162.3	86.42	99.7	57	38.2	28.2	8436	4.91	39.0	2.8	3.7	5.5	24.0	0.02	0.54	1.51	36	0.19	0.049
1267950	Soil		1.60	27.00	29.88	60.7	74	14.9	15.1	3655	3.43	14.1	1.5	1.3	0.5	9.4	0.17	0.79	0.37	59	0.14	0.129
1267241	Soil		0.72	45.25	78.18	551.9	186	29.9	31.3	1219	6.42	21.7	0.7	1.4	2.9	32.9	1.49	1.05	0.30	34	0.75	0.065
1267242	Soil		0.59	45.92	62.61	197.6	135	20.2	17.2	298	3.88	20.2	0.4	1.1	2.6	46.2	0.65	0.80	0.31	36	0.09	0.031
1267243	Soil		2.79	21.47	565.6	3938	688	14.9	8.8	2254	3.60	403.9	0.7	1.4	0.6	42.8	15.23	16.49	0.20	25	11.15	0.094
1267244	Soil		0.96	13.52	119.7	1658	624	14.0	8.0	3093	2.53	31.8	0.8	3.1	0.5	106.3	7.22	9.08	0.21	22	11.65	0.145
1267245	Soil		0.88	38.94	123.3	551.3	303	25.3	14.5	472	3.32	49.6	0.8	1.3	1.2	143.3	1.25	3.74	0.48	23	8.06	0.098
1267246	Soil		0.60	35.94	64.26	329.4	200	24.7	12.8	456	3.03	48.7	0.8	2.2	1.5	42.8	0.60	1.54	0.39	20	1.83	0.101
1267247	Soil		1.04	35.08	70.31	367.7	405	24.2	11.8	1107	2.89	54.6	0.8	1.9	1.3	34.6	1.26	6.76	0.31	21	5.75	0.088
1267248	Soil		0.72	17.47	53.13	242.3	517	11.5	6.2	2933	2.82	36.0	1.3	1.5	0.5	36.4	1.37	8.14	0.17	23	9.08	0.126
1267249	Soil		0.89	15.98	81.38	330.5	502	13.9	7.2	1964	2.51	25.4	0.9	1.6	0.8	52.8	1.97	7.34	0.15	19	9.17	0.110
1267250	Soil		1.07	24.70	31.10	129.9	135	30.3	13.4	580	4.00	11.3	1.3	1.1	1.9	42.1	0.39	0.78	0.30	44	0.54	0.101
1267978	Soil		0.66	28.94	25.39	90.0	97	28.9	13.0	364	3.93	12.6	0.7	1.4	3.4	15.9	0.19	0.71	0.61	25	0.21	0.047
1267979	Soil		0.77	25.65	24.27	77.9	33	23.4	10.8	297	3.78	11.9	0.6	1.1	1.5	8.5	0.16	0.64	0.35	29	0.04	0.039
1267980	Soil		0.92	27.44	24.30	75.4	54	22.9	10.1	341	3.88	7.2	0.5	0.3	2.3	9.3	0.09	0.47	0.43	32	0.07	0.041
1267981	Soil		0.55	31.11	25.62	72.9	112	26.2	12.7	559	3.84	9.0	1.0	1.2	4.2	67.8	0.13	0.37	0.37	22	0.76	0.074



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267935	Soil	23.9	27.4	0.81	129.6	0.006	5	1.63	0.004	0.15	<0.1	3.2	0.52	0.06	74	0.3	0.05	3.6	1.89	<0.1	0.03
1267936	Soil	7.0	15.6	0.23	119.0	0.003	3	0.98	0.003	0.12	<0.1	1.6	0.31	0.08	38	0.3	0.03	2.7	1.46	<0.1	0.05
1267937	Soil	13.2	20.1	1.42	84.0	0.003	3	1.11	0.004	0.10	<0.1	2.5	1.41	0.04	30	0.2	0.05	3.0	0.76	<0.1	0.05
1267938	Soil	9.9	16.9	2.60	63.8	0.004	3	0.98	0.004	0.10	<0.1	2.3	0.39	0.03	34	0.3	<0.02	2.6	0.71	<0.1	0.07
1267939	Soil	11.6	20.6	0.74	109.6	0.004	5	1.19	0.005	0.15	<0.1	2.6	1.27	0.04	45	0.4	0.03	3.4	0.95	<0.1	0.06
1267940	Soil	17.2	18.6	2.30	62.5	0.002	5	1.01	0.004	0.15	<0.1	3.0	0.15	0.02	45	0.2	0.02	2.3	0.87	<0.1	0.05
1267941	Soil	22.2	19.6	0.39	83.8	0.002	5	1.14	0.002	0.17	<0.1	2.7	0.17	0.06	46	0.1	0.03	2.8	0.93	<0.1	0.07
1267942	Soil	8.8	28.9	0.43	173.7	0.002	4	1.62	0.003	0.25	<0.1	3.7	0.22	0.04	25	0.3	0.04	4.4	2.41	<0.1	0.11
1267943	Soil	15.6	27.1	0.54	178.2	0.004	5	1.67	0.003	0.22	<0.1	3.9	0.17	<0.02	23	0.1	0.02	4.8	2.27	<0.1	0.07
1267944	Soil	15.5	23.4	0.41	156.6	0.004	5	1.39	0.003	0.21	<0.1	2.4	0.16	<0.02	7	0.1	0.04	4.0	2.59	<0.1	0.03
1267945	Soil	17.9	20.1	0.38	137.5	0.004	3	1.15	0.003	0.18	<0.1	3.5	0.12	<0.02	13	<0.1	0.02	3.4	2.01	<0.1	0.04
1267946	Soil	6.8	30.5	0.45	178.0	0.002	2	1.92	0.005	0.17	<0.1	3.8	0.19	0.04	32	0.2	0.04	6.4	4.10	<0.1	0.06
1267947	Soil	10.2	28.9	0.57	222.7	0.004	5	1.71	0.005	0.19	<0.1	4.9	0.20	0.02	28	0.2	0.05	5.1	4.25	<0.1	0.07
1267948	Soil	6.3	31.8	0.82	245.7	0.002	3	2.28	0.004	0.15	<0.1	6.9	0.28	<0.02	49	0.1	0.05	7.1	5.61	<0.1	0.07
1267949	Soil	5.6	33.9	0.66	717.7	0.005	2	2.00	0.005	0.13	0.2	6.4	0.13	0.03	30	<0.1	0.07	5.9	2.81	<0.1	0.03
1267950	Soil	9.2	26.9	0.19	214.9	0.008	1	1.43	0.002	0.08	<0.1	1.1	0.15	0.07	60	0.4	0.08	6.2	4.22	<0.1	<0.02
1267241	Soil	4.8	24.9	0.19	101.8	0.001	2	1.45	0.002	0.09	<0.1	6.4	0.19	0.04	1848	0.4	0.02	4.9	4.40	<0.1	0.03
1267242	Soil	5.3	24.2	0.09	88.3	0.001	1	0.86	0.002	0.11	<0.1	4.6	0.22	<0.02	248	0.3	0.03	3.5	7.44	<0.1	<0.02
1267243	Soil	5.9	10.6	6.01	116.7	0.002	4	0.55	0.013	0.04	0.1	1.9	0.59	0.04	637	0.9	<0.02	2.6	1.11	<0.1	0.03
1267244	Soil	8.9	12.9	5.90	154.6	0.006	4	0.69	0.009	0.04	<0.1	1.6	0.60	0.04	2932	0.6	0.03	1.7	0.86	<0.1	<0.02
1267245	Soil	11.7	14.7	0.28	109.5	0.003	4	0.74	0.005	0.10	0.1	3.0	0.46	0.06	156	0.7	0.06	2.0	1.16	<0.1	0.05
1267246	Soil	12.5	13.0	0.39	111.7	0.002	3	0.71	0.003	0.10	<0.1	2.9	0.73	0.09	324	0.8	0.07	2.0	2.72	<0.1	0.05
1267247	Soil	10.5	12.5	3.19	111.8	0.003	4	0.69	0.006	0.08	<0.1	2.5	0.72	0.05	395	0.8	0.05	2.0	2.62	<0.1	0.04
1267248	Soil	6.3	12.1	4.85	375.7	0.004	2	0.82	0.011	0.05	0.1	1.1	0.31	0.06	415	0.8	<0.02	1.9	0.95	<0.1	0.02
1267249	Soil	6.5	10.5	4.61	202.9	0.003	3	0.66	0.011	0.07	0.1	1.5	0.23	0.05	333	0.6	0.04	1.6	0.66	<0.1	0.04
1267250	Soil	15.2	29.9	0.44	169.6	0.009	1	1.80	0.005	0.08	0.1	3.1	0.15	0.04	76	0.4	0.04	4.6	1.76	<0.1	<0.02
1267978	Soil	7.3	21.5	0.28	86.2	0.004	2	1.04	0.002	0.10	0.1	2.9	0.07	<0.02	35	0.2	<0.02	3.3	14.00	<0.1	<0.02
1267979	Soil	6.3	21.2	0.23	43.4	0.004	1	1.13	<0.001	0.07	<0.1	1.7	0.10	<0.02	27	0.3	0.05	3.5	1.92	<0.1	<0.02
1267980	Soil	6.8	27.4	0.29	66.9	0.006	2	1.30	<0.001	0.09	<0.1	2.2	0.10	<0.02	36	0.3	0.05	5.3	3.69	<0.1	<0.02
1267981	Soil	9.6	19.0	0.21	160.7	0.002	2	1.19	0.001	0.09	<0.1	5.3	0.10	0.04	57	0.2	0.05	3.6	2.34	<0.1	0.03



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 11 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
1267935	Soil	0.27	13.0	1.4	<0.05	1.2	20.89	52.7	0.04	<1	1.3	17.3	<10	<2
1267936	Soil	0.35	14.4	0.9	<0.05	1.3	7.23	14.6	0.04	1	0.7	8.1	<10	<2
1267937	Soil	0.32	9.5	1.1	<0.05	1.6	11.64	24.6	0.02	<1	0.8	15.3	<10	<2
1267938	Soil	0.25	9.7	1.1	<0.05	1.8	8.89	16.4	<0.02	1	0.6	12.6	<10	<2
1267939	Soil	0.33	14.1	1.4	<0.05	2.1	8.58	26.0	0.03	2	0.7	17.3	<10	<2
1267940	Soil	0.18	10.2	0.8	<0.05	1.9	15.47	29.1	0.03	<1	0.7	11.7	<10	<2
1267941	Soil	0.29	12.1	0.9	<0.05	2.5	17.76	39.6	0.02	<1	1.0	13.6	<10	<2
1267942	Soil	0.31	20.6	1.5	<0.05	3.8	7.77	25.1	0.04	<1	1.2	25.0	<10	<2
1267943	Soil	0.24	18.3	1.6	<0.05	2.5	8.89	43.7	0.03	<1	1.1	30.9	<10	<2
1267944	Soil	0.22	18.7	1.0	<0.05	1.3	6.47	42.8	0.03	<1	1.2	23.4	<10	<2
1267945	Soil	0.11	14.0	0.7	<0.05	3.1	15.63	43.6	<0.02	<1	1.3	21.7	<10	<2
1267946	Soil	0.35	19.9	1.2	<0.05	2.1	10.11	15.2	0.05	<1	1.5	35.8	<10	<2
1267947	Soil	0.29	17.0	3.5	<0.05	2.6	15.93	28.6	0.04	<1	1.8	35.2	<10	<2
1267948	Soil	0.08	14.8	1.7	<0.05	3.4	12.57	21.2	0.05	<1	2.0	63.6	<10	<2
1267949	Soil	0.12	11.1	2.2	<0.05	2.7	11.30	29.7	0.06	<1	2.0	50.2	<10	<2
1267950	Soil	0.32	14.4	1.6	<0.05	0.4	4.60	21.7	0.04	<1	0.9	16.9	<10	<2
1267241	Soil	0.28	10.6	2.6	<0.05	1.9	10.20	18.0	0.14	<1	1.0	19.0	<10	<2
1267242	Soil	0.14	12.5	1.3	<0.05	1.0	5.93	12.0	0.03	<1	0.8	9.2	<10	<2
1267243	Soil	0.10	4.0	3.6	<0.05	1.0	13.77	14.8	0.04	<1	0.7	4.5	15	<2
1267244	Soil	0.18	5.1	0.5	<0.05	0.5	13.52	21.0	0.04	<1	0.5	5.3	<10	<2
1267245	Soil	0.16	5.9	0.9	<0.05	1.4	15.30	25.7	0.05	1	0.8	7.0	<10	<2
1267246	Soil	0.24	6.0	1.9	<0.05	2.2	16.41	24.5	0.04	<1	0.7	5.4	<10	<2
1267247	Soil	0.19	5.7	0.9	<0.05	1.5	14.79	21.7	0.04	<1	0.7	5.7	<10	<2
1267248	Soil	0.16	4.9	0.8	<0.05	0.8	14.66	16.0	0.05	<1	0.5	5.2	<10	<2
1267249	Soil	0.12	4.2	0.8	<0.05	1.1	13.24	15.9	0.03	<1	0.5	5.3	<10	<2
1267250	Soil	0.46	10.2	1.4	<0.05	0.7	11.13	40.3	0.04	<1	0.9	17.5	<10	<2
1267978	Soil	0.21	20.9	1.5	<0.05	0.7	7.27	23.5	0.03	<1	0.9	27.4	<10	<2
1267979	Soil	0.39	10.4	1.0	<0.05	0.3	2.72	16.5	0.04	<1	0.4	15.2	<10	<2
1267980	Soil	0.39	16.0	2.1	<0.05	0.2	2.88	15.6	0.05	<1	0.9	25.0	<10	2
1267981	Soil	0.24	11.3	0.8	<0.05	1.2	15.83	33.7	0.05	<1	1.1	24.1	<10	<2



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 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1267982	Soil	0.83	22.00	23.29	59.0	93	20.4	9.5	263	3.31	19.9	0.7	<0.2	2.1	30.4	0.08	1.32	0.32	23	0.38	0.054
1267983	Soil	0.58	28.51	37.33	87.4	257	32.5	15.0	296	3.84	14.1	0.9	0.3	3.8	38.5	0.11	0.50	0.37	19	0.55	0.057
1267984	Soil	0.84	28.67	27.31	106.2	135	32.0	12.6	226	4.14	13.4	0.4	0.4	2.3	7.4	0.11	0.48	0.34	24	0.03	0.036
1267985	Soil	0.65	16.86	18.16	74.9	90	15.8	8.4	243	3.20	9.7	0.4	<0.2	2.5	5.9	0.16	0.47	0.29	25	0.04	0.022
1267986	Soil	0.57	25.18	30.95	88.4	109	30.0	15.3	645	3.53	18.2	0.6	1.5	4.4	23.7	0.15	0.76	0.35	23	0.68	0.053
1267987	Soil	0.48	20.12	25.06	82.2	112	25.3	10.2	345	3.39	16.1	0.6	2.1	4.8	18.9	0.06	0.74	0.29	21	0.35	0.025
1267988	Soil	0.46	22.50	26.47	103.8	92	23.9	11.0	401	3.06	10.0	0.6	1.4	2.7	93.9	0.20	0.58	0.29	16	1.48	0.045
1267989	Soil	0.48	26.79	26.99	92.8	140	26.5	10.5	401	3.19	14.4	0.8	0.6	2.3	62.0	0.21	0.83	0.30	21	1.45	0.049
1267990	Soil	0.46	23.59	22.95	94.8	108	25.3	10.4	383	2.78	11.3	0.7	2.7	3.8	57.5	0.16	0.72	0.24	22	0.66	0.059
1267991	Soil	1.47	19.14	25.03	58.4	40	14.8	19.9	1892	3.24	11.8	0.9	0.7	2.4	7.7	0.12	0.62	0.35	50	0.06	0.047
1267992	Soil	1.44	31.54	52.70	86.0	51	22.9	21.4	2253	3.91	18.2	0.9	0.3	3.6	7.9	0.12	0.55	0.46	40	0.06	0.057
1267993	Soil	1.43	18.09	25.34	62.0	13	18.1	17.9	1559	4.22	18.2	0.9	<0.2	3.7	4.6	0.07	0.56	0.41	41	0.03	0.041
1267994	Soil	1.83	26.14	18.18	84.4	12	17.5	15.7	2171	2.88	15.1	1.0	0.7	2.9	7.5	0.10	0.87	0.40	60	0.06	0.046
1267995	Soil	1.40	40.63	24.16	67.3	9	20.6	13.8	884	3.69	18.3	1.2	4.9	1.6	7.9	0.10	0.69	0.53	49	0.05	0.039
1267996	Soil	3.04	64.80	43.15	110.2	31	32.0	32.6	3690	5.43	35.4	1.3	0.2	6.6	6.8	0.09	0.64	0.63	42	0.04	0.056
1267997	Soil	1.11	42.95	25.80	72.5	26	22.4	34.8	2666	3.74	11.9	1.0	<0.2	3.3	6.4	0.08	0.36	0.56	35	0.03	0.050
1267998	Soil	1.23	26.61	26.82	74.9	66	16.5	22.2	2551	3.61	6.3	0.9	0.5	1.1	5.7	0.10	0.53	0.36	36	0.04	0.073
1267999	Soil	1.40	15.46	24.00	91.6	37	14.3	8.1	599	3.89	10.0	0.8	0.3	0.8	6.7	0.16	0.78	0.33	53	0.04	0.057
1268000	Soil	0.81	24.25	101.6	269.9	37	17.4	13.8	2103	2.98	23.3	0.7	<0.2	3.6	25.9	0.61	0.20	0.25	12	5.63	0.061
1267788	Soil	1.32	27.45	72.60	87.7	49	23.4	20.4	2066	5.05	15.8	1.0	<0.2	5.0	6.1	0.13	0.59	0.45	44	0.04	0.053
1267789	Soil	1.27	14.18	24.45	63.3	21	14.6	13.5	1155	3.43	7.2	0.8	<0.2	2.2	5.1	0.09	0.66	0.37	52	0.04	0.046



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Project: Scarlet
 Report Date: October 31, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1267982	Soil	4.3	15.6	0.14	72.6	0.002	2	0.74	0.001	0.08	<0.1	2.7	0.09	0.02	643	0.2	0.06	2.6	2.09	<0.1	<0.02
1267983	Soil	8.0	15.7	0.18	107.4	0.001	2	0.96	<0.001	0.11	<0.1	4.9	0.14	0.04	388	0.3	0.05	2.6	2.79	<0.1	0.06
1267984	Soil	3.5	16.3	0.18	90.1	0.001	1	1.43	<0.001	0.09	<0.1	2.3	0.09	<0.02	32	0.2	0.03	3.7	4.72	<0.1	0.03
1267985	Soil	5.8	16.4	0.19	66.9	0.002	2	1.06	<0.001	0.09	<0.1	1.6	0.08	<0.02	20	0.2	0.03	4.0	1.18	<0.1	0.02
1267986	Soil	8.8	22.5	0.48	88.4	0.002	2	1.52	0.001	0.14	<0.1	3.7	0.11	0.02	128	0.2	0.02	3.9	1.60	<0.1	0.07
1267987	Soil	10.7	20.8	0.38	80.7	0.003	2	1.38	0.002	0.08	<0.1	2.9	0.07	<0.02	115	0.2	0.02	3.7	0.92	<0.1	0.05
1267988	Soil	5.9	16.5	0.57	158.6	0.002	4	0.95	0.003	0.09	<0.1	2.4	0.07	0.05	120	0.6	0.04	2.8	1.02	<0.1	0.04
1267989	Soil	8.1	18.9	0.56	133.1	0.003	3	1.11	0.003	0.08	<0.1	3.0	0.09	0.05	282	0.7	0.03	3.3	0.95	<0.1	0.04
1267990	Soil	9.0	18.3	0.33	89.2	0.008	3	0.95	0.005	0.09	<0.1	2.8	0.07	0.03	208	0.4	<0.02	3.0	1.09	<0.1	0.04
1267991	Soil	9.4	30.2	0.26	76.2	0.014	1	1.67	0.001	0.08	0.2	2.1	0.14	<0.02	37	0.5	0.05	6.4	3.14	<0.1	<0.02
1267992	Soil	6.9	33.4	0.41	67.5	0.010	1	1.81	0.001	0.09	0.1	2.6	0.11	0.03	54	0.4	0.06	6.0	2.98	<0.1	0.02
1267993	Soil	5.0	29.4	0.30	62.1	0.010	<1	1.36	0.001	0.09	0.2	2.3	0.07	0.02	32	0.3	0.05	6.1	4.00	<0.1	<0.02
1267994	Soil	10.6	31.4	0.23	60.0	0.030	1	1.71	<0.001	0.09	0.2	2.1	0.13	<0.02	34	0.4	0.06	7.1	4.04	<0.1	<0.02
1267995	Soil	8.6	33.0	0.38	79.0	0.014	1	1.62	0.001	0.10	0.2	1.9	0.11	<0.02	26	0.3	0.09	6.3	3.13	<0.1	<0.02
1267996	Soil	5.9	38.6	0.57	106.8	0.008	2	2.42	<0.001	0.11	0.2	4.1	0.18	0.02	67	0.5	0.05	6.5	5.99	<0.1	0.07
1267997	Soil	6.4	29.8	0.28	95.0	0.004	<1	1.73	0.001	0.12	<0.1	2.7	0.12	0.02	36	0.4	0.06	7.4	4.55	<0.1	0.03
1267998	Soil	5.0	25.7	0.17	110.5	0.005	<1	1.25	0.001	0.13	0.1	1.9	0.12	0.04	60	0.3	0.06	5.1	4.65	<0.1	<0.02
1267999	Soil	9.4	26.0	0.21	80.5	0.017	1	1.28	<0.001	0.10	0.1	1.2	0.12	0.05	30	0.4	0.06	6.7	3.04	<0.1	<0.02
1268000	Soil	4.7	9.5	3.13	179.9	<0.001	3	0.42	0.007	0.14	<0.1	3.6	0.45	0.15	200	0.2	<0.02	1.3	1.50	<0.1	0.03
1267788	Soil	6.8	39.3	0.38	58.3	0.008	<1	1.99	0.003	0.10	0.1	3.1	0.10	0.03	36	0.6	0.04	8.3	3.22	<0.1	0.04
1267789	Soil	5.9	25.2	0.17	80.3	0.006	<1	1.35	0.002	0.12	0.1	1.5	0.11	<0.02	22	0.3	0.06	7.1	1.94	<0.1	<0.02



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 12 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001354.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
1267982	Soil	0.26	11.2	0.9	<0.05	0.4	4.10	11.8	0.04	<1	0.7	13.6	<10	<2
1267983	Soil	0.19	8.7	1.6	<0.05	1.8	16.06	20.5	0.04	<1	1.1	16.2	<10	<2
1267984	Soil	0.28	11.6	0.9	<0.05	1.1	2.63	7.9	0.04	<1	1.0	31.5	<10	<2
1267985	Soil	0.31	11.4	1.1	<0.05	0.5	2.23	12.7	0.03	<1	0.4	20.9	<10	<2
1267986	Soil	0.27	11.7	1.0	<0.05	2.8	9.90	20.6	0.04	<1	0.9	27.2	<10	<2
1267987	Soil	0.25	7.7	1.1	<0.05	2.0	8.45	22.3	0.03	1	0.7	24.0	<10	<2
1267988	Soil	0.24	7.5	1.0	<0.05	1.5	6.50	14.9	0.03	1	0.7	23.1	<10	<2
1267989	Soil	0.33	7.4	0.6	<0.05	1.3	9.78	18.3	0.04	<1	0.9	21.8	<10	<2
1267990	Soil	0.38	7.4	0.7	<0.05	1.7	7.64	20.8	0.02	2	0.7	19.6	<10	<2
1267991	Soil	0.67	16.4	0.9	<0.05	0.3	3.38	21.3	0.04	<1	0.6	12.4	<10	<2
1267992	Soil	0.60	11.7	1.1	<0.05	0.6	4.00	17.4	0.03	<1	0.9	27.2	<10	<2
1267993	Soil	0.63	12.3	1.7	<0.05	0.4	3.23	11.1	0.04	<1	0.6	13.2	<10	<2
1267994	Soil	0.83	17.8	1.1	<0.05	0.5	2.74	22.7	0.04	<1	0.4	16.5	<10	<2
1267995	Soil	0.53	13.8	2.4	<0.05	0.2	4.05	19.0	0.03	<1	0.8	17.7	<10	<2
1267996	Soil	0.70	16.8	1.3	<0.05	2.7	5.53	15.5	0.09	<1	2.0	39.8	<10	<2
1267997	Soil	0.50	20.0	2.0	<0.05	0.7	5.74	17.0	0.05	1	1.4	24.1	<10	<2
1267998	Soil	0.38	19.6	1.0	<0.05	0.3	3.63	12.2	0.03	<1	1.1	11.0	<10	<2
1267999	Soil	0.67	16.9	1.6	<0.05	2.9	2.88	20.6	0.03	<1	0.5	8.3	<10	<2
1268000	Soil	0.06	8.4	0.7	<0.05	1.2	8.05	11.1	0.04	<1	0.6	2.9	<10	<2
1267788	Soil	0.66	13.1	5.3	<0.05	1.3	4.59	17.5	0.06	<1	1.0	27.9	<10	<2
1267789	Soil	0.65	20.3	1.0	<0.05	0.4	3.13	12.7	0.03	1	0.6	9.2	<10	<2



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001354.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
617738	Soil	0.27	28.73	13.42	95.3	34	26.7	9.0	195	2.51	4.6	1.7	7.1	4.0	18.6	0.27	0.20	0.22	29	0.48	0.074
REP 617738	QC	0.29	29.99	13.88	96.3	35	28.3	9.4	204	2.60	4.7	1.8	4.2	4.3	19.1	0.24	0.18	0.22	31	0.51	0.075
617746	Soil	0.79	25.82	43.77	91.6	111	21.2	9.7	444	3.17	14.2	0.8	<0.2	4.6	28.3	0.26	0.46	0.41	16	0.55	0.089
REP 617746	QC	0.78	25.32	44.10	90.8	103	21.0	9.8	447	3.18	14.4	0.8	0.8	4.4	28.3	0.22	0.47	0.40	17	0.56	0.089
1266556	Soil	1.35	13.55	25.12	58.4	25	15.3	8.4	386	4.10	18.5	0.9	1.4	0.9	6.2	0.10	0.77	0.57	53	0.04	0.050
REP 1266556	QC	1.39	13.04	23.97	55.2	26	15.0	8.3	379	3.99	18.3	0.9	2.0	0.9	6.2	0.09	0.78	0.52	52	0.03	0.048
1266571	Soil	0.90	14.46	87.02	134.7	53	14.9	7.2	519	3.04	19.5	0.8	<0.2	3.0	20.4	0.20	0.43	0.36	16	0.43	0.034
REP 1266571	QC	0.88	13.85	83.60	131.9	52	14.8	7.1	507	2.97	19.0	0.8	<0.2	2.9	19.3	0.19	0.41	0.35	15	0.39	0.033
1266590	Soil	0.96	30.51	43.54	146.7	132	25.4	14.3	498	3.27	17.9	0.9	1.2	0.8	36.3	0.48	1.61	0.30	33	1.38	0.097
REP 1266590	QC	0.87	28.89	41.74	140.2	132	24.4	13.3	472	3.17	17.0	0.8	<0.2	0.8	34.4	0.43	1.51	0.27	32	1.32	0.089
1266628	Soil	2.49	12.79	369.0	870.7	175	9.8	5.5	1085	1.93	14.5	1.5	0.5	1.1	82.4	3.65	1.27	0.13	7	9.70	0.061
REP 1266628	QC	2.66	13.95	383.4	918.9	199	10.7	5.9	1146	2.01	15.5	1.6	0.4	1.3	82.3	3.97	1.30	0.12	8	9.88	0.063
1266657	Soil	3.49	13.88	127.3	26.1	38	5.9	4.3	70	2.34	14.2	0.2	1.4	3.8	25.5	0.01	0.71	0.60	6	0.09	0.014
REP 1266657	QC	3.58	14.51	132.5	26.6	45	6.4	4.6	72	2.43	14.9	0.2	1.2	3.9	26.9	0.02	0.74	0.64	6	0.09	0.015
1266670	Soil	1.41	15.64	716.0	2292	129	14.4	6.9	2518	19.12	12.1	3.0	1.6	3.4	7.4	5.05	0.34	0.21	23	0.37	0.131
REP 1266670	QC	1.41	16.22	745.0	2385	130	15.1	7.1	2635	19.88	12.2	3.1	1.6	3.5	7.9	5.36	0.34	0.21	23	0.38	0.133
1266679	Soil	0.31	23.52	13.75	91.0	32	27.2	10.2	234	2.74	2.4	1.1	1.7	5.0	17.2	0.17	0.17	0.19	58	0.29	0.013
REP 1266679	QC	0.34	23.43	14.10	90.4	26	28.2	10.3	236	2.77	2.6	1.1	1.0	4.8	17.7	0.18	0.16	0.19	57	0.29	0.013
1267206	Soil	0.84	8.11	156.5	440.7	74	9.8	4.7	1492	1.47	6.3	1.1	2.2	0.4	36.3	0.69	0.53	0.32	23	7.91	0.151
REP 1267206	QC	0.81	7.85	146.3	432.8	65	9.8	4.5	1430	1.42	6.3	1.0	2.7	0.3	34.4	0.65	0.48	0.26	22	7.49	0.144
1267238	Soil	1.45	33.00	17.17	62.9	249	22.8	9.7	304	2.74	6.0	1.0	1.3	3.0	21.7	0.18	0.44	0.27	26	0.86	0.078
REP 1267238	QC	1.42	33.13	17.09	63.3	252	23.3	9.7	306	2.74	5.6	1.1	1.3	3.0	21.9	0.19	0.43	0.26	26	0.86	0.081
1267262	Soil	0.90	9.03	24.59	53.6	9	11.6	11.1	600	3.09	6.1	0.6	1.2	4.5	7.4	0.10	0.37	0.37	44	0.05	0.018
REP 1267262	QC	0.87	8.94	23.94	51.6	9	11.1	10.5	592	3.02	6.0	0.6	1.3	4.4	7.4	0.11	0.38	0.34	44	0.05	0.017
1267279	Soil	1.30	20.16	83.41	369.8	228	19.9	7.9	798	3.29	7.3	2.3	2.3	1.3	24.7	1.14	0.44	0.27	39	0.86	0.126
REP 1267279	QC	1.28	19.56	77.96	340.8	225	18.7	7.7	786	3.20	7.0	2.2	1.8	1.3	23.4	1.09	0.42	0.25	38	0.81	0.114
1267931	Soil	0.97	16.57	34.23	128.0	75	20.6	8.6	605	3.01	8.3	1.8	2.7	1.8	11.9	0.22	0.52	0.21	37	0.26	0.085
REP 1267931	QC	1.01	16.25	34.35	125.3	79	20.2	8.6	595	2.96	8.3	1.8	3.3	2.2	11.9	0.22	0.50	0.21	36	0.26	0.087

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001354.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
617738	Soil	29.0	43.7	2.04	104.2	0.007	4	1.95	<0.001	0.10	<0.1	4.2	0.08	0.04	16	0.5	<0.02	6.4	0.84	<0.1	0.12
REP 617738	QC	29.9	45.8	2.14	111.5	0.007	4	2.05	0.001	0.10	<0.1	4.4	0.09	0.04	21	0.6	0.03	6.5	0.75	<0.1	0.14
617746	Soil	8.0	15.4	0.33	116.8	0.004	4	0.86	0.019	0.14	<0.1	3.0	0.13	0.18	74	0.4	0.07	2.7	1.42	<0.1	0.08
REP 617746	QC	8.1	15.8	0.33	118.1	0.003	3	0.85	0.019	0.14	<0.1	3.0	0.14	0.18	97	0.4	0.08	2.9	1.43	<0.1	0.07
1266556	Soil	7.4	32.1	0.25	85.5	0.012	2	1.34	0.004	0.08	0.2	1.4	0.17	0.03	27	0.3	0.06	7.3	2.62	<0.1	<0.02
REP 1266556	QC	7.4	31.2	0.25	83.6	0.012	2	1.34	0.003	0.08	0.2	1.4	0.16	0.03	19	0.2	0.07	6.9	2.65	<0.1	<0.02
1266571	Soil	6.1	11.5	0.31	133.6	0.003	3	0.76	0.004	0.16	<0.1	3.8	0.22	0.13	20	<0.1	0.04	2.1	1.58	<0.1	0.03
REP 1266571	QC	5.8	11.0	0.30	131.8	0.002	3	0.72	0.004	0.15	<0.1	3.5	0.20	0.12	13	<0.1	0.03	1.9	1.44	<0.1	0.02
1266590	Soil	10.3	22.8	0.35	113.2	0.008	2	1.22	0.004	0.06	0.1	2.7	0.20	0.07	118	0.6	0.09	3.2	2.81	<0.1	0.05
REP 1266590	QC	9.9	22.4	0.32	106.9	0.008	2	1.19	0.004	0.06	0.1	2.5	0.19	0.07	114	0.6	0.06	3.1	2.76	<0.1	0.04
1266628	Soil	3.9	6.5	7.02	41.0	0.001	3	0.28	0.009	0.09	<0.1	1.3	0.54	0.07	1159	0.3	<0.02	0.9	1.53	<0.1	<0.02
REP 1266628	QC	4.2	6.7	7.27	43.6	<0.001	3	0.28	0.010	0.08	<0.1	1.3	0.57	0.07	1180	0.2	<0.02	1.0	1.39	<0.1	0.02
1266657	Soil	6.1	5.5	0.04	81.1	<0.001	<1	0.39	0.005	0.09	<0.1	2.0	0.22	0.05	50	<0.1	0.05	1.8	1.36	<0.1	<0.02
REP 1266657	QC	6.3	5.8	0.05	86.2	<0.001	1	0.42	0.006	0.10	<0.1	2.2	0.21	0.06	62	<0.1	0.06	1.8	1.34	<0.1	<0.02
1266670	Soil	12.6	17.0	0.27	110.6	0.003	2	0.94	0.002	0.06	<0.1	3.5	7.73	0.07	379	0.5	0.05	2.8	0.86	0.1	0.06
REP 1266670	QC	13.4	16.8	0.27	116.8	0.004	2	0.99	0.002	0.06	<0.1	3.6	8.09	0.07	409	0.4	0.06	2.8	0.94	0.1	0.07
1266679	Soil	18.3	47.8	1.86	128.5	0.005	2	2.92	<0.001	0.07	<0.1	2.9	0.16	<0.02	11	0.1	<0.02	8.6	1.69	<0.1	0.10
REP 1266679	QC	18.7	48.8	1.87	130.2	0.005	2	2.90	<0.001	0.07	<0.1	2.9	0.15	<0.02	17	<0.1	0.02	8.5	1.53	<0.1	0.12
1267206	Soil	7.7	14.6	4.28	94.7	0.006	4	0.96	0.007	0.06	<0.1	0.8	0.30	0.06	46	0.5	<0.02	2.1	0.65	<0.1	0.02
REP 1267206	QC	7.2	14.4	4.01	92.2	0.006	5	0.95	0.007	0.06	<0.1	0.7	0.31	0.06	57	0.4	<0.02	2.1	0.62	<0.1	<0.02
1267238	Soil	3.9	16.6	0.27	145.7	<0.001	2	1.13	0.003	0.12	<0.1	4.6	0.21	0.07	81	0.5	0.04	3.4	1.40	<0.1	0.12
REP 1267238	QC	4.0	17.0	0.28	144.5	<0.001	2	1.16	0.003	0.13	<0.1	4.8	0.21	0.07	87	0.4	0.06	3.5	1.61	<0.1	0.12
1267262	Soil	9.7	21.5	0.21	115.5	0.008	<1	1.45	0.002	0.08	0.1	2.2	0.18	<0.02	<5	<0.1	0.04	6.8	1.62	<0.1	0.02
REP 1267262	QC	9.6	21.4	0.20	110.8	0.008	<1	1.44	0.002	0.09	0.1	2.2	0.18	<0.02	9	<0.1	0.03	6.3	1.63	<0.1	<0.02
1267279	Soil	12.4	25.0	0.44	172.1	0.008	1	1.64	0.004	0.07	0.1	2.7	0.40	0.07	90	0.6	0.04	4.8	1.52	<0.1	0.03
REP 1267279	QC	11.8	23.8	0.43	168.3	0.007	1	1.60	0.004	0.08	<0.1	2.6	0.34	0.06	79	0.5	0.03	4.5	1.34	<0.1	0.04
1267931	Soil	32.5	31.7	0.64	112.5	0.004	2	1.68	0.001	0.12	<0.1	2.4	0.22	0.04	45	0.3	0.04	4.3	1.19	<0.1	0.03
REP 1267931	QC	31.8	30.9	0.64	111.2	0.004	2	1.66	0.001	0.12	<0.1	2.6	0.22	0.04	40	0.2	0.02	4.4	1.08	<0.1	0.04

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 1 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001354.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
Pulp Duplicates														
617738	Soil	0.32	9.7	0.4	<0.05	5.0	16.23	52.8	0.03	<1	1.3	47.3	<10	<2
REP 617738	QC	0.31	9.7	0.4	<0.05	5.0	16.75	55.0	0.02	<1	1.2	48.9	<10	<2
617746	Soil	0.18	7.8	0.4	<0.05	2.8	10.58	20.8	0.03	<1	0.8	11.7	<10	<2
REP 617746	QC	0.19	7.7	0.5	<0.05	2.5	10.31	20.6	0.03	<1	0.7	12.0	<10	<2
1266556	Soil	0.63	13.1	2.5	<0.05	0.2	3.21	16.0	0.02	<1	0.4	9.6	<10	<2
REP 1266556	QC	0.61	12.8	2.3	<0.05	0.4	3.16	16.0	0.03	<1	0.4	9.7	<10	<2
1266571	Soil	0.15	9.9	0.8	<0.05	0.9	7.44	14.5	0.03	<1	0.7	9.7	<10	<2
REP 1266571	QC	0.15	9.0	0.8	<0.05	0.9	7.20	13.5	0.03	<1	0.7	9.6	<10	<2
1266590	Soil	0.52	8.6	0.6	<0.05	1.1	10.40	20.8	0.04	<1	0.9	12.2	<10	<2
REP 1266590	QC	0.51	8.4	0.6	<0.05	1.0	10.16	20.7	0.04	<1	0.8	11.2	<10	<2
1266628	Soil	0.08	5.3	2.8	<0.05	0.6	4.52	7.8	<0.02	<1	0.5	3.4	<10	<2
REP 1266628	QC	0.08	5.1	2.6	<0.05	0.8	4.90	7.9	<0.02	<1	0.6	3.4	<10	<2
1266657	Soil	<0.02	7.2	1.5	<0.05	0.9	3.33	12.5	0.05	<1	0.3	3.2	<10	<2
REP 1266657	QC	<0.02	7.2	1.8	<0.05	0.9	3.43	12.9	0.04	<1	0.3	3.3	<10	<2
1266670	Soil	0.32	7.7	1.3	<0.05	1.8	13.38	20.8	0.03	<1	0.7	6.6	<10	<2
REP 1266670	QC	0.36	8.2	1.2	<0.05	2.0	14.41	22.2	<0.02	<1	0.7	6.4	<10	<2
1266679	Soil	0.36	15.8	1.7	<0.05	5.4	3.73	38.2	0.04	<1	0.9	53.7	<10	<2
REP 1266679	QC	0.35	14.7	1.8	<0.05	5.4	3.83	38.6	0.03	<1	1.0	52.1	<10	<2
1267206	Soil	0.21	6.7	0.6	<0.05	0.6	6.70	16.2	<0.02	1	0.5	6.9	<10	<2
REP 1267206	QC	0.22	6.4	0.6	<0.05	0.8	6.37	14.9	<0.02	2	0.5	6.8	<10	<2
1267238	Soil	0.22	8.6	1.2	<0.05	3.6	9.38	8.7	0.04	1	0.8	12.1	<10	<2
REP 1267238	QC	0.19	9.4	1.4	<0.05	3.6	9.34	9.0	0.04	<1	0.8	12.7	<10	<2
1267262	Soil	0.63	18.8	1.0	<0.05	1.4	3.41	19.1	0.02	<1	0.4	13.1	<10	<2
REP 1267262	QC	0.62	18.9	1.1	<0.05	1.4	3.51	18.9	0.03	<1	0.5	12.3	<10	<2
1267279	Soil	0.52	12.9	1.4	<0.05	1.1	10.40	22.5	0.04	<1	0.8	17.7	<10	<2
REP 1267279	QC	0.50	11.9	1.2	<0.05	1.1	9.93	20.7	0.04	<1	0.8	16.0	<10	<2
1267931	Soil	0.35	13.4	1.1	<0.05	1.5	16.39	63.8	0.04	<1	1.0	27.4	<10	<2
REP 1267931	QC	0.34	12.8	1.3	<0.05	1.4	16.22	62.5	0.04	<1	1.1	27.2	<10	<2

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 Phone (604) 253-3158 Fax (604) 253-1716

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Project: Scarlet
 Report Date: October 31, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001354.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001	
1267243	Soil	2.79	21.47	565.6	3938	688	14.9	8.8	2254	3.60	403.9	0.7	1.4	0.6	42.8	15.23	16.49	0.20	25	11.15	0.094	
REP 1267243	QC	2.84	21.84	566.0	3995	673	14.9	9.4	2291	3.65	413.1	0.7	1.5	0.6	45.5	15.42	17.05	0.10	25	11.22	0.096	
1267249	Soil	0.89	15.98	81.38	330.5	502	13.9	7.2	1964	2.51	25.4	0.9	1.6	0.8	52.8	1.97	7.34	0.15	19	9.17	0.110	
REP 1267249	QC	0.92	16.66	85.72	343.4	536	14.2	7.4	2017	2.55	26.3	1.0	0.6	0.8	53.3	2.10	7.81	0.15	20	9.51	0.115	
1267996	Soil	3.04	64.80	43.15	110.2	31	32.0	32.6	3690	5.43	35.4	1.3	0.2	6.6	6.8	0.09	0.64	0.63	42	0.04	0.056	
REP 1267996	QC	2.87	63.15	41.72	108.0	24	31.4	31.0	3659	5.27	34.6	1.2	0.3	6.3	6.7	0.10	0.64	0.61	41	0.03	0.055	
Reference Materials																						
STD DS8	Standard	13.26	108.1	125.5	309.2	1701	37.1	7.3	613	2.48	23.5	2.9	110.7	7.0	66.4	2.21	5.32	6.23	41	0.74	0.078	
STD DS8	Standard	13.34	111.5	125.7	306.5	1763	37.6	7.2	613	2.48	23.4	2.9	104.6	7.1	65.4	2.27	5.35	6.56	43	0.75	0.079	
STD DS8	Standard	13.47	105.3	126.0	314.3	1858	36.2	7.2	627	2.51	26.2	2.8	130.3	6.5	73.8	2.44	5.66	6.81	42	0.76	0.084	
STD DS8	Standard	13.01	105.3	126.9	321.1	1861	36.7	7.4	613	2.54	27.2	2.7	120.1	6.3	72.1	2.43	6.07	7.01	43	0.75	0.086	
STD DS8	Standard	13.38	109.7	121.5	300.8	1747	38.8	7.7	622	2.50	25.4	2.7	119.1	6.7	61.4	2.31	4.86	6.52	41	0.73	0.078	
STD DS8	Standard	12.79	107.5	120.9	298.9	1791	36.4	7.1	585	2.40	24.2	2.8	115.5	6.9	62.6	2.22	5.46	6.43	40	0.69	0.076	
STD DS8	Standard	13.81	111.0	126.7	301.2	1755	38.2	7.3	611	2.45	24.0	3.0	118.1	7.4	69.3	2.31	5.36	6.39	42	0.75	0.079	
STD DS8	Standard	13.29	108.5	123.7	305.0	1730	37.1	7.3	614	2.49	24.5	2.8	108.3	7.0	66.0	2.29	5.52	6.31	41	0.71	0.080	
STD DS8	Standard	13.36	108.7	125.5	308.8	1799	37.2	7.4	617	2.52	24.3	2.8	110.4	7.2	67.8	2.30	5.45	6.67	42	0.72	0.081	
STD DS8	Standard	13.67	104.1	118.5	295.7	1764	36.5	7.2	597	2.40	24.8	2.8	112.9	6.8	71.7	2.24	5.79	6.59	41	0.75	0.079	
STD DS8	Standard	13.92	108.8	122.8	299.2	1838	37.9	7.6	635	2.52	25.5	2.7	123.3	7.0	72.0	2.36	5.69	6.67	43	0.75	0.082	
STD DS8	Standard	13.54	109.6	121.6	319.4	1793	39.3	8.3	610	2.55	24.5	2.7	109.8	6.2	60.3	2.30	5.35	6.49	42	0.70	0.082	
STD OREAS131B	Standard																					
STD SU-1B	Standard																					
STD OREAS131B Expected																						
STD SU-1B Expected																						
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: October 31, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001354.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
1267243	Soil	5.9	10.6	6.01	116.7	0.002	4	0.55	0.013	0.04	0.1	1.9	0.59	0.04	637	0.9	<0.02	2.6	1.11	<0.1	0.03
REP 1267243	QC	6.2	10.9	5.75	118.9	0.003	4	0.57	0.013	0.05	0.2	1.8	0.66	0.04	647	0.8	0.03	2.7	1.26	<0.1	0.03
1267249	Soil	6.5	10.5	4.61	202.9	0.003	3	0.66	0.011	0.07	0.1	1.5	0.23	0.05	333	0.6	0.04	1.6	0.66	<0.1	0.04
REP 1267249	QC	6.7	10.8	4.62	207.4	0.004	4	0.65	0.012	0.07	0.1	1.4	0.24	0.05	336	0.6	<0.02	1.5	0.67	<0.1	0.04
1267996	Soil	5.9	38.6	0.57	106.8	0.008	2	2.42	<0.001	0.11	0.2	4.1	0.18	0.02	67	0.5	0.05	6.5	5.99	<0.1	0.07
REP 1267996	QC	5.8	36.9	0.49	102.1	0.009	2	2.49	<0.001	0.11	0.2	4.0	0.18	0.02	58	0.6	0.05	6.2	5.78	<0.1	0.07
Reference Materials																					
STD DS8	Standard	15.8	122.7	0.62	267.5	0.114	2	1.02	0.121	0.44	2.8	2.2	5.56	0.16	195	5.2	5.17	5.0	2.50	<0.1	0.08
STD DS8	Standard	14.6	123.0	0.64	258.9	0.112	3	1.04	0.114	0.45	2.8	2.4	5.52	0.17	193	5.3	5.14	4.8	2.50	<0.1	0.08
STD DS8	Standard	17.0	124.0	0.63	292.6	0.107	2	1.03	0.115	0.44	2.7	2.3	5.53	0.16	209	5.1	5.14	4.9	2.49	<0.1	0.07
STD DS8	Standard	15.9	124.1	0.63	302.4	0.107	3	1.01	0.110	0.45	3.0	2.2	5.53	0.16	207	4.9	4.96	4.7	2.43	<0.1	0.07
STD DS8	Standard	15.3	121.3	0.61	263.2	0.112	3	0.99	0.112	0.44	2.8	2.2	5.36	0.16	204	5.0	4.92	4.8	2.42	<0.1	0.10
STD DS8	Standard	15.4	116.8	0.60	265.4	0.110	3	0.99	0.100	0.42	2.8	2.1	5.32	0.15	188	4.9	5.01	4.5	2.34	<0.1	0.09
STD DS8	Standard	17.5	120.5	0.63	279.4	0.118	2	0.98	0.098	0.42	2.8	2.5	5.43	0.17	230	5.0	5.05	4.6	2.46	<0.1	0.07
STD DS8	Standard	15.0	119.3	0.61	274.9	0.114	2	0.94	0.093	0.41	4.0	2.1	5.46	0.16	194	5.5	5.06	4.8	2.49	<0.1	0.07
STD DS8	Standard	16.7	122.6	0.63	269.8	0.112	3	0.94	0.093	0.42	2.7	2.4	5.52	0.17	186	5.3	5.23	4.7	2.52	<0.1	0.07
STD DS8	Standard	17.4	118.7	0.61	290.7	0.121	3	1.00	0.112	0.43	2.8	2.4	5.36	0.15	166	4.8	4.71	4.8	2.35	0.1	0.06
STD DS8	Standard	17.3	126.9	0.63	291.7	0.120	4	1.01	0.117	0.45	3.2	2.5	5.62	0.16	212	5.1	5.12	4.9	2.49	0.1	0.10
STD DS8	Standard	15.1	120.0	0.62	249.4	0.113	2	0.91	0.089	0.42	2.7	2.3	5.33	0.16	198	4.9	4.92	4.6	2.47	<0.1	0.08
STD OREAS131B	Standard																				
STD SU-1B	Standard																				
STD OREAS131B Expected																					
STD SU-1B Expected																					
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 2 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001354.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2	7TD Zn %
1267243	Soil	0.10	4.0	3.6	<0.05	1.0	13.77	14.8	0.04	<1	0.7	4.5	15	<2	
REP 1267243	QC	0.09	4.4	3.7	<0.05	0.9	13.68	14.9	0.04	<1	0.7	4.7	<10	<2	
1267249	Soil	0.12	4.2	0.8	<0.05	1.1	13.24	15.9	0.03	<1	0.5	5.3	<10	<2	
REP 1267249	QC	0.12	4.2	0.7	<0.05	1.2	13.88	16.5	0.04	<1	0.6	5.6	<10	<2	
1267996	Soil	0.70	16.8	1.3	<0.05	2.7	5.53	15.5	0.09	<1	2.0	39.8	<10	<2	
REP 1267996	QC	0.69	16.1	1.4	<0.05	2.6	5.41	15.2	0.07	<1	1.8	38.2	<10	<2	
Reference Materials															
STD DS8	Standard	1.27	38.2	6.4	<0.05	1.5	6.09	30.2	2.22	57	5.2	27.3	106	353	
STD DS8	Standard	1.31	38.8	6.5	<0.05	1.7	5.67	27.9	2.31	66	5.1	27.0	103	341	
STD DS8	Standard	1.43	38.8	7.2	<0.05	1.6	6.21	31.1	2.26	62	4.5	28.4	101	360	
STD DS8	Standard	1.32	38.8	7.1	<0.05	1.5	5.99	30.3	2.20	62	4.7	28.9	108	360	
STD DS8	Standard	1.38	37.9	6.6	<0.05	2.1	5.72	27.7	2.19	60	5.1	25.3	139	346	
STD DS8	Standard	1.33	37.6	6.6	<0.05	1.9	5.85	27.0	2.12	52	5.2	25.3	100	341	
STD DS8	Standard	1.32	38.2	6.9	<0.05	1.8	6.24	30.5	2.18	57	5.0	26.1	122	366	
STD DS8	Standard	1.38	37.6	6.7	<0.05	1.6	5.94	28.1	2.24	59	5.0	26.8	139	353	
STD DS8	Standard	1.32	39.2	6.8	<0.05	1.9	6.16	29.5	2.25	64	5.4	26.7	113	354	
STD DS8	Standard	1.52	36.4	6.7	<0.05	1.8	6.77	31.7	1.98	42	4.7	27.8	125	334	
STD DS8	Standard	1.52	38.5	6.9	<0.05	2.1	6.74	32.1	2.21	56	4.7	28.2	132	354	
STD DS8	Standard	1.39	37.3	6.4	<0.05	2.1	5.74	26.0	2.10	59	5.0	27.2	141	342	
STD OREAS131B	Standard														3.26
STD SU-1B	Standard														0.03
STD OREAS131B Expected															3.14
STD SU-1B Expected															0.0235
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: October 31, 2011

Page: 3 of 3 **Part** 1

QUALITY CONTROL REPORT

WHI11001354.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: October 31, 2011

Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001354.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

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Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: October 31, 2011

Page: 3 of 3 **Part** 3

QUALITY CONTROL REPORT

WHI11001354.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2	7TD Zn % 0.01
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank														<0.01
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	



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830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 29, 2011
Report Date: October 31, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001355.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-24
P.O. Number: NA-10337
Number of Samples: 321

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, 1F05, RJSV, and 7TD.

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: David Clark
database backup
Simon Ridgway
Scott Turton



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1267790	Soil			1.16	35.35	22.97	73.6	46	15.3	14.7	3716	3.19	6.9	0.7	3.1	0.3	4.6	0.32	0.68	0.45	42	0.03	0.063
1267791	Soil			1.05	37.23	30.32	74.0	59	15.3	22.5	2004	3.88	6.4	0.7	0.9	1.6	3.8	0.27	0.48	0.43	32	0.03	0.053
1267792	Soil			1.27	15.44	7451	7783	157	17.4	5.6	865	3.24	9.2	1.0	2.1	1.3	26.1	7.69	0.48	0.18	23	5.58	0.110
1267793	Soil			0.57	2.94	243.2	793.4	49	5.0	2.5	1917	1.08	4.5	1.8	0.7	0.8	41.4	1.76	0.17	0.06	8	16.37	0.067
1267794	Soil			1.43	8.92	1013	2849	90	17.4	8.6	4215	4.61	9.6	1.3	3.4	1.8	13.0	8.74	0.54	0.24	33	2.57	0.072
1267795	Soil			1.68	10.11	156.3	2883	43	17.5	6.6	1778	5.43	10.6	1.1	0.9	1.4	6.8	1.24	0.44	0.28	42	0.33	0.098
1267796	Soil			1.08	9.83	177.8	851.0	43	17.5	9.1	5634	5.06	9.3	1.6	0.3	2.8	5.8	0.77	0.36	0.23	37	0.21	0.096
1267797	Soil			1.10	10.52	41.97	607.2	138	17.2	7.6	3005	4.34	10.8	1.8	0.8	0.8	14.5	2.14	0.48	0.22	43	2.44	0.154
1267798	Soil			1.25	9.91	80.50	734.1	36	17.6	9.8	2395	3.82	9.9	1.1	0.3	2.2	8.5	3.29	0.43	0.25	39	0.63	0.063
1267799	Soil			1.16	10.42	106.1	1901	127	15.5	6.4	3050	5.46	9.3	1.7	1.1	2.0	27.9	4.25	0.32	0.16	19	6.75	0.071
1267800	Soil			0.80	16.34	49.83	250.3	78	14.5	6.6	294	3.21	4.8	0.9	0.3	3.0	12.5	0.45	0.25	0.32	16	0.40	0.044
1267294	Soil			4.62	19.59	16.83	87.6	47	28.2	4.8	184	2.06	35.0	4.8	0.6	2.9	134.0	0.30	1.11	0.25	78	9.68	0.101
1267295	Soil			3.88	16.22	16.95	72.7	29	32.2	5.6	156	1.90	45.8	6.2	0.8	2.8	122.5	0.32	1.10	0.23	68	13.31	0.105
1267296	Soil			0.94	13.57	17.33	77.0	63	14.3	5.5	401	1.20	9.8	1.7	0.8	0.3	61.1	0.34	0.50	0.12	32	9.99	0.070
1267297	Soil			1.34	7.62	7.27	18.7	26	12.1	4.9	194	0.80	16.9	1.9	0.4	0.9	77.5	0.11	0.75	0.10	16	17.45	0.025
1267298	Soil			3.52	10.45	10.42	28.5	19	15.0	4.4	117	0.77	16.5	7.8	0.7	1.2	182.3	0.21	0.60	0.13	27	18.40	0.091
1267299	Soil			0.81	3.91	5.42	15.9	23	4.3	1.8	251	0.32	3.6	0.8	<0.2	0.2	40.8	0.11	0.29	0.05	17	19.13	0.031
1267300	Soil			1.63	6.23	7.10	13.2	13	7.8	2.8	160	0.46	10.4	3.0	0.3	0.4	103.8	0.12	0.58	0.05	17	20.29	0.033
1267301	Soil			1.35	15.07	15.33	106.9	62	20.5	8.1	925	1.85	13.3	1.2	1.1	0.4	32.3	0.35	0.94	0.19	47	9.12	0.096
1267302	Soil			0.45	5.08	5.49	21.7	35	5.8	2.7	279	0.47	6.4	1.2	<0.2	0.2	45.4	0.15	0.39	0.05	13	17.91	0.038
1267303	Soil			0.73	9.51	9.80	58.0	68	11.4	4.7	401	1.05	10.3	1.3	0.4	0.3	40.0	0.27	0.54	0.11	28	13.87	0.072
1267304	Soil			0.38	3.92	4.78	20.2	30	4.4	1.8	449	0.42	6.3	1.2	<0.2	0.2	48.8	0.16	0.27	0.04	15	14.93	0.028
1267305	Soil			1.24	16.83	17.23	114.1	122	19.1	8.3	886	2.01	13.5	1.9	0.5	0.3	26.2	0.65	0.83	0.22	48	3.82	0.113
1267306	Soil			2.69	12.21	19.20	108.5	73	16.6	7.8	568	1.94	16.0	2.8	0.6	0.5	32.5	0.68	0.71	0.20	43	4.28	0.089
1267307	Soil			1.61	7.62	11.27	30.7	45	14.4	3.9	260	0.87	9.2	2.9	0.5	0.6	69.6	0.26	0.55	0.08	26	15.37	0.055
1267308	Soil			1.63	9.47	123.5	416.9	253	14.8	5.3	797	3.93	19.4	1.1	1.0	0.8	47.1	1.01	1.24	0.10	22	11.57	0.053
1267309	Soil			1.25	11.98	73.31	249.7	166	19.5	8.0	897	3.39	19.0	1.5	1.1	1.8	34.4	0.53	0.91	0.18	38	5.33	0.071
1267310	Soil			0.73	17.31	25.61	81.6	62	19.9	7.5	370	1.57	16.2	4.7	0.4	2.5	63.7	0.25	0.82	0.15	26	9.78	0.127
1267311	Soil			0.89	4.54	6.11	32.6	26	9.1	2.5	227	0.47	8.8	2.1	<0.2	0.3	76.1	0.15	0.51	0.04	16	17.91	0.043
1267312	Soil			1.01	49.52	87.27	147.3	168	37.7	34.1	916	3.63	35.0	1.9	<0.2	4.4	14.8	0.12	0.76	0.51	16	0.22	0.043



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method Analyte	1F15																				
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267790	Soil	5.9	26.1	0.15	135.0	0.010	2	1.27	<0.001	0.11	0.1	1.1	0.11	0.04	36	0.3	0.06	5.3	1.69	<0.1	<0.02
1267791	Soil	3.8	24.5	0.18	93.3	0.011	3	1.25	<0.001	0.13	0.1	2.8	0.12	0.04	29	0.3	0.08	4.6	3.07	<0.1	<0.02
1267792	Soil	7.9	16.2	3.20	319.5	0.012	3	0.96	0.006	0.03	0.1	1.7	1.34	0.05	933	0.5	0.02	2.9	0.79	<0.1	0.03
1267793	Soil	4.9	6.5	8.52	101.0	0.005	2	0.31	0.007	0.02	<0.1	1.0	0.23	<0.02	41	0.3	<0.02	0.8	0.29	<0.1	0.02
1267794	Soil	14.1	24.8	1.69	1032	0.014	1	1.88	0.001	0.03	0.1	3.3	0.99	0.05	261	0.4	0.04	4.1	0.90	<0.1	0.03
1267795	Soil	7.5	28.1	0.38	196.1	0.006	2	1.84	<0.001	0.04	0.2	1.9	0.94	0.04	37	0.2	0.03	5.1	1.29	<0.1	<0.02
1267796	Soil	15.6	25.1	0.27	166.6	0.005	2	1.89	<0.001	0.04	0.1	3.2	0.66	0.03	63	0.2	0.03	4.6	1.38	<0.1	0.04
1267797	Soil	12.4	25.1	1.35	135.8	0.010	2	1.68	0.002	0.04	<0.1	1.7	0.31	0.08	105	0.5	0.04	4.0	0.98	<0.1	0.03
1267798	Soil	10.6	25.3	0.46	161.8	0.007	2	1.86	<0.001	0.05	0.1	3.2	0.32	0.03	39	0.2	0.06	4.5	1.19	<0.1	<0.02
1267799	Soil	9.5	15.4	3.65	131.5	0.006	2	0.95	0.005	0.03	<0.1	2.5	0.73	<0.02	78	0.4	0.04	2.4	0.55	<0.1	0.04
1267800	Soil	4.8	10.8	0.16	78.8	0.002	2	0.74	<0.001	0.08	<0.1	2.3	0.22	0.04	22	0.2	0.04	2.1	0.74	<0.1	0.03
1267294	Soil	13.6	15.9	3.97	74.4	0.003	11	0.70	0.005	0.15	<0.1	2.1	0.38	<0.02	34	0.4	0.05	2.1	12.91	<0.1	0.08
1267295	Soil	10.9	14.1	3.90	63.7	0.003	10	0.50	0.006	0.13	<0.1	1.9	0.39	<0.02	22	0.4	0.06	1.8	10.33	<0.1	0.06
1267296	Soil	7.5	13.5	5.05	63.2	0.006	5	0.68	0.005	0.05	0.1	0.7	0.25	0.05	37	0.3	<0.02	1.6	1.01	<0.1	<0.02
1267297	Soil	4.3	7.8	8.17	27.3	0.002	3	0.21	0.007	0.04	<0.1	1.2	0.63	<0.02	19	0.3	0.03	0.6	0.94	<0.1	0.03
1267298	Soil	8.1	8.6	6.59	52.8	0.002	6	0.35	0.008	0.09	<0.1	1.1	0.78	<0.02	15	0.3	0.05	0.9	6.93	<0.1	0.04
1267299	Soil	5.5	5.1	9.86	28.4	0.005	2	0.23	0.005	0.02	<0.1	0.4	0.15	<0.02	12	0.3	<0.02	0.5	0.37	<0.1	<0.02
1267300	Soil	3.9	5.9	9.49	25.1	0.002	2	0.15	0.008	0.03	<0.1	0.6	0.28	<0.02	16	0.4	<0.02	0.4	0.91	<0.1	0.03
1267301	Soil	18.1	21.0	4.96	75.6	0.008	3	1.22	0.003	0.05	<0.1	1.1	0.24	0.07	44	0.6	0.04	2.2	0.86	<0.1	0.02
1267302	Soil	5.7	5.6	9.10	30.4	0.005	2	0.27	0.005	0.02	<0.1	0.4	0.12	<0.02	8	0.3	<0.02	0.6	0.24	<0.1	<0.02
1267303	Soil	9.5	11.6	7.35	55.5	0.008	4	0.68	0.008	0.03	<0.1	0.8	0.15	<0.02	17	0.4	<0.02	1.3	0.58	<0.1	<0.02
1267304	Soil	4.7	5.7	7.81	31.1	0.005	2	0.22	0.006	0.02	<0.1	0.5	0.23	<0.02	13	0.3	<0.02	0.5	0.24	<0.1	<0.02
1267305	Soil	12.9	21.7	1.75	116.4	0.010	4	1.18	0.007	0.05	0.1	1.0	0.29	0.14	53	0.5	0.05	3.1	1.05	<0.1	<0.02
1267306	Soil	8.9	17.9	1.75	129.4	0.005	4	0.96	0.004	0.06	<0.1	1.3	0.27	0.09	51	0.4	<0.02	2.6	0.83	<0.1	<0.02
1267307	Soil	7.0	10.6	7.43	42.7	0.008	3	0.40	0.008	0.05	<0.1	1.1	0.22	<0.02	34	0.4	<0.02	1.0	1.07	<0.1	<0.02
1267308	Soil	6.9	12.7	4.91	68.1	0.003	4	0.71	0.004	0.07	<0.1	1.5	1.70	<0.02	207	0.3	<0.02	1.8	0.81	<0.1	0.05
1267309	Soil	13.3	26.9	3.00	123.1	0.006	5	1.36	0.004	0.10	<0.1	2.8	1.11	0.03	84	0.3	0.03	3.2	1.15	<0.1	0.04
1267310	Soil	8.4	26.3	4.98	58.5	0.004	7	0.78	0.007	0.17	<0.1	2.2	0.97	<0.02	74	0.2	0.04	2.1	1.74	<0.1	0.05
1267311	Soil	4.6	7.7	8.71	27.6	0.003	2	0.22	0.007	0.03	<0.1	0.7	0.35	<0.02	21	0.4	<0.02	0.6	0.48	<0.1	<0.02
1267312	Soil	9.1	17.8	0.27	180.9	0.003	5	1.00	0.001	0.24	<0.1	5.4	0.69	0.08	48	0.3	0.10	2.8	21.83	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 2 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
1267790	Soil	0.43	16.1	1.3	<0.05	<0.1	3.17	13.7	0.05	<1	0.9	6.5	<10	<2
1267791	Soil	0.62	16.0	2.7	<0.05	0.3	2.64	8.9	0.04	<1	0.7	11.8	<10	<2
1267792	Soil	0.39	5.8	0.5	<0.05	0.8	7.31	16.0	0.03	<1	0.4	8.6	<10	<2
1267793	Soil	0.13	3.9	1.1	<0.05	0.7	4.76	10.0	<0.02	<1	0.2	2.9	<10	<2
1267794	Soil	0.53	5.7	0.9	<0.05	0.9	10.95	28.9	0.03	<1	0.9	9.7	<10	<2
1267795	Soil	0.59	8.8	1.2	<0.05	0.6	4.43	16.7	0.04	<1	1.1	13.8	<10	<2
1267796	Soil	0.36	9.8	0.8	<0.05	1.4	13.47	32.3	0.03	<1	1.1	9.8	<10	<2
1267797	Soil	0.38	8.4	1.2	<0.05	0.9	13.57	23.0	0.03	<1	1.0	10.5	<10	<2
1267798	Soil	0.62	13.1	3.9	<0.05	0.8	8.34	29.8	0.03	<1	0.9	12.7	<10	2
1267799	Soil	0.25	5.1	0.9	<0.05	1.1	10.00	17.2	<0.02	<1	0.8	7.2	<10	<2
1267800	Soil	0.19	7.9	0.8	<0.05	1.2	5.53	10.7	0.03	<1	0.6	7.3	<10	<2
1267294	Soil	0.22	15.3	1.8	<0.05	3.1	11.44	33.0	<0.02	<1	0.9	8.8	<10	<2
1267295	Soil	0.24	12.5	4.9	<0.05	3.0	9.89	26.6	0.03	3	0.7	6.7	<10	<2
1267296	Soil	0.22	5.2	0.9	<0.05	0.5	6.87	15.7	<0.02	<1	0.5	5.6	<10	<2
1267297	Soil	0.08	2.7	1.0	<0.05	1.1	4.81	10.0	<0.02	<1	0.3	1.6	<10	<2
1267298	Soil	0.08	7.4	1.4	<0.05	1.3	5.77	18.1	<0.02	2	0.3	3.0	<10	<2
1267299	Soil	0.08	1.9	0.8	<0.05	0.4	6.09	7.3	<0.02	2	0.2	1.7	<10	<2
1267300	Soil	0.05	2.1	2.0	<0.05	0.6	4.32	7.3	<0.02	2	0.2	1.4	<10	<2
1267301	Soil	0.36	7.7	1.1	<0.05	0.5	17.79	28.3	0.03	<1	0.8	8.1	<10	<2
1267302	Soil	0.10	2.1	0.4	<0.05	0.4	5.75	8.1	<0.02	<1	0.2	2.1	<10	<2
1267303	Soil	0.26	4.1	0.7	<0.05	0.7	9.15	14.9	<0.02	<1	0.4	4.7	<10	<2
1267304	Soil	0.08	1.8	1.0	<0.05	0.3	6.29	6.4	<0.02	<1	0.2	1.7	<10	<2
1267305	Soil	0.64	6.8	1.6	<0.05	0.7	11.05	22.6	0.03	1	0.5	8.9	<10	<2
1267306	Soil	0.52	8.1	1.6	<0.05	0.7	7.32	20.1	<0.02	<1	0.6	7.1	<10	<2
1267307	Soil	0.17	3.9	3.4	<0.05	0.6	7.08	13.2	<0.02	2	0.3	3.5	<10	<2
1267308	Soil	0.16	5.8	2.2	<0.05	1.2	9.78	12.8	<0.02	<1	0.6	4.4	<10	<2
1267309	Soil	0.36	10.4	1.8	<0.05	1.6	11.96	27.9	0.03	<1	0.7	10.6	<10	<2
1267310	Soil	0.21	10.0	3.2	<0.05	2.2	9.05	19.3	0.03	2	0.5	7.7	<10	<2
1267311	Soil	0.12	2.3	1.0	<0.05	0.6	6.78	7.4	<0.02	<1	0.2	2.0	<10	<2
1267312	Soil	0.15	24.0	7.1	<0.05	1.8	13.38	23.9	0.06	<1	1.5	11.4	<10	2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1267313	Soil	0.39	14.87	10.21	21.4	53	9.7	2.1	92	0.45	2.4	6.9	0.9	0.1	76.6	0.26	0.36	0.12	4	4.36	0.091
1267314	Soil	0.67	23.17	28.44	124.6	136	23.7	8.6	284	2.78	12.2	2.0	2.1	2.5	35.6	0.32	0.63	0.19	31	1.11	0.055
1267315	Soil	0.77	20.56	21.25	94.3	110	21.8	8.8	371	2.16	8.7	6.0	1.0	1.8	44.1	0.31	0.66	0.19	31	1.39	0.056
1267316	Soil	0.85	23.37	21.53	97.2	133	22.8	9.3	358	2.68	9.3	2.4	2.8	2.9	54.6	0.32	0.66	0.19	36	1.44	0.052
1267317	Soil	0.98	22.50	16.26	88.8	130	23.7	9.3	308	2.30	8.2	2.0	2.9	3.5	62.1	0.33	0.61	0.25	29	1.91	0.066
1267318	Soil	0.66	25.47	23.92	80.3	132	17.9	8.2	509	2.20	6.6	8.2	2.1	0.7	75.5	0.32	0.85	0.21	26	2.23	0.089
1267319	Soil	0.91	25.81	39.80	147.6	133	27.3	12.6	558	3.20	12.7	1.2	6.7	3.4	40.3	0.50	1.51	0.40	26	1.30	0.051
1267320	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1267321	Soil	0.62	32.50	22.49	137.1	127	24.3	9.9	328	2.46	6.9	4.0	7.3	2.1	55.1	0.31	0.88	0.37	28	1.51	0.068
1267322	Soil	0.97	29.61	25.59	131.5	135	26.3	9.5	371	2.49	7.8	1.9	5.2	2.2	56.0	0.34	1.09	0.27	22	2.49	0.065
1267323	Soil	0.53	25.69	26.18	137.0	113	23.7	10.0	408	2.47	7.8	2.5	4.3	2.8	45.9	0.39	1.05	0.27	23	1.38	0.061
1267324	Soil	0.42	27.40	21.32	134.4	100	23.9	9.4	383	2.17	6.1	1.8	5.6	2.5	51.9	0.39	0.85	0.35	21	1.76	0.067
1266701	Soil	0.99	35.09	36.33	89.4	136	29.6	14.9	419	3.44	28.2	0.8	2.5	2.2	98.8	0.20	1.10	0.33	32	2.51	0.077
1266702	Soil	1.06	22.54	55.07	212.8	186	25.9	11.5	615	3.42	29.5	0.9	1.4	1.5	20.8	0.65	2.18	0.28	44	0.78	0.065
1266703	Soil	1.11	14.96	72.41	368.4	152	22.4	10.1	943	3.01	20.9	0.9	2.0	0.8	19.2	1.73	1.04	0.29	43	1.33	0.086
1266704	Soil	1.09	25.23	100.8	666.5	118	23.5	13.6	761	3.49	27.1	1.0	1.5	0.9	77.9	1.79	1.13	0.33	42	2.70	0.099
1266705	Soil	1.42	32.06	28.72	89.4	246	20.7	17.7	673	4.29	9.0	0.7	2.2	0.8	7.2	0.27	0.82	0.29	47	0.06	0.080
1266706	Soil	1.42	32.67	24.86	89.9	204	21.8	21.8	789	4.28	8.8	0.7	1.0	0.9	7.7	0.26	0.84	0.29	46	0.06	0.073
1266707	Soil	1.40	26.26	34.59	129.9	169	18.7	19.9	1091	5.65	13.1	0.5	0.7	1.3	8.0	0.46	1.37	0.34	53	0.04	0.072
1266708	Soil	1.31	30.00	34.62	132.3	185	20.0	20.5	946	5.70	11.5	0.5	1.5	1.6	7.9	0.53	1.16	0.34	52	0.04	0.071
1266709	Soil	3.08	19.89	15.15	96.8	219	34.0	10.9	441	2.85	16.0	1.5	1.9	2.3	17.9	0.33	0.90	0.25	47	0.79	0.080
1266710	Soil	4.23	21.01	19.17	100.3	152	31.3	12.1	447	2.70	15.5	2.2	0.9	2.0	26.4	0.41	0.83	0.23	39	3.71	0.093
1266711	Soil	1.56	10.69	15.82	60.5	53	18.3	7.0	293	2.51	12.5	1.2	2.1	0.6	13.9	0.16	0.50	0.29	50	0.76	0.084
1266712	Soil	1.57	20.18	23.98	89.8	181	28.9	11.1	230	2.92	8.8	1.1	0.5	1.9	13.1	0.13	0.33	0.31	29	0.59	0.078
1266713	Soil	2.06	14.53	17.06	43.6	25	14.4	5.3	117	1.94	6.2	0.5	0.4	1.0	4.0	0.05	0.38	0.19	18	0.11	0.053
1266714	Soil	3.11	17.60	17.72	119.2	109	59.9	14.8	498	3.30	16.6	2.5	1.2	1.8	14.9	0.52	0.95	0.27	53	0.26	0.075
1266715	Soil	7.29	23.12	21.61	167.9	41	35.8	13.4	243	3.92	23.9	1.8	<0.2	2.9	18.5	0.50	1.64	0.21	54	0.29	0.057
1266716	Soil	0.86	19.38	16.27	104.8	119	23.9	8.3	526	3.12	7.2	2.2	1.4	1.7	38.8	0.32	0.39	0.26	39	0.70	0.093
1266717	Soil	1.38	10.34	13.52	70.1	20	15.7	5.4	230	2.66	9.8	0.6	1.0	0.5	11.6	0.12	0.59	0.27	57	0.21	0.041
1266718	Soil	1.00	12.66	24.15	61.6	107	15.1	7.1	304	2.02	4.9	0.7	1.6	0.4	10.7	0.09	0.38	0.36	29	0.23	0.081



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 31, 2011

Page: 3 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	Analyte	Unit	MDL	1F15 La	1F15 Cr	1F15 Mg	1F15 Ba	1F15 Ti	1F15 B	1F15 Al	1F15 Na	1F15 K	1F15 W	1F15 Sc	1F15 Ti	1F15 S	1F15 Hg	1F15 Se	1F15 Te	1F15 Ga	1F15 Cs	1F15 Ge	1F15 Hf
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1267313	Soil			2.5	7.1	0.44	100.5	0.003	7	0.36	0.003	0.02	<0.1	0.3	0.13	0.19	91	0.8	<0.02	0.9	0.45	<0.1	0.06
1267314	Soil			18.2	34.1	0.61	89.4	0.006	5	1.18	0.001	0.11	<0.1	4.2	0.34	0.04	134	0.6	<0.02	3.4	1.45	<0.1	0.06
1267315	Soil			15.3	36.1	0.86	113.9	0.012	6	1.27	0.008	0.10	<0.1	3.5	0.32	0.07	67	1.3	<0.02	3.8	2.64	<0.1	0.07
1267316	Soil			20.3	38.5	0.85	119.6	0.008	3	1.28	0.003	0.07	<0.1	5.1	0.19	0.04	72	0.9	<0.02	4.0	1.36	<0.1	0.06
1267317	Soil			20.0	35.3	1.12	99.9	0.012	3	0.99	0.005	0.07	<0.1	5.2	0.15	0.03	64	1.1	<0.02	3.2	1.64	<0.1	0.06
1267318	Soil			10.9	26.0	0.63	261.8	0.006	4	1.14	0.003	0.08	<0.1	2.2	0.16	0.10	94	2.0	<0.02	3.1	1.04	<0.1	0.04
1267319	Soil			14.3	25.1	0.89	153.6	0.003	5	1.23	0.003	0.10	<0.1	4.7	0.17	0.04	126	0.8	0.03	3.7	1.33	<0.1	0.08
1267320	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1267321	Soil			14.0	32.3	0.67	164.9	0.004	4	1.13	0.003	0.09	<0.1	4.3	0.20	0.08	112	2.2	<0.02	3.7	1.57	<0.1	0.11
1267322	Soil			13.1	28.9	1.17	152.7	0.003	5	0.94	0.004	0.09	0.1	3.8	0.21	0.05	92	1.4	<0.02	2.7	1.40	<0.1	0.07
1267323	Soil			15.6	26.2	0.87	178.2	0.004	5	1.12	0.004	0.10	<0.1	3.7	0.19	0.05	72	1.1	<0.02	3.4	1.28	<0.1	0.08
1267324	Soil			14.9	28.5	0.82	207.1	0.006	9	1.15	0.004	0.11	<0.1	3.4	0.18	0.08	82	1.1	0.03	3.4	1.85	<0.1	0.08
1266701	Soil			17.5	22.7	0.28	128.4	0.008	4	1.00	0.007	0.09	0.1	3.9	0.66	0.04	238	0.5	0.07	3.2	1.61	<0.1	0.05
1266702	Soil			14.7	26.1	0.35	162.8	0.009	2	1.69	0.004	0.06	0.2	3.3	0.30	0.04	302	0.4	0.06	4.7	1.41	<0.1	0.03
1266703	Soil			10.9	27.3	0.47	135.5	0.013	2	1.66	0.006	0.06	0.2	1.9	0.19	0.07	131	0.5	0.05	4.6	1.13	<0.1	<0.02
1266704	Soil			13.9	25.1	0.28	144.2	0.007	3	1.44	0.004	0.08	0.1	3.5	0.38	0.06	842	0.6	0.06	4.1	1.19	<0.1	0.03
1266705	Soil			7.0	31.7	0.30	59.6	0.017	2	1.67	0.003	0.08	0.2	2.1	0.13	0.05	55	0.5	0.05	5.9	4.02	<0.1	<0.02
1266706	Soil			7.0	31.7	0.29	60.2	0.017	2	1.66	0.003	0.09	0.1	2.3	0.13	0.05	66	0.5	0.03	5.5	4.02	<0.1	<0.02
1266707	Soil			6.3	31.5	0.21	65.3	0.013	2	1.67	0.002	0.10	<0.1	2.5	0.14	0.04	67	0.4	0.07	7.6	4.49	<0.1	<0.02
1266708	Soil			5.4	31.4	0.23	64.9	0.008	2	1.67	0.002	0.10	0.1	2.6	0.13	0.04	61	0.4	0.04	7.5	4.31	<0.1	<0.02
1266709	Soil			21.0	32.8	0.67	163.6	0.017	3	1.43	0.007	0.07	0.2	3.2	0.30	0.02	40	0.4	0.06	4.5	1.21	<0.1	0.02
1266710	Soil			14.9	22.0	2.22	117.0	0.011	5	1.22	0.007	0.10	0.1	2.7	0.27	0.03	39	0.5	0.08	3.6	1.28	<0.1	0.03
1266711	Soil			10.2	26.3	0.38	141.1	0.010	3	1.62	0.003	0.08	0.1	1.5	0.28	0.06	29	0.3	0.04	5.7	1.61	<0.1	<0.02
1266712	Soil			9.7	23.8	0.35	143.5	0.002	6	1.66	0.002	0.18	<0.1	3.3	0.25	0.04	24	0.4	0.23	4.6	2.78	<0.1	0.09
1266713	Soil			7.6	14.0	0.14	56.0	0.002	3	0.77	0.002	0.11	<0.1	1.0	0.18	0.02	7	0.2	0.04	2.7	1.61	<0.1	0.03
1266714	Soil			18.4	32.8	0.48	155.8	0.015	4	2.47	0.004	0.10	0.1	3.2	0.36	0.03	34	0.5	0.07	5.2	2.03	0.1	0.03
1266715	Soil			11.3	21.1	0.27	271.4	<0.001	7	1.68	0.002	0.22	<0.1	3.7	0.61	0.02	16	0.7	0.04	4.6	2.12	<0.1	0.06
1266716	Soil			27.5	27.6	0.57	151.5	0.010	7	1.76	0.004	0.16	<0.1	3.0	0.21	0.06	41	0.5	0.05	5.3	1.80	<0.1	0.05
1266717	Soil			12.1	26.4	0.37	127.5	0.018	2	1.74	0.003	0.06	0.2	1.2	0.21	0.02	24	0.4	0.04	6.7	1.89	<0.1	<0.02
1266718	Soil			15.1	20.8	0.31	102.8	0.008	6	1.16	0.005	0.16	<0.1	1.2	0.13	0.06	26	0.4	0.04	4.2	2.44	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 31, 2011

Page: 3 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
1267313	Soil	0.21	1.4	3.9	<0.05	1.9	3.09	4.9	<0.02	<1	0.3	1.9	<10	<2
1267314	Soil	0.34	9.9	1.1	<0.05	2.4	12.68	34.4	0.03	1	0.9	16.9	<10	<2
1267315	Soil	0.53	14.5	3.0	<0.05	2.6	10.44	31.2	0.03	<1	0.8	20.5	<10	<2
1267316	Soil	0.55	9.7	1.4	<0.05	2.7	15.85	41.5	0.03	<1	1.0	20.4	<10	<2
1267317	Soil	0.53	9.3	1.5	<0.05	3.4	14.28	43.0	0.03	<1	0.8	17.7	<10	<2
1267318	Soil	0.46	7.3	1.1	<0.05	1.6	9.10	25.0	0.03	<1	0.9	13.5	<10	<2
1267319	Soil	0.33	7.6	1.0	<0.05	3.1	14.69	32.8	0.06	<1	1.0	18.8	<10	<2
1267320	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1267321	Soil	0.36	9.3	0.7	<0.05	3.9	14.00	30.3	0.04	<1	0.9	17.9	<10	<2
1267322	Soil	0.28	7.7	2.4	<0.05	3.1	13.89	29.3	0.03	2	0.8	13.2	<10	2
1267323	Soil	0.39	8.3	3.6	<0.05	3.3	13.09	33.9	0.04	<1	0.9	18.3	<10	<2
1267324	Soil	0.35	10.4	0.5	<0.05	3.5	11.82	31.2	0.04	<1	0.8	18.3	<10	<2
1266701	Soil	0.31	7.3	4.1	<0.05	1.3	15.84	36.9	0.05	<1	0.7	8.4	<10	<2
1266702	Soil	0.40	8.8	0.7	<0.05	0.5	12.97	32.5	0.04	<1	0.8	11.7	<10	<2
1266703	Soil	0.61	8.9	0.9	<0.05	0.5	10.29	26.8	0.02	<1	0.7	11.7	<10	<2
1266704	Soil	0.41	11.5	0.9	<0.05	0.7	13.94	40.5	0.06	1	1.0	9.9	<10	<2
1266705	Soil	0.84	12.3	11.1	<0.05	0.3	3.38	15.2	0.04	<1	0.8	16.7	<10	<2
1266706	Soil	0.75	12.2	2.8	<0.05	0.2	3.42	15.5	0.03	<1	0.7	17.5	<10	<2
1266707	Soil	0.71	15.9	10.1	<0.05	0.3	2.85	14.0	0.05	<1	0.5	17.8	<10	<2
1266708	Soil	0.69	15.2	7.0	<0.05	0.5	2.98	12.3	0.04	<1	0.7	19.4	<10	<2
1266709	Soil	0.46	9.7	0.7	<0.05	0.8	15.40	39.2	0.03	<1	0.9	13.3	<10	<2
1266710	Soil	0.39	10.5	1.3	<0.05	1.2	12.69	30.2	0.03	1	0.8	12.0	<10	<2
1266711	Soil	0.66	11.9	0.7	<0.05	0.3	4.61	28.0	0.03	<1	0.6	12.9	<10	<2
1266712	Soil	0.31	22.3	1.3	<0.05	2.6	10.09	22.5	0.05	1	1.4	16.1	<10	<2
1266713	Soil	0.14	12.6	0.8	<0.05	1.0	3.52	20.5	<0.02	<1	0.5	5.5	<10	<2
1266714	Soil	0.67	14.3	1.0	<0.05	0.9	14.68	66.6	0.03	<1	1.1	20.3	<10	<2
1266715	Soil	0.13	20.8	0.8	<0.05	2.2	8.83	38.8	0.04	2	1.5	12.8	<10	<2
1266716	Soil	0.42	19.6	1.0	<0.05	1.3	13.67	45.5	0.04	3	1.0	25.0	<10	<2
1266717	Soil	0.53	10.8	0.7	<0.05	<0.1	3.78	27.1	0.03	<1	0.5	14.8	<10	<2
1266718	Soil	0.24	16.3	19.6	<0.05	<0.1	6.69	34.1	0.05	1	0.6	12.1	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1266719	Soil			10.54	27.23	21.27	212.2	241	60.2	11.9	339	3.24	51.1	10.0	2.2	2.1	37.1	0.73	1.47	0.29	56	1.32	0.155
1266720	Soil			0.45	10.60	14.14	58.1	89	15.5	7.0	346	1.90	3.7	0.5	1.5	2.1	12.5	0.12	0.33	0.18	17	0.37	0.056
1266721	Soil			0.68	10.78	14.32	58.6	31	16.6	7.5	368	2.29	6.1	0.5	1.0	2.1	6.7	0.13	0.37	0.24	29	0.14	0.047
1266722	Soil			0.49	14.34	21.59	62.2	100	17.2	9.0	1320	2.01	12.0	0.6	1.0	1.4	17.2	0.24	0.28	0.24	18	0.70	0.069
1266723	Soil			0.75	22.29	21.90	68.2	37	13.8	10.1	821	4.04	7.0	0.7	0.3	0.6	4.4	0.10	0.25	0.37	25	0.03	0.070
1266724	Soil			0.63	17.47	20.55	69.5	17	23.3	10.9	1124	3.07	6.8	0.6	2.4	2.0	5.6	0.10	0.29	0.30	24	0.06	0.047
1266725	Soil			1.25	13.90	15.40	56.9	55	12.3	6.8	507	2.78	5.7	0.6	0.5	1.2	7.0	0.10	0.29	0.32	38	0.10	0.044
1266726	Soil			0.88	32.33	13.85	54.2	15	11.4	16.2	1465	4.11	4.7	0.8	1.3	2.5	4.9	0.04	0.32	0.41	32	0.03	0.058
1266727	Soil			1.27	24.24	20.20	84.3	28	21.8	12.0	737	3.27	8.2	0.9	1.4	2.7	9.2	0.10	0.36	0.31	35	0.14	0.034
1266728	Soil			1.84	29.39	40.45	112.2	18	23.5	16.5	1453	4.67	11.8	1.0	1.1	3.1	7.5	0.16	0.46	0.37	35	0.09	0.040
1266729	Soil			0.90	41.14	28.29	94.1	54	25.4	12.7	532	3.32	8.9	1.5	1.6	3.1	14.3	0.07	0.33	0.37	19	0.27	0.046
1266730	Soil			1.28	14.86	29.58	58.0	20	14.6	15.5	1498	4.06	11.4	0.6	1.2	3.1	4.8	0.06	0.50	0.40	41	0.03	0.036
1266731	Soil			1.91	14.92	43.45	100.0	67	17.7	8.4	1125	2.10	14.1	2.5	2.6	3.0	206.2	0.27	1.05	0.25	22	9.42	0.097
1266732	Soil			1.03	37.05	49.68	330.5	93	27.5	12.2	684	3.27	6.5	1.4	1.8	2.8	17.9	0.94	0.57	0.36	24	0.53	0.072
1266733	Soil			1.36	15.68	32.89	310.2	106	24.5	10.0	942	3.12	12.4	1.7	1.1	2.3	29.0	0.48	0.74	0.34	39	0.96	0.202
1266734	Soil			1.22	19.43	219.1	1083	262	22.4	9.4	843	3.11	18.7	1.6	2.7	2.0	28.6	2.76	0.72	0.30	27	1.31	0.108
1266735	Soil			2.05	12.85	50.28	325.5	84	19.5	8.9	596	3.06	12.6	1.8	<0.2	1.6	19.4	0.80	0.81	0.31	39	0.75	0.115
1266736	Soil			0.95	19.21	157.3	765.1	289	18.0	8.1	809	2.94	13.1	2.0	0.3	1.6	33.7	1.17	0.90	0.27	17	3.09	0.116
1266737	Soil			1.77	17.88	31.16	107.4	168	26.6	10.9	601	2.79	8.2	2.2	<0.2	1.0	46.5	0.28	0.42	0.21	31	2.52	0.113
1266738	Soil			1.57	14.73	35.13	168.2	146	21.7	8.7	378	2.43	9.2	1.6	0.3	1.4	42.4	0.51	0.45	0.19	25	4.70	0.109
1266739	Soil			1.36	16.18	35.66	136.5	155	16.4	7.3	379	2.25	8.2	3.6	0.3	0.9	45.6	0.52	0.46	0.20	26	2.17	0.147
1266740	Soil			0.75	28.77	28.83	109.5	105	23.0	9.4	415	2.41	8.0	5.0	5.3	1.6	52.7	0.55	0.34	0.20	36	1.87	0.094
1266741	Soil			0.92	28.72	37.96	118.4	192	25.2	10.7	565	2.69	10.9	3.5	3.6	1.3	44.7	0.62	0.73	0.24	36	1.41	0.090
1266742	Soil			0.65	36.74	21.27	126.6	127	26.5	10.2	392	2.66	8.6	7.4	3.4	1.8	39.0	0.42	0.41	0.24	38	1.00	0.090
1266743	Soil			1.30	14.03	63.65	189.5	103	16.6	7.1	516	2.62	8.5	1.8	0.3	1.8	42.4	0.35	0.47	0.30	33	1.56	0.084
1266744	Soil			1.35	21.79	41.38	152.3	101	28.3	12.3	587	3.19	9.3	1.4	1.2	3.9	16.0	0.38	0.45	0.34	32	0.67	0.059
1266745	Soil			0.93	25.95	34.24	132.2	103	24.4	10.7	558	2.49	9.5	1.8	2.4	3.3	34.6	0.36	0.40	0.27	28	3.34	0.075
1266746	Soil			0.71	32.34	25.01	112.6	122	26.6	13.0	504	2.90	14.5	2.5	1.3	3.9	39.8	0.27	0.94	0.33	21	0.93	0.080
1266747	Soil			0.44	31.56	29.04	125.0	103	27.0	10.7	285	2.64	6.8	2.2	3.2	3.2	33.2	0.25	0.43	0.25	25	1.06	0.082
1266748	Soil			1.43	32.94	42.91	197.2	159	33.8	12.3	920	2.98	10.9	3.3	1.1	4.0	28.2	0.45	0.66	0.30	28	0.73	0.127



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 4 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1266719	Soil	15.9	26.0	0.39	253.0	0.004	16	1.29	0.005	0.28	<0.1	3.7	1.13	0.11	59	1.6	0.08	3.8	2.31	<0.1	0.12
1266720	Soil	19.8	15.6	0.36	82.7	0.007	6	1.09	0.003	0.17	<0.1	2.7	0.12	0.03	23	0.1	<0.02	3.1	2.28	<0.1	0.02
1266721	Soil	13.7	21.5	0.38	123.2	0.005	4	1.68	0.002	0.14	<0.1	2.0	0.17	0.02	15	0.3	0.02	4.7	1.92	<0.1	0.03
1266722	Soil	14.7	15.7	0.36	88.9	0.005	4	1.00	0.003	0.09	<0.1	2.7	0.10	0.04	38	0.3	0.03	2.9	0.98	<0.1	0.04
1266723	Soil	4.1	27.5	0.23	73.4	0.005	2	1.50	0.003	0.10	<0.1	1.6	0.09	0.05	16	0.4	0.04	6.8	2.85	<0.1	0.02
1266724	Soil	5.2	22.9	0.34	76.4	0.005	2	1.52	0.003	0.10	0.1	2.1	0.10	0.03	13	0.2	0.04	4.6	2.10	<0.1	0.04
1266725	Soil	5.5	22.9	0.21	69.1	0.005	2	1.43	0.004	0.11	0.1	1.7	0.17	0.03	33	0.4	0.03	6.6	2.44	<0.1	<0.02
1266726	Soil	4.1	29.3	0.17	62.0	0.005	<1	1.62	0.005	0.14	<0.1	2.6	0.16	0.04	17	0.4	0.04	8.6	3.25	<0.1	0.03
1266727	Soil	9.5	27.0	0.32	182.8	0.005	3	1.60	0.004	0.15	<0.1	3.0	0.17	<0.02	16	0.1	0.02	6.0	2.45	<0.1	<0.02
1266728	Soil	6.7	32.1	0.34	88.5	0.006	2	1.70	0.004	0.14	<0.1	3.0	0.17	<0.02	19	0.3	0.02	6.9	3.58	<0.1	0.02
1266729	Soil	6.4	20.6	0.26	180.2	0.003	4	1.07	0.004	0.16	<0.1	5.2	0.19	0.05	33	0.1	0.03	3.4	7.56	<0.1	0.05
1266730	Soil	6.7	29.1	0.23	70.4	0.008	<1	1.58	0.003	0.09	0.1	2.3	0.14	<0.02	27	0.4	0.06	7.5	2.75	<0.1	<0.02
1266731	Soil	9.3	19.1	5.59	109.2	0.004	3	0.85	0.006	0.07	0.1	3.4	0.57	<0.02	341	0.3	0.03	2.1	1.14	<0.1	0.05
1266732	Soil	9.2	21.6	0.28	158.5	0.005	4	1.11	0.003	0.18	<0.1	4.6	0.21	0.06	610	0.4	0.03	3.8	3.59	<0.1	0.09
1266733	Soil	13.3	30.2	0.63	187.6	0.011	3	1.67	0.005	0.10	0.2	3.3	0.20	0.04	287	0.4	0.08	5.0	1.87	<0.1	0.07
1266734	Soil	9.6	20.0	0.67	144.6	0.004	3	1.19	0.003	0.11	<0.1	3.3	0.39	0.06	4810	0.6	0.03	3.9	1.94	<0.1	0.08
1266735	Soil	12.9	24.6	0.36	143.7	0.006	3	1.36	0.003	0.13	0.1	2.6	0.29	0.06	214	0.5	0.03	4.7	1.67	<0.1	0.05
1266736	Soil	6.6	11.2	1.43	144.0	0.003	5	0.86	0.004	0.09	<0.1	2.2	0.59	0.10	1239	0.5	0.06	2.2	2.66	<0.1	0.09
1266737	Soil	15.9	23.4	0.84	184.8	0.004	8	1.26	0.003	0.14	<0.1	2.2	0.21	0.08	193	0.6	0.03	3.5	1.22	<0.1	0.06
1266738	Soil	14.3	19.1	2.49	93.5	0.004	8	0.90	0.006	0.14	<0.1	2.5	0.23	0.06	2446	0.4	0.04	2.4	1.16	<0.1	0.09
1266739	Soil	11.8	17.9	0.35	195.1	0.003	5	1.02	0.005	0.09	<0.1	1.8	0.21	0.16	403	0.7	0.06	2.9	0.95	<0.1	0.08
1266740	Soil	21.9	30.1	1.24	92.0	0.005	5	1.53	0.003	0.13	<0.1	3.1	0.15	0.10	834	0.8	0.04	4.7	1.25	<0.1	0.08
1266741	Soil	22.9	29.1	0.64	158.4	0.009	4	1.33	0.004	0.09	0.1	2.8	0.14	0.07	195	1.0	0.03	4.0	1.15	<0.1	0.06
1266742	Soil	25.1	44.5	1.91	153.9	0.010	4	2.00	0.003	0.10	<0.1	3.6	0.16	0.08	112	1.8	0.03	6.4	2.47	<0.1	0.10
1266743	Soil	9.9	20.8	0.53	171.6	0.003	3	1.35	0.003	0.10	<0.1	2.5	0.19	0.06	3646	0.6	0.06	4.5	1.19	<0.1	0.08
1266744	Soil	15.0	25.9	0.45	132.8	0.004	5	1.32	0.002	0.17	<0.1	4.0	0.18	0.03	990	0.4	0.05	4.0	1.31	<0.1	0.15
1266745	Soil	14.9	27.0	2.39	115.4	0.006	5	1.40	0.004	0.13	<0.1	3.8	0.15	0.03	621	0.7	<0.02	4.1	1.64	<0.1	0.12
1266746	Soil	13.7	21.2	0.50	60.5	0.002	6	0.70	0.003	0.17	<0.1	4.2	0.22	0.05	107	0.7	0.07	2.8	3.38	<0.1	0.08
1266747	Soil	22.1	35.1	1.18	270.5	0.004	4	1.58	0.001	0.11	<0.1	4.2	0.16	0.07	75	1.2	0.03	4.9	1.44	<0.1	0.15
1266748	Soil	15.2	27.6	0.63	149.6	0.005	4	1.33	0.003	0.12	<0.1	4.6	0.17	0.04	536	0.7	0.05	4.1	2.01	<0.1	0.15



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 4 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
1266719	Soil	0.49	19.1	1.7	<0.05	4.4	18.25	32.6	0.04	5	1.1	11.3	<10	<2
1266720	Soil	0.26	14.9	0.8	<0.05	0.9	13.04	44.0	0.02	<1	0.6	13.5	<10	<2
1266721	Soil	0.34	18.5	0.6	<0.05	0.7	4.66	44.4	0.03	1	0.7	17.2	<10	<2
1266722	Soil	0.21	9.8	1.7	<0.05	1.0	13.44	32.9	0.02	<1	0.8	16.1	<10	<2
1266723	Soil	0.32	14.6	1.3	<0.05	0.6	4.95	11.7	0.03	<1	1.0	13.6	<10	<2
1266724	Soil	0.30	12.2	2.9	<0.05	0.9	4.15	22.3	0.05	<1	0.9	27.8	<10	<2
1266725	Soil	0.41	17.0	3.3	<0.05	0.4	3.47	12.5	<0.02	2	0.6	17.3	<10	<2
1266726	Soil	0.45	21.3	1.9	<0.05	1.1	5.50	9.9	0.04	<1	0.7	11.1	<10	<2
1266727	Soil	0.26	20.0	1.3	<0.05	0.6	8.15	25.9	0.02	<1	1.1	20.6	<10	<2
1266728	Soil	0.34	18.4	2.0	<0.05	0.6	5.93	16.9	0.04	<1	0.9	25.9	<10	<2
1266729	Soil	0.30	16.6	2.7	<0.05	1.4	12.77	14.0	0.04	<1	1.2	14.5	<10	<2
1266730	Soil	0.58	17.4	2.8	<0.05	0.6	3.29	15.0	0.04	1	0.6	18.6	<10	<2
1266731	Soil	0.21	7.3	1.4	<0.05	1.7	10.64	19.9	0.05	<1	1.1	9.1	<10	<2
1266732	Soil	0.48	16.8	2.0	<0.05	2.1	11.76	20.6	0.03	<1	1.0	14.4	<10	<2
1266733	Soil	0.56	13.2	1.2	<0.05	1.4	11.13	28.2	0.03	<1	1.3	18.1	<10	<2
1266734	Soil	0.39	11.0	1.2	<0.05	2.1	9.64	17.6	0.03	<1	1.0	8.6	<10	<2
1266735	Soil	0.56	15.9	1.3	<0.05	1.3	9.37	28.7	0.04	<1	0.9	12.9	<10	<2
1266736	Soil	0.24	8.5	0.8	<0.05	2.7	10.23	13.7	0.04	<1	1.0	4.7	<10	<2
1266737	Soil	0.45	11.1	2.1	<0.05	2.7	14.74	38.1	0.03	<1	1.1	11.7	<10	<2
1266738	Soil	0.30	10.3	1.1	<0.05	3.1	13.27	28.0	<0.02	<1	0.8	8.4	<10	<2
1266739	Soil	0.42	8.4	0.5	<0.05	3.0	11.45	22.5	0.04	<1	1.1	7.5	<10	<2
1266740	Soil	0.39	12.3	2.0	<0.05	3.0	13.96	39.5	0.03	<1	1.0	33.8	<10	<2
1266741	Soil	0.50	9.8	0.7	<0.05	1.9	15.72	38.0	0.03	<1	1.1	19.5	<10	<2
1266742	Soil	0.44	13.9	0.9	<0.05	3.2	19.31	42.4	0.04	<1	1.1	49.6	<10	<2
1266743	Soil	0.56	12.4	1.1	<0.05	2.1	8.94	16.6	0.03	<1	0.8	16.2	<10	<2
1266744	Soil	0.45	13.4	0.8	<0.05	4.5	12.84	26.9	0.03	<1	1.2	20.2	<10	<2
1266745	Soil	0.34	10.7	1.4	<0.05	3.7	12.83	29.6	0.03	<1	1.1	26.8	<10	<2
1266746	Soil	0.12	11.9	1.1	<0.05	2.9	13.20	29.5	0.03	<1	0.9	10.9	<10	<2
1266747	Soil	0.29	10.8	0.5	<0.05	4.7	15.12	41.7	0.04	<1	1.2	31.0	<10	<2
1266748	Soil	0.31	10.8	1.0	<0.05	4.6	15.90	36.9	0.04	<1	1.2	23.6	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1267101	Soil	0.54	55.81	27.41	97.9	47	31.8	12.8	548	2.72	4.1	1.1	7.2	8.2	18.1	0.18	0.45	0.33	27	0.29	0.085
1267102	Soil	0.36	67.18	43.08	105.2	42	34.5	16.3	401	2.58	6.8	1.2	5.6	8.2	22.4	0.15	0.24	0.38	22	0.94	0.077
1267103	Soil	0.28	38.78	22.97	122.3	74	49.3	14.0	298	3.43	3.3	2.3	1.3	5.7	23.3	0.20	0.15	0.36	21	0.70	0.088
1267104	Soil	0.58	28.39	73.15	277.0	212	30.6	12.5	246	3.06	13.5	1.0	0.6	4.4	52.5	0.51	0.58	0.32	8	0.94	0.172
1267105	Soil	0.71	22.64	42.14	137.8	157	20.9	9.1	259	2.55	11.2	1.4	0.3	1.9	44.7	0.25	0.44	0.35	10	1.50	0.120
1267106	Soil	2.32	42.33	40.23	151.3	178	30.2	12.7	329	3.78	16.0	1.5	0.6	6.3	46.4	0.43	0.55	0.47	18	0.98	0.115
1267107	Soil	1.95	54.11	32.35	131.9	172	41.9	16.9	631	4.26	11.5	0.9	1.4	4.6	24.4	0.27	0.63	0.44	22	0.29	0.079
1267108	Soil	1.32	29.01	38.13	120.3	142	24.4	11.6	529	4.40	7.6	0.6	0.8	1.2	25.5	0.21	0.60	0.35	39	0.62	0.123
1267109	Soil	1.09	36.59	30.86	112.6	43	34.6	22.2	782	4.68	9.4	0.9	1.2	4.3	8.3	0.30	0.66	0.32	35	0.07	0.079
1267110	Soil	1.26	35.92	21.94	82.2	48	26.0	13.4	251	4.06	8.0	0.4	0.8	1.8	7.8	0.17	0.62	0.33	36	0.07	0.063
1267111	Soil	1.23	64.80	35.31	110.0	239	44.6	26.1	625	5.80	10.5	0.7	1.1	3.3	21.6	0.18	0.64	0.45	43	0.60	0.093
1267112	Soil	1.35	52.18	29.06	123.7	73	29.7	24.1	642	5.76	8.2	0.6	0.7	3.2	10.5	0.20	0.66	0.38	46	0.05	0.051
1267113	Soil	1.34	50.99	32.78	114.0	55	41.7	23.5	391	5.49	8.5	0.7	1.2	4.2	11.7	0.21	0.54	0.35	32	0.06	0.041
1267114	Soil	0.77	38.70	25.22	91.0	217	26.1	15.7	889	4.60	7.2	0.9	0.8	1.8	48.3	0.23	0.43	0.26	24	1.59	0.100
1267115	Soil	1.17	22.36	554.8	4099	455	15.7	10.3	1058	2.83	30.1	0.8	1.3	2.0	23.3	11.80	2.42	0.26	38	2.87	0.046
1267116	Soil	1.07	62.77	41.42	120.1	76	30.6	23.0	490	8.04	10.0	0.8	0.3	3.7	11.8	0.49	0.63	0.37	50	0.11	0.072
1267117	Soil	0.94	36.56	155.6	669.1	179	30.4	19.5	876	3.64	62.2	0.6	0.9	0.7	40.0	2.99	10.87	0.26	33	2.60	0.117
1267118	Soil	0.93	11.23	92.05	439.9	389	9.6	5.6	1576	1.90	15.7	0.5	0.3	0.3	36.2	1.98	7.23	0.09	17	9.75	0.092
1267119	Soil	0.79	21.93	82.31	499.9	542	16.5	8.7	1574	2.61	34.1	1.2	1.9	1.0	67.6	1.92	8.51	0.23	21	8.30	0.138
1267120	Soil	0.58	9.62	30.48	405.8	272	9.2	4.8	1325	1.74	30.0	0.9	1.8	0.5	43.5	1.84	51.52	0.18	19	11.40	0.065
1267121	Soil	1.95	22.67	108.9	480.2	635	22.5	12.0	4963	5.68	100.9	2.1	1.6	0.9	24.0	3.37	15.34	0.34	51	2.48	0.202
1267122	Soil	1.62	24.53	18.32	71.6	135	18.6	8.8	358	3.21	8.5	0.8	2.2	0.3	7.6	0.11	0.82	0.36	42	0.09	0.093
1267123	Soil	1.56	28.63	19.10	94.4	61	25.3	12.5	372	3.88	10.0	0.9	1.8	0.5	10.9	0.31	0.83	0.41	46	0.06	0.064
1267124	Soil	1.39	46.79	31.07	109.4	129	33.6	18.3	444	5.57	8.7	0.6	1.5	3.1	12.4	0.19	0.73	0.38	39	0.03	0.051
1267125	Soil	0.71	74.74	47.23	515.8	139	49.7	53.4	1624	7.15	8.6	1.0	1.9	4.6	33.2	1.94	0.87	0.37	39	0.22	0.039
1267126	Soil	0.80	88.79	28.73	132.7	44	48.2	49.3	665	7.56	9.5	0.7	0.9	3.9	17.6	0.15	0.69	0.37	43	0.02	0.031
1267127	Soil	1.74	42.16	27.15	102.2	54	27.1	16.8	484	4.32	10.2	1.0	2.6	2.5	15.2	0.13	0.99	0.39	52	0.08	0.073
1267128	Soil	1.26	33.12	37.68	164.0	130	31.3	17.9	962	4.52	11.0	2.4	1.2	1.3	95.1	0.97	0.86	0.35	44	0.88	0.139
1267129	Soil	1.11	21.42	43.24	220.9	37	26.5	11.1	510	3.40	13.6	1.2	1.3	1.3	42.9	0.23	1.01	0.33	54	0.35	0.085
1267130	Soil	1.18	23.63	32.75	128.8	61	25.5	11.7	517	3.31	15.8	1.1	2.7	1.8	25.0	0.17	0.97	0.35	45	0.57	0.073



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 31, 2011

Page: 5 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267101	Soil	32.3	36.0	1.47	496.2	0.018	4	1.54	0.004	0.10	0.1	5.1	0.07	<0.02	34	0.4	0.07	4.9	4.74	<0.1	0.12
1267102	Soil	31.3	39.7	1.89	179.7	0.009	4	1.77	0.003	0.11	<0.1	4.9	0.06	<0.02	23	0.5	0.02	5.6	2.74	<0.1	0.14
1267103	Soil	16.3	45.0	1.27	64.8	0.005	5	1.99	0.003	0.12	<0.1	6.8	0.08	0.04	32	0.6	0.04	6.4	1.56	<0.1	0.23
1267104	Soil	10.9	8.9	0.14	67.8	0.002	5	0.54	0.004	0.12	<0.1	4.1	0.13	0.08	169	1.0	0.06	1.5	3.03	<0.1	0.13
1267105	Soil	5.0	10.6	0.20	104.5	0.002	6	0.70	0.009	0.13	<0.1	2.3	0.14	0.15	125	0.6	0.06	2.2	1.71	<0.1	0.11
1267106	Soil	7.3	16.9	0.46	131.2	0.003	5	1.00	0.016	0.20	<0.1	4.0	0.21	0.25	128	0.9	0.07	3.2	1.92	<0.1	0.15
1267107	Soil	9.4	14.8	0.21	100.9	0.003	3	0.76	0.002	0.13	<0.1	6.1	0.17	0.06	185	0.6	0.08	2.5	1.46	<0.1	0.08
1267108	Soil	7.4	22.3	0.28	140.5	0.004	3	1.25	0.002	0.11	<0.1	3.0	0.17	0.06	35	0.5	0.07	4.6	2.12	<0.1	0.03
1267109	Soil	9.0	26.5	0.26	63.2	0.005	2	1.78	<0.001	0.09	<0.1	4.2	0.13	0.03	39	0.6	0.05	3.9	2.11	<0.1	0.10
1267110	Soil	7.5	18.0	0.15	89.7	0.004	2	0.81	0.002	0.09	<0.1	3.1	0.10	0.04	42	0.5	0.06	4.1	1.14	<0.1	<0.02
1267111	Soil	10.1	29.3	0.42	124.2	0.005	3	1.39	0.003	0.12	<0.1	8.7	0.18	0.06	87	0.7	0.09	4.2	4.97	<0.1	0.10
1267112	Soil	5.5	27.6	0.22	75.9	0.005	3	1.60	<0.001	0.11	<0.1	4.9	0.16	0.03	39	0.5	0.11	6.3	4.81	<0.1	0.06
1267113	Soil	6.2	22.3	0.28	74.8	0.004	2	1.40	<0.001	0.10	<0.1	5.4	0.19	0.02	35	0.6	0.08	4.1	3.80	<0.1	0.06
1267114	Soil	7.6	17.6	0.26	123.1	0.003	3	0.96	0.005	0.07	<0.1	6.1	0.13	0.12	97	1.1	0.06	2.7	2.84	<0.1	0.11
1267115	Soil	8.5	18.0	1.68	135.1	0.010	1	1.11	0.003	0.07	0.1	3.1	0.24	0.02	951	0.7	0.06	4.5	2.11	<0.1	0.04
1267116	Soil	5.0	44.6	0.26	66.4	0.008	3	3.37	<0.001	0.11	<0.1	7.9	0.19	0.04	336	0.9	0.03	6.7	5.29	<0.1	0.13
1267117	Soil	9.6	21.9	0.45	134.6	0.007	5	1.35	0.006	0.10	0.1	3.3	0.35	0.10	95	1.0	0.06	3.5	1.79	<0.1	0.03
1267118	Soil	5.7	9.2	5.64	701.5	0.005	3	0.62	0.009	0.04	<0.1	1.1	0.24	0.06	289	0.7	0.05	1.4	0.68	<0.1	<0.02
1267119	Soil	9.5	11.2	4.18	125.9	0.005	5	0.80	0.011	0.11	0.1	2.6	0.33	0.05	348	0.7	0.02	1.8	1.38	<0.1	0.04
1267120	Soil	5.8	9.0	6.20	1164	0.008	3	0.57	0.011	0.03	0.2	1.2	0.18	0.07	172	0.4	0.02	1.2	0.42	<0.1	<0.02
1267121	Soil	14.3	24.8	1.18	555.9	0.011	3	1.76	0.009	0.05	0.1	2.5	0.34	0.11	334	0.9	0.07	4.3	1.35	<0.1	0.04
1267122	Soil	8.1	21.9	0.23	78.6	0.005	2	1.28	0.005	0.06	0.1	1.1	0.17	0.07	47	0.4	<0.02	5.1	2.41	<0.1	<0.02
1267123	Soil	10.1	29.1	0.36	78.8	0.013	3	1.73	0.005	0.09	0.1	1.9	0.16	0.05	39	0.7	0.04	5.5	2.78	<0.1	<0.02
1267124	Soil	5.4	22.2	0.23	75.6	0.003	2	1.63	0.004	0.08	<0.1	5.0	0.18	0.03	32	0.5	0.03	4.7	3.10	<0.1	0.03
1267125	Soil	8.8	29.1	0.51	193.5	0.004	4	1.87	0.005	0.11	<0.1	10.1	0.13	0.03	172	0.3	0.03	5.0	2.91	<0.1	0.07
1267126	Soil	5.1	38.6	0.53	60.5	0.008	3	2.33	0.004	0.10	<0.1	7.6	0.12	0.02	33	0.3	0.03	6.7	5.39	<0.1	0.05
1267127	Soil	12.9	33.8	0.55	75.8	0.024	3	1.98	0.008	0.11	0.2	4.5	0.18	0.03	40	0.6	0.04	6.0	5.21	<0.1	<0.02
1267128	Soil	18.7	33.9	0.35	193.3	0.010	4	2.15	0.007	0.09	0.1	4.7	0.16	0.07	53	0.6	0.03	4.9	2.90	<0.1	<0.02
1267129	Soil	14.4	32.4	0.56	176.0	0.013	2	2.13	0.006	0.08	0.2	2.7	0.22	0.04	48	0.3	0.05	6.3	3.16	<0.1	0.02
1267130	Soil	15.8	27.5	0.42	169.7	0.010	3	1.72	0.006	0.08	0.2	3.2	0.33	0.04	66	0.4	0.05	5.3	4.35	<0.1	0.03



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 5 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
1267101	Soil	0.30	9.2	1.1	<0.05	5.6	21.92	64.9	0.03	1	1.4	39.1	<10	<2
1267102	Soil	0.15	8.1	0.9	<0.05	6.4	16.17	67.2	0.03	<1	1.2	43.2	<10	<2
1267103	Soil	0.24	8.3	0.8	<0.05	7.5	22.50	31.2	0.04	<1	1.4	51.1	<10	<2
1267104	Soil	0.07	7.2	0.6	<0.05	4.4	18.21	24.6	0.04	<1	1.0	6.9	<10	<2
1267105	Soil	0.11	6.9	0.9	<0.05	3.7	10.94	11.9	0.03	<1	0.7	8.5	<10	<2
1267106	Soil	0.11	9.1	0.9	<0.05	5.2	11.92	20.0	0.03	1	1.2	18.1	<10	<2
1267107	Soil	0.12	7.5	1.0	<0.05	2.6	16.66	21.8	0.04	2	1.1	10.1	<10	<2
1267108	Soil	0.36	14.6	1.5	<0.05	0.9	5.24	17.3	0.03	1	0.8	13.5	<10	<2
1267109	Soil	0.39	11.2	1.0	<0.05	2.5	5.15	24.4	0.05	<1	0.8	27.0	<10	<2
1267110	Soil	0.28	9.8	1.9	<0.05	0.7	3.98	17.2	0.03	<1	0.4	7.0	<10	<2
1267111	Soil	0.32	13.2	2.1	<0.05	2.8	17.46	20.4	0.04	<1	0.9	22.6	<10	<2
1267112	Soil	0.36	16.0	1.5	<0.05	2.1	5.29	13.4	0.05	<1	0.9	22.3	<10	<2
1267113	Soil	0.26	11.5	1.9	<0.05	2.4	6.07	17.2	0.05	<1	1.4	26.0	<10	<2
1267114	Soil	0.31	7.8	1.2	<0.05	3.1	21.76	14.4	0.03	<1	0.9	10.9	<10	<2
1267115	Soil	0.44	8.6	0.8	<0.05	1.1	6.85	18.2	<0.02	<1	0.6	9.9	<10	<2
1267116	Soil	0.90	13.1	0.9	<0.05	5.3	6.56	18.8	0.07	<1	1.1	31.7	<10	<2
1267117	Soil	0.27	8.9	0.8	<0.05	1.1	13.06	21.5	0.03	<1	0.9	13.6	<10	<2
1267118	Soil	0.15	4.0	2.2	<0.05	0.5	11.35	12.8	<0.02	<1	0.3	4.3	<10	<2
1267119	Soil	0.16	6.4	0.7	<0.05	1.4	16.15	21.2	0.06	<1	0.5	6.7	12	<2
1267120	Soil	0.18	2.7	1.2	<0.05	0.5	8.16	12.1	0.02	<1	0.5	4.4	<10	<2
1267121	Soil	0.34	8.8	0.7	<0.05	1.2	27.89	30.3	0.09	<1	1.1	11.3	<10	<2
1267122	Soil	0.37	12.9	1.5	<0.05	0.2	3.78	16.6	<0.02	<1	0.3	9.0	<10	<2
1267123	Soil	0.54	13.1	1.0	<0.05	<0.1	4.43	20.8	0.04	<1	0.6	19.6	<10	<2
1267124	Soil	0.38	13.4	0.8	<0.05	1.6	4.41	12.1	0.05	<1	0.9	23.0	<10	<2
1267125	Soil	0.10	9.1	0.9	<0.05	2.7	18.57	19.1	0.06	<1	1.2	33.6	<10	<2
1267126	Soil	0.18	11.5	0.9	<0.05	3.3	6.89	12.1	0.05	<1	1.3	39.1	<10	<2
1267127	Soil	0.46	15.8	0.9	<0.05	0.2	5.37	25.5	0.05	<1	0.7	24.3	<10	<2
1267128	Soil	0.52	14.2	0.8	<0.05	0.8	14.83	54.4	0.05	<1	1.1	17.9	<10	<2
1267129	Soil	0.53	15.8	0.8	<0.05	0.5	7.07	29.5	0.03	<1	0.7	20.3	<10	<2
1267130	Soil	0.52	13.5	1.2	<0.05	0.7	9.06	33.6	0.03	<1	0.8	14.9	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 31, 2011

Page: 6 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1267131	Soil			0.69	45.38	38.66	189.7	144	31.3	17.9	488	3.75	20.3	0.8	1.3	1.4	139.8	0.45	0.78	0.32	20	5.26	0.094
1267132	Soil			0.72	30.64	49.14	227.1	179	24.5	15.1	789	3.42	16.1	1.2	1.8	0.9	110.9	0.67	0.91	0.28	30	2.74	0.103
1267133	Soil			0.89	17.49	39.31	260.1	230	15.7	8.6	1198	2.49	20.8	1.1	1.2	0.6	46.6	1.48	3.47	0.17	28	6.37	0.096
1267134	Soil			1.03	15.44	29.04	144.7	169	18.6	10.5	856	2.53	34.3	1.8	1.6	0.5	42.9	0.75	6.86	0.27	40	2.10	0.100
1267135	Soil			0.91	20.60	42.07	201.2	430	20.9	8.5	4922	4.38	38.6	1.4	2.5	2.4	140.4	0.74	9.42	0.17	24	7.98	0.144
1267136	Soil			3.72	12.59	11.53	65.8	30	25.9	5.2	168	1.46	29.6	3.1	0.3	1.8	108.6	0.22	1.02	0.15	46	14.26	0.058
1267137	Soil			2.57	9.09	8.70	38.4	36	14.7	4.6	155	0.85	20.2	1.8	<0.2	0.6	87.4	0.17	0.60	0.10	17	15.29	0.031
1267138	Soil			2.50	10.07	10.00	28.2	31	11.8	4.0	142	0.76	19.2	2.2	0.2	0.7	96.3	0.15	0.60	0.09	19	15.74	0.024
1267139	Soil			1.52	5.97	5.03	27.1	27	8.6	2.9	209	0.54	11.5	1.5	0.5	0.2	67.7	0.16	0.49	0.05	17	15.32	0.032
1267140	Soil			0.29	6.70	7.03	3.6	10	4.7	2.7	128	0.17	4.5	1.1	<0.2	0.2	43.6	0.05	0.25	<0.02	11	18.23	0.007
1267141	Soil			0.27	2.04	3.12	8.1	12	2.6	1.1	82	0.18	2.3	0.3	<0.2	0.1	17.0	0.08	0.11	0.02	4	5.97	0.010
1267142	Soil			0.51	4.52	10.13	34.0	69	6.3	2.4	293	0.55	6.2	0.4	1.1	0.3	23.8	0.19	0.36	0.21	10	5.95	0.027
1267143	Soil			0.47	4.34	16.92	61.8	52	5.9	2.5	323	0.71	4.5	0.5	0.6	0.2	33.7	0.28	0.36	0.09	12	6.44	0.030
1267144	Soil			1.37	9.40	37.65	166.6	108	14.1	5.7	594	1.75	12.8	1.4	1.5	0.3	43.1	0.54	0.85	0.13	27	9.09	0.082
1267145	Soil			3.63	14.70	13.16	87.6	20	31.4	5.6	150	1.70	35.8	5.6	1.1	2.8	145.8	0.39	1.18	0.21	60	16.38	0.090
1267146	Soil			1.42	13.54	70.20	247.3	115	17.3	8.5	763	3.46	16.3	1.6	1.4	1.4	34.3	0.60	0.95	0.22	43	5.03	0.069
1267147	Soil			0.75	13.23	22.07	80.2	89	15.9	7.3	364	1.92	8.5	2.7	1.2	1.6	193.5	0.30	0.52	0.18	26	9.66	0.049
1267148	Soil			1.27	13.53	19.43	79.9	72	18.3	7.3	410	1.92	10.1	1.8	1.6	1.1	42.0	0.26	0.58	0.16	31	5.09	0.065
1267149	Soil			1.42	15.05	30.30	124.1	32	23.3	9.1	391	3.09	13.1	2.0	1.5	2.6	19.3	0.27	0.80	0.26	44	0.80	0.045
1267150	Soil			1.83	15.92	29.27	116.8	89	21.6	6.5	359	2.23	15.4	3.5	2.1	0.7	42.3	0.39	0.81	0.22	31	4.08	0.121
1267408	Soil			0.57	35.38	28.48	94.3	55	27.0	15.7	995	3.87	8.8	1.1	1.1	2.8	8.4	0.06	0.24	0.44	25	0.11	0.051
1267409	Soil			1.31	14.99	16.34	77.8	108	11.7	5.0	268	3.12	7.6	0.7	1.8	0.4	9.3	0.13	0.56	0.34	41	0.11	0.257
1267410	Soil			0.76	18.18	23.23	133.0	41	19.8	8.7	456	3.43	5.5	0.6	0.3	3.7	6.8	0.25	0.51	0.29	30	0.08	0.043
1267411	Soil			0.49	23.85	37.83	123.4	49	28.1	9.6	394	2.82	5.3	3.6	1.5	2.1	39.9	0.34	0.43	0.37	23	1.24	0.077
1267412	Soil			0.42	61.28	47.07	144.8	69	29.3	10.4	269	2.70	37.2	1.6	2.8	3.0	21.3	0.30	0.50	0.38	18	1.09	0.067
1267413	Soil			0.94	37.05	88.64	246.2	159	25.9	10.0	359	2.63	15.0	1.9	6.5	4.1	61.4	0.84	0.82	0.23	20	2.57	0.071
1267414	Soil			0.54	39.31	17.20	104.6	116	27.6	10.3	262	2.49	9.9	2.2	7.0	3.6	33.8	0.29	0.46	0.23	28	1.24	0.065
1267415	Soil			2.27	19.24	27.01	89.2	469	19.2	8.6	296	2.09	11.9	2.1	3.6	2.2	70.5	0.31	0.66	0.20	16	1.79	0.059
1267416	Soil			1.12	22.24	39.42	118.9	90	18.0	14.8	1105	4.88	14.3	0.7	1.3	1.9	8.4	0.14	0.60	0.44	33	0.08	0.112
1267417	Soil			0.44	45.80	22.17	86.0	83	32.4	17.2	791	3.82	18.2	1.4	0.5	4.1	16.0	0.10	0.51	0.44	17	0.12	0.095



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: October 31, 2011

Page: 6 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15				
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf			
			ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm				
			0.5	0.5	0.01	0.5	0.001			1	0.01	0.001		0.1	0.1	0.02	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1267131	Soil		18.7	14.3	0.17	93.6	0.004	6	0.67	0.006	0.13	<0.1	4.4	0.53	0.06	238	0.7	0.06	1.7	3.11	<0.1	<0.02			
1267132	Soil		14.8	18.6	0.32	142.8	0.005	5	1.02	0.005	0.06	0.1	2.6	0.22	0.10	132	0.4	0.05	2.6	1.55	<0.1	0.05			
1267133	Soil		9.6	15.9	2.82	122.8	0.007	4	0.91	0.008	0.04	<0.1	1.7	0.16	0.07	178	0.4	0.04	2.3	0.81	<0.1	0.03			
1267134	Soil		9.3	23.8	0.45	137.1	0.011	3	1.39	0.005	0.05	0.2	1.2	0.16	0.10	90	0.3	0.03	3.9	0.97	<0.1	<0.02			
1267135	Soil		10.8	14.9	3.19	168.7	0.014	4	0.79	0.012	0.07	0.2	2.5	0.27	0.02	231	0.6	0.03	2.2	1.44	<0.1	<0.02			
1267136	Soil		9.4	9.2	6.04	51.2	0.005	9	0.48	0.010	0.11	<0.1	1.4	0.45	0.06	14	0.4	0.04	1.4	6.29	<0.1	0.03			
1267137	Soil		6.3	7.3	7.60	40.4	0.003	5	0.34	0.011	0.08	<0.1	1.0	1.17	0.09	11	0.4	0.02	0.8	1.94	<0.1	0.03			
1267138	Soil		6.4	6.5	7.79	35.3	0.003	5	0.33	0.012	0.09	<0.1	1.0	1.14	0.09	18	0.4	0.04	0.7	2.48	<0.1	0.04			
1267139	Soil		6.0	5.5	8.08	31.4	0.004	4	0.32	0.009	0.04	<0.1	0.5	0.53	0.08	<5	0.3	<0.02	0.7	0.96	<0.1	<0.02			
1267140	Soil		3.3	2.2	10.03	11.5	0.001	<1	0.07	0.004	<0.01	<0.1	0.3	0.37	0.08	<5	0.4	<0.02	0.2	0.41	<0.1	<0.02			
1267141	Soil		2.9	2.1	3.38	9.9	0.002	2	0.09	0.004	<0.01	<0.1	0.2	0.06	<0.02	<5	0.2	<0.02	0.1	0.16	<0.1	<0.02			
1267142	Soil		7.7	4.9	3.37	29.7	0.006	2	0.30	0.005	0.03	<0.1	0.6	0.20	<0.02	<5	0.4	<0.02	0.6	0.46	<0.1	<0.02			
1267143	Soil		6.2	4.2	3.49	37.2	0.004	3	0.32	0.005	0.03	<0.1	0.5	0.17	0.02	19	0.1	<0.02	0.7	0.38	<0.1	<0.02			
1267144	Soil		8.7	11.6	4.41	71.3	0.004	6	0.77	0.008	0.09	<0.1	0.8	0.66	0.07	37	0.3	<0.02	1.7	0.92	<0.1	<0.02			
1267145	Soil		10.8	9.7	4.11	75.0	0.004	10	0.63	0.008	0.15	<0.1	1.6	0.50	0.07	13	0.5	0.05	1.9	8.64	<0.1	0.04			
1267146	Soil		13.3	18.8	2.68	104.6	0.004	6	1.17	0.006	0.12	<0.1	2.3	0.85	0.05	91	0.4	0.04	2.9	1.51	<0.1	0.02			
1267147	Soil		10.8	19.3	1.90	99.6	0.009	7	1.11	0.008	0.14	<0.1	2.3	0.26	0.03	96	0.4	<0.02	3.0	1.46	<0.1	0.02			
1267148	Soil		13.3	20.2	2.76	90.0	0.010	6	1.15	0.009	0.13	<0.1	2.2	0.33	0.04	84	0.3	<0.02	2.9	1.69	<0.1	<0.02			
1267149	Soil		14.6	28.9	0.61	147.0	0.008	5	1.71	0.006	0.14	<0.1	3.1	0.31	0.04	40	0.3	<0.02	4.9	1.68	<0.1	0.04			
1267150	Soil		12.3	20.6	1.78	91.8	0.005	8	1.07	0.007	0.13	<0.1	1.7	0.47	0.08	90	0.4	0.04	2.9	1.54	<0.1	0.02			
1267408	Soil		5.9	30.0	0.53	125.0	0.003	2	2.07	0.007	0.13	<0.1	3.6	0.12	0.04	25	0.3	0.04	7.2	3.79	<0.1	0.05			
1267409	Soil		9.0	20.5	0.16	93.1	0.006	3	1.09	0.003	0.12	<0.1	0.9	0.14	0.04	66	0.4	0.04	5.8	4.74	<0.1	<0.02			
1267410	Soil		16.7	28.1	0.49	77.7	0.005	3	1.45	0.003	0.14	<0.1	1.9	0.13	0.02	24	0.2	0.03	6.8	2.65	<0.1	<0.02			
1267411	Soil		20.1	34.1	0.77	79.1	0.005	3	1.62	0.005	0.07	<0.1	4.3	0.11	0.07	34	0.2	0.02	5.2	1.40	<0.1	0.05			
1267412	Soil		18.0	31.1	1.17	76.1	0.002	3	1.34	<0.001	0.06	<0.1	4.8	0.08	0.03	19	0.3	0.02	4.0	0.87	<0.1	0.12			
1267413	Soil		17.1	23.7	1.48	57.7	0.003	5	0.92	0.002	0.14	<0.1	4.4	0.31	0.05	51	0.6	0.02	3.3	1.43	<0.1	0.12			
1267414	Soil		23.5	35.3	1.74	100.2	0.004	5	1.47	<0.001	0.10	<0.1	5.2	0.17	0.05	17	0.8	<0.02	4.9	2.94	<0.1	0.15			
1267415	Soil		13.6	11.2	0.82	40.5	0.001	3	0.46	<0.001	0.09	<0.1	2.9	0.25	0.05	78	0.7	<0.02	1.2	0.67	<0.1	0.13			
1267416	Soil		5.8	22.2	0.24	56.4	0.008	3	1.26	<0.001	0.11	<0.1	2.3	0.23	0.05	59	0.3	0.07	4.6	10.43	<0.1	<0.02			
1267417	Soil		7.4	15.7	0.10	52.0	<0.001	3	0.41	<0.001	0.12	<0.1	4.8	0.19	<0.02	<5	0.1	0.14	1.6	3.91	<0.1	<0.02			



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 6 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
1267131	Soil	0.15	8.1	1.0	<0.05	0.6	22.55	34.6	0.03	<1	0.6	4.8	<10	<2
1267132	Soil	0.40	5.7	7.2	<0.05	1.7	19.40	28.2	0.05	<1	0.6	8.3	<10	<2
1267133	Soil	0.37	4.8	0.8	<0.05	0.9	14.03	19.8	0.03	<1	0.5	7.1	<10	<2
1267134	Soil	0.73	6.3	1.0	<0.05	0.4	9.64	22.3	0.03	<1	0.4	11.3	<10	<2
1267135	Soil	0.21	6.1	0.7	<0.05	0.7	11.64	23.0	0.20	1	0.5	7.2	11	<2
1267136	Soil	0.21	8.8	2.0	<0.05	1.3	7.81	18.8	<0.02	<1	0.5	6.1	<10	<2
1267137	Soil	0.10	4.5	0.9	<0.05	0.8	5.59	10.1	<0.02	<1	0.3	2.2	<10	<2
1267138	Soil	0.08	5.1	2.7	<0.05	0.9	5.56	10.8	<0.02	1	0.3	2.1	<10	<2
1267139	Soil	0.08	3.4	0.6	<0.05	0.5	5.25	7.9	<0.02	<1	0.3	2.0	<10	<2
1267140	Soil	0.03	0.7	1.3	<0.05	0.3	3.25	3.5	<0.02	2	0.1	0.4	<10	<2
1267141	Soil	0.04	0.9	0.9	<0.05	0.3	2.41	2.7	<0.02	1	<0.1	0.4	<10	<2
1267142	Soil	0.10	2.6	0.7	<0.05	0.4	6.40	9.1	<0.02	<1	0.1	1.8	<10	<2
1267143	Soil	0.08	2.8	0.4	<0.05	0.2	5.41	8.1	<0.02	2	0.3	1.8	<10	<2
1267144	Soil	0.16	6.7	1.6	<0.05	0.2	8.89	14.7	<0.02	2	0.4	5.1	<10	<2
1267145	Soil	0.15	11.5	2.2	<0.05	2.7	9.03	22.8	<0.02	4	0.7	8.7	<10	<2
1267146	Soil	0.25	11.2	1.5	<0.05	0.9	11.79	26.2	0.04	<1	0.8	9.2	<10	<2
1267147	Soil	0.28	10.4	0.9	<0.05	1.1	8.61	20.9	<0.02	<1	0.7	14.6	<10	<2
1267148	Soil	0.32	10.9	0.8	<0.05	0.8	10.86	24.6	0.02	<1	0.7	11.8	<10	<2
1267149	Soil	0.59	14.2	0.9	<0.05	1.6	7.94	32.5	0.03	<1	1.0	20.5	<10	2
1267150	Soil	0.32	10.9	0.8	<0.05	0.8	10.95	22.0	<0.02	<1	0.6	11.7	<10	<2
1267408	Soil	0.30	17.5	1.8	<0.05	2.0	7.94	14.3	0.04	<1	1.6	42.3	<10	<2
1267409	Soil	0.36	17.8	1.8	<0.05	0.1	3.05	19.0	0.02	<1	0.4	5.4	<10	<2
1267410	Soil	0.48	14.3	1.9	<0.05	0.5	3.48	35.9	0.03	<1	0.6	30.5	<10	<2
1267411	Soil	0.40	9.6	0.6	<0.05	1.8	17.02	37.8	0.04	<1	1.2	31.8	<10	<2
1267412	Soil	0.16	4.7	1.3	<0.05	3.8	19.25	31.0	0.05	<1	1.1	28.3	<10	<2
1267413	Soil	0.18	8.6	1.3	<0.05	5.1	12.76	35.4	0.04	<1	0.9	21.5	<10	<2
1267414	Soil	0.25	10.5	0.6	<0.05	5.1	15.63	42.1	0.03	<1	1.1	40.0	<10	<2
1267415	Soil	0.13	4.5	1.0	<0.05	4.9	12.04	29.0	0.02	<1	0.8	7.3	<10	<2
1267416	Soil	0.46	13.5	5.5	<0.05	0.4	3.79	16.7	0.04	<1	0.7	10.8	<10	<2
1267417	Soil	0.02	8.3	1.4	<0.05	0.2	13.33	25.5	0.04	1	0.9	3.0	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 7 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1267418	Soil			0.63	20.50	85.65	231.5	146	10.4	4.6	1578	4.34	14.7	1.7	0.5	2.0	29.7	0.35	0.63	0.29	11	5.26	0.080
1267419	Soil			2.99	13.52	275.0	669.8	278	20.7	8.2	4183	5.29	66.2	3.2	2.0	1.1	37.9	1.71	6.19	0.18	21	7.95	0.169
1267420	Soil			1.12	1.99	190.2	536.6	64	3.4	2.5	2030	5.56	12.2	2.1	<0.2	0.2	39.4	0.39	0.78	0.03	5	15.25	0.071
1267421	Soil			1.48	13.09	99.37	446.7	134	15.1	5.6	653	2.53	9.7	1.6	0.6	0.9	14.9	1.51	0.63	0.26	34	1.50	0.185
1267422	Soil			1.35	13.34	91.49	341.0	76	8.1	4.3	459	2.32	13.7	0.7	0.7	2.4	38.1	1.05	0.47	0.32	9	4.34	0.031
1267423	Soil			1.86	6.12	605.2	2273	441	6.1	3.0	1499	1.88	15.1	2.6	0.3	0.3	114.4	8.08	1.09	0.07	5	16.74	0.129
1267424	Soil			0.64	34.22	32.95	144.6	53	24.7	13.4	782	3.51	4.9	0.8	1.2	2.8	12.1	0.28	0.46	0.35	23	0.17	0.041
1267425	Soil			0.70	23.38	70.99	155.2	95	23.3	11.1	882	2.67	7.0	1.4	1.4	2.2	11.5	0.41	0.37	0.31	24	0.49	0.095
1267426	Soil			1.68	18.25	31.47	97.5	81	17.8	8.4	632	1.93	10.3	2.5	0.9	1.4	34.6	0.31	0.44	0.16	24	6.89	0.101
1267427	Soil			0.74	23.57	35.12	83.3	49	22.1	13.6	1144	3.19	6.7	0.9	1.0	1.8	8.7	0.15	0.39	0.31	28	0.20	0.073
1267428	Soil			1.09	29.76	16.07	66.0	84	22.4	10.9	782	2.38	7.8	0.8	1.6	4.0	27.3	0.19	0.50	0.21	28	3.40	0.073
1267429	Soil			0.57	31.21	21.51	80.0	41	22.2	19.1	1581	3.57	5.4	0.8	1.1	3.0	6.0	0.11	0.26	0.32	24	0.07	0.045
1267430	Soil			0.99	25.63	19.06	72.6	44	22.5	16.8	1214	3.56	8.1	0.7	1.0	3.6	6.3	0.13	0.43	0.36	35	0.07	0.031
1266641	Soil			0.68	12.24	13.79	78.9	21	19.9	9.6	434	2.31	1.6	0.5	<0.2	2.2	258.9	0.10	0.05	0.12	9	11.88	0.049
1266642	Soil			1.03	11.91	7.71	63.8	17	21.8	10.2	320	2.36	1.7	0.6	<0.2	2.5	593.4	0.07	0.10	0.10	17	14.34	0.046
1266643	Soil			0.51	8.16	7.76	26.7	14	16.4	6.4	237	1.56	1.5	0.4	<0.2	1.8	1049	0.03	0.04	0.06	7	25.21	0.039
1266644	Soil			0.72	8.78	9.53	32.9	9	19.7	8.7	215	1.65	2.0	0.5	<0.2	3.5	892.1	0.02	0.06	0.07	5	19.73	0.040
1266645	Soil			0.80	11.09	8.55	58.3	14	20.8	8.6	275	1.89	1.8	0.7	<0.2	3.3	751.0	0.05	0.04	0.09	11	16.72	0.048
1266646	Soil			0.60	11.54	8.20	52.5	15	16.7	8.6	294	2.10	1.7	0.6	<0.2	2.7	882.6	0.04	0.04	0.09	7	19.66	0.056
1266647	Soil			0.68	10.31	8.41	46.9	15	18.9	9.1	305	1.99	2.1	0.6	<0.2	3.0	948.8	0.04	0.05	0.08	9	20.45	0.052
1266648	Soil			1.21	16.27	13.84	67.4	35	30.8	12.7	342	2.95	2.9	0.6	<0.2	1.8	315.7	0.08	0.12	0.15	12	7.28	0.081
1266649	Soil			1.32	11.90	11.68	53.8	27	22.8	9.2	349	2.21	2.9	0.7	<0.2	2.6	702.9	0.08	0.06	0.12	11	17.29	0.070
1266650	Soil			2.66	20.42	17.43	88.4	66	48.6	16.6	276	3.63	4.5	1.0	<0.2	3.4	99.5	0.22	0.23	0.19	45	3.13	0.104
1267351	Soil			0.71	29.87	418.2	673.6	42	82.9	49.5	3177	9.51	11.7	4.5	<0.2	3.8	18.5	0.81	0.44	0.55	24	0.53	0.031
1267352	Soil			1.36	11.22	343.1	1701	90	13.0	6.6	2078	4.27	13.8	2.1	0.8	0.8	28.8	3.52	0.31	0.15	18	8.78	0.119
1267353	Soil			1.58	8.80	274.4	2338	90	10.3	5.4	4180	4.87	7.3	1.9	0.5	0.3	35.1	4.80	0.32	0.11	13	9.61	0.109
1267354	Soil			1.98	6.63	1286	>10000	140	7.1	5.4	1894	5.89	7.0	2.2	0.3	0.7	40.9	22.32	0.09	0.04	<2	13.51	0.072
1267355	Soil			1.68	11.04	272.8	3336	104	12.5	6.5	2582	5.23	6.7	2.0	0.7	1.0	45.2	6.56	0.14	0.16	5	11.20	0.081
1267356	Soil			1.38	13.46	46.06	179.8	33	18.1	16.5	750	4.55	6.0	0.7	1.1	4.7	4.4	0.24	0.41	0.41	27	0.09	0.050
1267357	Soil			1.64	14.41	22.69	74.2	26	15.0	8.4	446	3.70	11.9	0.6	1.1	3.5	5.6	0.12	0.78	0.36	57	0.05	0.035



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: October 31, 2011

Page: 7 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267418	Soil	3.5	8.4	2.65	63.6	<0.001	6	0.63	0.003	0.17	<0.1	2.3	1.57	0.18	122	0.3	0.04	1.5	2.09	<0.1	0.05
1267419	Soil	11.8	16.6	4.11	110.6	0.004	2	1.07	0.002	0.04	<0.1	2.0	2.08	0.04	4722	0.5	0.03	2.6	0.62	<0.1	0.05
1267420	Soil	3.9	3.9	7.58	28.9	0.001	1	0.12	0.005	<0.01	<0.1	0.6	1.65	<0.02	4457	0.3	<0.02	0.3	0.11	<0.1	<0.02
1267421	Soil	7.5	20.8	0.48	126.3	0.008	2	1.44	0.004	0.05	<0.1	1.6	0.23	0.14	896	0.3	0.03	4.3	1.07	<0.1	0.05
1267422	Soil	2.8	7.1	2.31	111.9	<0.001	7	0.31	0.006	0.27	<0.1	2.7	0.46	0.35	1783	0.1	0.03	1.6	6.06	<0.1	0.03
1267423	Soil	5.6	5.2	8.48	24.2	0.001	3	0.20	0.006	0.03	<0.1	0.7	0.74	<0.02	6487	0.5	0.02	0.7	0.83	<0.1	0.02
1267424	Soil	6.2	19.0	0.22	138.0	0.002	2	1.14	<0.001	0.15	<0.1	4.0	0.16	0.03	362	<0.1	0.03	3.8	4.04	<0.1	<0.02
1267425	Soil	9.5	23.1	0.44	118.0	0.004	2	1.33	0.001	0.09	<0.1	2.9	0.14	0.04	360	0.2	0.03	4.5	1.62	<0.1	0.07
1267426	Soil	8.1	14.4	3.49	90.6	0.005	3	0.68	0.005	0.07	<0.1	2.1	0.15	0.03	69	0.2	<0.02	2.2	0.90	<0.1	0.05
1267427	Soil	8.0	23.9	0.41	130.8	0.005	1	1.44	<0.001	0.09	0.1	2.3	0.12	0.03	41	0.1	0.04	4.5	1.76	<0.1	0.02
1267428	Soil	10.3	19.2	2.12	143.7	0.018	2	0.90	0.006	0.10	0.1	3.2	0.10	<0.02	15	0.2	<0.02	3.1	1.53	<0.1	0.07
1267429	Soil	4.2	25.2	0.34	167.4	0.003	1	1.56	<0.001	0.11	0.1	3.3	0.10	0.03	17	0.2	0.02	5.5	2.96	<0.1	0.03
1267430	Soil	6.6	27.8	0.39	91.5	0.006	1	1.67	<0.001	0.10	0.1	2.8	0.12	<0.02	21	0.2	0.03	6.4	2.92	<0.1	0.03
1266641	Soil	8.8	12.1	0.26	309.7	0.002	9	0.67	0.004	0.22	<0.1	3.0	0.18	0.04	<5	0.2	<0.02	1.8	0.74	<0.1	0.10
1266642	Soil	11.2	13.0	1.00	202.2	0.001	9	0.58	0.008	0.18	<0.1	3.5	0.21	<0.02	<5	0.3	<0.02	1.5	0.71	<0.1	0.07
1266643	Soil	11.1	9.7	0.28	120.8	0.001	7	0.43	0.005	0.14	<0.1	2.7	0.11	<0.02	<5	0.4	<0.02	1.2	0.54	<0.1	0.05
1266644	Soil	10.9	7.5	0.83	104.5	0.001	7	0.39	0.006	0.15	<0.1	3.4	0.06	<0.02	<5	0.2	<0.02	1.1	0.75	<0.1	0.10
1266645	Soil	10.8	9.1	0.70	100.0	0.001	7	0.47	0.006	0.17	<0.1	3.4	0.15	<0.02	<5	0.2	<0.02	1.3	1.27	<0.1	0.08
1266646	Soil	12.3	10.3	0.63	142.4	0.001	7	0.46	0.007	0.14	<0.1	3.6	0.06	<0.02	<5	0.2	<0.02	1.3	0.65	<0.1	0.07
1266647	Soil	13.0	10.4	0.66	112.3	0.001	6	0.45	0.007	0.15	<0.1	3.8	0.09	<0.02	<5	0.2	<0.02	1.4	0.87	<0.1	0.07
1266648	Soil	16.1	14.1	0.42	155.1	0.001	9	0.69	0.005	0.18	<0.1	3.3	0.17	0.07	18	0.4	<0.02	1.8	1.07	<0.1	0.11
1266649	Soil	14.5	11.8	0.30	109.2	0.001	7	0.54	0.005	0.15	<0.1	3.4	0.08	<0.02	<5	0.3	<0.02	1.5	0.79	<0.1	0.06
1266650	Soil	20.0	22.7	0.48	181.4	0.002	9	0.92	0.004	0.28	<0.1	6.1	0.51	0.04	<5	0.4	<0.02	2.6	1.93	<0.1	0.14
1267351	Soil	5.1	13.9	0.19	248.0	0.001	3	0.95	<0.001	0.10	<0.1	12.8	0.11	0.06	<5	0.1	0.05	1.6	2.94	<0.1	0.10
1267352	Soil	13.0	12.9	4.54	123.7	0.005	3	0.77	0.005	0.03	<0.1	1.6	0.77	0.05	273	0.4	0.04	1.9	0.41	<0.1	0.03
1267353	Soil	6.4	11.0	4.91	559.0	0.006	3	0.65	0.006	0.02	<0.1	0.9	0.80	0.06	128	0.5	<0.02	1.7	0.37	<0.1	<0.02
1267354	Soil	3.6	3.9	6.67	37.4	0.002	2	0.20	0.006	0.01	<0.1	0.9	3.71	0.11	706	0.8	0.02	1.3	0.28	0.2	<0.02
1267355	Soil	6.7	7.7	5.41	151.4	0.002	3	0.33	0.007	0.04	<0.1	1.7	0.48	0.06	271	0.6	<0.02	1.3	1.18	<0.1	0.04
1267356	Soil	5.0	22.6	0.24	70.9	0.004	3	1.51	<0.001	0.13	<0.1	3.6	0.21	0.02	11	0.2	0.07	4.5	3.44	<0.1	0.04
1267357	Soil	8.2	24.4	0.29	58.2	0.016	1	1.58	<0.001	0.07	0.2	2.1	0.16	<0.02	<5	0.5	0.07	6.7	1.86	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 31, 2011

Page: 7 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	%
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1267418	Soil	0.08	9.1	1.0	<0.05	2.2	6.91	7.4	0.02	<1	0.6	2.4	<10	<2
1267419	Soil	0.16	5.5	0.5	<0.05	1.3	14.35	19.3	0.02	<1	0.9	6.2	<10	<2
1267420	Soil	0.02	1.0	0.7	<0.05	0.3	4.04	5.7	<0.02	<1	0.2	0.8	<10	<2
1267421	Soil	0.67	9.5	0.5	<0.05	1.3	6.48	12.5	0.03	<1	0.8	9.3	<10	<2
1267422	Soil	0.04	13.9	1.6	<0.05	1.0	3.79	6.0	0.03	<1	0.6	2.4	<10	<2
1267423	Soil	0.03	2.9	1.0	<0.05	0.4	6.19	9.8	<0.02	1	0.3	1.4	<10	<2
1267424	Soil	0.25	18.0	0.8	<0.05	0.5	8.11	14.9	0.04	<1	1.1	15.3	<10	<2
1267425	Soil	0.42	10.9	0.7	<0.05	2.1	11.59	20.2	0.03	<1	1.0	21.7	<10	<2
1267426	Soil	0.32	5.5	0.9	<0.05	2.2	8.57	18.6	<0.02	<1	0.7	10.7	<10	<2
1267427	Soil	0.41	11.0	0.7	<0.05	0.8	7.97	21.5	0.03	<1	1.2	24.1	<10	<2
1267428	Soil	0.36	7.4	0.5	<0.05	3.2	9.32	22.8	0.03	<1	0.7	16.8	<10	<2
1267429	Soil	0.43	13.0	1.6	<0.05	1.1	5.35	12.9	0.04	<1	1.7	26.4	<10	<2
1267430	Soil	0.63	13.2	1.0	<0.05	1.4	4.35	16.6	0.03	<1	1.0	32.0	<10	<2
1266641	Soil	0.29	10.9	0.6	<0.05	4.6	11.05	22.8	0.03	<1	0.8	4.7	<10	<2
1266642	Soil	0.20	8.4	0.6	<0.05	4.7	9.48	26.2	0.04	<1	1.0	5.2	<10	<2
1266643	Soil	0.10	6.3	0.5	<0.05	3.0	7.82	25.2	0.02	<1	0.6	4.1	<10	<2
1266644	Soil	0.06	6.8	0.3	<0.05	7.7	7.08	23.6	0.02	1	0.7	4.8	<10	<2
1266645	Soil	0.07	9.1	0.8	<0.05	6.6	8.50	24.6	0.02	<1	0.8	5.5	<10	<2
1266646	Soil	0.11	6.7	0.4	<0.05	4.6	10.06	27.6	0.03	<1	0.8	6.0	<10	<2
1266647	Soil	0.07	7.1	0.6	<0.05	5.7	9.64	29.0	0.03	<1	0.9	5.4	<10	<2
1266648	Soil	0.35	9.2	1.0	<0.05	6.5	11.29	35.1	0.04	<1	1.3	7.3	<10	<2
1266649	Soil	0.09	7.2	0.7	<0.05	4.2	11.72	35.2	0.03	<1	0.8	5.1	<10	<2
1266650	Soil	0.31	14.8	1.6	<0.05	8.5	15.98	38.6	0.05	<1	1.5	9.8	<10	<2
1267351	Soil	0.08	8.1	2.5	<0.05	3.2	41.18	10.7	0.09	<1	2.5	8.0	<10	2
1267352	Soil	0.21	3.9	0.7	<0.05	0.8	11.58	21.0	<0.02	<1	0.5	5.6	<10	<2
1267353	Soil	0.15	3.6	1.4	<0.05	0.3	7.12	11.6	<0.02	<1	0.6	4.4	<10	<2
1267354	Soil	0.04	1.2	0.3	<0.05	0.6	6.51	6.3	<0.02	<1	0.2	1.3	<10	<2
1267355	Soil	0.09	4.0	1.4	<0.05	1.1	8.93	10.6	<0.02	<1	0.7	2.1	<10	<2
1267356	Soil	0.43	15.5	0.8	<0.05	1.1	2.93	11.9	0.05	<1	1.3	20.6	<10	<2
1267357	Soil	1.07	11.6	1.7	<0.05	1.6	2.23	17.0	0.04	<1	0.4	14.4	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 8 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1267358	Soil			0.92	10.28	109.8	834.3	84	17.6	8.8	2057	3.47	8.0	2.8	3.7	3.1	38.4	1.94	0.34	0.21	26	8.25	0.104
1267359	Soil			1.31	3.44	192.9	9746	220	5.7	2.2	3429	7.52	5.6	1.9	0.9	0.4	79.4	37.55	0.14	0.04	<2	16.07	0.110
1267360	Soil			1.12	5.06	95.07	338.3	75	10.0	3.5	2116	2.71	6.7	2.3	0.8	0.9	55.6	0.44	0.19	0.09	15	12.95	0.101
1267361	Soil			1.87	12.04	94.91	1811	108	18.3	7.1	1607	4.54	9.3	1.3	1.8	1.8	39.2	2.66	0.42	0.14	23	8.43	0.063
1267362	Soil			0.99	16.24	60.33	370.0	162	17.4	8.2	810	3.89	5.7	1.3	0.9	2.8	13.6	0.75	0.26	0.34	14	0.71	0.058
1267363	Soil			0.97	14.29	39.67	86.2	82	19.2	12.3	613	3.46	10.0	1.0	1.2	2.8	46.0	0.28	0.60	0.34	31	0.87	0.044
1267364	Soil			0.64	16.33	30.72	92.0	65	20.8	13.5	443	3.09	8.7	1.2	1.0	4.3	33.1	0.22	0.41	0.40	27	0.62	0.062
1267365	Soil			0.37	45.07	13.69	99.6	131	26.9	10.6	376	2.56	5.0	1.5	5.8	3.0	40.8	0.31	0.36	0.21	28	1.32	0.075
1267366	Soil			0.47	41.89	14.89	86.8	110	26.7	10.7	403	2.61	5.1	2.2	4.9	3.3	42.3	0.23	0.36	0.24	34	1.01	0.075
1267367	Soil			0.25	50.64	14.09	100.2	122	32.3	13.9	320	2.50	7.4	1.2	5.0	5.9	84.7	0.17	0.17	0.23	27	4.18	0.068
1267368	Soil			0.74	19.36	21.40	89.4	32	24.3	12.0	508	2.83	7.9	1.2	1.3	3.9	23.0	0.17	0.42	0.32	37	0.61	0.060
1267369	Soil			0.91	28.39	16.24	73.4	124	28.2	11.3	481	2.73	12.9	2.4	4.1	3.5	21.6	0.12	0.56	0.27	47	0.39	0.054
1266801	Soil			0.74	9.08	14.94	72.2	61	16.7	6.0	645	1.51	14.6	3.0	0.7	0.8	60.5	0.42	0.58	0.12	33	10.25	0.108
1266802	Soil			1.40	13.11	25.82	107.9	68	23.0	11.1	869	2.77	19.6	1.7	<0.2	2.6	29.0	0.40	0.89	0.19	38	4.45	0.060
1266803	Soil			0.91	18.46	30.49	137.8	134	24.8	10.4	432	2.57	12.4	1.8	1.2	2.7	41.0	0.35	0.84	0.21	32	4.17	0.083
1266804	Soil			1.90	8.25	6.06	25.9	16	11.5	3.7	192	0.74	11.2	3.8	0.2	1.1	94.9	0.20	0.42	0.07	18	18.16	0.040
1266805	Soil			1.09	19.37	34.99	154.3	158	22.8	11.3	800	2.81	17.7	1.6	0.9	2.0	39.9	0.38	2.03	0.21	25	2.54	0.073
1266806	Soil			0.99	20.65	37.51	132.4	159	22.2	10.9	643	3.14	15.5	1.2	1.1	2.9	32.5	0.46	1.81	0.23	29	1.96	0.055
1266807	Soil			0.97	20.85	40.81	176.5	192	18.8	9.1	729	2.66	19.5	2.9	1.5	1.2	53.1	0.61	2.46	0.19	25	2.00	0.091
1266808	Soil			1.05	24.81	37.09	152.6	191	21.9	9.9	580	2.72	16.4	1.1	2.0	2.0	40.3	0.60	3.16	0.20	25	3.27	0.085
1266809	Soil			0.99	23.10	34.72	129.3	141	22.8	10.3	435	3.00	16.4	1.4	1.2	3.7	44.5	0.45	1.87	0.24	25	3.12	0.066
1266810	Soil			0.76	27.61	26.41	156.9	155	26.0	12.0	431	2.91	10.7	1.9	3.0	3.0	66.4	0.41	1.16	0.23	31	1.69	0.066
1266811	Soil			0.58	31.67	20.61	144.7	143	27.3	11.8	377	2.57	8.0	2.7	1.9	3.1	64.3	0.43	0.87	0.20	31	1.49	0.078
1266812	Soil			0.67	27.49	22.52	127.2	121	25.8	11.1	335	2.55	7.3	1.7	2.3	3.8	57.6	0.35	0.88	0.21	23	1.61	0.063
1266813	Soil			0.54	31.97	22.86	140.0	125	28.6	12.2	350	2.53	6.5	2.2	2.4	3.9	54.1	0.36	0.76	0.24	24	1.43	0.074
1266814	Soil			1.23	29.88	46.34	182.2	255	35.8	15.6	676	3.67	15.7	2.0	1.4	4.6	21.6	0.28	0.64	0.40	25	1.57	0.091
1266815	Soil			1.31	53.54	97.05	293.1	538	66.3	24.0	725	6.25	37.8	1.5	1.4	6.2	13.6	0.26	0.92	0.62	12	0.29	0.042
1266816	Soil			1.13	6.37	19.26	96.0	79	13.0	4.6	422	1.10	9.7	1.3	1.1	0.6	56.9	0.31	0.46	0.08	27	13.46	0.060
1266817	Soil			1.94	4.75	29.32	120.3	71	6.2	2.8	475	1.71	9.3	1.9	0.7	0.4	57.6	0.31	0.77	0.03	12	13.81	0.097
1266818	Soil			7.77	9.01	10.11	46.4	171	21.9	4.1	192	0.91	31.9	5.9	0.9	0.4	218.5	0.33	0.82	0.05	64	12.12	0.100



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15					
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf				
			ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm					
			0.5	0.5	0.01	0.5	0.001			1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.1	0.02
1267358	Soil		10.7	22.8	4.23	119.4	0.003	3	1.45	0.005	0.05	<0.1	3.3	0.32	<0.02	48	0.5	<0.02	3.1	0.93	<0.1	0.06				
1267359	Soil		5.8	4.5	7.52	39.0	0.002	3	0.17	0.009	0.02	<0.1	0.6	2.24	0.15	416	1.0	0.04	1.1	0.24	0.2	<0.02				
1267360	Soil		6.6	11.3	6.78	82.6	0.008	2	0.64	0.008	0.03	<0.1	1.2	0.38	<0.02	30	0.4	0.03	1.7	0.46	<0.1	<0.02				
1267361	Soil		8.8	17.9	4.34	105.6	0.014	2	0.89	0.006	0.04	0.1	1.7	1.23	<0.02	76	0.6	0.04	2.5	0.56	<0.1	<0.02				
1267362	Soil		6.9	11.8	0.21	90.5	0.002	5	0.66	0.002	0.07	<0.1	2.0	0.41	0.04	170	0.5	0.02	1.9	0.88	<0.1	0.06				
1267363	Soil		8.1	19.5	0.26	139.9	0.002	2	1.19	0.002	0.06	<0.1	2.3	0.15	0.02	46	0.4	0.05	3.6	1.35	<0.1	0.04				
1267364	Soil		14.9	21.9	0.40	107.2	0.004	4	1.33	<0.001	0.12	<0.1	2.8	0.13	<0.02	29	0.5	0.08	4.4	1.73	<0.1	0.05				
1267365	Soil		26.2	35.1	1.37	166.6	0.008	7	1.64	0.001	0.14	<0.1	5.3	0.10	0.05	59	0.9	0.02	5.1	1.60	<0.1	0.13				
1267366	Soil		29.6	39.3	1.36	136.8	0.011	6	1.79	0.001	0.11	<0.1	6.0	0.11	0.05	51	1.1	0.04	5.5	1.49	<0.1	0.10				
1267367	Soil		23.9	40.8	1.71	98.0	0.001	4	1.26	0.004	0.09	<0.1	5.1	0.06	0.02	54	1.1	<0.02	3.7	1.44	<0.1	0.13				
1267368	Soil		18.2	38.8	0.86	146.7	0.009	3	1.84	0.002	0.07	0.1	5.3	0.12	0.03	21	0.7	0.05	5.4	1.79	<0.1	0.07				
1267369	Soil		17.4	34.8	0.69	229.0	0.019	2	1.73	0.005	0.07	0.2	4.7	0.11	<0.02	52	0.6	0.03	4.8	1.06	<0.1	0.03				
1266801	Soil		7.7	20.4	5.20	82.5	0.006	4	0.83	0.007	0.06	<0.1	1.4	0.22	<0.02	39	0.4	0.04	2.2	0.88	<0.1	0.02				
1266802	Soil		12.2	23.5	2.54	105.3	0.002	5	1.00	0.003	0.10	<0.1	3.0	0.32	0.03	63	0.4	<0.02	2.7	0.92	<0.1	0.06				
1266803	Soil		12.9	26.6	2.43	101.0	0.007	6	1.20	0.005	0.13	<0.1	3.3	0.29	0.02	92	0.7	0.02	3.6	1.38	<0.1	0.07				
1266804	Soil		5.0	5.7	7.26	36.8	0.004	3	0.27	0.009	0.06	<0.1	1.0	0.28	<0.02	13	0.3	0.05	0.8	1.58	<0.1	0.02				
1266805	Soil		11.6	20.7	1.29	190.3	0.004	7	1.10	0.004	0.14	<0.1	3.0	0.22	0.05	126	0.5	<0.02	3.1	1.37	<0.1	0.05				
1266806	Soil		15.0	23.8	1.10	147.7	0.004	6	1.22	0.003	0.11	<0.1	3.9	0.20	0.04	109	0.7	0.03	3.3	1.07	<0.1	0.07				
1266807	Soil		8.9	19.4	0.86	174.3	0.003	6	0.98	0.003	0.10	<0.1	2.1	0.30	0.09	162	1.0	0.03	3.0	0.75	<0.1	0.06				
1266808	Soil		10.5	19.7	1.50	201.2	0.005	6	0.99	0.005	0.14	<0.1	2.9	0.21	0.05	196	0.6	<0.02	3.0	1.15	<0.1	0.08				
1266809	Soil		12.9	22.6	1.68	104.3	0.004	6	1.06	0.004	0.13	<0.1	4.1	0.21	0.03	123	0.7	0.04	3.1	1.48	<0.1	0.09				
1266810	Soil		16.2	32.9	0.85	193.8	0.006	6	1.28	0.004	0.12	<0.1	4.5	0.17	0.05	114	1.2	0.03	4.2	1.40	<0.1	0.09				
1266811	Soil		15.4	33.3	0.84	204.0	0.007	5	1.36	0.004	0.11	<0.1	4.4	0.16	0.06	112	1.4	0.05	4.2	1.66	<0.1	0.12				
1266812	Soil		16.8	30.4	1.05	169.9	0.005	4	1.18	0.002	0.10	<0.1	4.2	0.12	0.04	99	0.9	<0.02	3.5	1.19	<0.1	0.11				
1266813	Soil		18.5	32.4	0.90	192.1	0.004	5	1.32	0.002	0.11	<0.1	4.3	0.13	0.05	82	1.0	0.03	3.8	1.09	<0.1	0.15				
1266814	Soil		12.9	20.9	1.01	93.5	0.006	6	1.11	0.002	0.17	<0.1	4.6	0.41	0.02	66	0.4	0.08	3.3	5.32	<0.1	0.06				
1266815	Soil		10.9	15.5	0.26	77.5	0.002	5	0.95	0.001	0.19	<0.1	6.8	0.26	0.05	140	1.1	0.19	2.5	4.36	<0.1	0.14				
1266816	Soil		8.7	11.6	6.94	53.7	0.004	3	0.56	0.007	0.04	<0.1	1.1	0.25	<0.02	25	0.5	<0.02	1.5	0.53	<0.1	0.03				
1266817	Soil		3.9	4.5	7.12	21.8	0.003	3	0.19	0.007	0.03	<0.1	0.6	1.11	<0.02	40	0.2	<0.02	0.4	0.25	<0.1	<0.02				
1266818	Soil		5.1	10.9	5.78	35.3	0.001	4	0.23	0.006	0.05	<0.1	1.1	0.65	<0.02	95	0.3	0.03	0.7	0.43	<0.1	0.03				



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
1267358	Soil	0.28	9.5	0.8	<0.05	1.8	10.72	21.0	0.04	<1	0.9	15.1	<10	<2
1267359	Soil	0.06	2.7	0.7	<0.05	0.5	7.55	10.4	<0.02	<1	0.4	1.3	<10	<2
1267360	Soil	0.22	4.2	0.5	<0.05	0.5	6.59	11.6	<0.02	<1	0.5	5.2	<10	<2
1267361	Soil	0.35	5.7	2.0	<0.05	0.7	7.15	17.4	<0.02	<1	0.5	8.7	<10	<2
1267362	Soil	0.19	7.2	0.5	<0.05	2.0	6.64	15.9	0.03	<1	0.6	5.5	<10	<2
1267363	Soil	0.34	11.2	0.7	<0.05	1.7	4.79	23.0	0.03	<1	0.7	15.7	<10	<2
1267364	Soil	0.33	13.1	1.1	<0.05	1.9	8.60	44.7	0.04	<1	0.8	26.4	<10	<2
1267365	Soil	0.32	11.7	0.9	<0.05	4.4	18.63	46.7	0.03	<1	1.2	45.7	<10	<2
1267366	Soil	0.47	12.0	0.6	<0.05	3.3	24.66	47.6	0.03	<1	1.3	44.5	<10	<2
1267367	Soil	0.09	6.6	0.8	<0.05	5.0	13.73	47.2	0.03	<1	1.1	32.5	<10	<2
1267368	Soil	0.63	11.6	0.8	<0.05	2.3	12.35	43.9	0.03	<1	1.0	35.7	<10	<2
1267369	Soil	0.64	8.5	1.0	<0.05	1.4	13.77	35.5	0.03	<1	0.9	22.0	<10	<2
1266801	Soil	0.32	7.2	1.4	<0.05	0.9	7.45	16.8	<0.02	<1	0.6	8.1	<10	<2
1266802	Soil	0.30	7.8	2.6	<0.05	2.2	8.62	31.8	0.02	<1	1.0	12.7	<10	<2
1266803	Soil	0.39	9.8	1.2	<0.05	2.5	10.91	28.0	0.02	<1	0.8	18.6	<10	<2
1266804	Soil	0.14	3.8	0.9	<0.05	1.6	5.30	10.1	<0.02	<1	0.2	2.4	<10	<2
1266805	Soil	0.36	9.1	0.7	<0.05	1.7	9.35	29.9	0.03	<1	0.8	14.1	<10	<2
1266806	Soil	0.36	7.7	1.2	<0.05	2.5	13.76	31.3	0.03	<1	0.8	16.7	<10	<2
1266807	Soil	0.35	7.0	0.4	<0.05	2.2	10.02	19.8	0.03	1	0.7	12.2	<10	<2
1266808	Soil	0.43	8.4	0.9	<0.05	2.6	11.68	22.4	<0.02	<1	0.9	12.8	<10	<2
1266809	Soil	0.32	9.5	1.0	<0.05	3.6	12.83	26.0	0.03	<1	0.9	14.4	<10	<2
1266810	Soil	0.49	9.5	0.7	<0.05	3.4	12.72	35.0	0.03	<1	0.9	18.8	<10	<2
1266811	Soil	0.52	10.0	0.4	<0.05	5.0	12.69	33.8	0.03	<1	0.9	20.7	<10	<2
1266812	Soil	0.41	7.8	1.3	<0.05	4.7	12.24	36.0	0.03	<1	1.0	19.3	<10	<2
1266813	Soil	0.37	8.3	0.4	<0.05	4.9	13.02	38.9	0.03	<1	1.0	20.5	<10	<2
1266814	Soil	0.20	14.1	2.7	<0.05	2.7	19.94	30.7	0.03	<1	1.1	15.2	<10	<2
1266815	Soil	0.09	13.8	0.7	<0.05	6.0	23.46	30.7	0.05	<1	1.0	7.1	<10	<2
1266816	Soil	0.16	4.1	1.1	<0.05	0.9	9.12	14.7	<0.02	<1	0.5	5.0	<10	<2
1266817	Soil	0.05	1.5	0.6	<0.05	0.7	4.18	6.3	<0.02	<1	0.2	1.4	<10	<2
1266818	Soil	0.05	2.5	1.1	<0.05	1.0	6.20	10.5	<0.02	<1	0.3	1.6	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 31, 2011

Page: 9 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1266819	Soil			0.67	3.11	3.04	10.5	15	10.8	1.6	230	0.31	8.2	3.0	0.9	0.2	92.6	0.08	0.52	0.02	18	16.15	0.039
1266820	Soil			0.68	3.81	3.82	11.1	11	11.0	1.9	256	0.30	9.8	3.4	<0.2	0.2	92.2	0.09	0.45	0.03	20	15.43	0.063
1266821	Soil			0.38	1.64	2.89	5.5	7	7.8	1.2	240	0.18	3.7	1.0	<0.2	0.1	66.1	0.06	0.26	<0.02	12	15.25	0.014
1267031	Soil			1.31	12.15	100.3	238.8	83	11.8	6.1	2247	1.85	8.9	3.8	0.7	0.6	41.8	0.90	0.45	0.18	28	5.66	0.806
1267032	Soil			1.67	17.32	78.35	204.2	95	20.0	8.3	1113	2.46	15.3	3.4	0.5	2.1	39.9	0.39	0.69	0.25	47	3.63	1.029
1267033	Soil			1.60	16.86	75.45	215.9	95	22.8	9.8	1405	2.60	11.1	2.4	0.6	2.0	24.0	0.73	0.55	0.27	31	1.49	0.417
1267034	Soil			0.84	31.82	53.49	125.9	56	24.6	18.5	1087	4.00	7.9	0.9	3.1	1.6	11.7	0.45	0.52	0.47	25	0.26	0.118
1267035	Soil			0.83	24.50	30.70	70.4	31	20.1	21.2	1838	4.08	7.8	0.9	3.3	3.3	7.2	0.07	0.39	0.42	34	0.05	0.048
1267036	Soil			0.83	39.17	53.28	94.9	58	30.2	40.2	3690	4.95	13.2	1.1	1.6	3.7	7.9	0.10	0.39	0.52	32	0.07	0.057
1267037	Soil			0.47	15.56	16.22	59.9	61	15.1	7.7	458	2.04	4.7	1.0	1.0	1.9	14.5	0.14	0.32	0.26	19	0.83	0.094
1267038	Soil			0.74	12.97	11.07	61.3	89	16.1	5.7	172	1.87	3.1	0.7	1.3	1.6	17.4	0.13	0.29	0.28	21	0.41	0.098
1267039	Soil			0.81	19.07	21.73	67.5	130	19.3	12.4	509	2.38	2.7	1.4	1.9	1.9	24.4	0.12	0.34	0.25	21	0.89	0.135
1267040	Soil			1.57	14.47	19.88	78.3	71	15.1	7.4	395	2.24	4.8	0.6	1.0	0.5	18.8	0.20	0.39	0.24	27	0.36	0.074
1267041	Soil			1.53	15.97	19.55	88.0	52	21.9	10.5	366	2.64	5.4	0.5	1.3	0.5	25.0	0.17	0.45	0.23	30	0.40	0.066
1267042	Soil			1.80	16.07	18.23	94.4	44	25.3	12.0	610	3.31	5.0	0.8	1.0	1.0	52.8	0.16	0.33	0.23	37	0.94	0.128
1267043	Soil			2.16	18.18	22.09	91.0	71	34.0	13.2	358	3.37	5.3	0.8	2.4	1.5	53.8	0.18	0.34	0.22	30	0.90	0.081
1267044	Soil			1.42	17.30	17.03	101.3	84	33.1	12.9	397	3.40	4.0	0.6	0.4	1.6	108.4	0.28	0.23	0.19	28	1.85	0.106
1267045	Soil			1.08	17.00	17.05	99.9	65	34.6	13.0	386	3.59	3.9	0.7	1.0	2.1	79.7	0.21	0.17	0.20	26	1.26	0.102
1267046	Soil			1.42	15.16	16.56	114.3	78	30.9	14.7	1118	3.59	4.3	0.7	0.8	1.7	45.6	0.36	0.22	0.20	30	0.74	0.106
1267047	Soil			0.98	13.70	12.53	66.9	32	26.2	10.6	313	2.63	2.6	0.6	0.4	2.1	561.0	0.12	0.11	0.12	16	10.41	0.075
1267048	Soil			1.24	15.86	16.63	87.3	41	32.0	14.9	544	3.81	3.5	0.8	<0.2	2.3	91.8	0.13	0.16	0.17	25	1.33	0.090
1267049	Soil			1.20	15.45	15.50	85.9	40	30.9	11.7	421	3.38	3.4	0.6	0.5	2.5	117.4	0.16	0.16	0.17	25	2.16	0.080
1267050	Soil			1.36	13.52	15.20	68.3	53	21.3	8.5	309	3.39	3.2	0.8	0.2	2.7	25.2	0.08	0.14	0.22	29	0.46	0.126
1267325	Soil			0.54	29.36	21.90	109.7	82	24.5	10.0	223	2.70	4.9	1.1	3.2	4.8	58.9	0.33	0.26	0.19	29	1.55	0.068
1267326	Soil			0.30	28.95	22.58	91.8	79	22.3	8.1	284	2.14	4.0	3.8	2.8	1.9	50.1	0.22	0.25	0.16	28	1.47	0.075
1267327	Soil			0.94	46.36	38.03	70.3	210	26.2	21.6	382	2.65	10.5	1.0	7.7	5.4	19.0	0.19	0.46	0.23	25	0.60	0.041
1267328	Soil			0.43	26.82	19.21	115.7	130	23.4	8.5	219	2.39	4.0	1.8	2.1	3.3	44.8	0.28	0.32	0.16	28	1.02	0.060
1267329	Soil			0.47	35.06	18.32	110.4	97	26.3	9.6	307	2.68	4.8	1.7	3.2	4.0	38.0	0.33	0.33	0.18	36	1.05	0.076
1267330	Soil			0.23	29.73	13.51	100.7	69	29.6	10.2	206	2.41	1.7	1.5	2.3	5.4	44.2	0.17	0.22	0.17	25	1.03	0.075
1267331	Soil			0.39	27.97	20.03	88.8	70	28.1	10.1	376	2.27	2.0	2.4	3.2	2.7	92.6	0.27	0.23	0.22	20	1.87	0.079



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 9 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15					
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf				
			ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm					
			0.5	0.5	0.01	0.5	0.001			1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.1	0.02
1266819	Soil		3.2	5.4	8.14	22.0	0.003	3	0.11	0.008	0.02	<0.1	0.4	0.34	<0.02	21	0.2	<0.02	0.3	0.24	<0.1	<0.02				
1266820	Soil		3.8	6.3	7.72	24.1	0.002	4	0.13	0.009	0.03	<0.1	0.4	0.40	<0.02	22	0.2	0.02	0.3	0.27	<0.1	<0.02				
1266821	Soil		2.8	3.4	7.76	22.9	0.002	2	0.08	0.007	0.01	<0.1	0.3	0.24	<0.02	22	0.3	<0.02	0.2	0.15	<0.1	<0.02				
1267031	Soil		18.4	20.4	1.91	160.9	0.009	6	1.33	0.005	0.11	<0.1	1.1	0.24	0.16	76	0.6	0.05	3.4	1.24	<0.1	0.04				
1267032	Soil		27.1	29.8	0.95	142.2	0.015	8	1.91	0.006	0.20	0.1	2.9	0.41	0.08	75	0.8	0.03	5.4	3.55	<0.1	0.09				
1267033	Soil		21.5	24.9	0.65	134.1	0.007	4	1.57	0.004	0.13	0.1	2.6	0.21	0.05	155	0.5	0.05	4.1	1.67	<0.1	0.04				
1267034	Soil		5.4	22.3	0.30	119.4	0.003	3	1.42	0.002	0.15	<0.1	2.5	0.20	0.08	378	0.2	0.04	4.9	3.03	<0.1	0.04				
1267035	Soil		6.8	29.1	0.37	131.7	0.007	2	1.57	0.002	0.11	0.1	3.3	0.13	<0.02	25	0.2	0.04	6.2	3.66	<0.1	<0.02				
1267036	Soil		6.7	32.4	0.61	155.9	0.004	2	2.14	0.002	0.11	0.1	5.4	0.14	0.03	45	0.2	0.03	7.2	5.41	<0.1	0.06				
1267037	Soil		13.1	18.4	0.42	118.8	0.004	5	1.13	0.003	0.14	<0.1	2.1	0.10	0.06	24	0.2	0.03	3.5	1.13	<0.1	0.09				
1267038	Soil		15.3	18.8	0.34	100.0	0.004	5	1.16	0.002	0.16	<0.1	1.9	0.10	0.06	21	0.2	0.03	3.6	1.42	<0.1	0.08				
1267039	Soil		22.1	20.7	0.34	120.6	0.004	7	1.07	0.003	0.18	<0.1	3.2	0.15	0.09	33	0.3	<0.02	3.4	2.36	<0.1	0.09				
1267040	Soil		7.4	16.4	0.15	106.8	0.003	4	0.88	0.003	0.17	<0.1	0.9	0.13	0.06	21	0.3	0.03	3.6	1.43	<0.1	<0.02				
1267041	Soil		8.5	21.0	0.27	80.4	0.005	5	0.99	0.003	0.14	<0.1	1.0	0.14	0.05	18	0.3	0.05	3.5	1.59	<0.1	<0.02				
1267042	Soil		14.0	22.7	0.21	169.5	0.002	7	1.28	0.003	0.20	<0.1	2.2	0.18	0.10	34	0.4	0.04	4.4	1.02	<0.1	0.07				
1267043	Soil		18.7	23.9	0.24	140.8	0.002	6	1.21	0.002	0.19	<0.1	2.6	0.20	0.07	20	0.3	0.02	3.3	1.18	<0.1	0.08				
1267044	Soil		22.9	21.0	0.27	172.9	0.001	9	1.26	0.002	0.23	<0.1	3.5	0.21	0.08	32	0.3	<0.02	3.6	0.92	<0.1	0.15				
1267045	Soil		25.3	22.7	0.28	171.0	0.001	10	1.38	0.002	0.28	<0.1	4.2	0.19	0.07	39	0.3	<0.02	3.9	0.81	<0.1	0.15				
1267046	Soil		25.2	23.0	0.25	194.4	0.002	7	1.37	0.002	0.27	<0.1	3.4	0.21	0.08	29	0.3	0.02	3.9	0.74	<0.1	0.12				
1267047	Soil		17.8	15.5	0.29	110.2	0.001	9	0.93	0.005	0.20	<0.1	3.8	0.17	0.04	21	0.3	<0.02	2.2	0.84	<0.1	0.10				
1267048	Soil		28.0	24.2	0.27	192.2	0.001	8	1.50	0.002	0.22	<0.1	4.7	0.19	0.08	36	0.2	<0.02	3.9	1.01	<0.1	0.16				
1267049	Soil		24.6	21.4	0.25	385.7	0.001	10	1.21	0.002	0.23	<0.1	4.4	0.21	0.08	26	0.3	<0.02	3.4	0.83	<0.1	0.17				
1267050	Soil		16.2	24.4	0.25	314.8	0.001	6	1.76	0.001	0.23	<0.1	3.7	0.26	0.07	29	0.2	<0.02	5.0	1.42	<0.1	0.21				
1267325	Soil		27.6	43.1	1.75	102.6	0.003	3	1.32	0.002	0.11	<0.1	6.6	0.11	0.03	61	1.1	<0.02	4.4	2.56	<0.1	0.13				
1267326	Soil		21.4	44.5	1.96	182.4	0.006	4	1.77	<0.001	0.08	<0.1	4.0	0.10	0.08	47	1.3	<0.02	5.9	1.48	<0.1	0.13				
1267327	Soil		30.1	43.4	1.94	66.4	0.002	3	1.83	<0.001	0.11	<0.1	7.8	0.14	0.03	39	1.1	<0.02	5.5	4.09	<0.1	0.16				
1267328	Soil		25.2	42.5	1.46	127.7	0.003	5	1.44	0.001	0.10	<0.1	5.4	0.12	0.06	51	1.3	<0.02	4.7	1.78	<0.1	0.13				
1267329	Soil		27.5	56.5	2.89	181.4	0.007	5	2.26	<0.001	0.13	<0.1	7.7	0.12	0.04	55	1.0	<0.02	7.4	4.08	<0.1	0.17				
1267330	Soil		27.5	48.5	2.07	196.5	0.006	5	1.92	<0.001	0.13	<0.1	6.5	0.10	0.03	38	0.6	<0.02	6.3	3.80	<0.1	0.18				
1267331	Soil		22.0	38.4	1.52	550.9	0.005	5	1.61	0.002	0.09	<0.1	4.7	0.10	0.08	54	0.7	<0.02	5.1	2.21	<0.1	0.16				



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 9 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	%
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1266819	Soil	0.05	1.0	0.5	<0.05	0.5	4.56	4.6	<0.02	2	0.2	1.2	<10	<2
1266820	Soil	0.05	1.2	0.9	<0.05	0.7	5.17	5.2	<0.02	<1	0.1	1.0	<10	<2
1266821	Soil	0.04	0.8	0.8	<0.05	0.5	4.49	3.6	<0.02	<1	0.1	1.0	<10	<2
1267031	Soil	0.32	9.5	2.3	<0.05	1.0	24.21	27.2	<0.02	<1	0.8	8.6	<10	<2
1267032	Soil	0.47	18.7	0.9	<0.05	2.3	54.69	29.9	0.03	<1	1.0	14.3	<10	<2
1267033	Soil	0.29	12.3	1.0	<0.05	1.4	24.70	46.2	0.03	<1	1.3	16.9	<10	<2
1267034	Soil	0.34	16.1	1.2	<0.05	1.0	7.60	13.7	0.06	<1	1.6	20.4	<10	<2
1267035	Soil	0.48	16.0	1.9	<0.05	0.9	5.50	19.7	0.05	<1	1.4	28.2	<10	<2
1267036	Soil	0.30	15.0	1.8	<0.05	2.1	8.84	23.1	0.06	<1	2.2	49.0	<10	<2
1267037	Soil	0.39	12.6	0.7	<0.05	2.5	10.59	24.5	0.03	<1	0.9	17.9	<10	<2
1267038	Soil	0.33	13.6	0.7	<0.05	2.6	8.61	38.3	0.02	<1	0.8	14.4	<10	<2
1267039	Soil	0.34	15.6	3.5	<0.05	2.8	21.00	58.8	0.03	<1	0.8	11.2	<10	<2
1267040	Soil	0.27	13.4	1.1	<0.05	0.6	4.95	22.0	0.02	<1	0.5	7.3	<10	<2
1267041	Soil	0.23	12.6	1.3	<0.05	0.3	3.82	27.1	0.03	<1	0.6	11.7	<10	<2
1267042	Soil	0.49	14.8	1.1	<0.05	3.4	9.68	33.7	0.04	<1	1.1	10.1	<10	<2
1267043	Soil	0.36	13.4	1.9	<0.05	4.2	13.48	51.6	0.04	<1	1.5	13.8	<10	<2
1267044	Soil	0.44	14.7	1.2	<0.05	6.2	15.81	45.9	0.05	<1	1.4	11.5	<10	<2
1267045	Soil	0.50	14.8	0.9	<0.05	7.4	16.86	48.5	0.05	<1	1.6	12.7	<10	<2
1267046	Soil	0.40	14.8	0.9	<0.05	5.5	16.06	56.5	0.05	<1	1.4	11.1	<10	<2
1267047	Soil	0.29	11.0	0.8	<0.05	5.3	13.01	40.0	0.04	<1	1.2	7.9	<10	<2
1267048	Soil	0.41	16.1	0.7	<0.05	7.2	17.93	64.1	0.04	<1	1.9	12.7	<10	<2
1267049	Soil	0.44	14.9	1.2	<0.05	8.0	16.99	52.4	0.04	<1	1.5	10.7	<10	<2
1267050	Soil	0.46	22.1	0.8	<0.05	7.7	12.22	36.4	0.05	<1	1.4	11.2	<10	<2
1267325	Soil	0.23	11.6	2.0	<0.05	4.8	18.46	53.2	0.04	<1	1.2	28.5	<10	<2
1267326	Soil	0.35	9.0	0.5	<0.05	4.8	16.48	42.7	0.03	<1	1.0	48.8	<10	<2
1267327	Soil	0.22	12.2	1.1	<0.05	6.8	18.63	62.7	0.04	<1	1.2	45.3	<10	<2
1267328	Soil	0.29	11.3	0.5	<0.05	5.3	16.93	51.0	0.04	<1	0.9	38.8	<10	<2
1267329	Soil	0.31	16.0	1.8	<0.05	6.5	21.42	52.2	0.04	<1	1.2	61.7	<10	<2
1267330	Soil	0.27	13.5	0.5	<0.05	7.5	19.02	53.3	0.03	<1	1.3	49.8	<10	<2
1267331	Soil	0.36	10.8	1.5	<0.05	6.9	19.72	48.7	0.04	<1	0.9	38.5	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 10 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1267332	Soil			0.27	25.33	32.59	124.8	54	45.9	15.0	543	3.24	4.2	3.1	1.7	6.9	72.0	0.30	0.26	0.32	21	1.52	0.050
1267333	Soil			0.24	29.52	16.72	114.0	104	30.2	11.0	340	2.44	3.5	3.6	2.0	3.0	59.2	0.22	0.29	0.21	26	1.33	0.074
1267431	Soil			1.04	17.36	17.44	33.3	69	18.1	8.3	484	1.52	15.7	1.1	0.7	1.1	82.0	0.11	0.49	0.24	22	9.15	0.035
1267432	Soil			1.10	21.25	29.22	77.7	58	18.2	7.6	539	2.05	8.0	1.1	1.5	2.1	60.1	0.15	0.30	0.25	20	8.91	0.032
1267433	Soil			0.96	20.30	21.24	78.2	59	16.7	8.3	487	2.03	8.2	1.0	0.6	1.4	52.2	0.13	0.34	0.25	22	8.47	0.040
1267434	Soil			2.15	7.74	30.12	110.4	95	11.3	5.0	963	1.59	10.4	1.8	0.7	0.3	84.2	0.39	0.60	0.07	20	15.83	0.099
1267435	Soil			0.76	5.31	44.74	331.6	143	7.1	3.5	1653	1.94	7.0	1.4	0.3	0.2	36.9	0.64	0.66	0.07	17	14.25	0.121
1267436	Soil			0.78	24.25	22.59	97.3	140	22.4	9.8	311	2.79	9.7	2.6	3.0	2.3	43.7	0.36	0.66	0.19	36	1.24	0.058
1267437	Soil			0.79	27.82	21.21	119.1	149	27.5	10.4	343	2.69	10.5	5.2	3.7	2.4	68.5	0.32	0.57	0.19	38	1.58	0.066
1267438	Soil			0.65	31.96	26.00	98.7	80	23.2	10.0	381	2.52	6.0	1.3	1.8	1.9	68.1	0.30	0.71	0.23	24	2.31	0.059
1267439	Soil			0.99	43.37	26.22	99.1	126	22.3	10.2	358	2.39	7.0	1.0	3.6	4.0	135.4	0.27	0.80	0.27	21	6.33	0.064
1267162	Soil			17.02	11.48	12.46	73.5	115	29.0	7.9	284	2.07	41.1	5.4	0.4	1.8	109.4	0.27	0.78	0.08	27	12.84	0.129
1267163	Soil			4.87	21.24	20.24	87.0	114	30.1	13.0	381	3.09	29.4	2.4	3.2	4.1	130.2	0.32	0.97	0.17	23	6.44	0.094
1267164	Soil			3.79	23.63	22.50	90.7	153	27.5	12.0	318	2.92	25.3	4.0	2.5	3.7	43.8	0.32	0.82	0.15	37	4.53	0.186
1267165	Soil			8.74	20.54	24.11	168.3	204	24.6	10.3	263	2.85	34.1	7.7	1.8	1.8	59.7	0.40	1.15	0.14	47	5.74	0.225
1267166	Soil			11.07	25.74	26.81	154.0	231	31.6	13.8	412	3.56	38.6	8.4	1.5	2.4	50.1	0.39	1.23	0.18	51	3.09	0.222
1267167	Soil			7.10	18.48	16.07	94.1	84	31.0	12.1	396	2.93	12.8	3.3	0.7	2.6	84.7	0.24	0.52	0.15	29	4.29	0.111
1267168	Soil			0.59	11.63	9.55	49.6	51	21.6	8.9	281	2.08	2.5	0.5	0.6	1.3	47.4	0.12	0.11	0.12	15	0.80	0.057
1267169	Soil			1.37	15.22	15.09	77.6	81	29.3	11.7	316	2.68	4.7	0.5	0.8	1.7	71.3	0.17	0.21	0.17	20	1.30	0.070
1267170	Soil			1.98	17.66	16.40	89.5	96	37.1	13.6	377	3.08	5.3	0.6	0.7	2.1	168.2	0.17	0.23	0.18	25	3.72	0.080
1267171	Soil			1.83	16.07	15.69	75.9	98	31.4	11.3	309	2.61	4.6	0.8	0.8	1.4	116.4	0.24	0.25	0.16	28	2.97	0.078
1267172	Soil			1.47	17.20	17.23	96.1	99	33.7	13.7	447	3.24	5.0	0.9	0.6	2.1	75.5	0.23	0.29	0.21	30	1.44	0.097
1267173	Soil			0.63	14.20	14.07	43.9	84	12.4	8.5	866	1.45	2.8	0.7	0.7	1.8	26.7	0.21	0.29	0.17	15	1.36	0.112
1267174	Soil			1.11	11.60	13.82	61.2	113	14.2	6.1	375	1.48	4.4	0.7	0.7	1.0	31.9	0.28	0.28	0.14	17	1.14	0.132
1267175	Soil			1.05	13.71	14.40	59.5	60	18.9	7.8	305	2.06	4.9	0.7	0.7	1.7	16.4	0.12	0.38	0.19	25	0.44	0.097
1267176	Soil			0.91	16.24	14.17	62.3	94	18.8	8.6	360	2.26	4.5	0.9	0.9	1.9	18.3	0.11	0.39	0.22	27	0.60	0.103
1267177	Soil			0.61	16.53	15.53	57.5	136	17.8	7.0	351	1.93	4.3	1.0	0.9	2.2	18.5	0.17	0.37	0.21	21	0.95	0.093
1267178	Soil			0.65	29.02	26.95	69.2	58	26.3	17.9	1462	2.43	10.4	0.5	0.9	4.2	14.8	0.07	0.26	0.36	19	0.48	0.046
1267179	Soil			1.29	24.48	20.96	54.4	34	21.9	17.4	1090	3.63	10.7	0.8	0.8	3.1	7.0	0.11	0.45	0.40	35	0.03	0.041
1267180	Soil			0.72	39.62	22.20	67.0	77	27.5	15.4	906	2.95	7.9	1.2	1.3	4.7	11.4	0.05	0.34	0.39	25	0.28	0.055



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 10 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267332	Soil	24.8	42.3	1.52	160.4	0.004	4	2.07	<0.001	0.09	<0.1	5.9	0.09	0.04	49	0.3	<0.02	6.2	1.41	<0.1	0.15
1267333	Soil	17.1	36.2	1.20	331.8	0.005	5	1.78	0.002	0.11	<0.1	5.0	0.14	0.06	67	0.9	<0.02	5.5	2.17	<0.1	0.15
1267431	Soil	5.7	9.6	5.42	70.8	<0.001	3	0.37	0.006	0.10	<0.1	2.0	0.61	0.10	73	0.3	<0.02	1.4	1.43	<0.1	<0.02
1267432	Soil	4.9	14.2	5.10	80.7	<0.001	5	0.49	0.006	0.17	<0.1	2.6	0.36	0.12	29	0.3	<0.02	1.9	1.70	<0.1	0.03
1267433	Soil	5.7	12.7	4.85	71.7	<0.001	4	0.64	0.005	0.14	<0.1	2.3	0.30	0.08	24	0.3	<0.02	1.9	1.18	<0.1	0.03
1267434	Soil	5.5	7.7	8.90	55.7	0.003	3	0.35	0.006	0.04	<0.1	1.0	1.17	<0.02	115	0.5	<0.02	1.1	0.65	<0.1	<0.02
1267435	Soil	4.8	9.7	8.06	71.1	0.007	2	0.59	0.008	0.02	<0.1	0.7	1.91	0.02	75	0.5	0.02	1.4	0.48	<0.1	<0.02
1267436	Soil	21.6	33.4	0.87	96.7	0.007	5	1.40	0.001	0.11	0.1	4.4	0.45	0.06	100	1.1	0.03	4.5	3.06	<0.1	0.09
1267437	Soil	21.1	41.1	0.61	85.2	0.004	5	1.13	0.001	0.10	<0.1	5.0	0.34	0.08	297	1.5	0.02	3.8	1.77	<0.1	0.10
1267438	Soil	15.8	28.5	1.23	304.7	0.003	7	1.56	0.001	0.15	<0.1	3.3	0.16	0.07	146	0.7	<0.02	4.4	1.12	<0.1	0.08
1267439	Soil	14.9	24.6	3.17	172.0	0.005	5	1.18	0.005	0.13	<0.1	4.0	0.14	0.02	60	1.3	<0.02	3.1	2.66	<0.1	0.11
1267162	Soil	7.5	13.2	6.60	207.6	0.001	10	0.34	0.009	0.15	<0.1	2.5	0.76	0.05	30	0.7	<0.02	1.0	2.90	<0.1	0.03
1267163	Soil	10.1	13.8	2.22	236.3	0.003	13	0.61	0.008	0.26	<0.1	4.4	0.50	0.09	39	0.7	0.05	1.7	2.15	<0.1	0.07
1267164	Soil	15.0	15.2	2.34	193.3	0.002	11	0.63	0.006	0.20	<0.1	4.6	0.29	0.05	21	0.7	0.04	2.1	1.06	<0.1	0.09
1267165	Soil	12.8	17.5	3.16	187.7	0.003	12	0.79	0.007	0.22	<0.1	3.8	0.37	0.06	23	0.8	0.04	2.4	1.26	<0.1	0.07
1267166	Soil	17.3	21.4	1.35	303.5	0.003	15	1.06	0.006	0.27	<0.1	5.0	0.37	0.08	50	0.9	0.06	3.2	1.46	<0.1	0.11
1267167	Soil	17.2	19.8	1.79	213.2	0.003	12	1.00	0.006	0.26	<0.1	4.0	0.25	0.05	10	0.6	0.04	2.7	1.05	<0.1	0.09
1267168	Soil	12.8	16.7	0.18	150.5	0.002	9	0.90	0.002	0.20	<0.1	2.4	0.09	0.05	<5	0.4	0.04	2.5	0.46	<0.1	0.11
1267169	Soil	16.8	19.5	0.21	152.5	0.002	10	0.91	0.004	0.21	<0.1	2.8	0.14	0.08	10	0.7	0.02	2.5	0.63	<0.1	0.09
1267170	Soil	19.0	21.1	0.31	169.7	0.002	12	1.04	0.004	0.30	<0.1	3.8	0.24	0.06	<5	0.5	0.05	2.9	1.11	<0.1	0.11
1267171	Soil	16.0	19.0	0.25	129.8	0.002	10	0.91	0.004	0.21	<0.1	2.7	0.20	0.08	<5	0.5	0.06	2.4	0.85	<0.1	0.11
1267172	Soil	21.5	23.1	0.29	206.1	0.002	9	1.28	0.004	0.24	<0.1	3.6	0.18	0.08	17	0.7	0.04	3.5	0.85	<0.1	0.13
1267173	Soil	14.5	13.0	0.27	169.5	0.004	7	0.77	0.004	0.14	<0.1	2.0	0.08	0.12	70	0.7	0.04	2.2	0.77	<0.1	0.08
1267174	Soil	13.8	17.9	0.20	105.9	0.005	5	0.77	0.006	0.11	<0.1	1.7	0.08	0.14	31	0.8	<0.02	2.4	1.09	<0.1	0.05
1267175	Soil	15.3	23.4	0.33	137.4	0.007	7	1.13	0.004	0.18	<0.1	2.0	0.10	0.06	<5	0.5	<0.02	3.6	1.73	<0.1	0.04
1267176	Soil	21.1	24.6	0.41	164.1	0.008	9	1.31	0.005	0.23	<0.1	2.4	0.12	0.05	<5	0.4	<0.02	4.1	1.98	<0.1	0.03
1267177	Soil	25.7	19.8	0.42	122.8	0.005	6	1.04	0.005	0.14	<0.1	2.8	0.08	0.08	16	0.7	0.02	3.2	0.80	<0.1	0.07
1267178	Soil	7.5	21.8	0.53	156.6	0.002	4	1.29	0.005	0.15	<0.1	3.5	0.10	0.02	<5	0.3	0.02	3.8	1.68	<0.1	0.09
1267179	Soil	7.2	28.5	0.36	97.2	0.008	2	1.64	0.005	0.10	0.1	2.4	0.11	0.02	<5	0.5	0.03	5.5	2.79	<0.1	0.05
1267180	Soil	15.2	27.4	0.46	164.0	0.005	5	1.41	0.006	0.19	0.1	4.3	0.09	0.03	<5	0.4	0.04	4.2	2.79	<0.1	0.10



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 10 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
1267332	Soil	0.33	8.5	0.6	<0.05	7.2	18.16	60.4	0.05	<1	1.2	51.1	<10	<2
1267333	Soil	0.51	12.6	0.6	<0.05	4.8	15.79	34.8	0.03	<1	1.1	39.6	<10	<2
1267431	Soil	0.07	5.5	0.7	<0.05	0.9	7.70	10.3	0.02	<1	0.4	2.5	<10	<2
1267432	Soil	0.09	8.5	4.6	<0.05	1.2	7.29	9.1	<0.02	<1	0.8	2.4	<10	<2
1267433	Soil	0.11	7.4	1.4	<0.05	1.5	9.48	9.2	0.03	<1	0.8	2.2	<10	<2
1267434	Soil	0.10	3.6	1.4	<0.05	0.3	6.47	9.0	<0.02	<1	0.4	2.7	<10	<2
1267435	Soil	0.14	4.5	0.9	<0.05	0.2	4.75	9.4	<0.02	<1	0.3	3.6	<10	<2
1267436	Soil	0.57	17.1	1.0	<0.05	3.4	15.26	42.7	0.03	<1	1.1	31.0	<10	<2
1267437	Soil	0.45	12.2	1.6	<0.05	3.6	15.54	40.7	0.03	<1	1.3	21.0	<10	<2
1267438	Soil	0.40	10.8	1.6	<0.05	3.8	12.54	33.0	0.03	<1	1.0	24.7	<10	<2
1267439	Soil	0.26	9.2	0.8	<0.05	5.0	12.35	30.8	0.02	<1	0.8	20.3	<10	<2
1267162	Soil	0.09	9.2	0.8	<0.05	1.2	8.95	18.1	<0.02	2	0.4	2.3	<10	<2
1267163	Soil	0.22	13.6	1.0	<0.05	3.4	10.76	26.2	0.04	3	0.8	4.5	<10	<2
1267164	Soil	0.25	9.1	2.1	<0.05	3.0	13.20	36.4	0.03	2	0.7	5.1	<10	<2
1267165	Soil	0.28	9.8	1.6	<0.05	2.7	11.95	29.0	0.03	<1	0.9	5.8	<10	<2
1267166	Soil	0.43	12.3	2.9	<0.05	3.7	14.07	39.2	0.03	<1	1.1	7.9	<10	<2
1267167	Soil	0.38	12.8	1.3	<0.05	4.6	13.08	39.2	0.03	1	0.9	9.1	<10	<2
1267168	Soil	0.36	9.2	0.7	<0.05	3.6	8.75	28.6	0.02	<1	1.1	8.7	<10	<2
1267169	Soil	0.38	9.8	1.4	<0.05	4.6	11.04	37.6	0.03	<1	1.1	10.0	<10	<2
1267170	Soil	0.33	13.8	0.9	<0.05	4.9	13.07	42.4	0.03	<1	1.4	9.5	<10	<2
1267171	Soil	0.38	10.5	2.0	<0.05	4.2	11.31	33.8	0.02	<1	1.2	8.8	<10	<2
1267172	Soil	0.55	12.7	1.1	<0.05	6.1	14.32	45.4	0.04	<1	1.6	13.0	<10	<2
1267173	Soil	0.30	8.2	1.0	<0.05	2.5	10.96	35.5	0.02	<1	0.6	8.2	<10	<2
1267174	Soil	0.35	10.7	0.8	<0.05	2.0	12.65	26.5	<0.02	<1	0.5	7.7	<10	<2
1267175	Soil	0.37	15.3	1.9	<0.05	1.7	8.71	39.3	<0.02	<1	0.8	14.2	<10	<2
1267176	Soil	0.45	18.1	1.1	<0.05	1.7	11.14	49.0	0.03	<1	0.8	15.4	<10	<2
1267177	Soil	0.37	9.6	1.3	<0.05	3.0	19.33	42.9	0.02	<1	0.7	14.6	<10	<2
1267178	Soil	0.16	9.8	1.0	<0.05	4.0	8.75	20.5	0.03	<1	1.1	30.9	<10	<2
1267179	Soil	0.50	14.2	1.3	<0.05	1.8	3.59	17.0	0.03	<1	0.9	28.9	<10	<2
1267180	Soil	0.37	15.9	1.3	<0.05	2.8	14.79	33.6	0.03	<1	1.3	24.6	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 11 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1267181	Soil			0.51	24.69	38.85	139.5	63	27.2	11.5	401	3.02	6.3	1.4	2.4	3.4	13.2	0.19	0.32	0.36	23	0.43	0.063
1267182	Soil			0.36	3.61	170.4	414.3	98	3.3	1.6	1776	0.67	3.3	1.0	<0.2	<0.1	46.1	2.05	0.40	0.04	6	11.84	0.185
1267183	Soil			0.59	7.25	525.2	1643	267	6.2	3.6	1834	1.46	9.1	1.6	1.8	0.2	97.4	4.72	0.85	0.07	11	12.65	0.217
1267184	Soil			0.31	3.85	289.6	439.5	114	4.9	2.2	1092	0.68	4.0	0.9	0.6	0.2	58.4	2.26	0.38	0.04	8	11.94	0.096
1267185	Soil			0.45	3.19	521.5	1240	282	2.3	1.4	2112	1.21	7.5	1.8	0.5	<0.1	57.7	6.56	0.82	0.03	7	12.18	0.119
1267186	Soil			3.93	4.71	616.2	3145	707	4.3	2.0	1445	1.73	15.3	2.2	0.4	0.2	98.9	11.53	0.95	0.05	9	13.35	0.101
1267187	Soil			0.82	15.61	224.8	690.9	194	15.4	8.6	1897	2.02	11.4	1.3	0.9	0.5	53.2	2.34	0.63	0.16	13	8.13	0.109
1267188	Soil			1.08	7.30	238.3	1293	440	4.4	2.1	967	1.90	11.7	1.1	0.4	0.8	63.1	3.22	1.13	0.19	8	7.48	0.082
1267189	Soil			0.87	31.18	80.78	116.7	535	18.2	27.1	5898	2.69	10.0	0.8	1.1	0.5	8.9	0.45	0.66	0.47	20	0.11	0.196
1267190	Soil			0.87	27.88	58.10	123.4	187	18.0	10.5	240	3.15	18.6	0.7	1.3	3.9	10.8	0.18	0.66	0.33	20	0.04	0.056
1267191	Soil			1.20	19.65	131.5	379.2	170	16.6	8.4	772	3.76	12.9	1.2	0.9	2.3	11.5	0.42	0.76	0.32	40	0.06	0.116
1267192	Soil			0.66	38.54	16.50	101.8	158	29.2	13.6	314	2.50	10.7	2.6	5.9	6.0	43.7	0.27	0.38	0.20	31	2.20	0.076
1267193	Soil			0.51	36.31	20.08	104.0	130	29.1	12.4	360	2.62	8.2	1.8	14.3	6.7	34.4	0.26	0.28	0.22	28	1.70	0.073
1266513	Soil			0.77	3.84	9.41	15.2	23	4.8	1.7	200	0.20	3.9	1.0	0.4	0.2	89.5	0.12	0.69	0.02	5	16.03	0.018
1266514	Soil			0.49	3.30	15.83	15.0	15	5.1	1.6	221	0.22	6.6	0.8	0.6	0.2	74.6	0.09	0.70	0.02	5	15.55	0.018
1266515	Soil			0.67	6.35	5.20	18.4	22	15.1	3.0	288	0.32	8.3	3.1	0.3	0.3	73.7	0.17	0.62	0.04	14	13.79	0.037
1266516	Soil			1.45	8.12	7.93	22.9	21	12.9	3.6	258	0.70	21.0	3.6	0.8	0.7	82.2	0.20	0.72	0.06	19	14.95	0.042
1266517	Soil			1.64	12.64	10.38	85.5	50	19.3	6.1	416	1.29	12.9	2.1	0.6	0.9	72.9	0.60	0.47	0.15	24	9.83	0.066
1266518	Soil			0.33	3.25	5.04	18.6	15	4.6	1.4	191	0.25	2.8	0.8	2.1	0.1	64.8	0.15	0.24	0.08	9	12.50	0.030
1266519	Soil			0.43	2.69	6.04	8.3	17	6.2	1.3	135	0.20	2.4	1.3	0.9	0.1	53.5	0.11	0.28	0.05	15	13.53	0.026
1266520	Soil			0.48	2.23	7.44	7.0	10	5.4	1.1	158	0.15	3.2	1.1	0.9	<0.1	55.7	0.11	0.23	0.05	10	16.01	0.024
1266521	Soil			0.77	4.39	4.07	14.9	17	13.6	1.8	197	0.48	15.9	1.9	0.6	0.3	42.9	0.12	0.77	0.06	27	12.45	0.036
1266522	Soil			0.37	3.85	4.09	16.0	24	7.3	2.0	435	0.38	4.3	1.2	0.4	0.2	55.8	0.13	0.25	0.04	13	14.40	0.019
1266523	Soil			0.37	3.02	4.22	15.0	22	6.7	1.5	297	0.26	2.6	1.0	0.4	0.2	57.6	0.12	0.22	0.04	15	15.55	0.030
1266524	Soil			3.64	2.39	127.4	309.8	251	2.1	1.8	1525	13.94	14.6	1.9	0.2	<0.1	34.0	0.11	3.41	0.09	3	8.64	0.041
1266525	Soil			1.50	8.69	125.2	891.6	241	10.4	5.8	2341	5.23	12.6	1.4	1.3	0.5	20.7	1.05	2.77	0.16	24	5.21	0.134
1266526	Soil			3.44	21.31	52.60	432.9	190	23.3	10.9	1185	3.01	23.2	1.7	1.8	1.4	42.4	1.39	0.76	0.35	37	1.56	0.077
1266527	Soil			1.65	18.17	38.26	267.9	141	16.1	8.3	689	2.09	18.7	1.2	1.5	0.8	54.2	0.87	0.48	0.27	24	3.87	0.070
1266528	Soil			0.55	16.07	16.32	83.4	120	18.8	7.8	376	2.06	6.9	5.9	3.3	2.5	41.2	0.27	0.31	0.17	37	0.95	0.048
1266529	Soil			0.48	28.42	27.03	127.4	126	24.3	10.3	379	2.60	7.4	1.7	2.7	3.8	53.1	0.37	0.93	0.24	23	1.82	0.065



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 31, 2011

Page: 11 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1267181	Soil	6.6	26.3	0.45	157.4	0.004	2	1.52	0.006	0.13	<0.1	3.9	0.21	0.04	132	0.3	0.04	5.1	2.31	<0.1	0.10
1267182	Soil	3.2	4.5	8.47	53.6	0.002	2	0.23	0.011	0.02	<0.1	0.2	0.27	0.07	14294	0.6	<0.02	0.5	0.19	<0.1	<0.02
1267183	Soil	6.0	9.9	6.88	61.1	0.004	6	0.55	0.008	0.05	<0.1	0.2	0.85	0.09	>50000	1.5	0.09	1.4	0.51	<0.1	<0.02
1267184	Soil	3.0	5.3	8.74	38.2	0.003	3	0.28	0.010	0.03	<0.1	0.3	0.25	0.04	7631	0.4	0.04	0.7	0.20	<0.1	<0.02
1267185	Soil	3.8	3.9	8.64	41.4	0.002	3	0.17	0.010	0.01	<0.1	0.2	1.02	0.08	1548	0.6	0.02	0.5	0.18	<0.1	<0.02
1267186	Soil	5.0	5.3	9.31	24.0	0.005	2	0.26	0.010	0.02	<0.1	0.5	0.85	0.05	2663	0.6	0.03	0.8	0.30	<0.1	<0.02
1267187	Soil	4.6	7.6	5.59	60.3	0.003	3	0.38	0.008	0.07	<0.1	1.1	1.17	0.06	369	0.6	0.02	1.0	4.86	<0.1	<0.02
1267188	Soil	3.6	5.5	4.92	49.1	0.001	6	0.30	0.008	0.15	<0.1	0.9	1.63	0.17	189	0.4	0.04	1.0	1.54	<0.1	0.04
1267189	Soil	1.8	16.3	0.09	263.1	0.003	5	0.68	0.003	0.17	<0.1	0.7	0.34	0.11	139	0.5	0.09	2.7	8.43	<0.1	0.03
1267190	Soil	5.3	17.2	0.22	66.9	0.002	3	1.02	0.003	0.19	<0.1	2.3	0.17	0.10	163	0.3	0.04	3.6	2.36	<0.1	0.05
1267191	Soil	7.9	25.0	0.21	82.0	0.006	3	1.49	0.004	0.12	0.1	1.9	0.28	0.06	2387	0.5	0.06	4.8	2.82	<0.1	0.06
1267192	Soil	19.9	41.7	2.35	64.6	0.004	4	1.76	0.005	0.16	<0.1	5.1	0.15	0.06	42	1.1	<0.02	5.3	2.25	<0.1	0.16
1267193	Soil	25.0	41.0	2.32	67.7	0.005	6	1.72	0.005	0.18	<0.1	5.3	0.14	0.04	52	0.9	0.03	5.3	2.80	<0.1	0.12
1266513	Soil	4.1	5.1	10.14	14.5	0.002	2	0.07	0.011	0.02	<0.1	0.3	0.10	0.03	<5	0.5	0.02	0.2	0.23	<0.1	<0.02
1266514	Soil	3.3	4.1	10.04	16.1	0.002	2	0.07	0.010	0.01	<0.1	0.3	0.10	0.02	<5	0.2	<0.02	0.2	0.17	<0.1	<0.02
1266515	Soil	4.1	3.7	9.34	29.2	0.003	2	0.14	0.010	0.02	<0.1	0.4	0.22	0.03	<5	0.2	0.04	0.3	0.29	<0.1	<0.02
1266516	Soil	5.0	5.2	9.38	25.4	0.004	3	0.20	0.010	0.03	<0.1	0.8	0.27	0.03	<5	0.4	<0.02	0.6	0.72	<0.1	0.03
1266517	Soil	10.7	12.0	6.58	65.7	0.006	5	0.80	0.011	0.08	<0.1	1.5	0.35	0.05	8	0.4	0.04	1.7	1.08	<0.1	0.07
1266518	Soil	5.2	4.1	8.21	23.5	0.003	5	0.18	0.012	0.02	<0.1	0.3	0.10	0.04	25	0.2	<0.02	0.4	0.22	<0.1	<0.02
1266519	Soil	4.8	7.3	8.93	18.5	0.003	4	0.13	0.010	0.02	<0.1	0.4	0.10	0.02	21	0.2	<0.02	0.3	0.16	<0.1	<0.02
1266520	Soil	3.7	3.6	10.07	14.8	0.002	4	0.08	0.013	0.01	<0.1	0.3	0.12	0.03	22	0.3	<0.02	0.2	0.14	<0.1	<0.02
1266521	Soil	8.1	6.0	8.60	22.5	0.003	3	0.18	0.010	0.03	<0.1	0.5	0.29	0.03	25	0.3	<0.02	0.4	0.38	<0.1	0.02
1266522	Soil	3.3	4.5	9.50	40.9	0.004	3	0.18	0.009	0.02	<0.1	0.5	0.49	<0.02	16	0.3	<0.02	0.4	0.24	<0.1	<0.02
1266523	Soil	4.2	4.7	10.20	34.4	0.003	3	0.15	0.012	0.01	<0.1	0.3	0.21	0.03	21	0.3	<0.02	0.3	0.19	<0.1	<0.02
1266524	Soil	1.7	1.1	6.63	7.4	<0.001	1	0.02	0.005	<0.01	<0.1	0.3	7.03	0.07	438	0.2	<0.02	<0.1	0.03	0.1	<0.02
1266525	Soil	6.3	12.6	3.04	105.9	0.007	3	0.91	0.007	0.04	<0.1	1.2	2.83	0.07	369	0.5	0.03	2.1	0.73	<0.1	0.02
1266526	Soil	9.5	18.1	0.64	129.8	0.002	5	1.08	0.005	0.13	<0.1	3.0	0.79	0.14	235	0.2	0.03	3.3	1.39	<0.1	0.04
1266527	Soil	6.1	12.7	1.92	87.7	0.001	4	0.79	0.005	0.11	<0.1	1.9	0.47	0.10	249	0.3	0.02	2.3	1.26	<0.1	0.04
1266528	Soil	16.7	39.8	1.30	101.2	0.010	4	1.43	0.004	0.08	<0.1	4.2	0.20	0.04	73	0.8	<0.02	5.0	1.23	<0.1	0.10
1266529	Soil	16.4	26.0	1.11	322.2	0.004	5	1.28	0.006	0.12	<0.1	4.7	0.16	0.05	89	0.5	<0.02	3.5	1.40	<0.1	0.10



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 11 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
1267181	Soil	0.48	15.0	1.5	<0.05	3.0	9.83	15.3	0.03	<1	1.4	27.3	<10	<2
1267182	Soil	0.04	1.5	0.9	<0.05	0.3	4.17	6.1	<0.02	<1	0.3	1.3	<10	<2
1267183	Soil	0.08	4.3	1.7	<0.05	0.3	6.81	12.6	<0.02	<1	0.8	4.4	<10	<2
1267184	Soil	0.05	2.0	0.4	<0.05	0.4	3.45	6.0	<0.02	<1	0.2	2.4	<10	<2
1267185	Soil	0.04	1.3	1.4	<0.05	0.1	3.65	6.0	<0.02	<1	0.2	0.8	<10	<2
1267186	Soil	0.06	2.2	0.7	<0.05	0.4	4.98	8.6	<0.02	<1	0.3	2.0	<10	<2
1267187	Soil	0.09	6.0	2.4	<0.05	0.6	6.78	8.9	<0.02	<1	0.6	2.6	<10	<2
1267188	Soil	0.07	6.6	0.6	<0.05	1.2	3.77	6.7	<0.02	<1	0.3	1.3	<10	<2
1267189	Soil	0.08	19.4	4.2	<0.05	1.6	2.46	5.8	<0.02	<1	0.6	1.5	<10	<2
1267190	Soil	0.19	15.3	1.3	<0.05	1.8	4.90	14.5	0.02	<1	0.6	9.7	<10	<2
1267191	Soil	0.48	14.5	1.6	<0.05	1.9	3.97	17.6	0.02	1	0.9	17.0	<10	<2
1267192	Soil	0.16	12.0	1.2	<0.05	7.2	11.96	39.3	0.02	<1	0.9	41.0	<10	<2
1267193	Soil	0.11	13.0	1.9	<0.05	5.4	13.81	49.2	0.02	<1	1.0	41.9	<10	<2
1266513	Soil	0.06	1.0	4.6	<0.05	0.7	3.98	4.9	<0.02	<1	0.1	0.8	<10	<2
1266514	Soil	0.04	0.8	7.7	<0.05	0.4	4.01	3.9	<0.02	1	0.1	0.8	<10	<2
1266515	Soil	0.08	1.3	0.9	<0.05	0.6	5.84	5.5	<0.02	2	0.2	1.3	<10	<2
1266516	Soil	0.18	2.1	2.0	<0.05	1.1	6.34	8.4	<0.02	2	0.2	1.7	<10	<2
1266517	Soil	0.32	6.0	1.0	<0.05	2.4	9.79	19.1	<0.02	<1	0.4	6.1	<10	<2
1266518	Soil	0.08	1.8	1.5	<0.05	0.3	5.28	6.2	0.02	1	0.1	1.5	<10	<2
1266519	Soil	0.05	1.4	2.6	<0.05	0.4	6.66	5.3	<0.02	1	0.1	1.2	<10	<2
1266520	Soil	0.03	0.9	4.0	<0.05	0.4	5.97	3.7	<0.02	<1	<0.1	0.8	<10	<2
1266521	Soil	0.08	1.6	0.6	<0.05	0.6	7.33	9.9	<0.02	1	0.2	1.5	<10	<2
1266522	Soil	0.09	1.6	0.7	<0.05	0.5	6.45	4.8	<0.02	1	0.2	1.9	<10	<2
1266523	Soil	0.06	1.4	0.9	<0.05	0.4	6.90	5.1	<0.02	<1	0.1	1.5	<10	<2
1266524	Soil	<0.02	0.1	0.7	<0.05	0.2	1.81	2.2	<0.02	<1	0.3	0.2	<10	<2
1266525	Soil	0.30	4.7	0.7	<0.05	0.8	6.28	12.8	<0.02	<1	0.5	4.2	<10	<2
1266526	Soil	0.35	9.2	0.9	<0.05	1.2	12.29	18.9	0.04	<1	1.0	6.4	<10	<2
1266527	Soil	0.20	6.7	0.7	<0.05	0.9	7.95	12.0	0.03	<1	0.8	3.9	<10	<2
1266528	Soil	0.51	10.1	1.2	<0.05	3.8	10.26	43.6	0.03	<1	0.8	35.5	<10	<2
1266529	Soil	0.41	9.1	0.6	<0.05	4.8	14.28	34.5	0.04	<1	0.9	20.3	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 12 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1266530	Soil	0.45	14.61	17.92	87.1	71	18.7	9.0	487	2.55	4.1	0.9	0.5	4.4	16.1	0.36	0.30	0.18	41	0.37	0.035
1266531	Soil	0.50	22.94	19.16	101.2	56	20.6	8.0	189	2.57	5.0	1.4	3.4	3.8	51.8	0.36	0.24	0.17	30	1.03	0.066
1266532	Soil	0.50	29.29	15.69	105.1	53	26.6	11.8	372	2.83	5.3	1.4	4.0	4.4	60.0	0.26	0.27	0.21	39	1.35	0.057
1266533	Soil	0.78	27.37	31.42	141.6	152	24.7	10.1	371	2.74	10.5	2.8	3.2	2.8	41.4	0.60	0.52	0.18	42	0.89	0.066
1266534	Soil	0.64	26.23	26.43	120.4	97	22.7	9.4	318	2.80	9.1	1.4	3.6	4.4	42.5	0.34	0.46	0.18	43	0.96	0.053
1266535	Soil	0.75	25.88	18.69	96.5	108	21.9	9.9	278	2.22	10.8	3.6	3.6	3.3	120.0	0.26	0.40	0.14	37	4.62	0.048
1266751	Soil	1.88	22.92	25.61	107.6	303	36.8	13.2	435	3.45	5.1	1.2	0.8	2.0	35.8	0.35	0.56	0.23	47	0.71	0.093
1266752	Soil	2.43	23.40	40.72	98.0	293	31.9	15.3	608	2.63	8.5	0.9	0.6	3.8	10.8	0.16	0.52	0.23	15	0.23	0.054
1266753	Soil	0.49	14.05	15.80	60.7	100	12.1	5.6	438	1.51	2.0	0.9	0.4	1.1	22.5	0.14	0.25	0.19	15	1.29	0.112
1266754	Soil	1.13	47.00	28.88	101.1	28	33.4	31.5	3561	4.37	20.6	1.4	1.3	4.7	11.9	0.08	0.35	0.51	37	0.03	0.052
1266755	Soil	1.16	47.69	72.86	93.8	67	36.4	38.4	4938	4.31	20.2	1.3	2.1	4.9	17.7	0.10	0.37	0.56	28	0.05	0.039
1266756	Soil	0.92	39.10	29.27	85.8	26	35.7	23.0	1744	4.02	4.8	1.0	2.1	5.8	9.5	0.05	0.29	0.39	27	0.05	0.031
1266757	Soil	0.46	41.91	29.67	80.8	24	31.8	24.1	1426	3.41	4.1	1.0	2.5	5.1	11.9	0.04	0.18	0.35	24	0.04	0.027
1266758	Soil	0.70	11.23	106.7	204.2	90	11.9	4.7	714	1.65	5.9	1.0	0.7	0.4	26.3	0.54	0.33	0.16	21	5.07	0.128
1266759	Soil	0.33	4.48	326.7	497.6	106	3.1	1.9	1941	1.04	5.9	1.6	0.4	0.2	43.3	3.01	0.56	0.06	13	10.49	0.103
1266760	Soil	0.26	3.02	519.5	2412	153	2.9	1.1	1547	1.07	7.3	1.5	<0.2	0.3	63.2	8.57	0.62	0.03	5	13.51	0.077
1266761	Soil	0.24	2.43	194.1	1715	106	2.5	1.3	1424	0.66	4.4	1.2	0.3	0.2	80.3	2.64	0.28	0.02	5	13.35	0.063
1266762	Soil	1.30	3.71	1117	3236	317	3.6	1.3	1227	2.31	10.9	1.6	0.3	0.3	97.2	8.58	0.82	0.03	5	10.15	0.085
1266763	Soil	1.87	12.01	312.5	1493	270	7.9	3.5	732	3.65	16.1	1.6	0.5	0.5	33.5	2.52	0.84	0.14	12	5.93	0.129
1266764	Soil	1.14	4.03	280.0	1901	283	3.5	1.4	921	1.55	7.5	1.5	<0.2	0.4	82.3	4.42	0.97	0.03	5	12.06	0.069
617364	Soil	0.21	10.35	19.33	58.6	48	9.5	5.3	925	1.59	10.3	0.8	2.0	0.6	36.2	0.11	1.22	0.12	7	9.04	0.086



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: October 31, 2011

Page: 12 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1266530	Soil	22.1	40.4	1.36	193.1	0.010	3	2.05	0.005	0.10	<0.1	3.8	0.16	<0.02	27	0.2	<0.02	6.4	2.23	<0.1	0.06
1266531	Soil	22.7	41.4	1.14	128.0	0.003	5	1.31	0.004	0.09	<0.1	6.3	0.13	0.06	47	1.1	<0.02	4.1	1.66	<0.1	0.14
1266532	Soil	23.0	46.4	1.50	113.6	0.004	6	1.70	0.006	0.11	<0.1	6.3	0.15	0.05	38	1.0	0.02	5.3	1.89	<0.1	0.19
1266533	Soil	24.4	46.0	1.02	91.2	0.004	3	1.43	0.004	0.12	<0.1	5.6	0.24	0.06	101	1.0	0.02	4.8	1.83	<0.1	0.12
1266534	Soil	22.4	43.1	1.08	111.9	0.004	6	1.62	0.004	0.15	<0.1	7.0	0.25	0.05	82	1.0	<0.02	5.1	1.33	<0.1	0.13
1266535	Soil	16.2	42.7	1.87	81.7	0.006	5	1.57	0.006	0.11	<0.1	4.2	0.28	0.04	48	1.0	<0.02	5.1	2.19	<0.1	0.12
1266751	Soil	23.8	25.4	0.29	174.9	0.002	8	1.53	0.005	0.29	<0.1	4.0	0.33	0.07	50	0.7	0.04	4.5	2.88	<0.1	0.10
1266752	Soil	17.2	24.0	0.35	69.4	0.002	6	0.94	0.004	0.18	<0.1	3.6	0.17	0.03	40	0.3	<0.02	2.8	2.75	<0.1	0.06
1266753	Soil	22.4	16.4	0.34	77.5	0.003	6	0.93	0.006	0.14	<0.1	1.7	0.10	0.09	47	0.2	<0.02	2.9	1.28	<0.1	0.07
1266754	Soil	7.7	31.6	0.57	186.1	0.005	2	2.03	0.006	0.13	0.1	5.8	0.12	<0.02	24	0.2	0.04	6.5	5.58	<0.1	0.07
1266755	Soil	6.3	29.3	0.57	273.3	0.005	2	1.83	0.007	0.12	<0.1	5.7	0.19	<0.02	36	0.1	0.05	6.4	5.20	<0.1	0.05
1266756	Soil	5.2	33.6	0.51	256.5	0.007	2	1.63	0.008	0.15	<0.1	5.3	0.14	<0.02	19	<0.1	0.03	6.0	4.12	<0.1	0.03
1266757	Soil	5.8	28.3	0.47	171.2	0.005	2	1.63	0.008	0.17	<0.1	4.7	0.15	<0.02	22	<0.1	<0.02	6.3	4.52	<0.1	0.02
1266758	Soil	6.6	16.0	2.78	74.4	0.005	4	0.97	0.011	0.06	<0.1	1.0	0.18	0.11	362	0.3	<0.02	2.5	0.64	<0.1	0.02
1266759	Soil	3.2	5.2	7.98	30.0	0.006	3	0.31	0.015	0.03	<0.1	0.4	0.21	0.06	422	0.4	<0.02	0.8	0.28	<0.1	<0.02
1266760	Soil	2.9	3.4	9.49	16.3	0.002	2	0.12	0.010	0.02	<0.1	0.4	1.69	<0.02	465	0.3	<0.02	0.5	0.43	<0.1	<0.02
1266761	Soil	2.9	3.5	9.38	15.0	0.001	3	0.12	0.010	0.02	<0.1	0.3	1.11	0.03	525	0.3	<0.02	0.4	0.22	<0.1	<0.02
1266762	Soil	3.9	3.8	7.77	17.7	0.002	4	0.14	0.010	0.02	<0.1	0.5	1.86	0.05	1792	0.6	<0.02	0.6	0.22	<0.1	<0.02
1266763	Soil	4.0	6.5	3.35	36.0	0.002	7	0.39	0.008	0.08	<0.1	1.1	1.19	0.13	963	0.5	0.04	1.1	2.10	<0.1	0.02
1266764	Soil	3.0	3.4	8.76	11.7	0.002	3	0.12	0.010	0.03	<0.1	0.6	1.14	0.06	1432	0.4	<0.02	0.5	1.03	<0.1	<0.02
617364	Soil	4.8	5.3	6.51	38.7	0.001	3	0.21	0.009	0.04	<0.1	1.7	0.06	0.03	106	0.3	0.03	0.6	0.15	<0.1	0.04



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 12 of 12 Part 3

CERTIFICATE OF ANALYSIS

WHI11001355.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
1266530	Soil	0.55	19.4	0.9	<0.05	2.5	7.59	47.6	0.04	<1	1.1	40.4	<10	<2
1266531	Soil	0.34	11.0	0.7	<0.05	5.5	14.21	43.2	0.03	<1	1.2	28.1	<10	<2
1266532	Soil	0.32	11.5	1.2	<0.05	7.5	16.40	47.0	0.04	<1	1.4	37.6	<10	<2
1266533	Soil	0.35	12.9	1.1	<0.05	3.7	17.03	49.7	0.04	<1	1.3	31.8	<10	<2
1266534	Soil	0.46	13.3	0.9	<0.05	4.8	16.75	46.7	0.03	<1	1.4	37.1	<10	<2
1266535	Soil	0.31	12.9	1.4	<0.05	5.6	10.63	34.6	0.02	<1	1.0	41.0	<10	<2
1266751	Soil	0.60	21.8	1.8	<0.05	5.2	18.10	52.0	0.04	1	2.0	14.8	<10	<2
1266752	Soil	0.11	12.8	3.0	<0.05	2.3	18.09	46.2	0.04	<1	1.0	15.5	<10	<2
1266753	Soil	0.26	11.3	1.4	<0.05	2.1	17.92	37.0	<0.02	<1	0.8	14.1	<10	<2
1266754	Soil	0.23	15.2	1.2	<0.05	2.8	7.70	22.3	0.05	<1	1.8	51.0	<10	<2
1266755	Soil	0.18	13.8	5.7	<0.05	2.6	8.12	21.4	0.04	<1	1.6	53.1	<10	<2
1266756	Soil	0.18	17.0	3.1	<0.05	2.1	8.55	16.0	0.04	<1	1.6	37.6	<10	<2
1266757	Soil	0.17	21.0	2.1	<0.05	1.7	8.27	16.5	0.04	<1	1.7	36.4	<10	<2
1266758	Soil	0.39	6.4	1.5	<0.05	0.6	6.56	10.2	<0.02	<1	0.6	9.1	<10	<2
1266759	Soil	0.12	2.1	1.4	<0.05	0.8	3.92	5.8	<0.02	<1	0.3	2.2	<10	<2
1266760	Soil	0.03	1.5	1.3	<0.05	0.5	3.49	4.7	<0.02	<1	0.2	1.0	<10	<2
1266761	Soil	0.03	1.5	3.6	<0.05	0.4	2.90	4.9	<0.02	<1	0.3	1.0	<10	<2
1266762	Soil	0.05	1.4	1.7	<0.05	0.5	4.32	6.5	<0.02	<1	0.3	1.0	<10	<2
1266763	Soil	0.14	6.0	1.5	<0.05	1.1	6.61	7.0	<0.02	<1	0.6	1.8	<10	<2
1266764	Soil	0.03	2.2	1.3	<0.05	0.6	3.81	4.8	<0.02	<1	0.2	0.9	<10	<2
617364	Soil	0.05	1.6	2.8	<0.05	1.0	8.24	9.6	<0.02	<1	0.3	1.4	<10	<2



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001355.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
1267790	Soil	1.16	35.35	22.97	73.6	46	15.3	14.7	3716	3.19	6.9	0.7	3.1	0.3	4.6	0.32	0.68	0.45	42	0.03	0.063
REP 1267790	QC	1.23	36.25	23.93	75.6	45	16.0	15.3	3804	3.25	7.1	0.7	1.8	0.3	4.9	0.31	0.69	0.40	43	0.04	0.063
1267318	Soil	0.66	25.47	23.92	80.3	132	17.9	8.2	509	2.20	6.6	8.2	2.1	0.7	75.5	0.32	0.85	0.21	26	2.23	0.089
REP 1267318	QC	0.63	24.08	23.07	81.0	114	17.5	7.7	482	2.11	6.5	7.8	2.0	0.8	73.2	0.30	0.82	0.18	24	2.06	0.086
1266711	Soil	1.56	10.69	15.82	60.5	53	18.3	7.0	293	2.51	12.5	1.2	2.1	0.6	13.9	0.16	0.50	0.29	50	0.76	0.084
REP 1266711	QC	1.55	11.11	16.13	61.1	45	18.8	7.0	303	2.55	12.5	1.2	1.2	0.6	14.2	0.14	0.52	0.29	52	0.78	0.090
1266726	Soil	0.88	32.33	13.85	54.2	15	11.4	16.2	1465	4.11	4.7	0.8	1.3	2.5	4.9	0.04	0.32	0.41	32	0.03	0.058
REP 1266726	QC	0.90	32.52	14.24	55.5	10	11.7	16.4	1505	4.09	5.0	0.8	1.1	2.6	4.9	0.06	0.33	0.42	32	0.03	0.059
1266745	Soil	0.93	25.95	34.24	132.2	103	24.4	10.7	558	2.49	9.5	1.8	2.4	3.3	34.6	0.36	0.40	0.27	28	3.34	0.075
REP 1266745	QC	0.92	26.03	33.88	129.5	103	24.8	10.9	560	2.51	9.3	1.8	1.8	3.0	35.3	0.34	0.41	0.25	28	3.37	0.074
1267115	Soil	1.17	22.36	554.8	4099	455	15.7	10.3	1058	2.83	30.1	0.8	1.3	2.0	23.3	11.80	2.42	0.26	38	2.87	0.046
REP 1267115	QC	1.21	22.92	532.4	4001	439	16.6	10.9	1028	2.80	29.9	0.8	1.4	1.8	24.7	11.33	2.21	0.24	39	2.83	0.051
1267423	Soil	1.86	6.12	605.2	2273	441	6.1	3.0	1499	1.88	15.1	2.6	0.3	0.3	114.4	8.08	1.09	0.07	5	16.74	0.129
REP 1267423	QC	1.80	5.76	555.7	2163	413	5.5	2.8	1432	1.77	14.7	2.4	0.4	0.3	113.5	7.53	1.01	0.06	5	15.47	0.124
1267357	Soil	1.64	14.41	22.69	74.2	26	15.0	8.4	446	3.70	11.9	0.6	1.1	3.5	5.6	0.12	0.78	0.36	57	0.05	0.035
REP 1267357	QC	1.86	16.66	25.42	82.1	30	16.8	9.5	506	4.04	13.3	0.7	2.3	4.0	6.6	0.14	0.90	0.43	62	0.06	0.039
1266805	Soil	1.09	19.37	34.99	154.3	158	22.8	11.3	800	2.81	17.7	1.6	0.9	2.0	39.9	0.38	2.03	0.21	25	2.54	0.073
REP 1266805	QC	1.09	20.57	37.19	164.1	155	23.3	11.7	831	2.87	18.4	1.6	0.6	2.0	41.4	0.38	2.07	0.22	26	2.55	0.071
1267043	Soil	2.16	18.18	22.09	91.0	71	34.0	13.2	358	3.37	5.3	0.8	2.4	1.5	53.8	0.18	0.34	0.22	30	0.90	0.081
REP 1267043	QC	2.09	17.57	21.16	88.1	75	33.2	12.7	348	3.32	5.2	0.7	0.8	1.7	53.5	0.19	0.31	0.20	29	0.89	0.078
1267431	Soil	1.04	17.36	17.44	33.3	69	18.1	8.3	484	1.52	15.7	1.1	0.7	1.1	82.0	0.11	0.49	0.24	22	9.15	0.035
REP 1267431	QC	1.04	17.63	17.42	33.6	69	18.8	8.5	492	1.52	15.5	1.0	0.8	1.0	79.0	0.11	0.50	0.25	21	9.17	0.035
1267166	Soil	11.07	25.74	26.81	154.0	231	31.6	13.8	412	3.56	38.6	8.4	1.5	2.4	50.1	0.39	1.23	0.18	51	3.09	0.222
REP 1267166	QC	11.41	25.82	27.16	158.4	230	32.3	14.2	415	3.57	38.3	8.4	1.6	2.5	52.6	0.42	1.23	0.18	49	3.16	0.223
1267186	Soil	3.93	4.71	616.2	3145	707	4.3	2.0	1445	1.73	15.3	2.2	0.4	0.2	98.9	11.53	0.95	0.05	9	13.35	0.101
REP 1267186	QC	3.70	4.37	590.1	3052	698	3.6	1.8	1397	1.68	14.8	2.1	0.4	0.2	92.8	11.82	0.92	0.05	8	12.64	0.097
1266518	Soil	0.33	3.25	5.04	18.6	15	4.6	1.4	191	0.25	2.8	0.8	2.1	0.1	64.8	0.15	0.24	0.08	9	12.50	0.030
REP 1266518	QC	0.38	3.57	5.29	18.2	21	5.7	1.4	212	0.28	3.5	0.8	0.5	0.1	72.2	0.15	0.22	0.06	9	14.42	0.035

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: October 31, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001355.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
1267790	Soil	5.9	26.1	0.15	135.0	0.010	2	1.27	<0.001	0.11	0.1	1.1	0.11	0.04	36	0.3	0.06	5.3	1.69	<0.1	<0.02
REP 1267790	QC	6.0	26.8	0.16	139.2	0.010	2	1.33	<0.001	0.11	0.1	1.1	0.11	0.05	34	0.5	0.05	5.5	1.76	<0.1	<0.02
1267318	Soil	10.9	26.0	0.63	261.8	0.006	4	1.14	0.003	0.08	<0.1	2.2	0.16	0.10	94	2.0	<0.02	3.1	1.04	<0.1	0.04
REP 1267318	QC	10.6	24.9	0.62	248.5	0.005	4	1.07	0.003	0.07	<0.1	2.0	0.14	0.10	90	1.8	<0.02	3.1	0.95	<0.1	0.05
1266711	Soil	10.2	26.3	0.38	141.1	0.010	3	1.62	0.003	0.08	0.1	1.5	0.28	0.06	29	0.3	0.04	5.7	1.61	<0.1	<0.02
REP 1266711	QC	10.7	27.2	0.40	146.0	0.011	3	1.73	0.004	0.08	0.2	1.5	0.28	0.06	22	0.4	0.05	5.8	1.71	<0.1	<0.02
1266726	Soil	4.1	29.3	0.17	62.0	0.005	<1	1.62	0.005	0.14	<0.1	2.6	0.16	0.04	17	0.4	0.04	8.6	3.25	<0.1	0.03
REP 1266726	QC	4.1	29.9	0.17	62.5	0.005	2	1.65	0.006	0.14	<0.1	2.6	0.16	0.04	35	0.5	0.04	8.6	3.28	<0.1	0.04
1266745	Soil	14.9	27.0	2.39	115.4	0.006	5	1.40	0.004	0.13	<0.1	3.8	0.15	0.03	621	0.7	<0.02	4.1	1.64	<0.1	0.12
REP 1266745	QC	14.6	28.3	2.44	110.5	0.007	4	1.43	0.005	0.15	<0.1	3.9	0.16	0.03	793	0.8	0.03	4.1	1.71	<0.1	0.10
1267115	Soil	8.5	18.0	1.68	135.1	0.010	1	1.11	0.003	0.07	0.1	3.1	0.24	0.02	951	0.7	0.06	4.5	2.11	<0.1	0.04
REP 1267115	QC	8.3	19.5	1.64	126.4	0.012	2	1.11	0.003	0.08	0.1	3.8	0.21	0.02	916	0.8	0.03	4.7	2.16	<0.1	0.02
1267423	Soil	5.6	5.2	8.48	24.2	0.001	3	0.20	0.006	0.03	<0.1	0.7	0.74	<0.02	6487	0.5	0.02	0.7	0.83	<0.1	0.02
REP 1267423	QC	5.3	5.1	8.10	23.1	0.001	3	0.20	0.005	0.03	<0.1	0.7	0.70	<0.02	6054	0.4	<0.02	0.8	0.82	<0.1	<0.02
1267357	Soil	8.2	24.4	0.29	58.2	0.016	1	1.58	<0.001	0.07	0.2	2.1	0.16	<0.02	<5	0.5	0.07	6.7	1.86	<0.1	0.04
REP 1267357	QC	9.6	27.2	0.33	67.2	0.018	2	1.66	<0.001	0.08	0.2	2.3	0.18	<0.02	6	0.5	0.09	7.3	2.08	<0.1	0.04
1266805	Soil	11.6	20.7	1.29	190.3	0.004	7	1.10	0.004	0.14	<0.1	3.0	0.22	0.05	126	0.5	<0.02	3.1	1.37	<0.1	0.05
REP 1266805	QC	11.4	21.3	1.30	182.6	0.005	7	1.08	0.004	0.14	<0.1	2.9	0.24	0.05	104	0.4	0.05	3.2	1.43	<0.1	0.04
1267043	Soil	18.7	23.9	0.24	140.8	0.002	6	1.21	0.002	0.19	<0.1	2.6	0.20	0.07	20	0.3	0.02	3.3	1.18	<0.1	0.08
REP 1267043	QC	18.0	22.4	0.23	139.9	0.001	5	1.15	0.002	0.17	<0.1	2.6	0.18	0.07	23	0.4	0.03	3.2	1.07	<0.1	0.09
1267431	Soil	5.7	9.6	5.42	70.8	<0.001	3	0.37	0.006	0.10	<0.1	2.0	0.61	0.10	73	0.3	<0.02	1.4	1.43	<0.1	<0.02
REP 1267431	QC	5.6	9.3	5.31	69.9	<0.001	3	0.37	0.006	0.10	<0.1	1.9	0.59	0.09	77	0.3	0.03	1.3	1.30	<0.1	0.02
1267166	Soil	17.3	21.4	1.35	303.5	0.003	15	1.06	0.006	0.27	<0.1	5.0	0.37	0.08	50	0.9	0.06	3.2	1.46	<0.1	0.11
REP 1267166	QC	17.3	21.0	1.39	305.5	0.003	14	1.01	0.006	0.25	<0.1	5.2	0.36	0.08	44	0.9	0.05	3.0	1.27	<0.1	0.11
1267186	Soil	5.0	5.3	9.31	24.0	0.005	2	0.26	0.010	0.02	<0.1	0.5	0.85	0.05	2663	0.6	0.03	0.8	0.30	<0.1	<0.02
REP 1267186	QC	4.9	4.8	8.98	23.4	0.005	3	0.24	0.009	0.02	<0.1	0.5	0.77	0.05	2818	0.7	0.03	0.8	0.27	<0.1	<0.02
1266518	Soil	5.2	4.1	8.21	23.5	0.003	5	0.18	0.012	0.02	<0.1	0.3	0.10	0.04	25	0.2	<0.02	0.4	0.22	<0.1	<0.02
REP 1266518	QC	5.6	4.5	9.13	23.4	0.003	5	0.19	0.012	0.02	<0.1	0.3	0.10	0.04	25	0.3	0.02	0.4	0.21	<0.1	<0.02

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 1 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001355.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
Pulp Duplicates														
1267790	Soil	0.43	16.1	1.3	<0.05	<0.1	3.17	13.7	0.05	<1	0.9	6.5	<10	<2
REP 1267790	QC	0.41	16.9	1.1	<0.05	<0.1	3.23	14.2	0.05	<1	0.8	6.6	<10	<2
1267318	Soil	0.46	7.3	1.1	<0.05	1.6	9.10	25.0	0.03	<1	0.9	13.5	<10	<2
REP 1267318	QC	0.44	6.6	1.2	<0.05	1.6	8.62	23.6	0.02	<1	0.7	13.4	<10	<2
1266711	Soil	0.66	11.9	0.7	<0.05	0.3	4.61	28.0	0.03	<1	0.6	12.9	<10	<2
REP 1266711	QC	0.61	12.1	0.7	<0.05	0.3	4.67	27.9	0.04	<1	0.6	13.4	<10	<2
1266726	Soil	0.45	21.3	1.9	<0.05	1.1	5.50	9.9	0.04	<1	0.7	11.1	<10	<2
REP 1266726	QC	0.47	21.0	1.8	<0.05	1.4	5.46	10.1	0.03	<1	0.7	11.4	<10	<2
1266745	Soil	0.34	10.7	1.4	<0.05	3.7	12.83	29.6	0.03	<1	1.1	26.8	<10	<2
REP 1266745	QC	0.36	11.5	1.6	<0.05	3.5	12.75	28.4	0.03	<1	1.1	25.8	<10	<2
1267115	Soil	0.44	8.6	0.8	<0.05	1.1	6.85	18.2	<0.02	<1	0.6	9.9	<10	<2
REP 1267115	QC	0.43	9.2	0.7	<0.05	0.9	6.70	17.5	0.02	<1	0.4	10.0	<10	<2
1267423	Soil	0.03	2.9	1.0	<0.05	0.4	6.19	9.8	<0.02	1	0.3	1.4	<10	<2
REP 1267423	QC	0.04	2.9	1.0	<0.05	0.4	5.90	9.1	<0.02	<1	0.4	1.4	<10	<2
1267357	Soil	1.07	11.6	1.7	<0.05	1.6	2.23	17.0	0.04	<1	0.4	14.4	<10	<2
REP 1267357	QC	1.20	12.5	1.9	<0.05	1.8	2.53	20.1	0.04	<1	0.4	16.5	<10	<2
1266805	Soil	0.36	9.1	0.7	<0.05	1.7	9.35	29.9	0.03	<1	0.8	14.1	<10	<2
REP 1266805	QC	0.38	9.5	0.6	<0.05	1.7	9.68	30.4	0.03	<1	0.8	14.2	<10	<2
1267043	Soil	0.36	13.4	1.9	<0.05	4.2	13.48	51.6	0.04	<1	1.5	13.8	<10	<2
REP 1267043	QC	0.35	12.3	1.6	<0.05	4.2	13.19	50.6	0.04	<1	1.3	13.3	<10	<2
1267431	Soil	0.07	5.5	0.7	<0.05	0.9	7.70	10.3	0.02	<1	0.4	2.5	<10	<2
REP 1267431	QC	0.08	5.2	1.0	<0.05	1.0	7.74	9.7	0.02	<1	0.5	2.5	<10	<2
1267166	Soil	0.43	12.3	2.9	<0.05	3.7	14.07	39.2	0.03	<1	1.1	7.9	<10	<2
REP 1267166	QC	0.43	11.8	2.8	<0.05	3.9	14.44	38.9	0.03	1	0.9	7.5	<10	<2
1267186	Soil	0.06	2.2	0.7	<0.05	0.4	4.98	8.6	<0.02	<1	0.3	2.0	<10	<2
REP 1267186	QC	0.06	1.9	0.8	<0.05	0.3	4.76	8.2	<0.02	<1	0.3	1.8	<10	<2
1266518	Soil	0.08	1.8	1.5	<0.05	0.3	5.28	6.2	0.02	1	0.1	1.5	<10	<2
REP 1266518	QC	0.07	1.8	1.5	<0.05	0.5	5.80	7.0	<0.02	<1	0.2	1.5	<10	<2

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: October 31, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001355.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
1266754	Soil	1.13	47.00	28.88	101.1	28	33.4	31.5	3561	4.37	20.6	1.4	1.3	4.7	11.9	0.08	0.35	0.51	37	0.03	0.052
REP 1266754	QC	1.04	43.34	27.62	93.2	21	30.4	29.5	3378	4.14	19.6	1.3	1.2	4.2	11.2	0.08	0.32	0.49	35	0.02	0.050
Reference Materials																					
STD DS8	Standard	12.75	98.92	118.8	284.6	1583	36.7	7.4	578	2.37	25.2	2.7	96.3	6.3	61.6	2.37	4.89	6.24	40	0.63	0.081
STD DS8	Standard	13.12	103.5	119.0	311.2	1722	37.1	7.1	609	2.41	24.1	2.7	105.6	6.5	63.1	2.20	5.28	5.87	40	0.70	0.077
STD DS8	Standard	14.51	112.1	133.7	325.7	1825	39.7	7.7	644	2.60	25.5	3.2	122.0	7.9	76.3	2.44	6.37	6.88	41	0.78	0.083
STD DS8	Standard	14.45	108.2	134.8	328.4	1936	40.3	8.4	631	2.58	26.4	3.0	122.1	7.4	65.5	2.60	5.96	7.51	43	0.74	0.090
STD DS8	Standard	14.06	105.0	125.3	318.9	1751	39.6	8.1	634	2.38	24.4	2.7	118.3	6.7	65.9	2.43	5.21	6.91	41	0.77	0.086
STD DS8	Standard	11.69	102.7	118.0	298.9	1674	34.9	7.0	578	2.37	23.2	2.6	104.3	6.3	59.0	2.17	4.78	6.24	40	0.64	0.079
STD DS8	Standard	13.81	111.9	133.9	324.1	1950	38.7	7.6	670	2.62	25.4	3.0	130.2	7.5	68.1	2.45	5.47	6.84	44	0.74	0.087
STD DS8	Standard	11.79	96.54	116.5	275.5	1662	33.1	6.4	540	2.28	22.0	2.5	101.6	6.2	58.4	2.15	4.75	5.65	40	0.62	0.076
STD DS8	Standard	11.79	96.54	116.5	275.5	1662	33.1	6.4	540	2.28	22.0	2.5	101.6	6.2	58.4	2.15	4.75	5.65	40	0.62	0.076
STD DS8	Standard	13.05	102.7	125.0	307.1	1792	37.7	7.3	608	2.39	24.0	2.7	106.0	6.7	62.0	2.23	5.02	6.10	42	0.73	0.079
STD DS8	Standard	12.07	105.8	117.2	298.6	1634	36.8	7.3	557	2.34	22.2	2.6	101.1	6.3	57.9	2.17	4.73	5.40	40	0.67	0.074
STD OREAS131B	Standard																				
STD OREAS153A	Standard																				
STD SU-1B	Standard																				
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
STD OREAS131B Expected																					
STD SU-1B Expected																					
STD OREAS153A Expected																					
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	5	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	0.09	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	1.7	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001355.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02	
1266754	Soil	7.7	31.6	0.57	186.1	0.005	2	2.03	0.006	0.13	0.1	5.8	0.12	<0.02	24	0.2	0.04	6.5	5.58	<0.1	0.07	
REP 1266754	QC	7.1	29.7	0.55	174.2	0.005	2	1.92	0.006	0.12	0.1	5.5	0.10	<0.02	19	0.1	0.06	6.2	4.98	<0.1	0.06	
Reference Materials																						
STD DS8	Standard	13.6	111.4	0.56	262.1	0.110	2	0.93	0.102	0.42	2.8	2.0	4.89	0.16	167	4.6	4.47	4.2	2.29	<0.1	0.07	
STD DS8	Standard	14.8	118.9	0.60	265.8	0.110	3	0.94	0.090	0.41	3.0	2.1	5.39	0.16	191	5.3	5.02	4.9	2.48	0.1	0.09	
STD DS8	Standard	18.6	121.6	0.64	300.1	0.128	3	0.97	0.094	0.42	3.2	2.3	5.66	0.17	212	5.4	5.29	5.1	2.70	0.2	0.10	
STD DS8	Standard	16.7	120.9	0.63	321.8	0.124	2	0.99	0.105	0.44	3.6	2.3	5.91	0.17	216	5.7	5.35	5.0	2.71	<0.1	0.12	
STD DS8	Standard	15.2	126.7	0.63	273.5	0.116	3	0.91	0.085	0.41	3.0	2.2	5.57	0.16	216	5.5	5.15	4.8	2.62	0.1	0.09	
STD DS8	Standard	12.9	111.4	0.58	221.1	0.091	2	0.88	0.082	0.40	2.8	2.1	5.38	0.16	164	4.9	5.18	4.5	2.46	<0.1	0.07	
STD DS8	Standard	16.1	128.5	0.65	278.3	0.116	3	0.96	0.095	0.43	3.2	2.5	5.91	0.17	231	5.8	5.38	5.4	2.77	0.1	0.08	
STD DS8	Standard	14.6	104.7	0.54	254.4	0.094	3	0.85	0.082	0.38	2.8	2.0	5.09	0.16	182	4.8	4.92	4.2	2.38	0.1	0.08	
STD DS8	Standard	14.6	104.7	0.54	254.4	0.094	3	0.85	0.082	0.38	2.8	2.0	5.09	0.16	182	4.8	4.92	4.2	2.38	0.1	0.08	
STD DS8	Standard	15.8	123.5	0.61	274.7	0.109	2	0.96	0.088	0.41	3.0	2.3	5.68	0.16	202	5.3	5.12	4.6	2.54	<0.1	0.08	
STD DS8	Standard	12.8	110.2	0.57	238.7	0.101	3	0.95	0.116	0.42	2.7	1.9	5.13	0.15	186	5.0	4.87	4.3	2.28	<0.1	0.09	
STD OREAS131B	Standard																					
STD OREAS153A	Standard																					
STD SU-1B	Standard																					
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08	
STD OREAS131B Expected																						
STD SU-1B Expected																						
STD OREAS153A Expected																						
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	

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www.acmelab.com

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: October 31, 2011

Page: 2 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001355.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2	7TD Zn %
1266754	Soil	0.23	15.2	1.2	<0.05	2.8	7.70	22.3	0.05	<1	1.8	51.0	<10	<2	
REP 1266754	QC	0.22	14.1	1.1	<0.05	2.5	7.18	20.9	0.05	<1	1.8	48.9	<10	<2	
Reference Materials															
STD DS8	Standard	1.22	36.7	6.0	<0.05	1.9	5.42	25.1	1.92	45	4.8	25.6	92	316	
STD DS8	Standard	1.44	38.9	6.5	<0.05	1.9	6.22	28.4	2.20	55	5.3	27.7	105	339	
STD DS8	Standard	1.53	40.6	6.9	<0.05	2.1	7.19	32.9	2.18	52	5.3	29.0	117	339	
STD DS8	Standard	1.45	38.5	7.7	<0.05	2.4	6.65	30.1	2.52	59	5.8	30.6	126	369	
STD DS8	Standard	1.22	38.2	6.9	<0.05	2.2	6.27	29.1	2.20	66	6.0	29.5	111	364	
STD DS8	Standard	1.00	37.0	6.2	<0.05	1.7	5.12	23.8	2.18	57	5.2	25.2	110	324	
STD DS8	Standard	1.37	40.1	7.1	<0.05	2.0	6.49	29.7	2.37	60	5.7	30.0	130	350	
STD DS8	Standard	1.09	35.5	6.3	<0.05	1.8	5.45	26.6	2.15	50	4.9	25.5	117	333	
STD DS8	Standard	1.09	35.5	6.3	<0.05	1.8	5.45	26.6	2.15	50	4.9	25.5	117	333	
STD DS8	Standard	1.42	39.0	6.4	<0.05	1.9	6.24	29.8	2.23	49	5.3	27.1	116	372	
STD DS8	Standard	1.13	35.7	6.1	<0.05	1.8	5.08	23.8	2.03	56	4.5	25.6	114	321	
STD OREAS131B	Standard														3.18
STD OREAS153A	Standard														<0.01
STD SU-1B	Standard														0.03
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339	
STD OREAS131B Expected															3.14
STD SU-1B Expected															0.0235
STD OREAS153A Expected															0.0053
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

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Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: October 31, 2011

Page: 3 of 3 **Part** 1

QUALITY CONTROL REPORT

WHI11001355.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank																				



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Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001355.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank																				



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Project: Scarlet
 Report Date: October 31, 2011

Page: 3 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001355.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	7TD	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank														<0.01



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Vancouver BC V6C 2G8 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: August 29, 2011
Report Date: November 01, 2011
Page: 1 of 15

CERTIFICATE OF ANALYSIS

WHI11001356.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-24
P.O. Number: NA-10337
Number of Samples: 392

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8
Canada

CC: David Clark
database backup
Simon Ridgway
Scott Turton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, 1F05, and RJSV.

ADDITIONAL COMMENTS



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Project: Scarlet
 Report Date: November 01, 2011

Page: 2 of 15 Part 1

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1266765	Soil			0.97	18.95	232.1	1261	219	14.5	6.5	971	3.02	13.8	2.4	2.0	1.9	57.3	2.53	0.99	0.16	17	7.25	0.091
1266766	Soil			0.92	35.79	215.6	440.4	496	24.5	11.4	382	2.75	16.9	6.2	13.6	2.6	50.6	0.94	1.81	0.27	18	1.24	0.069
1266767	Soil			0.45	36.61	42.16	149.2	167	22.7	7.9	167	2.50	6.5	5.3	6.9	1.7	38.6	0.33	0.50	0.24	27	1.21	0.087
1266768	Soil			0.64	29.07	71.76	332.4	160	19.5	7.8	265	2.77	16.5	3.6	3.4	2.7	31.5	0.38	0.70	0.27	18	0.76	0.078
1266769	Soil			0.42	32.83	20.96	93.5	103	26.3	11.3	311	2.26	6.5	1.6	7.0	6.7	95.6	0.29	0.39	0.17	26	4.98	0.066
1266770	Soil			0.24	25.95	11.47	90.5	40	34.8	11.2	133	2.67	2.4	1.5	1.9	3.4	23.1	0.09	0.16	0.32	15	0.98	0.066
617848	Soil			0.71	24.33	26.16	86.8	54	21.2	12.0	496	4.13	7.4	0.6	1.4	3.0	23.7	0.15	0.29	0.44	39	0.32	0.054
617849	Soil			0.59	19.27	17.48	85.2	309	19.9	10.4	346	4.66	5.2	0.4	0.4	3.8	6.6	0.08	0.32	0.39	37	0.05	0.028
617850	Soil			0.58	20.51	27.85	86.3	62	25.7	11.9	586	4.35	10.3	0.7	0.2	3.6	9.0	0.07	0.78	0.38	28	0.07	0.040
617851	Soil			0.75	23.96	35.22	97.1	72	28.2	16.4	769	4.29	7.6	1.0	1.4	3.9	11.8	0.16	0.57	0.37	35	0.14	0.049
617852	Soil			0.68	22.60	38.84	82.5	145	17.6	18.2	846	4.89	8.4	0.6	<0.2	3.4	5.1	0.11	0.48	0.46	38	0.02	0.039
617601	Soil			0.50	29.03	18.85	81.1	176	28.7	12.0	382	2.85	7.7	2.0	3.2	3.1	84.8	0.17	0.36	0.32	24	1.13	0.062
617602	Soil			0.57	36.04	100.1	101.4	130	30.9	44.3	2428	3.93	6.8	1.1	1.0	4.6	10.6	0.14	0.32	0.59	28	0.04	0.041
617603	Soil			0.84	21.56	51.19	95.7	46	24.1	23.6	822	3.64	6.8	0.6	0.7	3.5	7.2	0.22	0.42	0.43	31	0.03	0.047
617604	Soil			1.10	28.17	34.12	84.4	81	22.4	16.0	734	4.99	7.8	0.7	1.3	3.5	8.0	0.13	0.48	0.57	38	0.03	0.053
617605	Soil			1.14	19.85	35.35	74.1	66	23.5	12.5	434	4.09	9.0	0.6	0.7	4.0	10.6	0.13	0.49	0.40	36	0.04	0.046
617606	Soil			1.23	16.00	18.91	58.9	73	18.0	9.9	523	3.21	6.7	0.6	1.2	4.7	6.6	0.13	0.60	0.34	52	0.03	0.026
617607	Soil			0.86	22.17	22.06	57.7	58	9.1	6.2	431	4.25	5.9	0.6	1.0	2.4	6.1	0.06	0.32	0.47	44	0.03	0.061
617608	Soil			0.41	29.28	39.04	80.0	69	30.7	27.9	1709	4.12	4.6	0.7	0.5	4.0	10.3	0.07	0.19	0.37	30	0.10	0.052
617609	Soil			0.54	50.60	41.64	88.5	35	36.0	26.6	1857	4.25	4.1	0.9	1.5	4.7	13.7	0.07	0.28	0.38	33	0.10	0.046
617610	Soil			0.54	54.02	62.63	96.2	67	45.2	52.0	2389	4.71	3.0	1.0	1.6	5.2	15.9	0.07	0.20	0.44	30	0.10	0.028
617611	Soil			1.06	12.71	38.18	123.2	115	17.7	7.3	519	2.35	13.7	0.9	1.8	1.2	15.1	0.29	3.61	0.29	23	1.94	0.080
617612	Soil			0.76	16.04	26.03	90.8	129	15.7	7.5	1750	4.07	19.0	1.9	2.5	1.4	19.2	0.43	2.97	0.26	31	1.95	0.120
617613	Soil			0.69	27.18	28.93	92.5	152	26.8	10.5	637	2.77	12.5	1.4	2.3	3.5	49.6	0.20	1.54	0.30	16	1.74	0.095
617614	Soil			0.45	22.07	26.54	96.8	141	23.7	9.1	440	2.41	8.6	1.5	2.2	3.6	47.7	0.19	1.28	0.33	16	0.99	0.079
617615	Soil			0.61	31.04	23.88	85.2	157	26.2	11.4	365	2.84	8.4	1.6	2.4	2.9	118.3	0.14	0.56	0.31	21	1.92	0.063
617616	Soil			0.55	30.88	25.21	73.2	99	32.5	13.1	369	3.54	10.7	1.7	1.9	5.4	54.4	0.11	0.40	0.33	24	0.49	0.033
617905	Soil			0.51	34.28	58.49	82.6	44	34.3	34.2	1331	3.91	4.4	1.1	1.6	4.2	16.5	0.08	0.19	0.48	30	0.13	0.052
1097661	Soil			0.90	14.84	18.89	59.3	111	18.8	10.1	444	3.97	8.5	0.6	<0.2	3.4	5.6	0.09	0.94	0.34	45	0.03	0.030
1098150	Soil			0.64	20.21	25.70	69.4	61	25.7	12.9	1260	4.05	12.4	1.7	1.2	4.3	19.7	0.17	0.62	0.32	29	0.61	0.050



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 2 of 15 Part 2

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1266765	Soil	11.0	13.8	4.90	52.4	0.003	4	0.75	0.009	0.13	<0.1	2.6	1.15	0.04	327	0.5	<0.02	2.0	1.51	<0.1	0.03
1266766	Soil	17.1	17.2	0.33	76.4	0.002	7	0.73	0.004	0.14	<0.1	3.4	0.43	0.08	209	1.1	0.03	2.2	0.79	<0.1	0.17
1266767	Soil	20.6	28.9	1.08	92.9	0.004	7	1.46	0.005	0.13	<0.1	3.6	0.19	0.11	62	0.9	<0.02	4.4	1.99	<0.1	0.10
1266768	Soil	12.1	17.8	0.49	126.5	0.002	7	0.93	0.002	0.14	<0.1	3.4	0.22	0.07	53	0.8	0.02	2.7	1.79	<0.1	0.07
1266769	Soil	22.2	35.2	2.75	43.4	0.003	5	1.35	0.006	0.17	<0.1	4.2	0.16	0.07	31	0.8	<0.02	4.3	1.90	<0.1	0.13
1266770	Soil	18.6	35.2	1.18	208.7	0.003	5	1.46	0.002	0.10	<0.1	4.5	0.07	0.05	27	0.3	0.02	4.1	1.17	<0.1	0.10
617848	Soil	6.7	37.9	0.45	113.4	0.003	2	1.73	0.007	0.09	<0.1	3.1	0.10	0.03	23	0.1	0.02	8.1	2.41	<0.1	<0.02
617849	Soil	6.1	33.4	0.34	137.2	0.002	<1	2.16	0.005	0.14	<0.1	2.7	0.13	<0.02	30	0.1	0.04	8.2	1.97	<0.1	0.04
617850	Soil	6.8	29.0	0.44	109.2	0.002	3	1.81	0.003	0.13	<0.1	2.7	0.13	<0.02	18	0.1	0.03	5.1	2.10	<0.1	0.05
617851	Soil	8.9	36.2	0.44	161.8	0.005	2	2.00	0.004	0.12	<0.1	3.5	0.12	0.02	43	0.2	0.03	6.2	2.83	<0.1	0.04
617852	Soil	5.1	28.9	0.23	90.0	0.002	2	1.93	0.001	0.11	<0.1	2.5	0.12	<0.02	38	0.2	0.02	7.6	1.90	<0.1	0.05
617601	Soil	13.1	27.0	0.70	112.7	0.005	5	1.50	0.005	0.11	<0.1	4.6	0.10	0.05	98	0.4	0.03	4.2	1.46	<0.1	0.07
617602	Soil	7.5	32.5	0.41	175.5	0.004	2	1.88	0.004	0.17	<0.1	4.3	0.26	<0.02	38	0.2	0.03	7.0	3.59	<0.1	0.04
617603	Soil	6.5	32.1	0.38	95.8	0.006	3	1.90	0.002	0.14	<0.1	2.5	0.17	0.03	37	0.2	<0.02	6.2	3.35	<0.1	0.05
617604	Soil	5.6	38.2	0.34	100.1	0.004	2	2.12	0.002	0.12	<0.1	3.2	0.14	0.03	43	0.3	0.04	8.0	3.39	<0.1	0.05
617605	Soil	7.9	33.7	0.37	138.5	0.004	1	2.00	0.003	0.11	<0.1	2.5	0.14	0.04	36	0.2	0.05	6.3	1.91	<0.1	0.03
617606	Soil	11.7	29.8	0.30	126.3	0.012	2	1.78	0.002	0.09	0.1	2.4	0.18	<0.02	22	0.3	0.03	7.8	1.96	<0.1	0.02
617607	Soil	5.1	24.6	0.16	64.9	0.004	<1	1.47	0.003	0.10	<0.1	2.2	0.15	0.04	35	0.2	0.03	9.5	2.02	<0.1	0.02
617608	Soil	7.1	37.5	0.62	106.5	0.003	2	2.14	0.005	0.12	<0.1	5.1	0.11	0.02	27	<0.1	<0.02	7.1	2.48	<0.1	0.02
617609	Soil	7.2	40.2	0.74	328.7	0.006	1	2.18	0.006	0.14	<0.1	5.5	0.15	0.02	27	<0.1	0.03	7.7	3.56	<0.1	0.02
617610	Soil	4.4	41.5	0.87	187.3	0.005	2	2.31	0.009	0.14	<0.1	6.0	0.17	<0.02	25	<0.1	<0.02	8.6	3.25	<0.1	0.04
617611	Soil	8.0	17.8	0.92	93.0	0.007	3	0.91	0.008	0.05	0.1	2.1	0.11	0.08	158	0.3	0.03	2.6	0.42	<0.1	0.04
617612	Soil	13.4	22.9	0.77	148.0	0.008	3	1.26	0.005	0.06	<0.1	2.5	0.15	0.10	156	0.4	0.04	3.5	0.96	<0.1	0.04
617613	Soil	10.1	20.2	0.99	87.4	0.002	4	1.04	0.004	0.09	<0.1	3.6	0.09	0.05	189	0.3	0.03	3.0	0.79	<0.1	0.07
617614	Soil	11.0	20.7	0.52	87.8	0.002	5	1.12	0.004	0.10	<0.1	3.9	0.09	0.05	171	0.4	0.04	3.3	0.68	<0.1	0.05
617615	Soil	10.7	24.5	0.77	95.7	0.003	4	1.31	0.007	0.12	<0.1	4.2	0.12	0.05	88	0.4	0.04	3.9	1.58	<0.1	0.08
617616	Soil	13.3	29.6	0.73	109.2	0.002	3	1.77	0.004	0.08	<0.1	5.5	0.09	0.02	43	0.2	0.05	5.1	1.18	<0.1	0.10
617905	Soil	9.9	41.1	0.66	94.6	0.003	1	2.05	0.006	0.11	<0.1	5.9	0.12	0.03	45	0.1	0.02	7.8	3.88	<0.1	0.03
1097661	Soil	6.0	28.7	0.33	130.7	0.004	1	1.56	0.003	0.11	0.1	2.3	0.12	<0.02	28	0.1	0.04	6.1	1.36	<0.1	<0.02
1098150	Soil	14.3	28.7	0.66	212.6	0.003	2	1.71	0.004	0.07	<0.1	4.1	0.10	0.03	48	0.3	0.03	4.6	0.77	<0.1	0.06



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 2 of 15 Part 3

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1266765	Soil			0.11	8.3	1.5	<0.05	1.4	9.31	20.8	0.02	<1	0.7	9.5	<10	<2
1266766	Soil			0.16	8.5	0.7	<0.05	6.0	11.35	32.9	0.03	1	0.9	10.8	<10	<2
1266767	Soil			0.26	11.7	1.1	<0.05	3.8	16.63	35.2	0.03	<1	1.2	30.7	<10	<2
1266768	Soil			0.15	11.1	0.6	<0.05	3.0	12.42	19.9	0.03	1	0.9	13.9	<10	<2
1266769	Soil			0.03	10.6	2.2	<0.05	7.3	10.01	46.2	0.03	<1	1.1	30.3	<10	<2
1266770	Soil			0.17	7.1	0.9	<0.05	3.8	16.16	35.2	0.02	<1	0.9	31.9	<10	<2
617848	Soil			0.47	14.4	3.6	<0.05	0.7	4.55	16.8	0.04	<1	1.1	31.1	<10	<2
617849	Soil			0.37	18.8	1.5	<0.05	2.4	3.22	13.2	0.04	<1	0.7	55.0	<10	<2
617850	Soil			0.35	15.6	1.2	<0.05	1.9	3.71	16.5	0.04	<1	1.0	40.5	<10	<2
617851	Soil			0.47	15.6	1.8	<0.05	1.2	8.36	23.7	0.03	1	1.1	40.2	<10	<2
617852	Soil			0.30	16.1	2.9	<0.05	2.3	3.56	13.1	0.04	<1	0.9	33.8	<10	<2
617601	Soil			0.40	8.8	1.0	<0.05	2.4	12.25	27.2	0.03	<1	0.9	46.6	<10	<2
617602	Soil			0.16	22.4	2.0	<0.05	1.3	8.87	25.3	0.04	<1	1.7	33.5	<10	<2
617603	Soil			0.45	19.4	1.1	<0.05	1.2	4.04	18.6	0.04	2	1.3	42.5	<10	<2
617604	Soil			0.43	19.9	2.8	<0.05	1.7	4.59	16.3	0.03	<1	1.3	38.7	<10	<2
617605	Soil			0.64	15.1	2.9	<0.05	1.1	4.15	19.3	0.03	<1	1.0	41.3	<10	<2
617606	Soil			0.79	19.9	1.7	<0.05	1.6	3.48	25.1	0.02	<1	0.5	22.9	<10	<2
617607	Soil			0.49	17.9	3.7	<0.05	0.9	4.04	11.5	0.03	<1	0.6	5.7	<10	<2
617608	Soil			0.15	12.9	1.6	<0.05	1.2	7.85	24.2	0.04	<1	1.5	39.0	<10	<2
617609	Soil			0.21	17.1	1.3	<0.05	1.0	12.37	23.8	0.03	<1	2.0	40.7	<10	<2
617610	Soil			0.07	15.1	5.9	<0.05	2.6	12.03	20.9	0.04	1	1.7	46.9	<10	<2
617611	Soil			0.53	4.6	2.2	<0.05	1.2	6.58	17.5	<0.02	<1	0.5	9.0	<10	<2
617612	Soil			0.49	7.1	0.9	<0.05	1.1	10.46	26.1	0.03	<1	0.6	16.0	<10	<2
617613	Soil			0.21	5.8	4.6	<0.05	2.4	10.59	24.0	0.04	<1	0.7	25.2	<10	<2
617614	Soil			0.26	7.2	1.5	<0.05	2.2	10.06	27.0	0.03	<1	0.9	26.0	<10	<2
617615	Soil			0.30	9.3	1.8	<0.05	3.0	10.94	22.6	0.03	<1	1.0	36.5	<10	<2
617616	Soil			0.24	8.5	2.1	<0.05	4.2	13.66	26.6	0.04	<1	1.2	50.5	<10	<2
617905	Soil			0.18	11.8	5.9	<0.05	1.0	12.75	34.2	0.03	<1	1.8	36.9	<10	<2
1097661	Soil			0.41	15.6	1.9	<0.05	0.6	2.17	12.9	0.03	<1	0.7	25.3	<10	<2
1098150	Soil			0.37	9.2	2.0	<0.05	2.0	10.80	36.4	0.03	<1	0.9	30.9	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: November 01, 2011

Page: 3 of 15 Part 1

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1096523	Soil		0.01	0.72	21.03	24.82	92.8	53	24.1	11.5	1128	4.10	10.4	2.5	0.5	3.2	15.0	0.29	0.68	0.31	36	0.34	0.063
1096524	Soil		0.01	0.76	17.97	22.66	88.0	109	23.8	10.4	701	3.69	11.0	1.3	0.9	4.0	20.1	0.21	0.67	0.30	40	0.83	0.046
1096525	Soil		0.01	0.56	19.68	25.58	59.8	59	24.2	12.3	1070	4.05	13.2	1.2	1.3	5.1	10.4	0.14	0.70	0.34	24	0.80	0.041
1096526	Soil		0.01	0.66	11.44	15.77	62.9	6	14.0	6.6	274	3.28	8.4	0.6	0.7	3.5	7.0	0.09	0.49	0.32	34	0.12	0.018
1096527	Soil		0.01	0.39	17.84	15.15	43.3	50	16.9	8.1	447	2.23	6.9	0.8	0.9	2.6	56.6	0.08	0.34	0.20	13	6.83	0.051
617780	Soil		0.01	1.01	20.13	17.45	73.4	38	18.6	9.4	391	3.74	7.5	0.8	1.0	4.0	6.2	0.11	0.58	0.38	43	0.05	0.025
617781	Soil		0.01	0.86	26.44	35.35	84.8	31	27.1	15.9	792	3.69	6.0	0.6	2.7	4.7	6.3	0.12	0.35	0.40	26	0.04	0.044
617782	Soil		0.01	0.97	47.53	82.83	87.1	138	28.6	42.0	1752	4.79	9.7	1.0	6.0	3.6	6.9	0.13	0.55	0.53	30	0.05	0.068
617783	Soil		0.01	0.95	22.97	31.83	89.3	75	20.9	14.3	793	3.52	6.3	0.7	2.7	2.7	8.8	0.15	0.43	0.36	34	0.09	0.053
617784	Soil		0.01	0.71	39.43	62.45	106.2	134	34.6	33.1	1822	5.25	6.6	1.0	1.8	3.9	13.0	0.12	0.21	0.50	40	0.10	0.053
617785	Soil		0.01	0.75	27.14	45.01	88.6	83	29.3	23.8	1655	4.71	8.0	0.6	1.8	4.5	6.5	0.12	0.30	0.38	34	0.06	0.034
617786	Soil		0.01	0.66	22.94	22.40	63.4	89	17.0	12.7	704	4.31	5.3	0.5	2.3	3.6	5.3	0.09	0.32	0.37	40	0.02	0.033
617787	Soil		0.01	0.97	31.30	30.75	76.2	121	27.7	16.3	811	4.70	7.6	0.9	1.1	4.2	4.8	0.12	0.93	0.46	39	0.05	0.052
617788	Soil		0.01	0.74	19.03	29.36	43.0	40	10.8	11.1	3542	3.72	2.4	0.7	1.0	3.3	3.0	0.12	0.42	0.35	41	0.03	0.036
617789	Soil		0.01	0.71	42.41	27.36	81.2	41	24.1	16.4	2058	3.67	4.9	0.9	2.1	3.4	5.7	0.10	0.46	0.34	36	0.07	0.066
617790	Soil		0.01	0.64	39.15	31.77	85.9	41	28.5	20.6	1480	3.94	5.3	0.9	1.7	3.4	8.8	0.13	0.27	0.32	28	0.07	0.044
617791	Soil		0.01	0.75	41.23	37.53	81.4	102	29.3	18.8	1112	4.05	6.2	1.1	2.9	3.8	11.7	0.07	0.39	0.36	31	0.15	0.059
617792	Soil		0.01	0.56	28.92	32.80	75.4	41	26.2	18.7	785	4.35	5.9	0.7	0.9	3.8	17.7	0.09	0.37	0.32	33	0.33	0.033
617793	Soil		0.01	0.57	31.35	28.65	72.1	102	27.1	14.3	1344	3.68	9.4	1.6	2.8	3.1	32.0	0.16	0.70	0.30	28	1.84	0.060
617794	Soil		0.01	0.46	27.10	28.94	79.0	67	26.5	13.6	1163	3.53	12.1	1.1	1.7	3.0	33.5	0.11	0.76	0.29	20	1.73	0.042
617795	Soil		0.01	0.55	36.71	27.99	91.8	85	33.7	16.6	651	3.51	10.9	0.8	2.6	4.5	56.1	0.16	0.47	0.31	17	1.63	0.040
617796	Soil		0.01	0.66	32.14	29.88	88.6	90	30.0	15.5	701	3.40	12.5	1.3	2.2	4.4	30.7	0.14	0.72	0.33	20	1.29	0.046
617797	Soil		0.01	1.15	28.29	25.94	108.0	149	29.1	11.8	905	4.26	17.9	2.0	3.0	1.9	27.7	0.27	1.15	0.35	33	1.73	0.088
617798	Soil		0.01	1.14	36.74	37.07	72.2	78	35.0	19.8	990	3.51	19.9	1.5	2.6	2.3	35.2	0.16	1.10	0.36	14	2.32	0.050
617799	Soil		0.01	0.77	17.42	18.83	102.0	50	17.5	9.5	347	4.35	6.1	0.4	1.0	2.7	9.0	0.06	0.36	0.37	42	0.10	0.046
617800	Soil		0.01	0.78	26.67	35.59	87.8	79	24.8	24.3	2448	4.28	6.4	0.5	1.0	4.1	4.3	0.18	0.33	0.37	35	0.03	0.047
1098487	Soil		0.01	1.16	182.6	44.47	114.6	55	40.6	45.8	1339	4.34	7.3	1.5	1.3	3.4	5.2	0.10	0.28	0.38	35	0.05	0.061
1098488	Soil		0.01	0.68	33.80	26.68	89.7	53	26.2	23.2	1505	4.84	2.6	0.7	1.2	3.7	4.5	0.18	0.26	0.44	38	0.02	0.071
1098489	Soil		0.01	0.88	32.53	50.45	88.8	25	32.5	26.9	1259	4.31	6.4	0.9	1.4	5.3	6.0	0.14	0.45	0.34	42	0.03	0.029
1098490	Soil		0.01	0.84	25.87	29.54	73.6	17	25.7	18.5	990	3.60	6.7	0.7	1.8	2.8	5.5	0.08	0.40	0.29	37	0.03	0.026



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 3 of 15 Part 2

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1096523	Soil	12.5	31.1	0.64	155.6	0.005	3	1.95	0.003	0.10	<0.1	3.6	0.12	0.04	36	0.2	0.05	5.1	1.18	<0.1	0.06
1096524	Soil	14.4	33.3	0.72	158.0	0.006	2	1.85	0.005	0.08	0.1	4.3	0.11	0.03	42	0.3	0.03	5.3	0.88	<0.1	0.05
1096525	Soil	19.4	27.2	0.80	68.1	0.001	2	1.70	0.002	0.08	<0.1	5.8	0.11	0.02	31	0.1	0.04	4.1	0.70	<0.1	0.04
1096526	Soil	10.1	20.7	0.30	71.0	0.004	2	1.23	0.002	0.07	<0.1	1.6	0.10	<0.02	12	<0.1	0.04	4.8	0.85	<0.1	0.03
1096527	Soil	7.4	15.5	3.69	74.2	0.003	4	0.85	0.007	0.10	<0.1	2.8	0.05	0.08	51	0.4	0.02	2.2	0.76	<0.1	0.04
617780	Soil	9.9	29.6	0.39	88.2	0.006	2	1.72	0.002	0.09	<0.1	2.2	0.14	<0.02	25	0.2	0.03	7.0	3.21	<0.1	0.03
617781	Soil	6.1	28.6	0.44	68.3	0.002	2	2.03	0.002	0.09	<0.1	2.1	0.12	0.02	23	0.2	0.03	5.5	2.58	<0.1	0.11
617782	Soil	6.8	36.5	0.40	157.3	0.008	4	1.95	0.003	0.13	<0.1	3.6	0.20	0.04	41	0.6	0.05	6.5	5.22	0.1	0.08
617783	Soil	6.3	26.9	0.33	85.9	0.004	2	1.52	0.003	0.11	<0.1	1.9	0.11	0.03	32	0.2	0.02	6.1	2.05	<0.1	0.02
617784	Soil	7.8	45.3	0.48	128.6	0.003	1	2.28	0.006	0.11	<0.1	4.6	0.15	0.02	39	0.2	0.02	9.3	3.93	<0.1	0.06
617785	Soil	7.0	36.6	0.43	99.2	0.003	1	1.96	0.004	0.08	<0.1	3.8	0.11	<0.02	37	0.2	0.03	7.1	2.79	<0.1	0.04
617786	Soil	5.8	29.9	0.27	87.6	0.002	<1	1.68	0.005	0.09	<0.1	2.9	0.10	<0.02	32	0.2	0.04	8.9	1.26	<0.1	0.03
617787	Soil	5.3	36.8	0.40	95.1	0.004	2	2.05	0.004	0.14	<0.1	3.5	0.14	<0.02	42	0.3	0.05	6.9	2.55	<0.1	0.04
617788	Soil	2.8	28.7	0.13	96.4	0.006	2	1.24	0.004	0.09	0.2	2.0	0.15	0.02	24	0.1	0.02	6.5	1.82	<0.1	0.02
617789	Soil	5.9	32.6	0.36	224.2	0.006	3	1.68	0.004	0.11	<0.1	4.6	0.13	0.03	31	0.2	0.06	5.6	3.62	<0.1	0.04
617790	Soil	5.2	30.8	0.45	200.8	0.002	2	1.77	0.004	0.10	<0.1	3.9	0.11	0.02	14	0.1	<0.02	5.7	2.63	<0.1	0.04
617791	Soil	6.5	34.5	0.44	255.1	0.003	3	1.88	0.005	0.12	<0.1	4.8	0.15	0.04	41	0.2	0.03	5.9	3.05	<0.1	0.03
617792	Soil	4.0	34.1	0.46	108.9	0.003	2	1.71	0.006	0.12	<0.1	3.3	0.13	0.02	11	0.1	0.03	6.5	2.21	<0.1	0.03
617793	Soil	12.1	25.2	0.90	192.6	0.003	3	1.53	0.005	0.10	<0.1	4.8	0.14	0.04	80	0.2	0.04	4.6	0.82	<0.1	0.05
617794	Soil	9.3	20.4	1.11	72.2	0.002	4	1.28	0.004	0.09	<0.1	4.0	0.10	0.03	78	0.3	0.03	3.4	0.73	<0.1	0.06
617795	Soil	7.0	21.1	0.90	78.7	0.001	5	1.33	0.004	0.15	<0.1	5.0	0.12	0.03	103	0.4	0.03	3.6	1.42	<0.1	0.09
617796	Soil	9.3	21.4	0.89	70.4	0.003	4	1.21	0.003	0.12	<0.1	4.5	0.13	0.03	70	0.4	0.04	3.4	1.12	<0.1	0.08
617797	Soil	11.2	20.0	0.50	95.8	0.002	3	1.08	0.003	0.08	<0.1	4.5	0.15	0.07	90	0.4	0.09	2.6	0.31	<0.1	0.07
617798	Soil	8.0	11.9	0.86	86.3	<0.001	4	0.60	0.004	0.11	<0.1	5.2	0.35	0.05	97	0.2	0.05	1.6	0.32	<0.1	0.06
617799	Soil	6.2	29.2	0.33	109.9	0.003	<1	1.76	0.001	0.11	<0.1	2.0	0.11	<0.02	19	0.2	0.03	7.9	1.16	<0.1	0.03
617800	Soil	4.8	33.8	0.34	84.1	0.003	1	2.08	0.001	0.09	<0.1	2.5	0.13	0.02	48	0.2	0.04	6.6	3.43	<0.1	0.07
1098487	Soil	5.0	46.2	0.76	129.0	0.004	1	2.53	0.005	0.12	<0.1	4.0	0.18	0.04	33	0.1	0.03	8.8	3.51	<0.1	0.07
1098488	Soil	3.8	38.5	0.39	98.1	0.005	1	2.48	0.004	0.19	<0.1	3.3	0.19	0.03	36	0.2	0.04	8.8	2.57	<0.1	0.10
1098489	Soil	6.6	38.4	0.50	95.7	0.009	1	2.04	0.004	0.10	<0.1	3.6	0.17	<0.02	28	0.2	0.02	6.8	4.12	<0.1	0.03
1098490	Soil	6.4	31.1	0.40	80.1	0.009	1	1.75	0.002	0.06	<0.1	2.7	0.10	<0.02	20	0.3	0.02	5.9	1.86	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 3 of 15 Part 3

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1096523	Soil	0.49	14.4	1.7	<0.05	1.7	8.19	30.0	0.03	<1	1.0	28.2	<10	<2
1096524	Soil	0.67	8.8	1.4	<0.05	2.3	9.60	29.7	0.04	<1	0.9	26.6	<10	<2
1096525	Soil	0.13	9.4	2.3	<0.05	2.2	16.99	39.9	0.05	<1	1.2	23.5	<10	<2
1096526	Soil	0.46	12.8	1.1	<0.05	1.3	2.16	21.7	0.02	<1	0.3	20.8	<10	<2
1096527	Soil	0.12	6.4	2.0	<0.05	1.2	7.01	16.3	0.02	<1	0.5	16.9	<10	<2
617780	Soil	0.50	18.1	1.5	<0.05	1.5	3.19	20.7	0.03	<1	0.7	27.0	<10	<2
617781	Soil	0.29	13.6	2.3	<0.05	4.1	4.61	15.4	0.07	<1	0.9	40.6	<10	<2
617782	Soil	0.45	22.2	4.5	<0.05	2.5	5.68	19.0	0.06	2	2.3	32.0	<10	<2
617783	Soil	0.52	14.8	5.2	<0.05	1.0	3.48	14.4	0.03	<1	0.9	23.3	<10	<2
617784	Soil	0.30	16.6	4.1	<0.05	1.6	7.96	25.3	0.05	<1	1.9	44.0	<10	<2
617785	Soil	0.33	12.2	2.4	<0.05	1.9	5.15	22.1	0.04	<1	1.5	38.9	<10	<2
617786	Soil	0.39	15.9	1.8	<0.05	1.4	3.16	13.2	0.04	<1	0.8	20.2	<10	<2
617787	Soil	0.51	16.8	4.1	<0.05	1.6	4.68	14.2	0.04	<1	1.4	30.0	<10	<2
617788	Soil	0.51	15.3	2.7	<0.05	0.7	2.70	6.8	0.04	<1	0.4	6.2	<10	<2
617789	Soil	0.55	15.8	7.9	<0.05	1.2	6.11	13.4	0.04	<1	1.7	26.0	<10	<2
617790	Soil	0.30	11.7	4.3	<0.05	1.4	6.09	15.2	0.04	<1	1.8	32.8	<10	<2
617791	Soil	0.46	14.6	9.7	<0.05	1.2	8.63	17.5	0.04	<1	1.7	34.1	<10	<2
617792	Soil	0.53	16.8	4.1	<0.05	1.5	3.58	10.6	0.04	<1	0.9	30.0	<10	<2
617793	Soil	0.44	8.5	1.9	<0.05	1.4	13.89	28.0	0.03	<1	1.4	24.2	<10	<2
617794	Soil	0.20	6.5	0.9	<0.05	1.7	9.79	23.1	0.04	<1	1.0	29.0	<10	<2
617795	Soil	0.17	7.7	1.4	<0.05	5.1	10.18	16.0	0.04	<1	1.0	35.4	<10	<2
617796	Soil	0.22	8.3	1.0	<0.05	3.2	10.43	22.2	0.04	<1	1.1	28.4	<10	<2
617797	Soil	0.28	5.2	0.8	<0.05	2.3	19.09	23.2	0.04	<1	1.0	11.5	<10	<2
617798	Soil	0.12	5.2	1.6	<0.05	1.6	12.71	19.4	0.04	<1	1.0	4.9	<10	<2
617799	Soil	0.52	18.8	1.7	<0.05	0.9	2.59	12.8	0.03	<1	0.5	29.5	<10	<2
617800	Soil	0.45	16.7	5.1	<0.05	2.6	3.01	12.1	0.04	<1	1.2	38.0	<10	<2
1098487	Soil	0.43	15.2	6.3	<0.05	2.8	6.61	17.4	0.06	<1	1.5	47.7	<10	<2
1098488	Soil	0.64	26.6	5.1	<0.05	2.3	4.63	11.4	0.06	<1	1.4	27.9	<10	<2
1098489	Soil	0.35	15.1	3.3	<0.05	1.2	4.58	21.2	0.04	<1	1.2	35.2	<10	<2
1098490	Soil	0.41	10.3	1.3	<0.05	0.5	4.35	16.4	0.03	<1	0.9	30.5	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: November 01, 2011

Page: 4 of 15 Part 1

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1098491	Soil			0.91	28.22	36.21	85.4	60	26.8	20.9	688	4.14	7.7	0.6	0.6	2.9	5.5	0.12	0.43	0.35	36	0.03	0.037
1098492	Soil			1.20	22.49	27.33	79.6	34	21.2	13.2	568	4.02	7.5	0.7	3.9	2.0	6.5	0.18	0.55	0.30	39	0.04	0.044
1098493	Soil			1.04	31.88	43.88	114.1	129	25.2	21.8	1255	4.70	7.5	0.7	0.9	3.3	6.9	0.19	0.42	0.44	46	0.04	0.056
1098494	Soil			0.84	34.27	41.45	116.9	88	25.6	27.3	1534	4.62	6.4	0.7	1.1	3.7	8.4	0.18	0.29	0.45	44	0.04	0.047
1098495	Soil			0.66	41.28	75.75	110.0	79	32.0	45.6	2648	4.57	7.4	0.9	0.5	3.2	15.0	0.11	0.31	0.47	31	0.07	0.058
1098496	Soil			0.42	39.02	59.02	100.7	66	36.2	28.4	1537	3.84	6.1	1.0	1.9	4.9	11.8	0.02	0.19	0.49	33	0.09	0.022
1098497	Soil			0.65	19.46	22.13	108.2	74	14.3	16.0	829	3.60	4.1	0.5	1.1	3.7	5.4	0.32	0.27	0.37	40	0.02	0.045
1098498	Soil			0.81	24.22	35.43	100.3	60	23.5	17.9	925	4.53	6.1	0.7	0.6	2.1	5.1	0.17	0.40	0.40	36	0.03	0.067
1098499	Soil			0.73	31.75	60.18	124.9	93	24.1	18.7	1424	4.98	6.0	0.9	0.7	2.0	7.0	0.35	0.37	0.45	48	0.05	0.079
1098500	Soil			0.80	29.24	30.63	80.7	19	29.6	17.8	769	3.74	7.0	0.8	1.7	3.9	7.9	0.11	0.43	0.34	40	0.04	0.021
1098342	Soil			0.66	37.54	75.99	79.1	185	33.2	51.1	2866	3.89	4.8	1.1	0.8	3.1	14.0	0.19	0.22	0.32	24	0.23	0.099
1098343	Soil			0.81	31.52	40.97	72.2	34	25.9	28.9	1294	4.03	7.8	0.9	1.5	3.9	7.5	0.12	0.40	0.30	40	0.05	0.048
1098344	Soil			0.63	37.66	50.01	71.4	77	25.4	24.5	4130	4.09	3.0	0.8	4.3	1.6	6.7	0.29	0.37	0.46	42	0.16	0.096
1098345	Soil			0.73	61.78	70.27	89.8	134	38.8	41.5	3207	4.43	3.6	1.3	3.4	4.5	19.7	0.11	0.25	0.43	33	0.30	0.055
1098346	Soil			0.64	12.13	55.12	302.5	129	13.7	8.1	3646	5.40	21.2	0.8	0.8	1.0	19.0	1.16	3.30	0.22	23	5.88	0.147
1098347	Soil			1.19	20.87	44.85	133.9	209	20.6	7.8	2833	5.71	53.1	2.7	2.0	1.3	21.2	0.40	8.54	0.19	13	7.66	0.144
1098348	Soil			0.74	21.69	25.93	82.7	166	25.0	8.8	382	2.75	8.4	1.7	1.4	2.2	31.3	0.12	1.87	0.32	15	1.36	0.066
1098349	Soil			0.58	31.17	23.44	84.1	139	29.6	10.8	295	2.93	7.9	1.3	2.9	4.6	84.2	0.10	0.35	0.30	24	1.30	0.051
1098350	Soil			0.47	26.37	22.33	80.9	191	26.8	10.6	276	2.58	6.2	2.6	2.1	3.1	83.3	0.15	0.26	0.28	22	1.27	0.051
1098341	Soil			0.41	13.18	25.09	168.2	94	18.4	7.4	740	2.37	5.7	1.3	0.5	2.1	46.0	0.29	0.42	0.20	13	3.76	0.063
617853	Soil			0.44	33.34	49.43	104.6	128	31.3	17.8	1343	3.80	6.2	1.3	0.7	3.3	17.2	0.11	0.24	0.39	27	0.56	0.051
617854	Soil			0.70	34.83	49.71	93.3	55	27.4	25.5	1385	6.30	6.3	0.5	<0.2	4.6	9.2	0.05	0.25	0.45	37	0.03	0.029
617855	Soil			0.46	29.22	28.36	99.7	39	30.7	17.6	672	4.03	5.9	0.7	0.9	4.7	17.6	0.06	0.22	0.40	34	0.37	0.027
617856	Soil			0.40	10.84	14.99	32.3	37	12.4	6.0	82	3.95	2.5	0.8	0.3	4.2	4.5	0.03	0.37	0.51	50	0.03	0.012
617857	Soil			0.65	32.34	25.15	83.3	164	26.9	13.0	777	3.57	5.6	2.3	1.5	3.9	49.9	0.13	0.28	0.38	31	0.64	0.045
617858	Soil			0.69	14.21	20.88	78.8	72	17.1	10.5	498	5.16	5.0	0.6	0.6	4.4	5.9	0.12	0.24	0.52	48	0.03	0.042
617859	Soil			1.30	24.15	44.71	93.9	169	24.0	18.0	858	5.15	8.1	1.1	0.3	3.8	11.6	0.13	0.56	0.43	48	0.14	0.065
617860	Soil			0.64	25.47	49.46	85.7	96	29.0	42.6	3534	4.59	5.1	0.9	0.8	4.4	9.6	0.14	0.31	0.46	35	0.07	0.049
617861	Soil			0.57	23.27	25.59	71.5	99	22.2	15.2	5414	3.98	5.4	0.7	0.7	4.0	9.4	0.11	0.29	0.40	35	0.25	0.051
617862	Soil			0.44	27.32	24.61	84.2	89	28.8	14.0	568	3.53	4.7	1.1	0.6	4.1	32.6	0.10	0.24	0.31	25	0.37	0.039



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
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Page: 4 of 15 Part 2

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method Analyte	1F15		1F15		1F15		1F15		1F15		1F15		1F15		1F15		1F15		1F15		
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1098491	Soil	6.0	33.4	0.35	66.0	0.008	<1	1.72	0.003	0.07	<0.1	2.7	0.10	<0.02	35	0.2	<0.02	6.2	2.43	<0.1	<0.02
1098492	Soil	7.0	31.9	0.34	48.4	0.013	1	1.71	0.002	0.07	0.1	2.2	0.09	0.02	44	0.4	0.04	5.4	2.04	<0.1	<0.02
1098493	Soil	7.0	37.4	0.34	91.1	0.005	<1	2.03	0.004	0.12	<0.1	3.1	0.11	0.02	32	0.3	0.02	7.6	2.10	<0.1	0.04
1098494	Soil	7.5	40.6	0.33	141.1	0.003	<1	2.17	0.004	0.14	<0.1	3.9	0.13	0.02	28	0.3	0.04	8.3	2.39	<0.1	0.05
1098495	Soil	5.4	32.7	0.35	194.5	0.003	<1	1.88	0.004	0.15	<0.1	4.5	0.19	0.04	36	0.2	0.02	6.6	3.02	<0.1	0.04
1098496	Soil	6.8	37.3	0.62	199.2	0.008	1	1.97	0.002	0.19	<0.1	4.8	0.20	<0.02	20	<0.1	<0.02	8.2	3.77	<0.1	0.04
1098497	Soil	6.4	28.0	0.23	157.4	0.004	<1	1.71	0.002	0.16	<0.1	2.5	0.16	<0.02	30	0.1	0.02	7.7	1.33	<0.1	0.04
1098498	Soil	5.5	36.3	0.41	62.9	0.009	<1	2.09	0.001	0.11	<0.1	2.1	0.11	0.04	37	0.4	<0.02	6.5	1.65	<0.1	<0.02
1098499	Soil	6.5	40.3	0.38	192.8	0.008	1	2.23	0.002	0.15	<0.1	2.4	0.15	0.05	26	0.3	0.02	9.0	2.39	<0.1	0.03
1098500	Soil	8.5	34.9	0.47	119.9	0.010	<1	1.97	0.003	0.08	<0.1	2.9	0.11	<0.02	17	0.2	0.03	6.2	1.76	<0.1	0.04
1098342	Soil	9.8	36.7	0.46	117.4	0.007	3	1.77	0.007	0.12	<0.1	5.5	0.12	0.10	106	<0.1	0.03	5.6	2.31	<0.1	<0.02
1098343	Soil	7.0	31.5	0.47	85.4	0.006	2	1.78	0.005	0.10	<0.1	4.3	0.13	<0.02	29	0.3	0.04	6.6	3.06	<0.1	0.03
1098344	Soil	3.8	32.7	0.34	191.6	0.005	2	1.77	0.008	0.13	0.1	2.7	0.14	0.07	40	0.1	0.07	6.3	3.22	<0.1	0.03
1098345	Soil	8.7	39.5	0.73	477.2	0.005	2	1.98	0.013	0.15	<0.1	7.7	0.16	0.04	75	<0.1	0.04	7.8	3.35	<0.1	0.05
1098346	Soil	10.4	13.3	3.27	125.5	0.003	3	0.87	0.009	0.05	<0.1	2.1	0.09	0.06	206	0.2	0.05	2.1	0.41	<0.1	0.04
1098347	Soil	7.0	10.6	4.92	72.5	0.002	4	0.67	0.011	0.06	<0.1	1.7	0.14	0.07	184	0.4	0.08	1.6	0.34	<0.1	0.05
1098348	Soil	7.0	19.0	0.55	61.0	0.001	3	0.98	0.005	0.09	<0.1	3.7	0.11	0.05	108	0.4	<0.02	3.1	0.60	<0.1	0.05
1098349	Soil	10.9	28.9	0.84	95.1	0.003	4	1.59	0.007	0.15	<0.1	5.1	0.10	0.04	70	0.2	0.05	4.8	1.62	<0.1	0.11
1098350	Soil	11.0	28.3	0.78	120.0	0.002	3	1.57	0.007	0.12	<0.1	5.2	0.10	0.05	88	0.2	<0.02	4.5	2.61	<0.1	0.11
1098341	Soil	9.1	12.3	1.80	56.2	0.002	3	0.88	0.006	0.07	<0.1	2.7	0.07	0.05	84	0.2	<0.02	2.1	0.34	<0.1	0.04
617853	Soil	8.9	33.6	0.49	134.0	0.002	2	1.83	0.008	0.11	<0.1	5.5	0.12	0.04	43	<0.1	<0.02	6.4	3.07	<0.1	0.06
617854	Soil	6.0	43.6	0.45	58.8	0.002	<1	1.91	0.008	0.09	<0.1	4.1	0.12	0.02	24	<0.1	0.03	9.1	2.95	<0.1	0.06
617855	Soil	6.8	39.6	0.60	100.1	0.003	1	1.94	0.010	0.11	<0.1	4.6	0.10	0.02	22	<0.1	0.03	7.5	2.78	<0.1	0.05
617856	Soil	3.5	31.4	0.21	87.8	0.006	1	1.25	0.008	0.15	0.1	2.5	0.12	<0.02	6	<0.1	<0.02	7.3	1.95	<0.1	<0.02
617857	Soil	8.8	34.1	0.49	177.2	0.002	<1	1.76	0.009	0.13	<0.1	4.1	0.12	0.03	41	0.2	0.03	7.0	1.66	<0.1	0.07
617858	Soil	6.1	37.4	0.29	82.5	0.003	1	2.00	0.006	0.12	<0.1	2.9	0.13	<0.02	20	0.2	0.05	10.4	2.79	<0.1	0.06
617859	Soil	10.1	42.4	0.45	107.8	0.008	2	2.14	0.007	0.12	<0.1	4.0	0.16	0.03	58	0.3	<0.02	8.0	4.05	<0.1	0.05
617860	Soil	7.2	34.9	0.39	216.6	0.006	2	1.92	0.008	0.17	<0.1	4.0	0.20	0.03	71	0.1	0.02	7.4	4.27	<0.1	0.04
617861	Soil	10.1	27.0	0.23	195.5	0.002	1	1.76	0.005	0.14	<0.1	4.3	0.18	0.03	42	<0.1	0.03	7.1	2.35	<0.1	0.06
617862	Soil	7.7	30.1	0.49	91.2	0.002	1	1.71	0.008	0.12	<0.1	5.1	0.11	0.04	53	<0.1	0.02	5.5	2.11	<0.1	0.07



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 4 of 15 Part 3

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
1098491	Soil	0.49	9.7	2.1	<0.05	0.7	4.05	22.0	0.04	<1	1.0	37.2	<10	<2
1098492	Soil	0.70	9.3	1.5	<0.05	0.5	3.67	16.0	0.03	<1	0.6	26.9	<10	<2
1098493	Soil	0.63	18.6	4.4	<0.05	1.2	4.75	20.7	0.05	<1	1.1	35.0	<10	<2
1098494	Soil	0.49	20.1	2.1	<0.05	2.0	5.44	20.3	0.05	<1	1.2	36.3	<10	<2
1098495	Soil	0.28	19.6	2.3	<0.05	1.1	6.47	20.5	0.04	<1	1.9	34.0	<10	<2
1098496	Soil	0.20	23.4	1.6	<0.05	1.5	9.77	26.2	0.04	<1	2.1	35.1	<10	<2
1098497	Soil	0.50	24.2	1.5	<0.05	1.3	3.10	14.9	0.03	<1	0.8	18.5	<10	<2
1098498	Soil	0.68	13.7	2.3	<0.05	0.8	4.13	16.4	0.04	<1	0.9	28.8	<10	<2
1098499	Soil	0.63	23.3	2.9	<0.05	0.9	5.92	17.5	0.04	<1	1.3	31.9	<10	<2
1098500	Soil	0.32	10.5	1.6	<0.05	1.3	5.31	23.1	0.03	<1	1.3	31.0	<10	<2
1098342	Soil	0.38	11.4	17.9	<0.05	1.1	14.32	31.1	0.06	<1	1.6	24.8	<10	<2
1098343	Soil	0.29	14.4	1.3	<0.05	1.1	4.82	19.8	0.05	<1	1.2	31.2	<10	<2
1098344	Soil	0.52	17.3	2.9	<0.05	0.7	6.22	14.2	0.05	<1	1.9	20.8	<10	<2
1098345	Soil	0.37	16.8	3.0	<0.05	2.0	32.28	33.1	0.05	<1	2.2	34.7	<10	<2
1098346	Soil	0.17	4.7	1.9	<0.05	1.1	11.73	23.4	0.03	<1	0.4	4.1	<10	<2
1098347	Soil	0.08	3.4	1.8	<0.05	1.6	12.29	14.6	<0.02	<1	0.4	7.4	<10	<2
1098348	Soil	0.22	6.0	3.8	<0.05	2.3	9.37	17.1	0.04	<1	0.6	21.4	<10	<2
1098349	Soil	0.32	10.2	4.2	<0.05	5.4	10.11	22.8	0.03	3	0.8	44.8	<10	<2
1098350	Soil	0.36	9.8	3.4	<0.05	4.5	13.04	23.0	0.04	<1	1.1	47.4	10	<2
1098341	Soil	0.23	5.1	2.3	<0.05	1.6	8.84	23.5	0.03	<1	0.5	11.8	<10	<2
617853	Soil	0.36	14.7	2.0	<0.05	1.9	16.52	22.7	0.04	1	1.4	35.5	<10	<2
617854	Soil	0.33	14.4	2.5	<0.05	3.5	4.08	15.7	0.04	1	1.2	29.9	<10	<2
617855	Soil	0.40	13.9	2.2	<0.05	2.1	5.30	18.9	0.03	<1	1.3	39.1	<10	<2
617856	Soil	0.64	20.6	1.2	<0.05	0.9	3.48	7.6	<0.02	<1	0.5	9.1	<10	<2
617857	Soil	0.45	19.1	3.5	<0.05	2.6	10.05	16.8	0.03	<1	1.2	37.9	<10	<2
617858	Soil	0.47	24.2	1.3	<0.05	2.7	3.86	14.2	0.04	<1	0.8	31.7	<10	<2
617859	Soil	0.95	19.4	4.1	<0.05	1.6	11.45	25.2	0.04	<1	1.5	37.8	<10	<2
617860	Soil	0.40	25.8	2.4	<0.05	1.4	6.35	24.9	0.04	<1	2.1	32.9	<10	2
617861	Soil	0.31	20.6	3.1	<0.05	2.3	17.56	25.8	0.04	<1	1.2	19.3	<10	<2
617862	Soil	0.42	14.0	1.6	<0.05	2.3	10.33	20.8	0.04	<1	1.2	33.5	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 5 of 15 Part 1

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
617863	Soil			0.77	38.92	36.19	89.7	71	33.2	18.1	870	4.46	5.3	0.7	1.0	4.4	10.8	0.09	0.30	0.36	37	0.08	0.036
617864	Soil			0.64	35.45	26.75	82.9	53	32.2	17.0	824	3.95	5.5	0.9	1.0	5.0	13.6	0.15	0.37	0.30	40	0.17	0.036
617865	Soil			0.73	42.58	44.38	84.7	80	26.6	22.3	1719	4.54	5.8	0.8	0.9	3.5	20.3	0.04	0.31	0.33	34	0.20	0.037
617866	Soil			0.60	31.67	21.97	73.8	65	28.5	18.2	740	3.64	3.4	0.9	1.6	4.7	14.7	0.05	0.25	0.32	36	0.42	0.030
1098221	Soil			0.82	38.46	34.89	105.2	278	40.5	22.7	1149	4.21	12.5	0.7	2.5	5.6	43.1	0.17	0.67	0.27	29	0.70	0.052
617039	Soil			0.47	17.09	26.14	89.5	130	19.7	8.0	1742	5.02	9.8	1.7	2.9	3.7	17.5	0.19	0.35	0.28	19	1.16	0.050
1267760	Soil			0.55	13.86	20.15	80.9	87	22.2	10.9	388	3.82	5.2	0.4	<0.2	3.9	6.2	0.05	0.19	0.28	39	0.04	0.017
1266379	Soil			0.38	17.73	19.93	80.1	66	18.1	7.7	287	3.42	4.5	0.5	0.4	3.1	11.1	0.09	0.22	0.31	29	0.16	0.050
617101	Soil			0.80	18.11	39.94	73.1	225	22.9	5.5	1452	3.05	27.1	3.3	10.5	1.8	34.3	0.28	3.22	0.14	12	8.94	0.234
617102	Soil			0.77	17.01	43.66	174.0	136	21.0	7.7	2231	4.57	18.6	1.6	2.8	1.8	9.1	0.31	2.21	0.24	27	1.32	0.148
617103	Soil			0.38	8.78	14.85	29.0	75	9.3	3.8	1171	1.81	8.1	1.0	3.3	0.7	27.6	0.18	1.10	0.08	14	9.18	0.105
617104	Soil			0.73	20.61	38.56	129.4	170	21.9	9.5	9024	7.91	22.4	1.8	3.1	1.7	12.5	0.56	2.40	0.22	35	2.43	0.264
617105	Soil			0.55	16.91	22.94	68.6	111	19.9	10.9	1989	3.00	13.1	1.0	1.7	1.1	17.0	0.27	1.59	0.21	19	4.66	0.142
617106	Soil			0.68	16.63	20.68	86.2	174	18.4	7.9	1546	2.95	10.9	0.9	2.1	1.4	22.4	0.35	1.06	0.18	27	4.99	0.157
617107	Soil			0.83	22.93	17.25	43.8	34	17.2	16.6	507	2.50	9.3	0.5	<0.2	0.4	3.7	0.08	0.68	0.37	25	0.08	0.060
617108	Soil			0.59	32.40	21.47	28.6	81	27.0	29.7	352	2.74	27.4	0.8	<0.2	3.2	4.6	0.04	1.00	0.40	11	0.19	0.062
617109	Soil			1.58	38.24	23.19	28.9	68	31.7	35.3	781	3.70	9.4	1.0	<0.2	3.2	8.2	0.05	0.44	0.31	12	0.71	0.133
617110	Soil			0.70	21.21	17.87	32.7	85	20.4	11.9	500	2.61	9.6	0.7	<0.2	2.2	7.6	0.12	0.47	0.36	16	0.46	0.132
617111	Soil			0.84	34.99	57.47	124.8	54	26.5	30.1	2205	4.28	5.8	1.8	2.3	1.1	12.1	0.32	0.38	0.51	34	0.61	0.109
617112	Soil			0.86	37.81	32.81	103.0	47	35.5	25.7	1557	4.67	5.3	0.8	1.5	3.3	5.8	0.17	0.37	0.38	37	0.04	0.060
617113	Soil			0.77	45.11	75.23	94.2	38	40.9	57.8	2483	4.58	6.1	0.9	0.9	4.3	11.2	0.22	0.32	0.43	34	0.09	0.030
617114	Soil			0.65	47.64	155.4	96.5	102	41.5	77.1	5187	4.65	5.3	0.9	2.3	4.0	17.0	0.07	0.27	0.38	32	0.17	0.035
617115	Soil			0.93	67.17	55.52	89.0	98	27.1	18.7	8324	3.12	3.9	1.7	1.7	1.4	16.7	0.43	0.32	0.32	29	1.08	0.121
617116	Soil			1.24	15.89	17.68	62.9	27	17.6	9.3	323	3.39	6.2	0.6	1.0	2.1	7.7	0.13	0.44	0.33	52	0.06	0.039
617117	Soil			0.75	24.90	18.09	57.4	80	10.6	5.4	215	3.53	5.2	0.5	1.1	2.7	5.4	0.06	0.20	0.37	39	0.02	0.058
617118	Soil			0.41	36.01	27.22	90.5	25	37.7	23.1	880	5.20	5.3	0.6	<0.2	5.7	6.4	0.04	0.14	0.46	41	0.02	0.022
617119	Soil			0.57	32.16	40.70	92.0	82	30.2	24.8	1595	4.07	6.0	0.9	<0.2	3.2	7.8	0.13	0.23	0.41	34	0.07	0.071
617120	Soil			0.62	33.54	42.39	95.9	109	32.5	22.4	2165	4.02	5.7	0.9	0.3	2.2	11.7	0.42	0.16	0.38	31	0.20	0.091
617121	Soil			0.83	27.86	37.14	97.4	83	29.3	20.2	1384	3.91	5.3	0.9	0.9	4.3	5.7	0.13	0.28	0.41	32	0.04	0.054
617122	Soil			1.12	55.68	31.04	84.0	106	20.7	11.6	563	4.04	7.0	0.6	0.3	4.7	6.5	0.10	0.43	0.40	42	0.04	0.041



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 5 of 15 Part 2

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
617863	Soil	6.0	40.6	0.56	296.0	0.003	1	2.08	0.010	0.16	<0.1	4.4	0.16	0.03	23	<0.1	0.03	8.5	3.44	<0.1	0.04
617864	Soil	8.2	38.5	0.64	236.9	0.004	2	1.98	0.012	0.13	<0.1	4.5	0.13	<0.02	30	<0.1	0.04	6.7	2.63	<0.1	0.03
617865	Soil	5.2	37.0	0.50	128.5	0.006	3	1.92	0.010	0.14	<0.1	4.3	0.12	0.02	30	<0.1	0.04	7.6	3.38	0.1	0.03
617866	Soil	5.4	36.8	0.64	258.4	0.003	2	2.04	0.011	0.17	<0.1	5.0	0.15	0.02	28	<0.1	<0.02	7.7	2.84	<0.1	0.04
1098221	Soil	10.2	24.3	0.58	188.0	0.006	2	1.43	0.010	0.10	<0.1	5.6	0.11	0.03	68	0.3	0.04	4.1	1.89	<0.1	0.07
617039	Soil	10.2	18.1	0.62	128.4	<0.001	<1	1.31	0.004	0.11	<0.1	3.7	0.11	0.03	98	<0.1	0.03	3.8	0.78	<0.1	0.08
1267760	Soil	7.1	34.1	0.43	128.9	0.003	<1	2.10	0.006	0.09	<0.1	3.1	0.13	<0.02	27	0.1	<0.02	8.1	1.55	<0.1	0.04
1266379	Soil	5.9	29.7	0.34	86.1	0.002	<1	1.71	0.006	0.13	<0.1	2.8	0.15	0.02	34	<0.1	0.02	7.5	1.64	<0.1	0.05
617101	Soil	5.8	9.2	6.25	42.7	0.002	3	0.38	0.012	0.08	<0.1	1.7	0.10	0.05	353	0.7	0.04	1.1	0.28	<0.1	0.05
617102	Soil	11.4	16.8	0.65	105.3	0.004	2	1.08	0.005	0.07	<0.1	2.8	0.12	0.08	145	0.3	0.05	2.6	0.50	<0.1	0.06
617103	Soil	5.0	7.5	6.76	47.4	0.006	2	0.41	0.012	0.04	<0.1	0.9	0.09	0.04	76	0.2	<0.02	1.0	0.28	<0.1	0.02
617104	Soil	15.5	23.3	1.13	293.5	0.007	3	1.66	0.007	0.07	<0.1	2.5	0.24	0.18	261	0.7	0.11	3.7	0.75	<0.1	0.12
617105	Soil	11.0	13.4	2.70	95.2	0.004	3	0.87	0.007	0.08	<0.1	2.3	0.09	0.06	112	0.3	0.05	2.1	0.32	<0.1	0.04
617106	Soil	9.9	15.7	2.95	98.0	0.005	2	1.08	0.009	0.06	<0.1	2.1	0.09	0.07	112	0.2	<0.02	2.3	0.49	<0.1	0.03
617107	Soil	7.9	16.8	0.11	38.7	0.005	2	0.66	0.003	0.17	<0.1	1.1	0.12	0.04	91	<0.1	0.06	3.3	5.40	<0.1	<0.02
617108	Soil	6.8	10.6	0.12	54.1	0.001	3	0.62	0.003	0.20	<0.1	7.3	0.17	0.05	45	<0.1	0.03	2.3	3.53	<0.1	0.05
617109	Soil	6.3	21.3	0.15	133.5	0.002	3	0.52	0.006	0.21	<0.1	8.0	0.13	0.10	63	<0.1	0.03	1.7	3.46	<0.1	0.10
617110	Soil	5.8	15.6	0.13	105.1	0.001	3	0.89	0.004	0.18	<0.1	5.7	0.10	0.10	51	<0.1	0.03	3.0	2.73	<0.1	0.09
617111	Soil	8.8	32.1	0.39	130.2	0.003	1	1.98	0.003	0.09	<0.1	2.6	0.14	0.07	32	0.2	<0.02	6.8	2.55	<0.1	0.04
617112	Soil	5.6	41.4	0.66	106.4	0.004	<1	2.37	0.006	0.12	<0.1	4.8	0.13	0.02	19	0.2	0.03	8.0	2.06	<0.1	0.09
617113	Soil	6.7	38.1	0.67	74.7	0.004	<1	2.09	0.006	0.10	<0.1	5.3	0.25	<0.02	18	<0.1	<0.02	8.3	3.81	<0.1	0.04
617114	Soil	4.1	36.4	0.72	271.0	0.002	<1	2.24	0.004	0.11	<0.1	6.0	0.21	<0.02	54	<0.1	0.03	8.3	3.41	<0.1	0.06
617115	Soil	9.8	26.9	0.37	562.8	0.006	1	1.72	0.005	0.10	<0.1	3.3	0.13	0.11	58	0.2	0.04	4.7	2.03	<0.1	0.03
617116	Soil	10.7	34.9	0.41	83.3	0.006	<1	2.09	0.002	0.07	<0.1	2.5	0.19	<0.02	26	0.1	0.03	7.8	2.04	<0.1	0.05
617117	Soil	5.9	25.5	0.15	58.8	0.002	<1	1.54	0.005	0.08	<0.1	2.2	0.14	0.03	32	0.2	<0.02	7.9	2.21	<0.1	0.10
617118	Soil	6.3	50.5	0.69	86.0	0.004	<1	2.74	0.002	0.08	<0.1	4.5	0.13	<0.02	9	0.2	0.04	10.3	3.93	<0.1	0.05
617119	Soil	6.8	39.1	0.42	109.1	0.003	<1	1.92	0.004	0.12	<0.1	3.8	0.11	0.04	26	<0.1	0.02	7.4	2.11	<0.1	0.06
617120	Soil	6.0	40.1	0.42	147.5	0.003	<1	1.95	0.005	0.14	<0.1	3.0	0.09	0.07	75	0.3	<0.02	7.1	1.76	<0.1	0.04
617121	Soil	7.1	36.3	0.40	133.5	0.003	<1	2.03	0.002	0.15	<0.1	3.3	0.14	0.04	39	<0.1	<0.02	7.0	2.00	<0.1	0.13
617122	Soil	8.0	32.3	0.37	67.8	0.004	<1	1.89	0.002	0.11	<0.1	2.2	0.13	0.02	40	0.2	0.03	7.4	2.32	<0.1	0.08



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: November 01, 2011

Page: 5 of 15 Part 3

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
617863	Soil	0.61	22.4	6.0	<0.05	1.9	8.39	15.2	0.05	<1	1.4	39.6	<10	<2
617864	Soil	0.72	17.1	2.0	<0.05	1.5	7.65	19.6	0.04	<1	2.0	37.9	<10	<2
617865	Soil	0.36	17.5	6.7	<0.05	1.0	6.40	12.6	0.04	2	1.2	31.0	<10	<2
617866	Soil	0.60	21.3	2.0	<0.05	1.7	7.89	13.1	0.03	<1	1.4	33.4	<10	<2
1098221	Soil	0.41	8.6	2.1	<0.05	3.6	15.32	23.4	0.03	<1	1.0	32.7	<10	<2
617039	Soil	0.20	11.1	0.9	<0.05	2.1	10.27	23.1	0.02	<1	0.8	16.7	<10	<2
1267760	Soil	0.45	18.4	1.4	<0.05	1.8	2.98	16.1	0.03	<1	0.9	38.1	<10	<2
1266379	Soil	0.62	21.0	1.6	<0.05	1.5	3.39	14.2	0.02	<1	0.6	21.9	<10	<2
617101	Soil	0.08	3.3	0.3	<0.05	1.8	14.87	13.7	<0.02	2	0.3	2.6	<10	<2
617102	Soil	0.22	6.2	0.5	<0.05	1.8	15.15	21.7	0.04	<1	0.8	5.2	<10	<2
617103	Soil	0.11	2.6	0.6	<0.05	0.7	6.43	10.5	<0.02	<1	0.4	3.9	<10	<2
617104	Soil	0.30	8.1	0.5	<0.05	3.0	24.01	30.6	0.03	<1	1.3	7.2	<10	<2
617105	Soil	0.19	4.7	0.6	<0.05	1.1	12.82	22.8	<0.02	<1	0.5	7.2	<10	<2
617106	Soil	0.27	5.8	0.7	<0.05	1.7	11.56	19.6	0.03	<1	0.7	9.0	<10	<2
617107	Soil	0.25	15.6	2.0	<0.05	0.5	2.41	22.0	0.03	<1	0.6	2.8	<10	<2
617108	Soil	0.10	12.8	2.8	<0.05	1.5	11.89	26.5	0.04	1	1.6	2.4	<10	<2
617109	Soil	0.16	10.6	10.5	<0.05	2.7	25.30	29.9	0.06	2	2.3	2.0	<10	<2
617110	Soil	0.22	13.6	3.1	<0.05	2.3	11.43	12.5	0.04	1	1.3	2.5	<10	<2
617111	Soil	0.27	13.7	2.0	<0.05	1.4	12.34	21.7	0.07	<1	1.6	28.4	<10	<2
617112	Soil	0.36	13.8	1.6	<0.05	2.8	7.20	16.5	0.04	<1	1.4	37.3	<10	<2
617113	Soil	0.13	12.6	1.5	<0.05	2.5	10.21	36.9	0.04	<1	1.9	41.4	<10	<2
617114	Soil	0.06	12.4	1.1	<0.05	2.7	14.51	24.2	0.05	<1	1.7	47.9	<10	<2
617115	Soil	0.32	9.5	3.8	<0.05	1.3	24.49	29.6	0.02	<1	2.3	20.7	<10	<2
617116	Soil	0.77	14.9	1.0	<0.05	1.4	4.73	25.6	0.03	<1	0.9	24.2	<10	<2
617117	Soil	0.40	16.8	1.7	<0.05	2.3	4.29	14.0	0.04	<1	0.8	10.0	<10	<2
617118	Soil	0.22	14.7	1.3	<0.05	3.2	5.26	18.4	0.04	<1	1.5	53.0	<10	<2
617119	Soil	0.38	13.7	1.9	<0.05	1.9	7.15	22.1	0.04	<1	1.8	30.2	<10	<2
617120	Soil	0.42	10.8	3.0	<0.05	1.2	6.11	18.0	0.05	<1	1.4	30.1	<10	<2
617121	Soil	0.51	17.8	4.0	<0.05	3.3	7.26	18.5	0.03	<1	1.7	30.3	<10	<2
617122	Soil	0.77	15.2	2.4	<0.05	3.1	3.18	19.3	0.04	<1	0.7	24.1	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: November 01, 2011

Page: 6 of 15 Part 1

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
617123	Soil	1.02	19.56	29.35	123.6	61	19.3	15.6	1193	5.47	7.1	0.5	<0.2	3.7	5.0	0.12	0.37	0.45	49	0.04	0.066
617124	Soil	0.92	74.94	90.82	124.5	280	36.9	18.2	780	10.78	14.4	1.0	<0.2	9.0	8.9	0.18	0.45	0.49	18	0.07	0.090
617125	Soil	0.70	74.48	67.70	84.0	140	15.8	8.6	396	12.49	14.7	0.5	0.4	9.7	1.4	0.04	0.43	0.44	24	<0.01	0.069
617126	Soil	1.12	58.10	70.21	211.5	331	74.4	29.6	1066	7.67	12.3	4.7	0.8	12.0	50.7	0.31	0.38	0.47	19	0.42	0.096
617127	Soil	0.71	39.51	45.47	166.7	279	51.6	23.3	847	5.05	8.9	1.5	0.5	6.8	36.0	0.18	0.26	0.35	15	0.30	0.060
617128	Soil	0.38	23.87	31.15	104.4	136	31.8	12.3	767	3.65	12.2	0.8	2.7	3.8	27.9	0.14	0.74	0.29	11	2.82	0.065
617129	Soil	0.68	18.26	39.06	188.4	119	23.4	7.4	1207	4.44	19.9	1.6	2.7	1.5	11.1	0.37	1.89	0.30	25	1.03	0.135
617130	Soil	0.52	10.84	17.42	74.7	109	9.9	4.7	4154	4.63	15.9	2.0	1.9	0.4	19.4	0.34	1.84	0.09	17	11.95	0.177
617131	Soil	0.82	18.11	22.77	128.9	165	19.6	7.2	1438	3.59	11.9	1.1	1.2	0.6	15.6	0.38	1.15	0.20	30	4.05	0.183
617132	Soil	0.74	12.63	17.33	59.8	140	15.5	6.5	1807	2.39	11.0	1.4	2.0	0.8	36.7	0.37	1.22	0.12	25	10.98	0.151
617133	Soil	0.40	14.54	40.34	31.0	239	13.1	6.0	792	2.15	23.7	1.0	10.3	1.9	51.4	0.11	3.56	0.14	11	11.33	0.118
617134	Soil	0.84	19.07	16.21	56.3	47	15.7	16.0	1697	2.56	12.5	0.5	0.5	0.4	5.5	0.27	0.73	0.34	31	0.27	0.052
617135	Soil	0.48	38.60	14.33	54.4	30	32.9	20.1	805	2.98	6.1	0.9	0.6	2.1	8.2	0.08	0.44	0.46	20	0.34	0.067
617136	Soil	0.69	11.98	19.25	120.4	53	14.7	9.8	2817	3.24	3.7	1.6	0.3	0.8	16.9	0.26	0.31	0.30	27	0.79	0.093
617137	Soil	1.01	38.61	76.96	92.4	55	30.8	53.0	2434	4.27	6.0	0.9	0.7	4.4	11.0	0.07	0.45	0.34	38	0.12	0.047
617138	Soil	1.05	23.15	37.15	79.7	136	27.0	16.4	1465	4.14	7.1	0.8	1.5	1.4	7.8	0.25	0.59	0.32	40	0.08	0.062
617139	Soil	0.71	37.24	40.72	108.6	25	37.3	29.8	1258	4.95	6.3	0.5	0.3	3.5	5.8	0.10	0.25	0.39	37	0.02	0.038
617140	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
617141	Soil	0.94	23.04	35.79	94.3	213	21.4	31.4	4052	3.57	2.2	0.7	0.6	0.6	10.6	0.47	0.29	0.42	40	0.18	0.090
617142	Soil	1.35	51.21	110.3	163.3	59	67.1	88.1	2887	4.87	12.3	1.0	1.4	5.9	8.2	0.06	0.37	0.49	30	0.08	0.039
617143	Soil	0.80	26.69	28.23	100.3	124	21.6	21.2	1724	3.70	5.2	0.5	0.3	2.4	6.8	0.24	0.26	0.38	39	0.06	0.063
617144	Soil	0.97	29.57	39.41	104.5	55	24.1	25.5	1581	4.74	7.5	0.7	0.4	4.5	8.5	0.11	0.36	0.37	49	0.05	0.056
617145	Soil	0.78	35.22	46.94	96.9	84	28.7	26.7	2148	4.78	6.4	0.9	0.8	4.5	7.7	0.15	0.20	0.41	37	0.05	0.064
617146	Soil	0.58	34.38	37.59	94.5	63	35.5	22.7	969	4.49	5.9	0.8	0.6	4.7	11.2	0.05	0.17	0.39	35	0.08	0.037
617147	Soil	0.83	17.45	26.31	151.0	162	17.9	11.2	647	3.57	5.7	0.4	0.6	0.7	6.8	0.30	0.36	0.40	30	0.06	0.080
617148	Soil	0.77	22.90	29.95	132.9	120	24.5	19.6	1094	4.77	4.5	0.6	0.7	3.9	5.7	0.16	0.32	0.46	35	0.03	0.076
617149	Soil	0.55	17.09	18.27	96.0	152	19.1	14.0	629	3.91	3.6	0.4	0.4	2.5	5.3	0.09	0.22	0.35	32	0.05	0.059
617150	Soil	0.62	10.36	23.13	37.6	63	10.0	5.5	673	1.42	16.7	0.7	1.9	0.5	28.5	0.14	1.27	0.12	8	10.21	0.113
617551	Soil	0.76	15.61	16.86	50.9	118	16.5	7.8	2035	2.05	6.2	0.6	0.8	0.4	27.4	0.28	0.68	0.17	12	6.34	0.119
617552	Soil	0.75	9.24	18.84	31.9	67	8.1	4.5	2771	2.13	4.7	0.9	0.7	0.2	23.9	0.32	0.60	0.09	5	10.75	0.160



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 6 of 15 Part 2

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
617123	Soil	5.5	40.2	0.29	80.7	0.003	<1	2.03	0.004	0.10	<0.1	2.5	0.11	0.03	53	0.1	0.07	9.3	2.44	<0.1	0.08
617124	Soil	5.6	29.3	0.05	90.5	<0.001	1	1.19	0.002	0.09	<0.1	4.3	0.44	0.04	34	0.6	0.05	3.6	3.32	<0.1	0.08
617125	Soil	4.0	39.9	0.05	33.7	0.002	1	0.97	0.002	0.09	<0.1	3.6	0.37	0.14	10	0.7	0.08	4.7	3.52	<0.1	0.08
617126	Soil	8.4	22.5	0.23	204.9	0.002	3	1.56	0.010	0.16	<0.1	7.8	0.35	0.09	57	0.6	0.07	3.4	3.79	<0.1	0.18
617127	Soil	9.2	16.7	0.22	154.3	0.001	1	1.12	0.005	0.12	<0.1	5.4	0.21	0.05	22	0.5	0.03	2.9	2.16	<0.1	0.06
617128	Soil	6.7	11.8	1.54	85.6	0.001	1	0.70	0.004	0.11	<0.1	3.7	0.15	0.04	111	0.3	<0.02	1.9	1.24	<0.1	0.07
617129	Soil	7.4	18.8	0.29	126.7	0.002	1	1.05	0.002	0.07	<0.1	2.8	0.20	0.10	177	0.5	0.03	2.9	0.55	<0.1	0.06
617130	Soil	7.8	10.1	6.04	138.1	0.003	3	0.65	0.010	0.04	<0.1	0.8	0.20	0.07	108	0.4	<0.02	1.5	0.44	<0.1	0.03
617131	Soil	11.4	18.6	2.02	117.6	0.004	3	1.20	0.007	0.07	<0.1	1.4	0.13	0.13	109	0.3	0.04	2.8	0.89	<0.1	0.03
617132	Soil	8.8	14.0	5.89	78.3	0.008	2	0.79	0.010	0.05	0.1	1.4	0.13	0.02	108	0.3	0.03	1.8	0.58	<0.1	<0.02
617133	Soil	6.3	9.6	5.95	57.5	0.001	2	0.36	0.008	0.06	0.3	1.8	0.09	<0.02	254	0.2	<0.02	1.1	0.18	<0.1	0.06
617134	Soil	6.8	12.9	0.13	153.7	0.004	<1	0.60	0.002	0.11	<0.1	1.0	0.13	0.03	48	<0.1	0.04	3.1	1.76	<0.1	<0.02
617135	Soil	8.1	16.7	0.16	80.0	0.002	2	0.88	0.002	0.24	<0.1	3.5	0.13	0.05	17	<0.1	0.09	3.3	1.40	<0.1	0.04
617136	Soil	10.3	13.6	0.18	153.1	0.005	<1	0.96	0.002	0.10	<0.1	2.0	0.07	0.07	35	<0.1	0.07	3.4	1.66	<0.1	<0.02
617137	Soil	10.2	33.4	0.47	91.0	0.006	<1	1.79	0.005	0.12	<0.1	5.6	0.20	<0.02	46	0.1	0.03	7.0	4.25	<0.1	<0.02
617138	Soil	9.7	31.9	0.45	96.4	0.014	1	1.69	0.003	0.12	0.1	2.2	0.11	0.04	51	0.2	0.02	5.1	1.52	<0.1	<0.02
617139	Soil	5.1	42.4	0.68	47.2	0.002	<1	2.54	0.003	0.08	<0.1	3.9	0.11	<0.02	22	0.1	0.02	9.1	2.32	<0.1	0.09
617140	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
617141	Soil	3.5	36.2	0.36	409.6	0.009	<1	1.50	0.008	0.21	<0.1	1.6	0.20	0.09	65	<0.1	0.03	7.3	2.11	<0.1	<0.02
617142	Soil	7.1	38.1	0.55	119.5	0.002	<1	1.95	0.003	0.09	<0.1	5.3	0.26	<0.02	27	0.1	<0.02	6.1	2.98	<0.1	0.04
617143	Soil	6.4	31.8	0.28	123.4	0.004	<1	1.64	0.007	0.14	<0.1	2.3	0.11	0.04	50	<0.1	0.03	8.0	2.36	<0.1	0.04
617144	Soil	8.1	39.1	0.39	111.6	0.005	<1	2.02	0.008	0.13	<0.1	4.1	0.14	<0.02	31	0.2	0.05	8.6	4.36	<0.1	0.05
617145	Soil	7.2	45.0	0.38	117.1	0.002	<1	2.15	0.005	0.11	<0.1	4.4	0.13	0.04	62	0.1	0.05	7.7	2.50	<0.1	0.09
617146	Soil	8.5	41.1	0.58	107.0	0.002	<1	2.13	0.005	0.10	<0.1	4.1	0.10	<0.02	9	<0.1	<0.02	8.0	2.21	<0.1	0.05
617147	Soil	5.7	26.8	0.29	115.2	0.006	2	1.35	0.002	0.14	<0.1	1.3	0.07	0.03	33	0.4	<0.02	5.9	0.98	<0.1	<0.02
617148	Soil	6.1	39.1	0.38	100.7	0.006	3	2.41	<0.001	0.16	<0.1	2.9	0.12	0.03	35	0.6	<0.02	7.6	2.20	<0.1	0.08
617149	Soil	3.6	29.2	0.29	183.3	0.003	1	1.87	0.002	0.18	<0.1	2.4	0.12	0.02	29	0.3	<0.02	8.0	1.34	<0.1	0.05
617150	Soil	4.2	7.5	4.95	41.1	0.003	5	0.38	0.008	0.05	<0.1	0.9	0.07	0.04	107	0.4	<0.02	1.0	0.34	<0.1	0.04
617551	Soil	7.0	11.7	2.98	103.6	0.007	6	0.75	0.007	0.07	<0.1	0.9	0.10	0.07	68	0.6	<0.02	1.9	0.83	<0.1	0.03
617552	Soil	5.3	8.3	5.02	114.5	0.004	8	0.41	0.009	0.05	<0.1	0.5	0.06	0.09	67	0.5	0.02	1.1	0.44	<0.1	0.02



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 6 of 15 Part 3

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
617123	Soil	0.89	16.6	4.1	<0.05	2.9	3.09	13.2	0.03	<1	1.0	35.8	<10	<2
617124	Soil	0.02	7.5	1.5	<0.05	6.2	7.33	17.3	0.09	<1	0.9	8.7	<10	<2
617125	Soil	0.03	8.2	0.9	<0.05	6.3	3.11	11.0	0.09	<1	0.5	4.5	<10	<2
617126	Soil	0.05	12.6	1.5	<0.05	8.6	18.65	29.3	0.09	<1	1.8	30.6	<10	<2
617127	Soil	0.06	9.6	0.8	<0.05	3.1	15.36	27.4	0.05	<1	1.4	23.8	<10	<2
617128	Soil	0.10	6.6	0.6	<0.05	2.7	11.34	20.6	0.04	<1	0.9	13.9	<10	<2
617129	Soil	0.24	6.6	0.8	<0.05	1.8	12.95	12.3	0.02	<1	0.8	6.2	<10	<2
617130	Soil	0.08	3.9	0.4	<0.05	0.7	12.08	15.2	<0.02	<1	0.4	3.4	<10	<2
617131	Soil	0.26	7.2	0.6	<0.05	0.8	14.03	23.0	<0.02	<1	0.7	10.6	<10	<2
617132	Soil	0.20	5.3	0.4	<0.05	0.7	9.07	17.8	<0.02	<1	0.5	6.2	<10	<2
617133	Soil	0.08	2.3	2.2	<0.05	1.9	9.54	15.0	<0.02	<1	0.4	2.4	<10	<2
617134	Soil	0.11	11.1	0.9	<0.05	<0.1	4.44	16.7	<0.02	<1	0.5	3.0	<10	<2
617135	Soil	0.16	13.7	0.9	<0.05	0.9	3.51	25.5	0.03	<1	1.1	4.4	<10	<2
617136	Soil	0.23	10.5	2.1	<0.05	0.3	8.32	28.5	0.04	<1	0.7	5.2	<10	<2
617137	Soil	0.30	15.8	1.8	<0.05	1.2	11.88	34.2	0.05	<1	2.1	30.3	<10	<2
617138	Soil	0.66	10.9	1.5	<0.05	0.2	4.09	32.2	0.04	<1	1.0	21.4	<10	<2
617139	Soil	0.24	11.7	1.2	<0.05	2.7	5.84	15.3	0.04	<1	1.2	45.9	<10	<2
617140	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
617141	Soil	0.49	27.6	1.6	<0.05	0.5	4.04	10.3	0.03	<1	0.6	12.1	<10	<2
617142	Soil	0.16	11.2	8.2	<0.05	1.5	8.51	32.8	0.05	<1	2.5	34.4	<10	<2
617143	Soil	0.60	20.6	2.0	<0.05	1.3	3.55	16.4	0.04	<1	1.1	21.2	<10	<2
617144	Soil	0.40	20.9	1.4	<0.05	1.8	5.11	21.3	0.03	<1	1.4	31.3	<10	<2
617145	Soil	0.38	15.6	1.9	<0.05	3.0	6.73	22.6	0.05	<1	1.6	32.0	<10	<2
617146	Soil	0.24	11.8	2.3	<0.05	2.3	6.65	23.5	0.04	<1	1.3	38.4	<10	<2
617147	Soil	0.51	13.5	1.3	<0.05	0.2	2.64	11.5	0.02	<1	0.8	18.8	<10	<2
617148	Soil	0.51	18.9	2.3	<0.05	1.9	3.73	14.6	0.04	<1	1.4	39.2	<10	<2
617149	Soil	0.59	21.8	1.5	<0.05	1.5	2.22	7.9	0.02	<1	0.8	36.1	<10	<2
617150	Soil	0.16	3.0	4.7	<0.05	0.8	5.14	8.5	<0.02	<1	0.4	3.4	<10	<2
617551	Soil	0.24	5.9	1.3	<0.05	0.7	8.08	14.8	<0.02	<1	0.7	7.1	<10	<2
617552	Soil	0.14	4.4	5.9	<0.05	0.4	6.43	10.5	<0.02	<1	0.4	2.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 7 of 15 Part 1

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
617553	Soil			0.57	14.64	21.28	142.3	71	12.0	4.3	602	2.42	6.7	0.9	0.7	0.5	20.3	0.20	0.70	0.17	13	6.55	0.136
617554	Soil			0.75	32.90	36.36	89.7	59	25.3	34.0	1436	4.20	5.2	0.6	11.8	3.3	5.6	0.11	0.33	0.39	33	0.06	0.059
617555	Soil			0.89	23.50	19.52	56.0	42	20.1	9.7	413	3.52	7.0	0.6	0.4	3.5	4.2	0.05	0.56	0.29	37	0.04	0.032
617556	Soil			0.81	39.60	37.51	83.6	98	33.2	27.4	2825	4.09	5.2	0.8	0.6	4.6	7.2	0.03	0.40	0.39	39	0.07	0.051
617557	Soil			0.51	27.18	19.83	99.9	122	37.4	21.9	699	4.46	2.9	0.7	0.2	4.7	5.5	0.04	0.26	0.35	41	0.05	0.036
617558	Soil			0.68	38.38	27.94	87.4	117	29.8	14.2	367	2.88	5.8	2.5	2.1	2.1	125.6	0.08	0.39	0.33	21	1.22	0.080
617559	Soil			0.51	36.36	24.84	64.5	166	20.9	9.1	335	3.71	5.1	0.6	0.6	2.6	23.8	0.04	0.17	0.36	27	0.05	0.061
617560	Soil			0.72	27.82	46.21	117.8	45	34.5	23.0	1172	4.04	6.0	0.5	0.8	4.5	5.4	0.05	0.33	0.38	26	0.02	0.036
617561	Soil			0.69	19.70	26.95	108.2	124	20.1	12.4	525	3.52	4.7	0.4	<0.2	3.7	5.7	0.09	0.27	0.41	39	0.03	0.053
617562	Soil			0.74	24.10	27.11	81.7	128	16.5	13.5	715	3.21	4.0	0.4	0.3	2.5	6.8	0.11	0.23	0.33	36	0.03	0.058
617563	Soil			0.72	27.57	26.18	111.2	277	20.8	15.2	975	4.56	5.4	0.4	0.3	3.2	5.4	0.10	0.29	0.40	34	0.03	0.062
617564	Soil			0.57	18.78	35.23	83.0	118	20.3	19.5	1463	3.05	4.9	0.5	0.6	2.9	10.5	0.07	0.22	0.31	26	0.07	0.042
617565	Soil			0.55	24.48	47.57	89.7	130	26.4	30.7	1528	3.60	6.4	0.7	1.6	4.2	13.4	0.01	0.22	0.41	27	0.08	0.041
617566	Soil			0.38	29.24	30.28	120.6	190	40.4	17.6	648	3.44	5.5	0.6	0.5	5.4	29.9	0.09	0.21	0.33	8	0.20	0.035
617567	Soil			0.64	35.55	45.84	137.5	168	39.5	22.3	769	5.00	7.1	0.7	0.7	3.4	7.8	0.11	0.34	0.40	13	0.04	0.076
617568	Soil			0.85	30.86	38.85	153.4	88	42.1	21.2	698	4.15	8.2	1.3	0.5	2.6	16.5	0.07	0.34	0.40	15	0.09	0.076
617569	Soil			1.20	41.03	44.12	246.6	205	91.3	32.1	1254	5.56	10.3	0.7	1.2	8.1	168.1	0.25	0.38	0.46	12	2.26	0.052
617570	Soil			0.61	34.05	37.47	142.2	208	45.0	18.6	637	4.13	8.1	1.1	0.7	4.4	47.1	0.15	0.31	0.42	13	0.46	0.078
617571	Soil			0.95	17.58	33.08	104.2	156	22.5	9.3	1357	5.03	16.9	1.2	1.8	2.0	10.4	0.16	1.00	0.31	32	0.57	0.147
617572	Soil			0.33	8.37	12.54	130.5	74	14.2	6.5	1648	2.42	11.9	1.3	1.1	0.5	26.8	0.16	2.18	0.09	6	15.05	0.074
617573	Soil			0.85	17.48	26.30	128.1	165	22.1	9.9	1891	3.58	13.8	1.2	3.1	0.9	19.2	0.35	1.25	0.21	27	4.50	0.151
617574	Soil			0.50	11.10	19.25	50.2	85	13.6	6.5	4562	4.88	20.3	2.0	0.9	0.5	22.1	0.33	1.68	0.15	9	9.98	0.202
617575	Soil			0.46	9.17	20.46	48.3	75	9.8	4.1	2443	2.42	9.9	1.9	0.7	0.3	28.6	0.19	1.39	0.08	7	14.42	0.291
617576	Soil			0.60	9.30	27.56	124.6	89	9.8	4.5	3050	3.53	15.3	2.4	2.3	0.3	43.9	0.31	2.29	0.08	6	16.62	0.273
617577	Soil			0.81	14.18	16.92	46.3	114	15.0	7.2	1062	3.09	6.9	0.8	0.3	0.8	12.3	0.14	0.75	0.24	23	1.45	0.157
617578	Soil			0.57	22.29	19.81	48.1	73	26.9	14.4	796	3.40	6.1	0.7	0.7	3.3	9.0	0.07	0.45	0.30	23	0.17	0.054
617579	Soil			0.44	23.19	27.16	102.1	115	23.4	10.2	593	2.83	10.2	0.9	1.3	2.2	18.7	0.13	0.78	0.27	13	5.20	0.075
617580	Soil			0.84	32.42	26.85	88.8	103	37.5	22.9	939	3.86	8.8	0.7	3.0	4.6	13.6	0.12	0.85	0.30	36	0.14	0.033
617581	Soil			0.71	45.43	35.05	91.5	100	31.7	29.9	4516	4.60	4.6	0.9	0.5	5.0	7.2	0.10	0.35	0.38	35	0.16	0.089
617582	Soil			0.93	37.66	34.88	84.8	101	36.1	27.6	1894	4.37	6.1	0.8	0.7	3.9	6.4	0.04	0.45	0.37	43	0.06	0.049



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 7 of 15 Part 2

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
617553	Soil	6.5	10.4	3.04	50.5	0.008	5	0.80	0.009	0.05	<0.1	1.2	0.08	0.10	65	0.5	<0.02	2.0	0.67	<0.1	0.05
617554	Soil	5.4	35.7	0.45	117.7	0.006	1	2.02	0.004	0.14	<0.1	4.3	0.13	<0.02	31	0.3	<0.02	8.3	3.21	<0.1	0.05
617555	Soil	6.7	27.1	0.32	72.3	0.007	2	1.68	0.001	0.08	<0.1	2.6	0.12	<0.02	40	0.4	<0.02	6.3	1.97	<0.1	0.05
617556	Soil	3.3	37.0	0.58	153.8	0.011	3	2.11	0.005	0.19	0.1	4.3	0.17	0.02	28	0.4	0.05	6.3	3.86	<0.1	0.06
617557	Soil	3.4	42.9	0.62	215.2	0.010	2	2.36	0.003	0.28	<0.1	4.0	0.21	<0.02	17	0.3	0.02	9.2	2.98	<0.1	0.05
617558	Soil	7.0	31.8	0.51	131.2	0.004	4	1.56	0.007	0.09	<0.1	3.6	0.09	0.14	59	1.3	<0.02	5.4	1.51	<0.1	0.08
617559	Soil	4.7	33.0	0.31	141.8	0.002	<1	1.73	0.007	0.09	<0.1	3.1	0.10	0.06	36	0.4	<0.02	7.3	1.38	<0.1	0.05
617560	Soil	6.4	38.4	0.53	76.8	0.005	2	2.20	0.002	0.10	<0.1	3.4	0.11	<0.02	41	0.4	<0.02	7.0	2.74	<0.1	0.07
617561	Soil	8.2	31.9	0.27	107.5	0.003	1	2.18	0.002	0.15	<0.1	2.7	0.13	<0.02	28	0.4	0.03	8.5	1.64	<0.1	0.07
617562	Soil	7.5	27.4	0.17	155.2	0.003	1	1.74	0.002	0.12	<0.1	2.1	0.10	<0.02	29	0.4	<0.02	7.9	0.97	<0.1	0.04
617563	Soil	6.6	29.2	0.30	121.3	0.003	1	2.33	<0.001	0.16	<0.1	2.6	0.14	0.02	43	0.4	<0.02	8.0	2.06	<0.1	0.07
617564	Soil	7.5	22.3	0.26	156.6	0.002	<1	1.70	0.001	0.16	<0.1	2.7	0.11	<0.02	22	0.2	<0.02	6.1	1.52	<0.1	0.04
617565	Soil	7.5	32.2	0.41	103.4	0.004	1	1.95	0.003	0.14	<0.1	4.3	0.13	<0.02	23	0.4	<0.02	7.2	2.75	<0.1	0.04
617566	Soil	9.3	12.0	0.25	128.5	0.002	3	0.87	0.002	0.09	<0.1	5.3	0.16	<0.02	34	0.5	<0.02	2.2	2.15	<0.1	0.06
617567	Soil	6.7	16.6	0.20	100.1	0.002	3	1.45	0.001	0.10	<0.1	3.7	0.18	0.03	30	0.6	<0.02	3.2	3.33	<0.1	0.09
617568	Soil	6.7	15.4	0.19	133.8	0.003	3	1.25	0.004	0.12	<0.1	3.3	0.17	0.05	34	0.6	<0.02	3.2	3.70	<0.1	0.04
617569	Soil	8.0	18.2	0.35	138.8	0.003	5	1.04	0.005	0.13	<0.1	7.0	0.30	0.04	76	0.6	<0.02	3.1	2.59	<0.1	0.12
617570	Soil	11.7	15.8	0.23	139.4	0.002	4	1.04	0.004	0.13	<0.1	4.9	0.18	0.04	46	0.6	0.03	2.7	2.38	<0.1	0.08
617571	Soil	10.4	23.0	0.30	142.7	0.006	2	1.52	0.004	0.08	0.1	3.0	0.13	0.06	95	0.5	<0.02	4.0	1.30	<0.1	0.06
617572	Soil	3.8	7.3	7.21	65.0	0.003	3	0.49	0.009	0.03	<0.1	1.0	0.13	<0.02	61	0.5	<0.02	1.1	0.52	<0.1	0.03
617573	Soil	10.7	19.1	2.27	117.6	0.008	4	1.32	0.008	0.07	<0.1	1.8	0.12	0.08	149	0.6	<0.02	3.0	0.85	<0.1	0.06
617574	Soil	8.9	11.4	4.83	144.4	0.006	4	0.93	0.009	0.06	<0.1	1.3	0.14	0.06	112	0.5	0.04	2.0	0.74	<0.1	0.04
617575	Soil	5.1	8.2	6.63	91.7	0.005	7	0.46	0.013	0.06	<0.1	0.6	0.09	0.04	71	0.6	0.03	1.1	0.35	<0.1	<0.02
617576	Soil	7.0	8.2	7.42	91.9	0.005	6	0.47	0.014	0.06	<0.1	0.6	0.10	<0.02	67	0.7	0.04	1.2	0.33	<0.1	0.03
617577	Soil	8.4	18.1	0.58	134.8	0.009	4	1.29	0.006	0.13	<0.1	1.8	0.09	0.10	57	0.4	<0.02	3.4	1.04	<0.1	0.04
617578	Soil	10.2	22.1	0.33	104.1	0.006	4	1.57	0.002	0.19	<0.1	3.5	0.10	0.02	23	0.3	0.02	3.8	1.48	<0.1	0.05
617579	Soil	7.8	13.7	2.67	80.8	0.004	4	0.85	0.005	0.12	<0.1	3.1	0.11	0.02	84	0.4	0.02	2.4	1.55	<0.1	0.07
617580	Soil	9.6	31.9	0.54	121.3	0.013	2	1.82	0.005	0.10	<0.1	3.6	0.13	<0.02	72	0.3	<0.02	5.6	2.67	<0.1	0.03
617581	Soil	8.1	31.8	0.48	431.3	0.009	3	2.47	0.003	0.14	<0.1	6.7	0.13	0.03	43	0.4	0.02	7.3	3.79	<0.1	0.06
617582	Soil	4.1	38.1	0.57	159.2	0.011	2	2.17	0.003	0.18	0.2	3.5	0.17	0.02	26	0.3	0.06	7.1	4.00	<0.1	0.03



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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Page: 7 of 15 Part 3

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
617553	Soil	0.41	5.4	1.1	<0.05	1.5	7.74	10.3	<0.02	<1	0.7	5.3	<10	<2
617554	Soil	0.42	19.8	2.6	<0.05	1.6	4.94	13.8	0.03	<1	1.4	28.1	<10	<2
617555	Soil	0.84	16.9	1.4	<0.05	1.5	2.74	15.7	0.03	<1	0.8	20.3	<10	<2
617556	Soil	0.52	24.1	1.1	<0.05	1.3	5.68	12.4	0.05	<1	2.4	24.6	<10	<2
617557	Soil	0.79	32.7	1.4	<0.05	1.8	3.63	7.7	0.03	<1	1.3	30.7	<10	<2
617558	Soil	0.48	12.8	3.7	<0.05	2.2	11.40	14.5	0.02	<1	1.2	29.7	<10	<2
617559	Soil	0.41	15.2	1.1	<0.05	1.3	4.45	12.3	0.04	<1	1.1	18.5	<10	<2
617560	Soil	0.36	15.0	6.0	<0.05	2.1	4.56	16.6	0.03	<1	1.5	33.7	<10	<2
617561	Soil	0.55	25.1	1.8	<0.05	2.4	3.09	16.1	0.03	<1	0.8	30.7	<10	3
617562	Soil	0.63	19.1	3.3	<0.05	1.5	2.47	14.8	0.02	<1	0.6	13.5	<10	<2
617563	Soil	0.66	21.9	1.4	<0.05	2.4	2.88	13.6	0.04	<1	1.5	35.2	<10	<2
617564	Soil	0.30	20.6	1.3	<0.05	1.4	5.90	19.0	0.02	<1	1.2	22.2	<10	2
617565	Soil	0.26	18.3	1.9	<0.05	1.3	7.84	24.0	0.03	<1	1.7	31.5	<10	<2
617566	Soil	0.06	7.2	0.6	<0.05	3.4	14.48	24.9	0.04	<1	0.8	23.4	<10	<2
617567	Soil	0.13	10.8	0.7	<0.05	2.7	9.13	20.1	0.05	<1	1.5	32.3	<10	<2
617568	Soil	0.20	12.8	1.1	<0.05	1.3	8.31	20.1	0.06	<1	1.2	26.9	<10	<2
617569	Soil	0.08	10.5	1.7	<0.05	6.2	17.67	25.5	0.04	<1	1.3	42.1	<10	<2
617570	Soil	0.13	11.7	0.7	<0.05	2.3	15.59	30.2	0.05	<1	1.4	24.8	<10	<2
617571	Soil	0.33	11.8	1.1	<0.05	1.7	10.74	23.1	0.04	<1	0.9	14.1	<10	<2
617572	Soil	0.09	4.1	0.9	<0.05	0.8	7.36	7.9	<0.02	<1	0.5	4.7	<10	<2
617573	Soil	0.28	7.9	0.6	<0.05	1.3	12.06	20.3	0.02	<1	0.6	10.6	<10	<2
617574	Soil	0.13	6.8	0.7	<0.05	0.8	10.76	13.9	<0.02	<1	0.7	3.7	<10	<2
617575	Soil	0.10	4.1	0.7	<0.05	0.5	9.02	10.5	<0.02	<1	0.3	2.4	<10	<2
617576	Soil	0.09	3.4	0.7	<0.05	0.7	10.85	13.9	<0.02	<1	0.4	2.5	<10	<2
617577	Soil	0.38	14.6	0.9	<0.05	0.8	7.29	14.4	0.02	<1	0.8	7.8	<10	<2
617578	Soil	0.33	14.7	1.5	<0.05	0.9	7.03	38.5	0.03	<1	1.0	20.2	<10	<2
617579	Soil	0.15	9.2	0.7	<0.05	1.6	9.94	17.5	0.02	<1	0.9	11.1	<10	<2
617580	Soil	0.49	14.9	1.1	<0.05	1.1	5.35	24.3	0.03	<1	1.1	29.2	<10	<2
617581	Soil	0.55	18.6	1.7	<0.05	1.4	13.07	27.2	0.06	<1	2.8	29.7	<10	<2
617582	Soil	0.62	26.6	2.3	<0.05	0.9	3.77	10.2	0.04	<1	1.1	35.3	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: November 01, 2011

Page: 8 of 15 Part 1

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
617583	Soil	0.59	33.30	32.39	90.6	58	31.3	21.1	994	3.68	6.8	1.5	3.1	2.5	55.3	0.10	0.37	0.42	26	0.41	0.048
617584	Soil	0.47	21.95	24.64	92.1	121	24.3	10.4	454	3.17	8.4	0.6	2.4	2.7	25.7	0.12	0.57	0.34	19	0.81	0.051
617585	Soil	0.32	21.38	24.06	74.9	46	25.3	13.1	351	3.68	6.8	0.4	1.6	3.3	2.9	0.07	0.39	0.32	23	0.02	0.015
617586	Soil	0.75	14.05	21.10	63.8	30	16.3	7.0	310	3.44	9.0	0.4	0.9	2.1	4.8	0.10	0.51	0.32	27	0.04	0.025
617587	Soil	0.43	25.53	46.62	95.6	60	26.9	25.6	2031	3.74	3.8	0.6	1.1	3.6	7.3	0.05	0.23	0.44	32	0.08	0.036
617588	Soil	0.44	16.40	28.25	102.1	114	20.8	16.1	918	3.47	3.5	0.3	0.8	2.1	4.5	0.23	0.24	0.38	32	0.04	0.052
617589	Soil	0.44	29.27	85.33	88.1	117	24.2	25.6	1444	3.24	10.5	0.7	1.4	3.3	15.7	0.08	0.24	0.45	22	0.21	0.037
617906	Soil	0.01	1.99	4.55	154.9	23	3.0	1.2	1510	1.04	4.0	0.9	0.7	0.1	42.0	0.89	0.66	0.03	3	16.52	0.061
617907	Soil	0.11	11.53	22.43	34.9	49	10.9	6.1	1369	1.65	13.1	1.1	6.3	1.3	42.7	0.07	1.86	0.14	5	16.84	0.141
617908	Soil	0.25	10.11	15.78	46.1	68	12.2	5.5	1306	1.58	11.6	1.1	7.6	1.0	47.9	0.13	1.67	0.11	10	15.46	0.181
617909	Soil	0.36	9.28	10.38	40.6	82	10.9	4.8	1496	1.50	7.4	0.7	3.1	0.7	43.3	0.23	0.90	0.10	13	14.72	0.086
617910	Soil	0.78	19.22	18.86	115.8	87	24.2	11.2	1565	3.15	13.1	1.0	1.7	1.4	10.9	0.34	1.01	0.26	25	1.21	0.109
617911	Soil	0.47	13.32	10.96	34.0	76	14.4	7.8	744	1.78	8.1	0.5	2.1	1.2	27.2	0.13	0.57	0.15	15	7.25	0.074
617912	Soil	0.69	49.01	31.90	74.9	29	31.2	20.0	2425	3.79	3.6	0.8	1.8	2.8	8.6	0.07	0.47	0.40	34	0.17	0.063
617913	Soil	0.37	10.43	27.18	101.2	12	40.9	24.4	837	5.42	0.7	1.1	2.8	5.9	5.6	0.06	0.42	0.47	47	0.08	0.022
617914	Soil	0.93	21.53	26.31	79.4	43	27.7	18.8	1961	4.92	2.0	0.5	0.7	2.0	7.4	0.14	0.38	0.49	28	0.30	0.084
617915	Soil	0.92	32.97	24.83	113.8	46	25.4	13.9	840	3.18	7.8	0.6	5.0	1.3	6.2	0.21	0.58	0.27	32	0.08	0.068
617916	Soil	0.35	28.98	27.93	71.8	58	33.2	17.2	626	3.57	2.5	0.7	1.3	2.7	11.3	0.05	0.10	0.37	27	0.13	0.033
617917	Soil	0.39	32.64	53.27	82.6	83	28.8	35.9	2079	4.80	4.7	0.8	1.3	2.7	6.6	0.05	0.14	0.46	33	0.16	0.080
617918	Soil	0.42	38.07	49.73	98.6	103	29.4	24.5	876	4.55	4.8	0.6	1.4	2.7	6.0	0.07	0.13	0.44	28	0.06	0.042
617919	Soil	0.76	39.38	121.9	103.2	185	42.0	44.4	3841	4.11	5.7	1.2	1.7	3.7	14.4	0.03	0.27	0.53	26	0.10	0.033
617920	Soil	0.72	46.37	19.77	103.4	45	30.0	15.7	331	3.89	7.1	0.5	1.1	2.8	3.6	0.09	0.37	0.40	32	0.02	0.030
617921	Soil	0.49	22.14	34.61	103.4	33	24.9	19.5	545	3.30	4.7	0.8	1.1	3.5	10.4	0.15	0.23	0.42	28	0.07	0.027
617922	Soil	0.58	21.99	36.95	109.1	61	25.0	19.3	585	3.80	4.6	0.5	1.2	3.6	7.8	0.08	0.27	0.40	35	0.05	0.031
617923	Soil	0.44	28.47	39.24	68.5	123	27.5	14.4	473	2.37	25.7	1.7	12.1	4.8	24.7	0.10	4.21	0.30	7	11.44	0.185
617924	Soil	0.62	13.34	16.26	60.5	123	14.4	6.9	2286	2.52	10.5	1.3	4.0	0.5	33.8	0.30	0.94	0.15	20	8.20	0.153
617925	Soil	0.45	11.74	14.35	36.2	94	12.5	5.4	803	1.57	9.0	0.9	2.8	0.8	43.2	0.17	1.04	0.11	14	12.98	0.121
617926	Soil	0.21	11.33	16.90	83.9	56	12.4	8.8	785	1.50	11.0	0.7	2.7	1.0	33.7	0.14	1.26	0.13	6	13.24	0.079
617927	Soil	0.41	23.55	18.06	41.0	90	20.2	17.3	497	1.93	8.7	0.5	2.3	2.1	12.5	0.12	0.58	0.28	14	2.47	0.062
617928	Soil	0.74	15.65	14.89	115.7	132	18.6	9.6	1452	3.15	8.9	0.7	1.7	0.8	18.4	0.56	0.67	0.22	27	4.12	0.139



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 8 of 15 Part 2

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
617583	Soil	5.0	32.0	0.57	117.5	0.002	1	1.74	0.005	0.06	<0.1	3.5	0.09	0.04	53	0.1	0.02	6.1	1.00	<0.1	0.06
617584	Soil	6.7	20.7	0.57	95.5	0.003	1	1.18	0.004	0.06	<0.1	3.3	0.07	<0.02	114	<0.1	0.04	3.6	1.13	<0.1	0.05
617585	Soil	4.4	25.4	0.42	64.4	0.001	<1	1.68	<0.001	0.05	<0.1	2.5	0.06	<0.02	99	<0.1	0.03	5.2	0.83	<0.1	0.05
617586	Soil	4.4	16.2	0.20	79.7	0.002	1	1.00	0.001	0.04	0.1	1.6	0.07	<0.02	38	<0.1	0.02	3.8	0.63	<0.1	<0.02
617587	Soil	4.3	34.3	0.45	181.9	0.003	<1	2.04	<0.001	0.13	<0.1	3.4	0.14	<0.02	27	0.1	0.03	7.2	1.49	<0.1	0.04
617588	Soil	3.4	27.5	0.31	126.1	0.002	<1	1.77	<0.001	0.15	<0.1	1.8	0.10	0.02	26	0.2	0.04	6.9	0.81	<0.1	0.04
617589	Soil	4.5	26.0	0.39	92.4	0.001	<1	1.67	<0.001	0.13	<0.1	3.3	0.11	<0.02	31	<0.1	0.02	6.1	1.39	<0.1	0.06
617906	Soil	1.4	1.2	7.84	39.1	<0.001	1	0.07	0.008	<0.01	<0.1	0.5	0.05	<0.02	75	0.2	<0.02	0.2	0.03	<0.1	<0.02
617907	Soil	3.1	4.2	7.65	29.2	0.001	3	0.16	0.009	0.03	<0.1	1.2	0.07	<0.02	56	0.3	0.05	0.4	0.09	<0.1	0.04
617908	Soil	4.4	6.0	7.50	47.7	0.003	2	0.27	0.010	0.02	<0.1	1.1	0.07	<0.02	121	0.3	0.03	0.7	0.10	<0.1	0.03
617909	Soil	5.3	8.5	7.17	51.2	0.004	2	0.44	0.011	0.02	<0.1	1.1	0.05	<0.02	75	0.2	<0.02	1.0	0.18	<0.1	0.04
617910	Soil	12.1	18.4	0.81	103.5	0.004	1	1.11	0.005	0.06	0.1	2.2	0.08	0.06	76	0.2	0.04	2.5	0.65	<0.1	0.06
617911	Soil	5.8	9.3	4.05	50.5	0.004	1	0.48	0.008	0.05	<0.1	2.0	0.05	<0.02	43	0.2	<0.02	1.4	0.57	<0.1	0.04
617912	Soil	4.4	29.7	0.60	305.2	0.006	1	1.75	0.003	0.08	0.1	5.8	0.12	0.04	58	<0.1	0.04	4.8	3.57	<0.1	0.02
617913	Soil	2.2	55.7	0.84	234.7	0.006	<1	2.37	0.002	0.11	0.1	4.0	0.11	<0.02	17	<0.1	<0.02	8.1	2.48	<0.1	0.06
617914	Soil	2.0	33.1	0.43	133.4	0.003	<1	2.20	0.002	0.08	<0.1	2.4	0.10	0.05	38	0.1	0.07	5.6	3.02	<0.1	0.03
617915	Soil	5.5	29.0	0.46	138.8	0.008	<1	1.56	0.004	0.06	0.2	2.2	0.08	0.03	28	0.1	0.06	4.8	2.03	<0.1	0.03
617916	Soil	4.9	38.0	0.63	123.9	0.003	<1	1.87	0.002	0.07	<0.1	4.4	0.08	<0.02	19	<0.1	<0.02	7.2	1.43	<0.1	0.05
617917	Soil	4.4	47.5	0.58	94.5	0.002	<1	2.18	0.002	0.08	<0.1	3.4	0.07	0.05	26	0.2	0.03	7.8	1.74	<0.1	0.11
617918	Soil	4.5	38.1	0.44	89.2	0.002	<1	1.88	0.002	0.07	<0.1	4.4	0.08	0.02	29	<0.1	0.03	7.3	2.56	<0.1	0.05
617919	Soil	6.0	32.1	0.60	252.8	0.004	<1	1.91	<0.001	0.11	<0.1	4.8	0.23	<0.02	33	<0.1	0.02	6.8	5.34	<0.1	0.05
617920	Soil	4.3	33.6	0.58	88.3	0.004	<1	2.27	<0.001	0.08	<0.1	2.5	0.11	<0.02	32	0.1	<0.02	6.6	2.13	<0.1	0.07
617921	Soil	4.2	30.9	0.42	136.3	0.005	<1	1.70	<0.001	0.14	<0.1	3.2	0.15	<0.02	23	0.2	0.03	6.7	2.49	<0.1	0.03
617922	Soil	4.5	36.1	0.43	106.0	0.003	<1	1.91	<0.001	0.13	<0.1	3.1	0.10	<0.02	25	0.2	<0.02	7.3	1.67	<0.1	0.04
617923	Soil	5.6	5.8	5.49	10.8	<0.001	2	0.18	0.007	0.04	<0.1	3.3	0.07	<0.02	575	0.6	0.06	0.4	0.17	<0.1	0.07
617924	Soil	9.5	12.5	4.02	102.8	0.004	1	0.84	0.009	0.02	0.1	0.8	0.06	0.05	96	0.3	0.03	1.7	0.29	<0.1	<0.02
617925	Soil	5.8	8.7	6.33	48.3	0.004	1	0.44	0.009	0.02	<0.1	1.1	0.05	<0.02	112	0.2	0.02	1.1	0.16	<0.1	0.03
617926	Soil	4.6	3.6	6.08	28.7	0.001	1	0.17	0.009	0.02	<0.1	1.4	0.05	<0.02	171	0.2	0.02	0.4	0.07	<0.1	0.06
617927	Soil	5.1	11.1	1.58	52.6	0.003	2	0.65	0.004	0.08	<0.1	2.2	0.07	<0.02	56	0.2	0.04	2.0	1.02	<0.1	0.06
617928	Soil	10.7	17.8	2.31	96.5	0.006	2	1.04	0.007	0.04	<0.1	1.5	0.07	0.06	66	0.2	0.03	2.7	0.41	<0.1	0.05



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: November 01, 2011

Page: 8 of 15 Part 3

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
617583	Soil	0.38	7.2	1.9	<0.05	2.0	10.13	15.6	0.05	<1	1.3	33.9	<10	<2
617584	Soil	0.28	5.7	1.4	<0.05	2.0	8.75	15.9	0.03	<1	0.8	23.5	<10	<2
617585	Soil	0.21	6.5	1.1	<0.05	2.0	2.98	11.0	0.03	<1	1.0	34.3	<10	<2
617586	Soil	0.49	6.8	0.9	<0.05	1.2	1.88	10.3	0.03	<1	0.3	12.4	<10	<2
617587	Soil	0.40	15.2	1.3	<0.05	1.9	4.78	15.0	0.03	<1	1.7	29.6	<10	<2
617588	Soil	0.52	15.2	1.2	<0.05	1.3	2.14	8.7	0.03	1	1.0	26.0	<10	<2
617589	Soil	0.23	10.9	4.2	<0.05	2.3	11.79	15.2	0.03	<1	1.7	27.1	<10	<2
617906	Soil	<0.02	0.3	0.5	<0.05	0.4	4.31	3.3	<0.02	<1	0.1	0.6	<10	<2
617907	Soil	0.03	0.9	0.9	<0.05	1.6	7.19	6.9	<0.02	<1	0.4	1.4	<10	<2
617908	Soil	0.09	1.3	0.7	<0.05	1.1	7.77	9.7	<0.02	<1	0.4	3.1	<10	<2
617909	Soil	0.12	1.8	0.6	<0.05	1.0	6.43	10.8	<0.02	<1	0.3	4.1	<10	<2
617910	Soil	0.30	5.6	1.6	<0.05	1.9	12.90	21.7	0.03	<1	1.0	7.5	<10	<2
617911	Soil	0.16	3.2	0.5	<0.05	1.0	7.28	12.2	<0.02	<1	0.4	5.3	<10	<2
617912	Soil	0.39	10.8	3.6	<0.05	0.8	14.37	17.9	0.05	<1	3.0	26.8	<10	<2
617913	Soil	0.29	12.4	2.5	<0.05	2.0	3.79	11.3	0.05	<1	2.1	39.7	<10	<2
617914	Soil	0.53	11.3	2.5	<0.05	1.0	6.59	11.7	0.04	<1	2.6	31.2	<10	<2
617915	Soil	0.40	9.1	1.3	<0.05	0.6	4.58	17.5	0.04	<1	1.1	26.4	<10	<2
617916	Soil	0.21	7.1	1.9	<0.05	1.4	8.13	18.1	0.04	<1	1.3	33.7	<10	<2
617917	Soil	0.37	8.2	3.0	<0.05	2.4	6.52	18.4	0.04	<1	1.8	32.9	<10	<2
617918	Soil	0.25	8.5	6.4	<0.05	1.7	6.71	17.0	0.06	<1	1.6	30.3	<10	<2
617919	Soil	0.14	18.8	3.1	<0.05	2.5	13.84	29.9	0.05	<1	2.2	40.0	<10	<2
617920	Soil	0.45	12.9	2.6	<0.05	2.6	3.85	11.0	0.04	<1	1.1	36.3	<10	<2
617921	Soil	0.32	16.9	1.7	<0.05	1.5	4.50	13.7	0.03	<1	1.1	31.0	<10	<2
617922	Soil	0.42	14.6	1.8	<0.05	2.1	4.03	14.9	0.03	<1	1.3	33.6	<10	<2
617923	Soil	<0.02	1.1	2.9	<0.05	3.6	11.85	12.5	<0.02	<1	0.4	0.8	<10	<2
617924	Soil	0.19	3.1	0.7	<0.05	1.0	11.43	18.2	<0.02	<1	0.6	5.8	<10	<2
617925	Soil	0.11	1.6	0.5	<0.05	1.0	7.20	12.0	<0.02	<1	0.4	4.7	<10	<2
617926	Soil	0.04	0.9	1.6	<0.05	1.7	6.66	10.4	<0.02	<1	0.3	1.3	<10	<2
617927	Soil	0.13	5.5	1.6	<0.05	2.1	6.65	11.0	<0.02	<1	0.9	5.9	<10	<2
617928	Soil	0.33	4.4	1.2	<0.05	1.4	11.92	20.5	0.03	<1	0.8	8.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: November 01, 2011

Page: 9 of 15 Part 1

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
617929	Soil			1.21	35.19	22.07	60.1	67	16.3	10.7	1190	2.82	5.9	0.7	1.6	0.4	7.8	0.13	0.58	0.30	40	0.21	0.084
617930	Soil			0.83	48.45	37.95	78.3	53	28.4	21.3	2617	3.98	5.5	0.7	1.3	1.6	6.0	0.17	0.45	0.36	34	0.12	0.066
617931	Soil			0.90	22.66	24.63	61.8	33	22.5	14.5	1211	3.16	4.6	0.6	1.3	2.6	7.9	0.11	0.54	0.28	40	0.09	0.046
617932	Soil			0.36	15.82	27.68	66.5	35	25.4	19.1	2180	3.83	1.7	0.8	0.6	2.6	4.8	0.08	0.36	0.34	32	0.07	0.050
617933	Soil			0.76	31.72	70.69	99.2	50	34.3	39.5	1972	4.26	4.9	0.8	<0.2	3.4	11.0	0.10	0.24	0.45	34	0.09	0.054
617934	Soil			0.89	33.51	59.10	127.7	76	29.9	28.0	1959	4.31	7.6	0.7	<0.2	3.0	12.9	0.25	0.30	0.48	34	0.08	0.070
617935	Soil			0.76	29.89	30.75	106.4	91	26.7	20.5	1210	4.70	6.2	0.7	1.8	2.8	6.4	0.17	0.31	0.51	38	0.06	0.058
617936	Soil			0.73	35.06	69.68	104.9	49	36.3	37.3	1438	4.23	6.6	1.0	1.1	4.5	7.4	0.07	0.36	0.58	30	0.06	0.038
617937	Soil			0.84	21.86	42.05	191.2	239	25.0	22.2	1129	4.70	6.5	0.6	1.4	3.4	12.3	0.21	0.35	0.52	39	0.12	0.065
617938	Soil			0.78	20.20	28.94	116.0	145	23.9	15.5	553	4.13	7.0	0.5	0.8	3.6	7.0	0.16	0.36	0.43	34	0.05	0.038
617939	Soil			0.58	23.46	34.31	104.2	147	27.5	16.9	635	4.78	5.7	0.5	1.7	3.1	12.5	0.10	0.27	0.52	30	0.13	0.072
617940	Soil			0.38	28.59	67.40	95.8	257	20.0	8.2	2718	5.01	47.4	3.2	27.8	1.8	28.3	0.24	5.49	0.20	11	11.81	0.363
617941	Soil			0.12	5.03	12.16	12.9	47	5.1	2.6	1211	1.15	6.6	1.1	4.1	0.4	37.4	0.10	0.89	0.06	4	17.44	0.139
617942	Soil			0.12	4.07	15.71	7.6	44	4.2	1.1	2093	2.03	10.3	1.4	3.9	0.2	40.3	0.07	0.98	0.03	2	18.32	0.074
617943	Soil			0.43	13.79	34.39	94.0	131	18.3	6.0	1281	3.12	18.4	1.3	3.2	1.3	20.4	0.23	2.11	0.26	15	4.39	0.157
617944	Soil			0.61	25.00	26.35	113.0	189	31.0	10.8	434	2.78	19.1	1.9	0.8	1.5	80.5	0.20	1.75	0.40	16	1.49	0.141
617945	Soil			0.71	38.98	46.57	181.2	298	57.5	22.4	522	4.68	13.5	1.3	1.3	7.1	159.0	0.19	0.44	0.49	15	2.59	0.113
617946	Soil			0.71	33.23	40.80	169.0	236	53.8	20.3	783	5.09	8.8	0.8	0.6	7.0	79.6	0.22	0.26	0.44	11	0.86	0.039
617947	Soil			1.12	66.31	122.5	127.7	447	38.1	17.0	594	12.45	23.3	1.5	1.7	10.0	22.6	0.09	0.63	0.66	20	0.05	0.088
617948	Soil			0.82	39.28	54.14	129.0	291	33.2	20.3	894	5.47	9.2	0.9	1.4	2.4	16.0	0.16	0.43	0.43	19	0.06	0.103
617949	Soil			0.96	69.29	76.04	148.9	253	34.1	20.7	714	10.25	13.4	1.2	0.9	8.1	11.2	0.12	0.50	0.46	24	0.04	0.129
617950	Soil			0.08	5.16	12.11	30.7	43	5.2	3.1	2095	1.61	6.5	0.9	0.4	0.4	37.4	0.14	0.64	0.16	3	12.58	0.092
1097662	Soil			0.64	30.71	28.79	73.5	140	18.5	20.0	1732	4.88	4.8	0.8	1.1	2.3	5.6	0.18	0.39	0.37	32	0.06	0.096
1097663	Soil			0.46	25.82	29.45	85.0	84	22.8	19.7	984	6.01	2.4	0.6	0.2	3.9	4.1	0.08	0.18	0.42	35	0.09	0.047
1097664	Soil			0.38	26.46	30.33	37.5	112	18.4	11.7	455	2.14	5.9	1.2	1.3	2.6	22.0	0.06	0.50	0.37	12	1.08	0.046
1097665	Soil			0.62	23.66	26.53	115.7	163	23.5	9.4	610	3.26	16.1	1.4	3.0	2.3	54.3	0.21	1.88	0.29	18	2.88	0.093
1097666	Soil			0.66	15.60	29.39	127.9	134	16.5	7.3	1249	4.16	13.2	2.8	1.7	1.6	17.2	0.20	1.56	0.25	24	4.94	0.116
1097667	Soil			0.60	19.87	34.63	92.8	153	24.4	8.9	797	3.36	12.3	1.6	1.3	2.7	29.1	0.15	1.31	0.30	13	1.18	0.047
1097668	Soil			0.79	23.49	43.54	158.4	104	32.3	14.3	433	5.22	7.2	1.0	0.6	5.2	29.8	0.19	0.24	0.39	16	0.27	0.040
1097669	Soil			0.66	33.86	35.38	144.0	326	44.8	15.9	541	4.35	6.8	0.8	0.7	5.3	78.5	0.16	0.28	0.37	12	0.73	0.046



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 9 of 15 Part 2

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
617929	Soil	5.0	23.6	0.26	133.1	0.006	<1	1.44	0.003	0.05	0.1	0.9	0.11	0.06	38	0.3	0.05	5.2	1.87	<0.1	<0.02
617930	Soil	3.9	31.2	0.43	197.8	0.005	<1	1.84	0.001	0.08	<0.1	2.6	0.12	0.04	28	<0.1	0.04	5.9	2.54	<0.1	0.04
617931	Soil	5.0	26.7	0.36	197.8	0.008	<1	1.34	0.003	0.09	0.2	2.7	0.10	<0.02	52	0.1	0.05	4.7	2.99	<0.1	0.02
617932	Soil	2.6	31.5	0.38	152.3	0.005	<1	1.46	0.003	0.09	0.1	2.8	0.09	<0.02	18	<0.1	0.04	4.5	2.74	<0.1	0.04
617933	Soil	7.0	41.9	0.50	109.6	0.008	<1	1.91	0.007	0.12	<0.1	4.1	0.13	<0.02	37	0.4	0.04	8.4	4.83	<0.1	0.05
617934	Soil	6.5	42.9	0.40	125.1	0.007	<1	1.87	0.008	0.13	<0.1	3.5	0.12	0.04	46	0.6	0.05	8.1	4.67	<0.1	0.05
617935	Soil	5.2	41.7	0.42	143.2	0.005	1	1.91	0.003	0.10	<0.1	3.1	0.09	0.03	32	0.2	0.03	8.2	1.40	<0.1	0.11
617936	Soil	6.4	40.3	0.55	176.7	0.005	<1	1.94	0.001	0.12	<0.1	4.0	0.19	<0.02	24	<0.1	0.02	7.4	4.29	<0.1	0.07
617937	Soil	5.6	37.2	0.39	173.4	0.004	1	2.12	0.002	0.15	<0.1	2.3	0.12	<0.02	23	0.2	0.04	8.0	1.33	<0.1	0.05
617938	Soil	5.9	32.3	0.42	105.5	0.004	1	1.78	0.001	0.11	<0.1	2.5	0.10	<0.02	19	0.1	0.03	7.1	1.29	<0.1	0.05
617939	Soil	4.4	38.4	0.47	157.0	0.006	2	1.92	0.002	0.14	<0.1	2.6	0.10	0.03	25	0.2	<0.02	7.6	1.99	<0.1	0.02
617940	Soil	7.0	11.3	6.40	68.5	0.002	4	0.43	0.009	0.04	<0.1	1.8	0.14	0.03	485	0.7	0.11	1.0	0.17	<0.1	0.09
617941	Soil	2.9	3.7	9.90	40.6	0.003	2	0.19	0.011	0.01	<0.1	0.5	0.04	<0.02	43	0.3	0.04	0.4	0.09	<0.1	0.02
617942	Soil	2.3	3.2	10.36	29.6	0.001	2	0.07	0.009	<0.01	<0.1	0.3	0.05	<0.02	103	0.2	0.02	0.2	0.03	<0.1	0.02
617943	Soil	5.8	11.5	2.29	43.1	0.002	3	0.41	0.004	0.05	<0.1	2.6	0.08	0.06	253	0.3	0.04	1.2	0.12	<0.1	0.06
617944	Soil	11.0	12.5	0.10	60.1	0.001	3	0.58	0.003	0.05	<0.1	2.8	0.08	0.08	230	0.6	<0.02	1.7	0.15	<0.1	0.04
617945	Soil	9.3	18.4	0.39	151.7	0.002	3	1.11	0.004	0.10	<0.1	6.3	0.17	0.04	115	0.4	<0.02	2.8	1.25	<0.1	0.13
617946	Soil	9.9	16.4	0.31	136.5	0.003	3	1.03	0.004	0.07	<0.1	6.8	0.19	0.03	151	0.4	0.02	2.8	2.12	<0.1	0.07
617947	Soil	3.3	22.2	0.07	106.1	0.002	3	1.23	0.016	0.09	<0.1	6.7	0.47	0.17	153	0.6	0.08	3.1	3.24	<0.1	0.11
617948	Soil	3.4	18.6	0.16	92.1	0.002	2	1.15	0.003	0.08	<0.1	3.5	0.14	0.06	33	0.2	0.05	3.0	3.71	<0.1	0.05
617949	Soil	2.3	30.0	0.16	50.1	0.003	3	1.70	0.003	0.10	<0.1	9.2	0.21	0.10	28	0.4	0.04	3.5	6.24	<0.1	0.08
617950	Soil	3.4	3.5	7.14	48.2	<0.001	3	0.16	0.006	0.02	<0.1	0.5	0.02	<0.02	72	0.2	<0.02	0.4	0.07	<0.1	0.04
1097662	Soil	4.1	36.5	0.26	87.7	0.005	<1	1.76	0.004	0.08	<0.1	2.9	0.11	0.05	40	0.3	0.04	7.3	2.30	<0.1	0.06
1097663	Soil	2.3	39.4	0.46	154.0	0.004	1	2.03	0.004	0.12	<0.1	3.6	0.11	0.02	38	<0.1	0.03	9.6	1.62	<0.1	0.04
1097664	Soil	5.4	12.9	0.21	169.4	<0.001	4	0.86	0.004	0.12	<0.1	4.0	0.10	0.07	78	0.1	0.04	2.8	1.26	<0.1	0.10
1097665	Soil	8.9	19.9	1.45	91.8	0.002	4	1.19	0.004	0.07	<0.1	3.9	0.11	0.06	172	0.3	0.05	3.3	0.72	<0.1	0.06
1097666	Soil	11.1	19.5	2.62	103.3	0.004	3	1.40	0.005	0.05	<0.1	2.9	0.11	0.07	117	0.4	0.05	3.5	0.80	<0.1	0.04
1097667	Soil	6.7	13.1	0.44	129.4	0.001	5	0.83	0.002	0.07	<0.1	3.6	0.10	0.05	133	0.3	0.05	2.3	0.51	<0.1	0.08
1097668	Soil	7.8	18.1	0.17	84.4	0.002	3	1.44	0.002	0.07	<0.1	4.4	0.21	0.05	45	0.4	0.03	3.7	2.97	<0.1	0.06
1097669	Soil	7.1	16.8	0.33	144.3	0.002	4	1.00	0.003	0.08	<0.1	5.8	0.18	0.05	129	0.5	0.03	2.7	2.60	<0.1	0.09



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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 Report Date: November 01, 2011

Page: 9 of 15 Part 3

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
617929	Soil	0.49	9.7	2.6	<0.05	0.5	5.88	10.6	0.03	<1	1.0	12.6	<10	<2
617930	Soil	0.45	12.1	2.9	<0.05	1.2	7.15	13.1	0.04	<1	1.8	24.5	<10	<2
617931	Soil	0.53	13.3	2.2	<0.05	0.6	4.73	14.9	0.03	<1	2.2	18.7	<10	<2
617932	Soil	0.44	13.1	1.2	<0.05	1.2	7.09	11.7	0.03	<1	2.5	19.5	<10	<2
617933	Soil	0.34	18.7	2.6	<0.05	1.2	6.09	29.3	0.04	<1	2.1	34.3	<10	<2
617934	Soil	0.40	20.9	3.8	<0.05	1.3	6.31	24.9	0.03	<1	1.2	31.6	<10	<2
617935	Soil	0.73	14.8	3.4	<0.05	1.8	3.96	12.8	0.05	<1	1.3	31.4	<10	<2
617936	Soil	0.32	19.4	3.6	<0.05	2.4	7.67	27.7	0.05	<1	2.0	37.8	<10	<2
617937	Soil	0.61	17.2	1.6	<0.05	1.7	3.27	13.7	0.04	<1	1.4	32.4	<10	<2
617938	Soil	0.54	16.0	1.3	<0.05	1.7	3.27	13.6	0.03	<1	1.0	36.7	<10	<2
617939	Soil	0.45	19.3	3.4	<0.05	1.2	4.21	12.2	0.04	1	1.4	41.0	<10	<2
617940	Soil	0.08	2.3	2.3	<0.05	3.2	20.92	16.9	<0.02	<1	0.4	2.3	<10	<2
617941	Soil	0.04	0.9	0.5	<0.05	1.2	7.02	6.2	<0.02	<1	0.2	1.4	<10	<2
617942	Soil	0.03	0.4	4.4	<0.05	1.3	5.38	3.8	<0.02	<1	0.2	0.8	<10	<2
617943	Soil	0.07	2.5	1.2	<0.05	1.7	14.08	16.2	0.03	<1	0.3	2.1	<10	<2
617944	Soil	0.15	3.2	1.0	<0.05	2.1	15.29	24.5	0.04	1	0.8	2.7	<10	<2
617945	Soil	0.14	5.8	3.2	<0.05	4.7	18.56	27.0	0.06	<1	1.5	34.1	<10	<2
617946	Soil	0.13	6.8	1.7	<0.05	3.6	19.10	28.9	0.07	<1	1.4	35.0	<10	<2
617947	Soil	0.07	7.5	1.5	<0.05	11.2	8.26	10.9	0.12	<1	1.2	11.7	<10	<2
617948	Soil	0.16	9.5	2.3	<0.05	2.2	7.75	9.6	0.07	<1	1.3	19.8	<10	<2
617949	Soil	0.09	8.1	1.3	<0.05	6.9	6.67	6.6	0.09	<1	1.5	21.7	<10	<2
617950	Soil	0.11	0.8	2.2	<0.05	0.8	7.41	6.8	<0.02	<1	0.2	0.8	<10	<2
1097662	Soil	0.63	12.1	2.3	<0.05	1.4	4.49	11.4	0.04	<1	1.1	15.7	<10	<2
1097663	Soil	0.65	16.3	4.6	<0.05	1.5	4.17	6.7	0.04	1	0.9	23.7	<10	<2
1097664	Soil	0.24	9.0	1.3	<0.05	2.7	8.39	13.1	0.02	<1	1.2	6.9	<10	<2
1097665	Soil	0.29	5.9	1.1	<0.05	2.4	12.31	19.2	0.03	<1	0.9	26.1	<10	<2
1097666	Soil	0.38	8.7	0.9	<0.05	1.5	13.70	22.9	0.03	<1	0.8	17.4	<10	<2
1097667	Soil	0.17	4.6	1.0	<0.05	2.3	9.92	17.2	0.03	<1	0.7	12.6	<10	<2
1097668	Soil	0.36	11.5	2.6	<0.05	2.6	9.04	30.0	0.06	2	1.2	32.6	<10	<2
1097669	Soil	0.14	8.1	1.2	<0.05	3.3	17.94	20.5	0.03	2	1.2	34.7	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: November 01, 2011

Page: 10 of 15 Part 1

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1097670	Soil			0.50	32.95	26.93	104.3	162	34.7	14.3	388	3.91	7.7	0.6	0.7	3.6	54.3	0.08	0.30	0.35	14	0.72	0.042
1097671	Soil			0.34	14.38	27.12	109.0	132	19.6	9.2	193	2.93	5.9	0.7	1.4	3.5	75.8	0.09	0.18	0.35	16	0.98	0.050
1097672	Soil			0.49	23.83	23.19	98.1	110	24.7	12.4	420	3.00	9.9	1.4	2.9	2.3	52.6	0.19	0.70	0.29	20	1.12	0.055
1097673	Soil			0.81	52.40	63.74	135.8	282	37.2	13.8	747	9.10	13.1	1.0	0.8	7.9	23.3	0.17	0.29	0.36	20	0.18	0.052
1097674	Soil			1.18	40.99	50.22	130.7	268	62.3	23.5	533	4.34	10.0	2.0	0.9	8.0	97.2	0.16	0.27	0.48	10	1.07	0.040
1097675	Soil			0.67	40.58	53.04	295.8	203	76.0	36.4	1764	5.48	8.1	0.9	0.7	7.8	33.5	0.32	0.31	0.43	13	0.36	0.062
1097676	Soil			0.69	28.89	33.15	132.8	196	37.1	14.8	457	4.33	9.2	1.3	0.8	3.4	92.1	0.24	0.37	0.45	21	1.13	0.103
1097677	Soil			0.39	22.37	29.02	116.3	106	30.5	12.3	376	4.16	6.9	0.9	0.4	4.6	50.7	0.10	0.21	0.40	16	0.45	0.056
1097678	Soil			0.79	19.16	44.04	484.9	227	27.0	8.1	5991	7.89	34.3	3.1	1.9	1.6	24.4	1.36	2.80	0.25	23	3.34	0.291
1097679	Soil			0.51	17.13	27.72	90.2	196	23.5	9.1	2338	4.80	14.5	1.2	2.6	1.9	20.1	0.29	1.13	0.21	17	5.94	0.119
1097680	Soil			0.07	2.05	4.01	8.6	22	1.5	1.1	1215	0.88	2.9	0.9	0.3	0.1	30.5	0.07	0.24	<0.02	2	17.92	0.050
1097681	Soil			0.40	12.09	23.55	73.3	124	13.2	5.8	3958	4.57	27.5	1.7	3.4	0.6	35.5	0.27	2.52	0.10	13	12.73	0.206
1097682	Soil			0.76	16.60	25.39	75.1	195	19.9	7.7	1728	3.94	12.1	1.3	3.9	1.4	15.2	0.32	1.00	0.33	24	4.30	0.128
1097683	Soil			0.76	18.56	29.16	95.7	192	21.1	8.5	1565	3.66	22.0	1.1	10.4	1.0	23.8	0.40	1.84	0.22	23	7.09	0.141
1097684	Soil			0.46	22.09	36.96	148.7	130	27.2	12.4	820	3.19	9.8	0.8	1.4	2.9	20.2	0.26	0.70	0.30	10	3.80	0.059
1097685	Soil			0.73	45.58	54.66	85.5	72	37.2	40.3	1827	4.13	10.4	0.8	2.1	4.0	7.6	0.12	0.51	0.40	30	0.22	0.036
1097686	Soil			0.30	32.13	18.58	77.1	25	34.5	20.3	520	3.90	2.0	0.9	1.1	5.4	12.3	0.03	0.19	0.35	31	0.05	0.018
1097687	Soil			0.60	56.44	64.52	74.2	98	29.4	24.4	>10000	3.63	3.9	1.7	1.2	1.6	8.2	0.77	0.40	0.36	43	0.36	0.136
1097688	Soil			1.26	63.13	108.9	94.8	83	42.9	70.5	3826	3.35	9.7	1.8	1.9	3.2	13.3	0.06	0.30	0.37	25	0.07	0.033
1097689	Soil			0.97	72.16	44.63	67.0	48	25.2	43.2	2427	4.10	7.9	0.7	0.9	3.9	3.9	0.13	0.28	0.45	32	0.02	0.038
1097690	Soil			0.40	49.44	23.64	84.1	34	40.7	22.9	936	3.62	1.9	0.7	2.1	4.5	15.4	0.02	0.12	0.39	28	0.11	0.031
1097691	Soil			0.96	20.63	18.56	103.5	141	19.7	13.7	1088	4.32	3.9	0.6	0.5	0.7	6.3	0.29	0.40	0.39	45	0.12	0.067
1097692	Soil			1.03	22.48	17.87	77.7	49	19.1	9.0	379	3.92	7.3	0.5	2.2	3.4	5.8	0.16	0.54	0.53	47	0.02	0.037
1097693	Soil			0.72	29.86	40.92	81.5	95	21.7	19.9	1164	4.86	6.5	0.6	1.5	3.4	4.4	0.16	0.29	0.51	38	<0.01	0.048
1097694	Soil			0.82	43.74	57.98	96.2	45	36.9	32.0	1766	5.12	6.4	0.7	1.6	4.1	10.5	0.09	0.20	0.47	34	0.06	0.047
1097695	Soil			0.72	36.24	66.30	90.7	40	29.0	38.3	2541	4.50	7.4	0.9	1.2	4.3	10.7	0.09	0.25	0.44	36	0.08	0.055
1097696	Soil			0.66	32.52	46.82	86.7	274	29.6	28.6	1889	3.78	6.2	0.7	1.0	3.4	8.6	0.07	0.19	0.41	30	0.06	0.042
1097697	Soil			0.57	28.48	37.93	100.3	528	27.1	24.4	1576	4.46	6.3	0.6	0.8	3.6	5.7	0.12	0.28	0.46	37	0.03	0.052
1097698	Soil			0.46	28.02	34.78	92.9	83	30.4	23.3	2057	4.16	5.5	0.6	1.0	2.4	9.1	0.17	0.21	0.44	35	0.06	0.087
617867	Soil			0.49	34.02	50.38	50.6	160	48.6	30.0	881	4.59	9.0	0.8	1.2	5.4	6.1	0.02	1.83	0.37	19	0.18	0.028



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 10 of 15 Part 2

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
1097670	Soil	5.1	16.8	0.37	60.9	0.002	3	0.95	0.004	0.08	<0.1	5.0	0.09	0.04	64	0.3	0.07	2.7	1.29	<0.1	0.10
1097671	Soil	5.6	18.5	0.47	81.2	0.002	3	0.94	0.003	0.07	<0.1	4.1	0.08	0.04	74	0.3	0.04	2.9	1.14	<0.1	0.10
1097672	Soil	7.5	22.3	0.60	99.8	0.003	4	1.26	0.004	0.07	<0.1	4.0	0.10	0.06	101	0.3	0.05	4.0	0.87	<0.1	0.09
1097673	Soil	8.7	23.8	0.12	153.2	0.002	3	0.75	0.003	0.07	<0.1	4.5	0.41	0.03	40	1.0	0.02	3.1	2.61	<0.1	0.11
1097674	Soil	4.9	12.9	0.24	140.4	0.001	5	0.90	0.007	0.14	<0.1	5.1	0.16	0.09	82	0.5	0.02	2.3	1.98	<0.1	0.12
1097675	Soil	7.9	16.7	0.29	279.0	0.003	5	1.17	0.006	0.12	<0.1	7.3	0.27	0.05	44	0.3	0.02	3.2	3.48	<0.1	0.09
1097676	Soil	14.6	18.5	0.28	207.4	0.003	5	1.29	0.004	0.11	<0.1	5.2	0.15	0.07	60	0.5	0.04	3.3	1.44	<0.1	0.09
1097677	Soil	12.7	18.3	0.24	171.4	0.002	3	1.29	0.002	0.10	<0.1	5.4	0.19	0.03	19	0.2	<0.02	3.8	2.45	<0.1	0.07
1097678	Soil	12.5	19.5	1.36	208.1	0.004	3	1.04	0.003	0.05	<0.1	2.2	0.13	0.15	308	0.7	0.04	2.3	0.47	<0.1	0.10
1097679	Soil	8.7	14.4	3.46	92.9	0.004	3	0.86	0.005	0.05	<0.1	2.8	0.13	0.03	140	0.4	0.03	1.9	0.72	<0.1	0.05
1097680	Soil	1.2	2.0	10.22	19.2	0.002	2	0.12	0.011	<0.01	<0.1	0.3	0.02	<0.02	30	0.3	<0.02	0.2	0.09	<0.1	<0.02
1097681	Soil	7.1	9.9	7.02	130.3	0.004	3	0.60	0.007	0.02	<0.1	1.0	0.25	0.05	117	0.5	0.07	1.4	0.23	<0.1	0.04
1097682	Soil	10.1	18.2	2.26	98.4	0.005	2	1.12	0.005	0.05	<0.1	2.2	0.12	0.06	95	0.3	0.05	2.6	0.65	<0.1	0.08
1097683	Soil	8.3	15.5	3.50	86.2	0.005	4	1.01	0.007	0.05	<0.1	1.7	0.11	0.04	233	0.5	0.05	2.2	0.46	<0.1	0.04
1097684	Soil	6.1	11.4	2.05	88.9	0.002	3	0.63	0.004	0.09	<0.1	3.2	0.12	0.02	63	0.3	0.03	1.7	1.31	<0.1	0.06
1097685	Soil	8.2	27.8	0.58	103.9	0.005	<1	1.64	0.003	0.09	<0.1	6.2	0.15	<0.02	45	<0.1	0.02	5.5	2.05	<0.1	0.06
1097686	Soil	2.9	36.5	0.71	323.3	0.009	1	1.87	0.004	0.13	<0.1	5.2	0.12	<0.02	8	<0.1	<0.02	6.8	2.29	<0.1	0.03
1097687	Soil	7.3	30.2	0.35	629.6	0.008	2	2.14	0.003	0.10	0.1	3.0	0.18	0.10	48	0.1	0.07	5.4	2.55	<0.1	0.05
1097688	Soil	3.9	31.6	0.67	125.8	0.002	<1	1.88	0.003	0.10	<0.1	5.8	0.23	<0.02	37	<0.1	<0.02	6.4	2.21	<0.1	0.03
1097689	Soil	3.3	33.0	0.41	80.2	0.004	1	1.87	0.002	0.08	<0.1	3.3	0.13	0.02	52	0.1	0.03	6.6	2.59	<0.1	0.05
1097690	Soil	5.5	37.3	0.75	484.8	0.010	2	2.05	0.003	0.18	<0.1	5.8	0.16	<0.02	17	<0.1	<0.02	7.7	3.76	<0.1	0.07
1097691	Soil	3.5	34.0	0.32	172.5	0.012	2	1.38	0.003	0.17	<0.1	1.5	0.12	0.05	37	0.1	0.02	7.6	1.64	<0.1	<0.02
1097692	Soil	6.9	31.7	0.33	64.8	0.007	<1	1.77	0.002	0.07	0.1	2.7	0.13	<0.02	30	0.1	0.05	7.3	1.87	<0.1	0.04
1097693	Soil	6.1	35.2	0.29	78.8	0.003	<1	1.99	0.001	0.07	<0.1	3.7	0.10	0.02	39	0.3	0.03	7.5	2.62	<0.1	0.08
1097694	Soil	6.5	43.9	0.59	107.4	0.002	<1	2.36	0.002	0.09	<0.1	5.2	0.12	0.02	43	0.1	<0.02	8.4	3.49	<0.1	0.08
1097695	Soil	6.9	36.4	0.43	104.5	0.003	<1	2.05	0.002	0.10	<0.1	5.1	0.14	<0.02	47	0.2	0.02	7.5	4.26	<0.1	0.05
1097696	Soil	6.2	35.1	0.42	108.7	0.003	<1	1.97	0.004	0.10	<0.1	4.6	0.10	<0.02	29	0.1	<0.02	6.8	2.33	<0.1	0.03
1097697	Soil	6.3	36.3	0.41	128.6	0.004	<1	2.19	0.002	0.15	<0.1	3.2	0.11	0.02	32	0.1	0.03	7.6	1.86	<0.1	0.07
1097698	Soil	5.5	34.2	0.36	193.8	0.004	<1	2.09	0.002	0.16	<0.1	2.6	0.11	0.03	33	<0.1	<0.02	7.4	1.57	<0.1	0.06
617867	Soil	7.7	22.0	0.37	28.8	0.003	2	1.32	<0.001	0.16	<0.1	7.8	0.18	<0.02	69	<0.1	0.03	4.4	4.67	<0.1	0.05



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 10 of 15 Part 3

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1097670	Soil	0.13	6.0	0.7	<0.05	5.1	9.68	11.6	0.04	<1	1.1	32.2	<10	<2
1097671	Soil	0.20	7.0	0.8	<0.05	3.7	5.87	13.4	0.04	<1	0.7	31.8	<10	<2
1097672	Soil	0.37	7.4	0.5	<0.05	3.0	10.01	17.5	0.03	<1	1.1	26.2	<10	<2
1097673	Soil	0.20	6.5	0.6	<0.05	7.1	10.41	27.6	0.07	1	0.8	12.5	<10	<2
1097674	Soil	0.06	7.7	0.8	<0.05	7.9	12.84	15.5	0.04	<1	1.2	35.8	<10	<2
1097675	Soil	0.06	10.6	1.0	<0.05	5.3	19.16	29.4	0.06	<1	1.5	42.0	<10	<2
1097676	Soil	0.32	10.1	0.7	<0.05	3.2	18.25	34.9	0.05	<1	1.5	22.7	<10	<2
1097677	Soil	0.25	15.2	0.9	<0.05	2.0	17.40	40.9	0.05	<1	1.2	30.2	<10	<2
1097678	Soil	0.16	5.2	0.3	<0.05	3.1	22.84	28.1	0.02	<1	1.0	4.1	<10	<2
1097679	Soil	0.12	5.3	0.6	<0.05	1.7	14.08	22.2	0.02	2	0.7	12.3	<10	<2
1097680	Soil	0.04	0.7	0.2	<0.05	0.6	2.67	2.6	<0.02	<1	0.1	0.8	<10	<2
1097681	Soil	0.09	2.6	0.4	<0.05	1.3	13.83	15.6	<0.02	1	0.6	3.1	<10	<2
1097682	Soil	0.30	5.8	0.7	<0.05	1.7	14.29	16.7	0.03	<1	0.8	10.0	<10	<2
1097683	Soil	0.20	4.1	1.4	<0.05	1.1	12.12	16.6	0.03	<1	0.6	8.6	<10	<2
1097684	Soil	0.11	6.3	1.2	<0.05	1.7	10.09	18.1	0.03	<1	0.8	14.7	<10	<2
1097685	Soil	0.14	9.3	1.3	<0.05	2.0	16.84	25.9	0.04	<1	1.5	26.0	<10	<2
1097686	Soil	0.28	15.5	1.3	<0.05	1.1	6.39	10.0	0.03	<1	1.4	29.8	<10	<2
1097687	Soil	0.34	13.4	3.7	<0.05	0.8	18.54	25.9	0.06	<1	2.2	18.1	<10	<2
1097688	Soil	0.13	10.2	0.9	<0.05	1.6	12.35	16.8	0.04	<1	1.9	42.3	<10	<2
1097689	Soil	0.47	12.4	1.1	<0.05	1.5	3.94	16.2	0.04	<1	1.0	33.6	<10	<2
1097690	Soil	0.18	21.1	2.4	<0.05	2.4	18.51	20.8	0.03	<1	2.1	36.8	<10	<2
1097691	Soil	0.62	20.6	1.5	<0.05	0.2	2.63	8.7	0.03	<1	0.6	12.7	<10	<2
1097692	Soil	0.85	13.1	1.4	<0.05	1.6	3.25	15.6	0.04	<1	0.6	21.2	<10	<2
1097693	Soil	0.47	11.8	1.1	<0.05	1.9	5.67	16.5	0.05	<1	1.7	29.3	<10	<2
1097694	Soil	0.22	11.7	2.3	<0.05	2.6	8.31	21.9	0.05	<1	1.9	38.6	<10	<2
1097695	Soil	0.28	15.3	1.6	<0.05	1.5	9.70	27.1	0.05	<1	1.7	36.0	<10	<2
1097696	Soil	0.19	11.9	1.8	<0.05	1.4	8.11	20.4	0.04	<1	1.5	31.6	<10	<2
1097697	Soil	0.46	17.9	1.5	<0.05	2.2	5.16	16.6	0.03	<1	1.5	36.1	<10	<2
1097698	Soil	0.47	17.8	1.2	<0.05	2.0	4.25	14.3	0.04	<1	1.4	31.4	<10	<2
617867	Soil	0.06	11.5	1.5	<0.05	2.0	14.93	20.7	0.04	<1	1.3	15.1	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 11 of 15 Part 1

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
617868	Soil			0.48	32.63	28.90	44.9	69	30.2	18.6	910	3.40	10.9	0.9	1.1	2.5	7.9	0.06	0.50	0.40	16	0.29	0.034
617869	Soil			0.44	10.08	24.62	41.0	79	10.1	5.7	1409	2.28	12.1	0.7	5.2	0.5	31.5	0.21	1.65	0.11	13	12.58	0.093
617870	Soil			0.27	4.64	9.93	23.9	48	4.9	2.8	1671	1.63	4.9	0.8	0.8	0.2	43.7	0.22	0.66	0.05	7	14.02	0.096
617871	Soil			0.33	9.98	20.65	111.2	98	8.7	4.2	3015	2.73	9.8	1.7	2.2	0.3	27.6	0.28	1.62	0.09	10	12.40	0.189
617872	Soil			0.29	10.52	22.27	180.9	102	9.4	4.6	2235	2.88	15.4	1.4	5.7	1.1	27.8	0.10	2.56	0.11	6	16.12	0.092
617873	Soil			0.61	13.48	28.02	86.2	148	15.8	5.8	4546	5.58	22.9	2.4	4.5	0.7	22.5	0.41	2.86	0.12	17	10.30	0.174
617874	Soil			0.28	8.64	23.68	305.3	105	8.1	3.9	2284	2.81	10.5	1.2	5.5	0.4	26.2	0.48	2.10	0.09	9	14.54	0.109
617875	Soil			0.93	24.59	23.16	82.1	40	23.8	10.7	479	3.76	9.9	1.1	1.7	2.2	9.7	0.10	0.46	0.32	33	0.08	0.064
617876	Soil			1.14	59.02	67.88	189.7	380	69.1	27.2	1084	7.82	13.0	1.6	1.9	7.7	71.9	0.25	0.46	0.48	17	0.44	0.080
617877	Soil			1.03	75.20	87.34	122.7	208	34.2	29.7	588	8.00	7.9	1.1	1.4	8.0	60.7	0.06	0.40	0.41	28	<0.01	0.096
617878	Soil			1.03	19.22	19.30	64.4	187	21.1	8.1	272	2.92	9.0	0.7	1.0	0.6	24.1	0.09	0.52	0.27	32	0.27	0.070
617879	Soil			1.37	33.58	56.71	112.8	172	35.3	29.5	1213	4.66	17.5	1.0	1.1	2.5	14.8	0.12	0.78	0.41	34	0.09	0.064
617880	Soil			1.01	31.26	36.11	81.2	76	36.1	21.6	473	3.78	22.1	0.7	2.1	3.5	8.8	0.07	0.61	0.30	27	0.03	0.031
617881	Soil			0.99	34.92	41.95	104.3	503	34.8	24.5	930	4.98	12.0	2.6	1.5	6.8	83.4	0.12	0.53	0.39	35	1.06	0.137
617882	Soil			1.02	38.84	64.25	103.4	202	33.3	27.0	1538	4.79	11.2	1.4	1.2	3.9	80.1	0.19	0.47	0.42	22	1.03	0.128
617883	Soil			1.07	24.93	46.13	91.7	123	35.5	24.2	463	3.20	10.1	0.6	1.8	2.6	13.4	0.06	0.67	0.38	33	0.10	0.022
617884	Soil			3.17	57.84	74.48	419.6	950	52.2	17.6	417	3.30	26.9	2.3	6.6	2.8	35.6	0.88	1.36	0.49	38	1.51	0.077
617885	Soil			0.96	24.88	21.39	127.3	123	25.5	11.6	1024	3.11	9.6	2.1	2.2	1.3	29.6	0.37	0.67	0.30	30	1.43	0.104
617886	Soil			0.66	37.45	40.89	106.4	63	34.9	27.0	1417	4.70	5.6	0.8	3.8	3.0	9.5	0.17	0.37	0.47	34	0.10	0.064
617887	Soil			1.01	33.05	31.53	134.6	130	30.0	20.3	981	3.56	8.7	1.7	3.0	2.1	17.3	0.41	0.57	0.37	35	0.70	0.092
617888	Soil			0.99	21.41	17.06	113.0	87	23.3	12.0	471	4.01	5.0	3.6	1.2	1.1	44.0	0.34	0.45	0.37	42	0.48	0.057
617889	Soil			0.88	26.84	25.22	107.5	84	33.3	18.9	608	4.44	6.2	0.6	2.1	3.1	10.4	0.41	0.49	0.40	37	0.04	0.054
617890	Soil			0.84	25.05	23.65	95.9	123	27.5	10.9	481	3.32	10.4	1.4	2.1	2.8	54.2	0.17	1.05	0.33	29	0.46	0.063
617891	Soil			0.50	29.33	31.24	88.0	55	23.0	16.5	1093	4.78	7.1	0.5	0.6	3.6	5.8	0.09	0.20	0.44	38	<0.01	0.047
617892	Soil			0.63	22.93	28.53	80.3	63	19.6	13.7	816	3.90	4.5	0.4	0.8	2.9	5.1	0.13	0.19	0.39	37	0.02	0.043
617893	Soil			0.46	25.97	21.84	105.2	126	24.1	15.6	528	3.92	6.1	0.6	<0.2	4.1	4.8	0.10	0.34	0.49	29	0.03	0.053
617894	Soil			1.25	21.81	66.21	112.7	118	19.3	21.2	791	2.90	6.5	0.5	<0.2	2.6	15.6	0.28	0.26	0.41	22	0.12	0.050
617895	Soil			1.12	14.24	13.20	43.9	21	11.3	6.4	246	2.96	5.6	0.5	0.8	3.2	6.4	0.09	0.52	0.28	53	0.04	0.016
617896	Soil			0.89	25.93	16.75	85.7	40	29.0	14.7	593	2.84	6.9	1.0	1.6	4.2	13.6	0.26	0.60	0.21	42	0.17	0.061
617897	Soil			0.83	28.69	21.05	69.4	137	33.2	15.0	1132	3.43	14.8	2.5	3.4	3.4	23.8	0.25	0.87	0.29	28	0.71	0.069



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

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 Report Date: November 01, 2011

Page: 11 of 15 Part 2

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
617868	Soil	7.6	11.4	0.14	100.3	0.002	3	0.60	0.002	0.15	<0.1	4.9	0.12	0.04	79	<0.1	<0.02	2.4	2.44	<0.1	0.04
617869	Soil	5.2	8.0	5.79	49.7	0.004	2	0.43	0.008	0.02	<0.1	1.0	0.21	<0.02	94	0.2	<0.02	1.0	0.20	<0.1	0.03
617870	Soil	3.9	4.8	6.49	47.3	0.003	2	0.27	0.009	0.02	<0.1	0.6	0.13	<0.02	50	0.2	<0.02	0.5	0.17	<0.1	0.02
617871	Soil	7.2	7.8	5.84	84.3	0.002	4	0.40	0.013	0.03	<0.1	0.7	0.10	0.06	94	0.4	0.03	0.9	0.21	<0.1	<0.02
617872	Soil	5.0	5.5	7.20	27.6	0.001	3	0.18	0.013	0.03	<0.1	1.4	0.07	<0.02	187	0.3	0.03	0.4	0.10	<0.1	0.05
617873	Soil	8.9	11.7	4.53	87.4	0.005	3	0.62	0.010	0.03	<0.1	1.4	0.12	0.03	183	0.6	0.03	1.3	0.25	<0.1	0.04
617874	Soil	5.4	7.2	6.59	50.0	0.003	3	0.29	0.012	0.02	<0.1	0.9	0.12	<0.02	482	0.4	<0.02	0.7	0.18	<0.1	0.02
617875	Soil	8.5	24.1	0.38	100.6	0.003	2	1.64	0.002	0.07	<0.1	2.2	0.12	0.03	44	0.3	0.05	4.7	1.64	<0.1	0.07
617876	Soil	6.4	32.3	0.23	146.1	0.002	2	1.27	0.006	0.08	<0.1	6.3	0.41	0.07	344	0.6	0.04	3.0	2.85	<0.1	0.07
617877	Soil	2.2	34.0	0.27	54.4	0.003	2	1.71	0.007	0.10	<0.1	9.1	0.15	0.18	47	0.6	0.04	4.5	11.14	<0.1	0.07
617878	Soil	5.3	19.2	0.25	95.6	0.005	<1	1.01	0.005	0.05	0.1	1.0	0.10	0.04	24	0.2	0.04	3.3	1.21	<0.1	<0.02
617879	Soil	7.9	23.2	0.29	114.6	0.006	<1	1.45	0.004	0.07	<0.1	3.6	0.14	0.03	54	0.2	0.05	4.0	4.74	<0.1	0.04
617880	Soil	5.5	22.0	0.37	60.7	0.004	1	1.53	0.002	0.05	<0.1	3.5	0.11	<0.02	18	0.2	0.08	3.5	3.24	<0.1	0.06
617881	Soil	22.8	31.3	0.47	116.2	0.003	2	2.07	0.005	0.07	<0.1	18.7	0.14	0.07	84	0.3	0.06	5.5	6.01	<0.1	0.13
617882	Soil	7.9	29.3	0.43	94.7	0.002	2	1.77	0.006	0.08	<0.1	9.0	0.11	0.07	36	0.2	0.06	4.5	4.94	<0.1	0.09
617883	Soil	7.6	22.2	0.41	94.6	0.013	1	1.35	0.004	0.05	<0.1	2.6	0.10	<0.02	20	0.2	<0.02	3.5	5.25	<0.1	<0.02
617884	Soil	16.8	21.4	0.26	95.8	0.003	3	1.00	0.004	0.12	<0.1	4.7	0.20	0.05	174	0.9	0.05	2.9	0.39	<0.1	0.11
617885	Soil	16.8	22.1	0.34	123.7	0.005	2	1.26	0.005	0.08	0.1	2.5	0.11	0.10	61	0.2	0.04	3.8	1.00	<0.1	0.05
617886	Soil	7.1	43.0	0.67	105.0	0.003	1	2.19	0.011	0.13	<0.1	6.4	0.13	0.03	22	<0.1	0.02	8.1	2.99	<0.1	0.05
617887	Soil	12.6	32.5	0.50	99.8	0.006	2	1.71	0.010	0.11	<0.1	4.6	0.12	0.06	53	0.3	0.03	5.9	2.78	<0.1	0.07
617888	Soil	5.5	37.1	0.45	192.8	0.007	2	1.68	0.010	0.19	0.1	2.1	0.14	0.04	28	0.3	0.08	8.1	2.24	<0.1	<0.02
617889	Soil	7.2	43.2	0.64	95.4	0.009	2	1.91	0.009	0.15	<0.1	3.4	0.11	0.03	40	0.2	<0.02	7.9	2.93	<0.1	0.03
617890	Soil	6.5	31.3	0.42	128.4	0.003	2	1.65	0.009	0.08	<0.1	3.1	0.09	0.04	737	0.3	0.03	5.7	2.08	<0.1	0.05
617891	Soil	4.9	38.5	0.35	95.0	0.002	<1	1.91	0.008	0.09	<0.1	3.4	0.10	0.03	24	0.2	0.05	9.0	2.58	<0.1	0.06
617892	Soil	4.9	35.2	0.28	114.5	0.002	<1	1.89	0.009	0.10	<0.1	3.3	0.10	0.02	38	0.2	<0.02	8.7	2.45	<0.1	0.06
617893	Soil	6.2	35.9	0.40	120.6	0.001	1	1.98	0.005	0.15	<0.1	2.3	0.10	0.04	42	0.2	0.02	7.5	2.87	<0.1	0.12
617894	Soil	4.4	26.5	0.33	201.5	0.002	2	1.41	0.006	0.19	<0.1	2.3	0.12	0.05	38	<0.1	0.02	6.3	2.74	<0.1	0.03
617895	Soil	8.9	22.8	0.23	94.8	0.006	<1	1.48	0.006	0.06	<0.1	2.3	0.15	<0.02	15	0.1	0.04	8.1	1.88	<0.1	<0.02
617896	Soil	13.9	28.6	0.58	124.1	0.032	2	1.46	0.011	0.08	0.1	3.8	0.08	<0.02	18	0.3	0.03	5.1	1.72	<0.1	<0.02
617897	Soil	20.5	28.6	0.42	143.5	0.004	3	1.64	0.007	0.09	0.1	6.5	0.09	0.04	53	0.3	0.06	4.1	1.20	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 11 of 15 Part 3

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
617868	Soil	0.15	9.0	1.3	<0.05	1.1	9.28	17.8	0.05	<1	1.0	2.9	<10	<2
617869	Soil	0.10	2.2	2.0	<0.05	0.8	6.90	11.1	<0.02	<1	0.4	3.2	<10	<2
617870	Soil	0.05	1.7	1.0	<0.05	0.4	5.80	9.5	<0.02	<1	0.4	1.5	<10	<2
617871	Soil	0.05	2.2	2.3	<0.05	0.4	11.57	14.0	<0.02	<1	0.3	2.3	<10	<2
617872	Soil	0.04	1.1	1.2	<0.05	1.2	7.20	9.2	<0.02	<1	0.3	1.3	<10	<2
617873	Soil	0.10	2.5	1.5	<0.05	0.9	14.85	16.6	<0.02	<1	0.4	3.2	<10	<2
617874	Soil	0.05	1.6	1.5	<0.05	0.6	7.65	10.4	<0.02	<1	0.2	1.6	<10	<2
617875	Soil	0.35	10.1	1.1	<0.05	1.6	5.34	24.0	0.03	<1	0.9	30.3	<10	<2
617876	Soil	0.08	7.3	2.4	<0.05	4.0	17.23	19.3	0.08	<1	1.8	34.3	<10	<2
617877	Soil	0.15	9.4	8.6	<0.05	2.9	5.68	7.4	0.10	<1	1.3	42.5	<10	<2
617878	Soil	0.27	8.4	1.1	<0.05	0.4	3.55	12.2	0.02	<1	0.5	15.4	11	<2
617879	Soil	0.29	10.7	2.5	<0.05	1.7	11.74	25.0	0.05	<1	1.3	35.7	<10	<2
617880	Soil	0.26	6.8	0.9	<0.05	1.7	6.39	19.5	0.04	<1	1.2	43.1	<10	<2
617881	Soil	0.34	9.9	1.0	<0.05	3.1	68.99	48.0	0.07	<1	2.0	57.1	<10	<2
617882	Soil	0.21	9.0	4.2	<0.05	2.3	26.08	35.8	0.06	<1	2.2	62.9	<10	<2
617883	Soil	0.45	6.3	0.8	<0.05	1.0	4.47	17.9	0.02	<1	1.0	34.4	<10	<2
617884	Soil	0.31	6.4	0.9	<0.05	3.1	16.54	32.6	0.04	1	1.7	8.1	<10	<2
617885	Soil	0.44	9.1	0.9	<0.05	1.3	13.14	32.8	0.04	<1	1.0	11.9	<10	<2
617886	Soil	0.26	15.8	3.1	<0.05	1.7	15.40	24.2	0.07	<1	1.9	37.4	<10	<2
617887	Soil	0.53	14.4	1.5	<0.05	1.7	15.98	29.4	0.05	<1	1.5	23.0	<10	<2
617888	Soil	0.75	27.9	1.7	<0.05	0.1	3.52	12.5	0.04	<1	1.2	34.9	<10	<2
617889	Soil	0.67	17.7	1.6	<0.05	0.8	3.91	21.4	0.04	<1	1.2	34.2	<10	<2
617890	Soil	0.55	13.4	2.1	<0.05	1.4	4.88	17.1	0.04	<1	1.3	31.9	<10	<2
617891	Soil	0.35	19.4	1.2	<0.05	2.1	4.50	13.8	0.05	<1	1.1	28.1	<10	<2
617892	Soil	0.37	19.9	1.9	<0.05	1.8	4.43	11.8	0.04	<1	1.3	26.9	<10	<2
617893	Soil	0.35	19.9	0.7	<0.05	5.6	4.53	15.9	0.04	<1	1.4	43.6	<10	<2
617894	Soil	0.31	18.2	1.5	<0.05	0.9	3.25	11.9	0.03	<1	1.3	23.1	<10	<2
617895	Soil	0.59	14.1	1.0	<0.05	0.6	3.39	18.5	0.03	<1	0.3	10.2	<10	<2
617896	Soil	0.42	10.6	0.7	<0.05	0.8	8.55	31.6	<0.02	<1	0.9	22.7	<10	<2
617897	Soil	0.29	11.5	0.7	<0.05	1.6	16.25	58.5	0.04	<1	1.5	22.2	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 12 of 15 Part 1

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
617898	Soil			1.05	32.80	17.89	58.2	29	34.7	16.7	923	3.37	24.3	2.2	0.5	3.8	7.9	0.10	2.25	0.32	21	0.27	0.029
617899	Soil			1.35	44.95	22.65	82.0	96	38.1	19.8	812	2.84	22.1	2.3	2.5	2.5	12.3	0.19	2.18	0.36	18	1.08	0.046
617900	Soil			0.79	19.07	24.42	78.5	145	21.4	9.9	1841	3.81	13.0	1.0	2.1	1.1	15.5	0.53	1.24	0.22	31	2.13	0.122
617151	Soil			0.56	21.07	15.37	59.9	92	21.3	15.0	1701	3.34	28.1	0.7	2.2	3.8	9.1	0.26	1.20	0.40	22	0.97	0.055
617152	Soil			0.30	3.40	6.39	29.6	33	1.8	1.5	907	0.85	3.1	0.5	0.8	0.1	29.2	0.12	0.34	0.04	5	11.16	0.051
617153	Soil			0.21	5.21	27.66	136.4	185	4.4	3.1	2419	2.35	27.1	1.1	4.0	0.3	52.9	0.14	4.83	0.05	6	10.57	0.082
617154	Soil			0.53	11.58	107.4	217.8	172	7.0	4.6	2590	3.60	22.1	1.4	13.9	0.6	47.9	0.19	2.80	0.08	8	10.38	0.101
617155	Soil			0.30	9.62	33.10	51.8	87	11.0	4.9	1967	3.07	22.6	1.4	10.7	0.9	43.4	0.17	2.70	0.08	13	9.48	0.136
617156	Soil			0.42	6.46	10.46	35.3	58	9.4	4.3	1526	2.12	7.9	0.9	0.5	0.8	39.4	0.17	0.76	0.07	14	9.35	0.087
617617	Soil			0.63	31.71	40.68	99.8	237	31.9	12.1	359	4.28	8.8	0.9	0.3	2.6	30.6	0.13	0.36	0.36	13	0.41	0.081
617618	Soil			0.31	28.54	39.18	106.5	159	42.2	17.3	639	4.13	7.9	0.8	<0.2	8.4	21.5	0.14	0.21	0.41	9	0.26	0.044
617619	Soil			0.33	7.53	16.05	46.7	69	7.3	3.5	3078	3.14	8.6	1.2	2.2	0.3	21.5	0.28	0.94	0.08	12	9.51	0.110
617620	Soil			0.26	10.92	19.97	46.6	98	19.7	7.4	2122	3.50	20.0	2.0	4.6	1.1	21.4	0.19	3.30	0.12	16	7.81	0.175
617621	Soil			0.11	9.52	20.16	24.0	73	8.4	4.0	1917	2.37	11.4	1.2	3.5	0.5	24.5	0.10	1.77	0.08	8	10.89	0.139
617622	Soil			0.25	6.64	13.07	53.4	57	6.3	3.5	2791	2.39	7.9	1.1	1.6	0.2	38.4	0.25	0.78	0.07	11	9.97	0.125
617623	Soil			0.16	16.53	37.38	24.0	104	12.0	9.4	998	2.35	18.5	0.7	5.1	1.6	29.7	0.10	3.00	0.17	14	8.04	0.126
617624	Soil			0.32	11.20	14.34	31.5	63	9.4	5.2	1182	2.23	9.8	0.6	2.9	0.5	31.6	0.15	0.92	0.10	14	8.73	0.123
617625	Soil			1.00	26.20	30.92	76.6	56	22.8	18.3	1224	3.53	6.0	0.6	1.7	1.5	7.7	0.21	0.56	0.26	39	0.09	0.065
617626	Soil			0.49	43.14	36.16	84.0	43	30.3	16.5	4634	3.27	3.1	0.7	0.3	2.1	7.4	0.41	0.42	0.26	36	0.31	0.075
617627	Soil			0.75	27.56	36.37	82.0	48	30.5	21.6	1363	3.77	6.1	0.8	0.4	3.4	7.3	0.12	0.37	0.32	35	0.04	0.043
617628	Soil			0.48	42.46	46.04	108.3	33	37.5	29.4	1127	4.74	6.3	0.6	0.5	5.4	10.2	0.04	0.15	0.58	35	0.06	0.027
617629	Soil			0.72	21.33	21.10	84.2	111	22.2	11.6	552	3.84	5.9	0.6	0.5	2.8	5.8	0.09	0.31	0.37	33	0.02	0.042
617630	Soil			0.64	18.39	25.42	102.8	160	22.8	14.4	694	4.41	5.7	0.5	0.2	3.8	6.7	0.13	0.28	0.38	36	0.03	0.049
617631	Soil			0.79	32.42	31.11	128.9	307	38.4	12.1	345	3.73	8.2	1.0	0.8	6.6	39.7	0.18	0.25	0.34	14	0.39	0.065
617632	Soil			0.46	18.53	41.31	28.5	170	25.4	8.2	967	2.99	35.1	0.9	13.9	2.6	38.1	0.12	3.63	0.33	8	9.02	0.084
617633	Soil			0.11	4.82	15.10	21.2	34	5.5	1.9	1753	1.93	10.7	1.3	5.8	0.2	34.1	0.08	1.11	0.08	<2	17.06	0.076
617634	Soil			0.16	5.85	12.57	15.2	57	4.6	2.2	888	1.03	6.7	1.6	2.8	0.3	32.4	0.10	1.09	0.06	6	13.51	0.098
617635	Soil			0.80	15.42	21.29	85.3	89	16.5	6.8	1938	3.44	10.9	0.9	2.8	0.8	11.7	0.29	1.26	0.22	23	1.69	0.139
617636	Soil			0.38	19.96	29.79	111.5	116	23.9	15.4	2624	4.44	22.4	0.8	5.1	0.9	11.9	0.40	2.13	0.30	16	3.72	0.121
617637	Soil			0.33	34.40	23.46	34.7	39	31.3	18.9	684	3.08	11.3	0.7	1.8	3.3	5.7	0.04	0.56	0.41	12	0.21	0.030



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 12 of 15 Part 2

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	Unit	MDL	1F15 La	1F15 Cr	1F15 Mg	1F15 Ba	1F15 Ti	1F15 B	1F15 Al	1F15 Na	1F15 K	1F15 W	1F15 Sc	1F15 Ti	1F15 S	1F15 Hg	1F15 Se	1F15 Te	1F15 Ga	1F15 Cs	1F15 Ge	1F15 Hf
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
617898	Soil			15.9	16.2	0.20	75.0	0.002	2	0.92	0.003	0.11	<0.1	5.6	0.08	<0.02	15	0.1	0.05	2.6	0.52	<0.1	0.04
617899	Soil			13.2	12.8	0.25	49.4	0.001	3	0.53	0.003	0.13	<0.1	5.2	0.09	0.05	82	0.3	0.07	1.8	0.36	<0.1	0.05
617900	Soil			13.1	23.1	1.33	118.4	0.006	3	1.52	0.007	0.06	0.1	2.3	0.12	0.08	91	0.5	0.06	3.7	1.03	<0.1	0.04
617151	Soil			13.3	15.4	0.61	83.0	0.004	3	0.78	0.005	0.11	<0.1	4.5	0.09	0.02	90	0.2	0.05	2.3	1.28	<0.1	0.06
617152	Soil			1.8	2.9	8.07	30.7	0.004	4	0.20	0.013	0.02	<0.1	0.3	0.13	0.05	33	0.3	<0.02	0.4	0.17	<0.1	<0.02
617153	Soil			3.2	4.7	7.73	111.8	0.002	3	0.17	0.008	0.02	<0.1	1.0	17.73	0.05	149	0.2	0.03	0.5	0.10	<0.1	<0.02
617154	Soil			6.1	6.2	7.66	52.4	0.001	3	0.20	0.011	0.04	<0.1	1.4	7.57	0.05	399	0.4	<0.02	0.5	0.17	<0.1	<0.02
617155	Soil			5.6	8.0	6.97	50.0	0.005	3	0.32	0.009	0.04	<0.1	1.2	0.16	0.03	161	0.5	0.03	0.9	0.22	<0.1	<0.02
617156	Soil			3.9	8.2	7.08	57.6	0.007	2	0.44	0.011	0.04	<0.1	1.1	0.09	0.04	32	0.3	<0.02	1.2	0.46	<0.1	0.02
617617	Soil			5.5	12.2	0.14	89.4	0.001	3	0.92	0.005	0.12	<0.1	4.3	0.14	0.06	60	0.4	0.04	1.9	1.97	<0.1	0.07
617618	Soil			9.5	11.3	0.17	141.0	0.002	5	0.85	0.006	0.18	<0.1	6.6	0.15	0.03	157	0.2	<0.02	2.4	2.99	<0.1	0.06
617619	Soil			4.6	7.7	7.02	75.9	0.004	3	0.42	0.011	0.03	<0.1	0.7	0.08	0.07	86	0.4	0.04	1.1	0.33	<0.1	<0.02
617620	Soil			6.9	11.2	5.13	86.1	0.006	3	0.49	0.009	0.06	<0.1	1.7	0.09	0.04	143	0.3	<0.02	1.3	0.27	<0.1	0.03
617621	Soil			4.5	6.2	7.87	45.3	0.002	4	0.26	0.012	0.05	<0.1	0.8	0.07	0.05	110	0.3	0.05	0.8	0.16	<0.1	0.02
617622	Soil			5.3	7.0	7.46	76.6	0.002	3	0.35	0.011	0.02	<0.1	0.5	0.04	0.07	102	0.5	0.03	0.9	0.25	<0.1	<0.02
617623	Soil			6.5	10.4	5.51	53.5	0.002	4	0.47	0.010	0.09	<0.1	2.4	0.10	0.04	202	0.2	0.05	1.4	0.24	<0.1	0.06
617624	Soil			5.2	8.0	6.04	44.5	0.003	4	0.42	0.011	0.05	<0.1	1.2	0.04	0.06	69	0.3	<0.02	1.2	0.33	<0.1	0.04
617625	Soil			8.2	31.2	0.38	70.2	0.013	1	1.73	0.009	0.10	<0.1	2.7	0.11	0.05	75	0.4	0.03	6.2	2.52	<0.1	<0.02
617626	Soil			6.5	28.5	0.48	208.8	0.009	3	1.82	0.009	0.14	0.1	3.9	0.15	0.07	43	0.2	0.08	5.3	3.39	<0.1	<0.02
617627	Soil			6.8	35.2	0.46	99.0	0.007	2	1.83	0.007	0.13	<0.1	3.4	0.13	0.04	39	0.2	0.05	6.5	2.95	<0.1	0.03
617628	Soil			8.0	42.6	0.72	93.4	0.002	<1	2.19	0.009	0.10	<0.1	4.8	0.05	<0.02	21	0.1	0.03	8.9	3.40	<0.1	0.05
617629	Soil			7.2	35.0	0.39	86.2	0.004	<1	1.80	0.006	0.14	<0.1	2.5	0.12	0.03	31	0.2	0.03	7.3	1.79	<0.1	0.05
617630	Soil			6.4	37.6	0.40	90.4	0.004	2	2.15	0.005	0.17	<0.1	2.7	0.14	0.02	36	0.2	0.03	8.2	1.77	<0.1	0.06
617631	Soil			8.9	14.5	0.22	102.9	0.002	5	0.90	0.006	0.15	<0.1	5.5	0.15	0.03	53	0.7	0.03	2.4	2.03	<0.1	0.06
617632	Soil			5.5	8.0	4.80	27.8	0.001	3	0.26	0.007	0.07	<0.1	3.5	0.11	<0.02	237	0.7	<0.02	0.7	0.59	<0.1	0.04
617633	Soil			2.0	3.3	9.14	33.8	0.002	4	0.14	0.010	0.01	<0.1	0.5	0.11	<0.02	50	0.5	0.02	0.3	0.12	<0.1	0.02
617634	Soil			2.4	3.6	9.23	32.2	0.003	3	0.22	0.014	0.03	<0.1	0.6	0.06	0.07	32	0.4	0.04	0.5	0.19	<0.1	0.03
617635	Soil			10.3	19.5	0.85	103.1	0.007	3	1.19	0.005	0.04	<0.1	1.4	0.10	0.09	71	0.4	0.03	2.7	0.70	<0.1	0.04
617636	Soil			16.3	12.2	1.87	108.9	0.003	4	0.72	0.004	0.05	<0.1	2.8	0.13	0.07	245	0.3	0.03	1.6	0.34	<0.1	0.05
617637	Soil			8.0	9.7	0.10	68.6	0.002	2	0.48	0.001	0.13	<0.1	4.5	0.09	<0.02	37	<0.1	0.04	1.6	1.32	<0.1	0.04



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 12 of 15 Part 3

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
617898	Soil	0.14	7.7	0.9	<0.05	1.3	9.98	41.5	0.04	<1	0.9	5.9	<10	<2
617899	Soil	0.10	5.5	0.5	<0.05	1.6	12.25	29.9	0.04	<1	0.7	2.4	<10	<2
617900	Soil	0.26	8.3	0.7	<0.05	1.2	12.54	25.5	0.03	<1	1.0	17.6	<10	<2
617151	Soil	0.21	7.4	0.9	<0.05	2.0	13.64	22.9	0.03	<1	1.4	5.9	<10	<2
617152	Soil	0.04	1.6	1.1	<0.05	0.5	2.66	3.9	<0.02	<1	0.1	1.2	<10	<2
617153	Soil	0.03	1.1	1.2	<0.05	0.6	5.37	6.8	<0.02	<1	0.5	1.0	<10	<2
617154	Soil	0.02	1.7	1.3	<0.05	0.5	8.23	11.0	<0.02	<1	0.4	1.0	<10	<2
617155	Soil	0.08	2.2	1.2	<0.05	0.6	8.08	12.2	<0.02	<1	0.3	2.7	<10	<2
617156	Soil	0.12	3.8	0.9	<0.05	0.5	5.41	9.3	<0.02	<1	0.4	4.0	<10	<2
617617	Soil	0.11	7.7	0.8	<0.05	2.7	12.82	17.5	0.05	<1	1.1	13.0	<10	<2
617618	Soil	0.06	12.2	0.9	<0.05	4.6	16.07	29.8	0.03	<1	1.3	13.8	<10	<2
617619	Soil	0.08	2.8	1.8	<0.05	0.5	7.58	9.4	<0.02	<1	0.3	2.7	<10	<2
617620	Soil	0.14	3.0	1.2	<0.05	0.9	12.70	14.5	<0.02	<1	0.4	2.7	<10	<2
617621	Soil	0.04	2.1	1.1	<0.05	0.9	9.50	10.1	<0.02	<1	0.2	1.5	<10	<2
617622	Soil	0.04	2.3	1.2	<0.05	0.4	7.44	10.3	<0.02	<1	0.3	2.2	<10	<2
617623	Soil	0.06	3.7	1.2	<0.05	1.5	8.66	13.3	0.02	<1	0.4	2.7	<10	<2
617624	Soil	0.07	3.3	2.1	<0.05	0.7	7.27	10.8	<0.02	<1	0.3	3.0	<10	<2
617625	Soil	0.58	14.6	1.4	<0.05	0.4	4.79	19.3	0.03	<1	1.0	22.7	<10	<2
617626	Soil	0.41	17.9	2.7	<0.05	0.8	16.46	26.1	0.04	<1	2.7	21.3	<10	<2
617627	Soil	0.45	17.0	1.7	<0.05	0.9	5.46	22.0	0.03	<1	1.2	31.7	<10	<2
617628	Soil	0.11	12.0	1.2	<0.05	2.0	6.05	22.8	0.06	<1	1.8	39.5	<10	<2
617629	Soil	0.42	17.9	1.1	<0.05	1.2	4.06	17.3	0.03	<1	0.8	27.5	<10	<2
617630	Soil	0.57	24.1	1.7	<0.05	1.6	3.44	15.5	0.04	<1	1.0	40.0	<10	<2
617631	Soil	0.08	10.0	0.6	<0.05	4.4	15.34	22.8	0.04	<1	1.0	19.1	<10	<2
617632	Soil	0.04	2.7	0.7	<0.05	1.6	11.18	15.9	0.05	<1	0.6	1.6	<10	<2
617633	Soil	<0.02	0.9	0.6	<0.05	0.8	5.16	4.5	<0.02	<1	0.2	1.2	<10	<2
617634	Soil	0.04	1.9	0.4	<0.05	0.9	5.36	5.1	<0.02	<1	0.2	1.6	<10	<2
617635	Soil	0.24	6.1	0.8	<0.05	1.0	10.76	19.0	0.03	<1	0.9	8.0	<10	<2
617636	Soil	0.09	4.4	1.0	<0.05	1.3	20.04	33.9	0.04	<1	0.7	3.1	<10	<2
617637	Soil	0.07	6.8	0.5	<0.05	1.2	11.88	21.3	0.03	<1	1.1	3.0	<10	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 13 of 15 Part 1

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
617638	Soil			0.66	18.81	14.62	88.9	122	17.6	7.7	490	2.67	10.4	0.7	3.5	1.3	16.6	0.24	0.81	0.25	29	2.34	0.110
617639	Soil			0.71	54.52	31.43	75.3	52	26.9	14.6	3874	3.33	3.5	1.1	1.4	1.8	8.0	0.30	0.51	0.30	36	0.17	0.072
617640	Soil			0.64	26.16	22.21	73.1	32	26.2	13.8	699	3.71	4.6	0.7	1.5	2.5	4.7	0.09	0.40	0.31	39	0.04	0.038
617641	Soil			0.96	26.95	16.77	62.4	30	14.9	7.7	330	3.07	5.9	0.6	1.2	2.5	7.1	0.07	0.37	0.39	39	0.02	0.051
617642	Soil			0.59	29.49	38.42	90.7	55	24.4	22.1	1000	4.16	5.6	0.7	1.1	4.1	8.2	0.14	0.24	0.41	34	0.04	0.039
617643	Soil			0.50	21.45	46.03	121.7	48	21.6	21.1	1357	2.97	4.7	0.5	0.7	3.8	7.9	0.19	0.24	0.40	26	0.07	0.047
1266401	Soil			0.22	22.99	39.20	95.7	66	18.9	10.3	974	2.69	19.4	2.1	9.2	3.5	30.8	0.17	2.63	0.25	5	11.81	0.147
1266402	Soil			0.27	14.29	35.04	40.1	157	12.4	4.2	3675	4.47	15.4	1.9	22.9	0.5	22.0	0.22	3.13	0.13	6	9.75	0.226
1266403	Soil			0.04	2.64	5.20	35.2	8	8.3	2.9	1176	0.86	2.9	0.9	1.6	0.4	43.0	0.22	0.40	0.02	<2	18.89	0.034
1266404	Soil			0.76	17.87	34.18	35.4	169	24.4	7.4	2229	3.89	22.6	1.5	5.1	1.8	13.6	0.14	2.66	0.19	7	3.60	0.124
1266405	Soil			0.38	26.22	38.97	107.5	230	38.0	15.5	868	4.48	13.0	0.9	1.3	7.8	70.9	0.17	0.64	0.40	13	1.14	0.187
1266406	Soil			0.31	26.36	34.56	126.5	156	40.8	15.8	568	3.87	12.6	0.7	1.8	6.2	51.6	0.11	0.83	0.37	10	0.48	0.035
1266407	Soil			0.81	61.50	55.85	226.3	343	138.3	22.3	2782	7.00	8.2	4.0	1.5	9.0	168.5	0.95	0.38	0.32	13	0.83	0.244
1266408	Soil			0.63	38.32	51.41	71.1	562	42.2	14.0	392	3.89	10.2	1.0	1.8	3.4	60.6	0.19	0.42	0.41	9	1.12	0.069
1266409	Soil			0.57	35.64	47.77	112.0	342	50.4	18.3	719	4.66	7.8	1.1	1.0	4.0	55.7	0.14	0.30	0.38	15	0.91	0.226
617365	Soil			0.29	6.81	14.64	228.4	57	6.4	3.0	1821	1.68	5.3	0.9	1.6	0.1	42.6	0.44	0.71	0.07	4	12.99	0.123
617366	Soil			0.06	1.57	7.06	21.2	7	2.3	0.9	509	0.68	5.2	0.8	1.5	0.3	18.6	0.01	0.78	<0.02	<2	10.41	0.044
617367	Soil			0.15	4.95	8.08	51.2	44	3.9	2.4	852	1.03	4.7	0.5	1.5	0.2	31.2	0.12	0.82	0.14	4	14.09	0.053
617368	Soil			0.48	17.97	20.60	93.8	88	18.6	9.4	1127	2.79	12.1	0.6	3.8	1.1	21.3	0.20	1.16	0.23	21	5.20	0.108
617369	Soil			1.25	18.55	16.03	107.9	313	28.2	10.2	1574	3.03	12.1	0.8	4.0	2.3	21.3	0.50	1.07	0.20	43	3.08	0.066
617370	Soil			0.51	29.18	20.21	54.2	95	28.4	16.2	902	3.00	11.2	0.6	2.7	3.4	7.0	0.16	0.82	0.28	18	0.43	0.056
617371	Soil			0.56	27.97	17.60	79.4	102	21.0	23.0	1469	3.71	3.7	0.6	0.8	1.1	5.1	0.14	0.29	0.44	32	0.13	0.096
617372	Soil			0.38	25.44	20.47	93.2	28	37.3	19.5	878	4.52	1.0	0.7	1.5	3.6	4.2	0.11	0.26	0.30	38	0.03	0.049
617373	Soil			0.74	25.16	33.46	66.4	108	19.4	23.4	3420	4.55	3.5	0.7	1.2	0.8	5.4	0.23	0.33	0.31	37	0.05	0.071
617374	Soil			0.52	30.17	29.87	92.8	64	29.0	19.8	1111	3.78	5.1	0.6	0.7	3.4	11.6	0.09	0.27	0.39	31	0.09	0.041
617375	Soil			1.05	18.39	24.12	100.9	77	16.4	10.3	816	5.14	6.8	0.6	0.5	1.7	6.1	0.19	0.46	0.39	48	0.05	0.062
617376	Soil			1.08	30.34	23.83	98.6	70	13.9	13.8	1401	5.16	6.2	0.6	1.5	2.7	4.9	0.16	0.39	0.48	49	0.04	0.063
617378	Soil			0.78	16.36	20.59	84.2	150	17.4	12.0	556	4.08	5.3	0.5	0.8	3.7	6.9	0.14	0.34	0.36	45	0.05	0.033
617379	Soil			1.59	56.81	20.75	42.5	70	53.7	24.7	682	3.44	41.6	1.0	1.9	3.2	9.9	0.07	1.45	0.48	13	0.66	0.032
617380	Soil			1.23	47.86	37.39	145.8	182	42.4	31.1	1228	3.77	16.8	1.2	3.9	3.5	15.7	0.25	0.78	0.39	29	0.69	0.058



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 13 of 15 Part 2

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	
617638	Soil	10.3	18.6	1.41	81.9	0.011	3	1.08	0.007	0.07	<0.1	2.6	0.08	0.05	83	0.2	<0.02	2.9	0.64	<0.1	0.05
617639	Soil	7.7	30.7	0.38	165.6	0.009	2	1.77	0.004	0.09	0.2	3.2	0.13	0.05	43	0.3	0.06	4.6	2.94	<0.1	0.02
617640	Soil	4.0	34.0	0.44	129.3	0.009	2	1.95	0.003	0.12	0.1	2.7	0.16	0.03	35	0.3	<0.02	6.3	2.87	<0.1	0.02
617641	Soil	7.1	28.6	0.22	54.1	0.003	1	1.69	0.003	0.08	<0.1	2.4	0.13	0.03	23	0.3	0.04	7.0	2.01	<0.1	0.05
617642	Soil	7.3	36.8	0.35	102.8	0.003	<1	2.06	0.003	0.12	<0.1	3.3	0.10	<0.02	31	0.2	<0.02	7.6	2.04	<0.1	0.05
617643	Soil	5.6	26.7	0.33	156.8	0.003	2	1.82	0.001	0.19	<0.1	2.5	0.15	0.02	37	<0.1	<0.02	6.6	1.90	<0.1	0.04
1266401	Soil	4.0	6.8	6.04	20.8	<0.001	3	0.28	0.008	0.08	<0.1	2.4	0.12	<0.02	322	0.5	0.05	0.8	0.34	<0.1	0.02
1266402	Soil	5.4	9.4	5.19	106.6	0.004	4	0.45	0.012	0.05	<0.1	0.8	0.11	0.06	181	0.4	0.06	1.1	0.29	<0.1	0.03
1266403	Soil	1.6	2.5	9.70	8.5	<0.001	1	0.09	0.008	0.02	<0.1	1.0	0.03	<0.02	27	0.3	<0.02	0.1	0.06	<0.1	<0.02
1266404	Soil	7.8	8.0	1.78	37.8	0.001	3	0.35	0.005	0.06	<0.1	2.8	0.08	0.03	254	0.6	<0.02	0.9	0.28	<0.1	0.06
1266405	Soil	22.4	18.9	0.33	69.3	0.003	4	1.28	0.006	0.13	<0.1	7.3	0.20	0.03	143	0.3	<0.02	3.1	2.29	<0.1	0.06
1266406	Soil	12.0	16.6	0.33	55.8	0.003	2	1.18	0.003	0.10	<0.1	6.4	0.20	0.03	181	0.2	<0.02	3.2	2.47	<0.1	0.06
1266407	Soil	11.5	22.6	0.19	246.0	0.001	3	5.24	0.011	0.09	<0.1	13.4	0.39	0.14	583	0.5	<0.02	2.2	2.89	<0.1	0.17
1266408	Soil	9.4	7.8	0.09	54.2	0.001	2	0.56	0.005	0.07	<0.1	4.5	0.11	0.06	263	0.4	0.07	0.8	0.96	<0.1	0.07
1266409	Soil	8.2	11.7	0.13	93.7	<0.001	4	0.92	0.009	0.12	<0.1	7.2	0.18	0.06	450	0.3	0.05	1.4	2.40	<0.1	0.08
617365	Soil	3.6	5.2	6.78	43.6	0.004	5	0.29	0.015	0.03	<0.1	0.5	0.05	0.04	274	0.5	<0.02	0.6	0.23	<0.1	<0.02
617366	Soil	<0.5	1.1	5.93	13.5	<0.001	<1	0.04	0.005	<0.01	<0.1	0.2	0.04	<0.02	50	0.2	<0.02	0.1	0.03	<0.1	<0.02
617367	Soil	1.9	3.1	7.55	25.9	0.003	4	0.18	0.011	0.02	<0.1	0.6	0.03	<0.02	55	0.4	<0.02	0.3	0.13	<0.1	<0.02
617368	Soil	8.6	15.4	3.18	68.0	0.006	3	1.04	0.007	0.06	<0.1	2.3	0.09	0.04	91	0.4	0.04	2.5	0.70	<0.1	0.06
617369	Soil	15.2	23.5	2.07	202.6	0.017	3	1.41	0.010	0.07	0.2	3.2	0.13	0.03	97	0.4	<0.02	3.5	1.10	<0.1	0.04
617370	Soil	7.0	17.2	0.43	101.1	0.005	3	1.10	0.003	0.14	<0.1	4.2	0.11	0.02	38	0.2	0.04	3.2	2.19	<0.1	0.07
617371	Soil	3.6	30.2	0.38	103.9	0.012	2	1.81	0.005	0.20	<0.1	1.9	0.20	0.07	70	0.5	0.03	7.5	3.96	<0.1	0.02
617372	Soil	3.8	44.5	0.70	147.6	0.013	2	2.54	0.003	0.23	<0.1	3.3	0.20	0.03	28	0.2	0.02	8.8	3.81	<0.1	0.09
617373	Soil	4.8	34.7	0.29	158.3	0.012	2	1.86	0.004	0.17	<0.1	1.8	0.15	0.06	57	0.4	0.02	8.5	2.11	<0.1	<0.02
617374	Soil	6.6	34.8	0.45	111.9	0.006	1	1.95	0.006	0.15	<0.1	3.2	0.11	0.03	29	0.1	<0.02	7.3	2.29	<0.1	0.03
617375	Soil	6.3	33.9	0.29	80.6	0.014	1	1.71	0.004	0.15	0.1	2.2	0.11	0.04	38	0.3	0.03	9.4	2.07	<0.1	<0.02
617376	Soil	5.4	32.0	0.18	75.0	0.005	<1	1.72	0.005	0.10	<0.1	2.6	0.12	0.03	39	0.3	0.04	10.7	2.08	<0.1	0.03
617378	Soil	8.2	31.2	0.29	127.8	0.005	1	2.03	0.003	0.13	<0.1	2.3	0.12	<0.02	29	0.1	0.03	8.2	1.36	<0.1	0.02
617379	Soil	7.0	9.3	0.10	68.8	<0.001	3	0.46	0.003	0.15	<0.1	6.1	0.14	<0.02	209	<0.1	0.10	1.4	1.22	<0.1	0.03
617380	Soil	10.3	27.9	0.53	135.4	0.006	4	1.47	0.005	0.19	<0.1	5.4	0.24	0.03	101	0.4	0.02	5.1	3.06	<0.1	0.08



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6C 2G8 Canada

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Page: 13 of 15 Part 3

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
617638	Soil			0.36	6.8	1.1	<0.05	1.3	10.02	18.3	0.02	<1	0.6	8.7	<10	<2
617639	Soil			0.30	15.1	1.5	<0.05	0.5	14.92	18.8	0.03	<1	2.2	16.9	<10	<2
617640	Soil			0.53	20.8	1.0	<0.05	0.8	4.71	10.2	0.03	<1	1.3	26.6	<10	<2
617641	Soil			0.46	16.2	1.6	<0.05	1.6	4.36	16.5	0.03	<1	0.6	15.1	<10	<2
617642	Soil			0.27	14.4	0.9	<0.05	2.2	5.07	20.2	0.04	<1	1.5	33.6	<10	<2
617643	Soil			0.19	22.4	1.0	<0.05	1.4	4.06	14.4	0.03	<1	1.2	26.5	<10	<2
1266401	Soil			0.03	2.5	1.8	<0.05	1.7	8.05	8.5	<0.02	<1	0.3	1.2	<10	<2
1266402	Soil			0.06	3.5	0.8	<0.05	1.0	11.97	10.7	<0.02	<1	0.4	2.2	<10	<2
1266403	Soil			<0.02	0.6	0.6	<0.05	0.6	8.56	6.9	<0.02	<1	0.1	0.8	<10	<2
1266404	Soil			0.03	2.9	0.9	<0.05	1.5	12.67	20.4	0.02	<1	0.4	1.4	<10	<2
1266405	Soil			0.14	10.9	1.0	<0.05	3.9	23.92	57.1	0.04	<1	1.5	26.5	<10	<2
1266406	Soil			0.19	9.1	1.1	<0.05	2.3	18.14	33.6	0.04	2	1.3	33.2	<10	<2
1266407	Soil			0.04	7.6	1.6	<0.05	9.7	42.05	42.2	0.06	<1	3.0	240.2	<10	<2
1266408	Soil			0.06	4.9	0.6	<0.05	2.7	18.58	24.7	0.06	<1	1.2	4.5	<10	<2
1266409	Soil			0.02	9.0	0.9	<0.05	3.5	23.92	23.3	0.05	<1	1.7	10.5	<10	<2
617365	Soil			0.06	2.1	1.2	<0.05	0.5	5.66	7.3	<0.02	<1	0.4	1.9	<10	<2
617366	Soil			<0.02	0.2	0.5	<0.05	0.6	1.62	1.5	<0.02	<1	0.1	0.2	<10	<2
617367	Soil			0.06	1.2	0.9	<0.05	0.7	3.75	3.9	<0.02	<1	0.2	0.9	<10	<2
617368	Soil			0.19	6.3	0.8	<0.05	1.8	10.50	15.9	0.03	<1	0.9	6.6	<10	<2
617369	Soil			0.36	9.6	0.8	<0.05	1.0	11.12	28.1	0.02	1	0.8	11.5	<10	<2
617370	Soil			0.19	10.1	1.2	<0.05	2.3	10.99	16.8	0.03	<1	1.2	11.0	<10	<2
617371	Soil			0.39	36.6	3.3	<0.05	0.6	3.09	9.4	0.04	<1	0.7	16.8	<10	<2
617372	Soil			0.63	30.9	1.6	<0.05	2.1	3.88	10.4	0.04	<1	1.6	36.3	<10	<2
617373	Soil			0.40	25.0	1.5	<0.05	0.3	3.91	11.8	0.03	<1	0.8	13.0	<10	<2
617374	Soil			0.39	16.2	1.0	<0.05	0.9	4.13	17.1	0.03	<1	1.2	30.3	<10	<2
617375	Soil			0.68	21.5	1.5	<0.05	0.2	2.86	13.8	0.03	<1	0.6	16.5	<10	<2
617376	Soil			0.48	23.0	2.0	<0.05	0.7	3.76	12.4	0.05	<1	0.5	8.3	<10	<2
617378	Soil			0.64	22.5	1.5	<0.05	1.0	2.69	17.3	0.03	<1	0.7	35.5	<10	<2
617379	Soil			0.04	6.0	0.7	<0.05	1.1	10.19	14.8	0.04	<1	1.5	2.2	<10	2
617380	Soil			0.21	15.3	1.9	<0.05	2.0	15.08	23.1	0.04	<1	1.5	17.2	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 14 of 15 Part 1

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
617381	Soil			0.42	16.65	29.48	60.2	39	21.7	19.8	3051	3.35	1.8	0.6	1.5	1.9	3.1	0.15	0.41	0.37	32	0.04	0.061
617382	Soil			0.56	21.04	16.63	75.3	34	13.2	11.8	1378	3.44	2.4	0.5	1.1	1.7	3.6	0.21	0.29	0.25	30	0.06	0.063
617383	Soil			0.45	34.19	47.49	80.9	46	35.3	33.2	1397	3.99	4.8	0.8	1.2	3.8	13.0	0.07	0.15	0.39	28	0.08	0.034
617384	Soil			0.55	22.60	24.26	92.9	41	24.1	22.0	2136	4.07	2.9	0.5	0.7	2.2	6.1	0.28	0.28	0.32	34	0.05	0.050
617385	Soil			0.39	21.21	19.54	98.3	105	17.6	17.0	866	4.26	2.9	0.4	0.9	1.3	6.1	0.24	0.21	0.33	35	0.06	0.058
617386	Soil			0.41	22.79	19.49	87.9	68	17.6	11.6	517	4.77	5.3	0.5	0.9	3.0	4.5	0.28	0.16	0.39	35	0.02	0.044
617387	Soil			0.39	30.83	26.44	84.3	28	27.3	15.9	498	4.38	4.0	0.6	0.5	3.8	4.3	0.07	0.14	0.33	34	0.03	0.030
617388	Soil			0.73	27.81	25.38	81.9	35	26.1	17.6	673	4.04	6.1	0.5	0.3	3.5	5.3	0.07	0.32	0.34	32	0.02	0.028
617389	Soil			0.56	27.64	34.94	82.4	52	26.4	23.2	1572	3.71	6.2	0.5	0.6	2.9	4.9	0.06	0.23	0.39	19	0.05	0.031
617390	Soil			0.36	21.26	24.84	108.0	59	29.9	17.1	575	4.09	2.1	0.6	<0.2	3.9	7.8	0.05	0.12	0.30	35	0.11	0.049
617391	Soil			0.14	8.09	21.07	31.3	73	6.5	3.5	2452	2.98	18.5	1.2	7.9	0.6	31.1	0.13	1.62	<0.02	3	14.45	0.136
617392	Soil			0.14	5.37	11.67	18.6	41	4.5	3.0	2221	1.92	6.8	0.8	1.7	0.3	27.9	0.12	0.83	<0.02	4	15.85	0.115
617393	Soil			0.61	17.02	38.80	32.9	127	16.5	5.8	109	1.55	12.1	0.8	0.4	3.8	8.6	0.02	1.92	0.33	6	0.28	0.025
617394	Soil			0.47	14.60	26.94	54.2	106	21.2	6.8	1075	2.63	19.2	1.4	2.9	2.4	24.7	0.12	2.15	0.16	10	7.64	0.120
617395	Soil			0.84	23.09	24.18	99.4	213	29.0	10.5	593	3.30	12.1	1.4	0.7	1.6	77.7	0.27	0.76	0.25	22	1.49	0.100
617396	Soil			0.73	29.55	37.60	123.5	201	38.3	13.9	428	3.67	10.2	1.0	1.3	3.7	58.7	0.16	0.60	0.31	10	2.02	0.073
617397	Soil			0.98	23.07	25.79	98.9	119	23.2	9.9	368	3.67	9.3	0.4	<0.2	0.4	9.5	0.13	0.50	0.34	26	0.10	0.057
617398	Soil			0.99	35.51	49.51	224.2	98	55.9	36.2	1463	5.04	8.6	1.0	0.4	2.1	9.6	0.19	0.42	0.34	15	0.03	0.098
617399	Soil			0.90	49.63	57.86	127.8	183	47.2	23.1	709	6.56	11.0	1.0	0.2	4.9	15.9	0.15	0.50	0.37	19	0.04	0.079
617400	Soil			0.55	27.22	18.96	56.2	57	28.6	15.3	643	2.73	23.6	1.0	2.8	1.4	10.5	0.11	1.69	0.28	18	1.80	0.064
617439	Soil			0.41	29.25	40.59	87.6	113	27.9	13.2	557	4.14	7.1	0.7	<0.2	3.4	15.4	0.10	0.25	0.26	10	0.15	0.043
617440	Soil			0.50	39.96	39.34	155.8	169	62.2	29.1	1471	4.60	5.6	0.9	<0.2	6.3	73.7	0.28	0.29	0.29	8	1.14	0.049
617441	Soil			0.58	29.44	39.31	131.0	134	44.9	19.4	607	4.39	6.4	1.0	<0.2	4.6	13.6	0.20	0.27	0.29	13	0.09	0.051
617442	Soil			0.31	21.45	30.55	115.9	91	28.7	14.2	811	3.97	6.2	0.7	<0.2	3.3	39.7	0.14	0.18	0.33	11	0.34	0.073
617443	Soil			0.54	21.88	37.70	123.5	176	28.6	10.9	1306	4.01	16.2	1.1	1.7	1.4	40.3	0.27	1.12	0.26	14	3.07	0.116
617444	Soil			0.80	15.40	26.97	130.8	127	17.9	7.8	4521	6.85	33.3	1.6	3.7	0.9	12.2	0.71	1.72	0.14	23	1.97	0.190
617445	Soil			0.05	1.51	3.69	7.8	11	0.9	0.9	741	0.72	5.0	0.8	<0.2	0.2	36.9	0.05	0.40	<0.02	<2	16.23	0.045
617446	Soil			0.46	14.85	25.89	50.3	149	13.2	5.9	4269	6.07	22.6	1.8	3.0	0.7	18.8	0.28	1.74	0.08	11	6.69	0.185
617447	Soil			0.13	3.91	8.35	19.4	29	2.7	2.0	2219	1.81	5.1	0.9	<0.2	0.2	30.9	0.14	0.65	<0.02	3	16.61	0.104
617448	Soil			0.19	4.72	10.49	25.7	31	4.6	2.8	1428	1.28	10.8	0.9	0.6	0.2	33.9	0.11	1.51	<0.02	4	15.43	0.102



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Project: Scarlet
 Report Date: November 01, 2011

Page: 14 of 15 Part 2

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
617381	Soil	1.6	28.5	0.29	122.6	0.008	2	1.33	0.004	0.12	0.2	2.0	0.17	0.05	49	0.2	0.06	4.5	2.08	<0.1	0.03
617382	Soil	2.9	29.0	0.22	86.1	0.005	1	1.46	0.003	0.11	<0.1	1.9	0.13	0.04	36	0.3	0.04	6.2	2.35	<0.1	0.03
617383	Soil	7.0	40.0	0.67	106.1	0.004	<1	2.02	0.004	0.09	<0.1	5.7	0.13	<0.02	21	0.1	<0.02	7.9	2.49	<0.1	0.06
617384	Soil	3.9	31.5	0.32	239.0	0.009	1	1.74	0.003	0.19	<0.1	2.5	0.17	0.02	28	0.2	0.06	7.7	1.57	<0.1	0.03
617385	Soil	4.3	33.9	0.29	114.2	0.007	<1	1.58	0.004	0.18	<0.1	2.0	0.12	0.02	18	0.2	0.05	8.2	1.86	<0.1	<0.02
617386	Soil	4.3	35.6	0.28	57.8	0.003	<1	1.80	0.003	0.07	<0.1	2.6	0.09	0.02	43	0.3	0.03	8.2	1.86	<0.1	0.04
617387	Soil	4.8	39.1	0.38	79.1	0.002	<1	2.14	0.002	0.08	<0.1	3.8	0.11	<0.02	23	0.1	0.02	8.0	2.62	<0.1	0.06
617388	Soil	5.4	35.0	0.35	71.9	0.004	<1	1.86	0.001	0.09	<0.1	3.1	0.12	<0.02	25	0.3	0.04	6.7	2.53	<0.1	0.03
617389	Soil	3.2	24.4	0.29	106.7	0.001	1	1.86	<0.001	0.11	<0.1	4.5	0.18	<0.02	34	0.2	0.05	5.2	2.26	<0.1	0.06
617390	Soil	6.5	43.6	0.60	264.6	0.010	1	2.10	0.001	0.22	<0.1	2.9	0.19	0.02	21	0.1	0.03	8.6	2.49	<0.1	0.03
617391	Soil	3.0	4.1	7.80	42.3	0.002	3	0.18	0.010	0.02	<0.1	0.8	0.06	0.04	102	0.6	0.05	0.5	0.10	<0.1	0.04
617392	Soil	3.9	4.6	8.88	51.6	0.003	3	0.23	0.010	0.02	<0.1	0.5	0.08	0.04	77	0.4	0.04	0.5	0.13	<0.1	<0.02
617393	Soil	4.1	6.6	0.16	8.8	<0.001	<1	0.17	0.003	0.08	<0.1	2.1	0.09	0.10	329	0.3	0.03	0.9	0.27	<0.1	0.05
617394	Soil	4.0	10.0	3.89	29.6	0.002	2	0.30	0.005	0.06	<0.1	2.9	0.10	0.03	172	0.4	0.03	1.0	0.20	<0.1	0.04
617395	Soil	15.9	15.7	0.23	205.0	0.004	2	1.03	0.004	0.05	<0.1	2.6	0.11	0.07	116	0.8	0.03	2.6	0.50	<0.1	0.05
617396	Soil	6.9	13.1	0.88	113.7	0.002	3	0.79	0.004	0.09	<0.1	4.3	0.16	0.04	96	0.5	0.03	2.1	1.49	<0.1	0.07
617397	Soil	3.4	10.8	0.06	67.1	0.005	2	0.59	0.003	0.08	<0.1	0.9	0.12	0.04	27	0.3	0.08	3.0	1.91	<0.1	<0.02
617398	Soil	3.0	13.1	0.09	75.3	0.003	1	1.31	0.001	0.06	<0.1	3.3	0.18	0.07	48	0.5	0.07	2.3	2.88	<0.1	0.07
617399	Soil	3.3	23.1	0.18	79.9	0.003	2	1.66	0.002	0.07	<0.1	6.6	0.22	0.06	35	0.5	0.08	3.1	5.15	<0.1	0.05
617400	Soil	6.8	13.1	0.87	45.3	0.002	3	0.55	0.002	0.09	<0.1	4.1	0.08	0.04	62	0.3	0.05	1.7	0.19	<0.1	0.09
617439	Soil	6.1	12.7	0.15	104.8	0.001	2	0.87	0.002	0.08	<0.1	3.5	0.17	0.02	24	0.3	0.03	2.1	2.03	<0.1	0.05
617440	Soil	6.5	13.9	0.26	147.0	0.002	3	1.06	0.004	0.09	<0.1	5.3	0.22	0.17	38	0.5	0.04	2.1	1.88	<0.1	0.08
617441	Soil	7.3	16.2	0.23	131.8	0.003	2	1.37	0.003	0.09	<0.1	4.0	0.19	0.03	35	0.4	<0.02	2.8	2.66	<0.1	0.07
617442	Soil	11.8	15.4	0.20	161.4	0.003	2	1.21	0.003	0.11	<0.1	4.2	0.15	0.03	29	0.3	0.04	3.4	1.97	<0.1	0.06
617443	Soil	9.8	13.1	1.41	95.7	0.002	4	0.80	0.006	0.08	<0.1	2.8	0.15	0.08	315	0.6	0.06	2.0	0.97	<0.1	0.05
617444	Soil	8.2	18.5	0.56	165.3	0.006	3	1.17	0.008	0.04	<0.1	1.6	0.15	0.17	252	0.6	0.07	2.8	0.63	<0.1	0.07
617445	Soil	1.1	1.5	9.23	26.8	0.002	2	0.08	0.011	<0.01	<0.1	0.3	0.05	<0.02	33	0.3	<0.02	0.2	0.07	<0.1	0.02
617446	Soil	7.5	11.2	3.41	100.9	0.005	3	0.79	0.009	0.03	<0.1	1.2	0.11	0.10	219	0.6	0.08	1.5	0.28	<0.1	0.03
617447	Soil	3.2	3.4	9.33	73.1	0.002	3	0.23	0.013	0.02	<0.1	0.4	0.07	0.04	31	0.5	<0.02	0.6	0.11	<0.1	<0.02
617448	Soil	2.3	3.7	8.60	57.5	0.003	3	0.22	0.012	0.02	<0.1	0.4	0.13	0.04	52	0.4	<0.02	0.5	0.12	<0.1	<0.02



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Project: Scarlet
 Report Date: November 01, 2011

Page: 14 of 15 Part 3

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
617381	Soil	0.49	15.6	1.1	<0.05	0.6	2.56	6.2	0.04	<1	0.9	11.1	<10	<2
617382	Soil	0.47	18.6	1.3	<0.05	0.8	2.66	7.8	0.03	<1	0.7	14.0	<10	<2
617383	Soil	0.14	10.5	1.4	<0.05	1.5	9.15	34.6	0.04	<1	1.4	36.7	<10	3
617384	Soil	0.71	25.7	1.4	<0.05	0.7	3.16	10.5	0.04	<1	1.0	19.3	<10	<2
617385	Soil	0.41	21.3	1.3	<0.05	0.2	2.94	10.9	0.04	2	0.7	15.1	<10	<2
617386	Soil	0.39	15.4	1.1	<0.05	1.6	3.50	10.9	0.04	<1	0.8	18.3	<10	<2
617387	Soil	0.22	14.5	1.9	<0.05	2.0	4.66	14.1	0.05	<1	1.4	36.8	<10	<2
617388	Soil	0.34	13.5	0.9	<0.05	1.9	4.10	14.8	0.04	<1	1.0	34.4	<10	<2
617389	Soil	0.13	17.1	1.3	<0.05	1.9	6.04	12.6	0.03	<1	1.6	28.4	<10	<2
617390	Soil	0.71	25.6	3.1	<0.05	1.2	5.07	21.6	0.04	<1	1.2	40.2	<10	<2
617391	Soil	0.04	1.1	1.2	<0.05	1.4	7.21	7.0	<0.02	<1	0.2	1.0	<10	<2
617392	Soil	0.03	1.4	1.6	<0.05	0.6	6.99	7.6	<0.02	<1	0.2	1.6	<10	<2
617393	Soil	<0.02	3.4	1.2	<0.05	3.1	3.63	12.0	0.03	<1	0.1	0.8	<10	2
617394	Soil	0.06	2.5	1.8	<0.05	1.6	9.90	10.6	<0.02	<1	0.3	1.9	<10	<2
617395	Soil	0.24	6.1	0.7	<0.05	1.5	14.91	39.2	0.03	<1	1.0	9.5	<10	<2
617396	Soil	0.11	6.2	2.6	<0.05	3.5	13.35	20.0	0.04	1	1.1	19.1	<10	<2
617397	Soil	0.15	13.7	1.1	<0.05	0.2	2.71	7.7	0.03	1	0.4	2.9	<10	<2
617398	Soil	0.15	9.0	3.7	<0.05	2.3	9.18	11.0	0.06	1	1.6	12.8	<10	<2
617399	Soil	0.14	8.2	1.2	<0.05	2.9	9.54	10.7	0.06	<1	1.4	27.4	<10	2
617400	Soil	0.11	3.7	1.5	<0.05	2.3	11.07	15.6	0.06	<1	0.6	2.4	<10	<2
617439	Soil	0.05	6.8	1.6	<0.05	1.4	9.23	19.9	0.04	<1	0.8	15.6	<10	<2
617440	Soil	0.03	6.7	1.2	<0.05	3.9	16.92	26.5	0.04	<1	1.4	40.4	<10	<2
617441	Soil	0.17	8.9	1.0	<0.05	2.3	11.81	26.6	0.04	1	1.2	32.5	<10	<2
617442	Soil	0.17	13.3	0.7	<0.05	1.6	15.33	46.8	0.04	<1	1.3	26.0	<10	<2
617443	Soil	0.11	6.0	0.7	<0.05	1.7	14.41	23.6	0.04	<1	1.1	8.5	<10	<2
617444	Soil	0.24	5.2	0.5	<0.05	1.7	11.65	18.5	0.03	<1	0.7	5.6	<10	<2
617445	Soil	<0.02	0.7	1.1	<0.05	0.6	3.40	2.5	<0.02	<1	0.1	0.9	<10	<2
617446	Soil	0.12	3.0	0.6	<0.05	1.2	13.64	15.7	<0.02	<1	0.4	3.8	<10	<2
617447	Soil	0.02	1.1	1.1	<0.05	0.5	5.86	6.5	<0.02	<1	0.3	1.7	<10	<2
617448	Soil	0.02	1.5	1.0	<0.05	0.7	5.27	5.4	<0.02	<1	0.2	1.6	<10	<2



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 Phone (604) 253-3158 Fax (604) 253-1716

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Project: Scarlet
 Report Date: November 01, 2011

Page: 15 of 15 Part 1

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
617449	Soil	0.21	27.75	56.61	93.5	216	28.6	20.8	589	2.85	22.0	1.4	0.9	6.5	9.3	0.21	1.91	0.37	7	1.99	0.087
617450	Soil	0.52	9.31	19.02	52.6	75	7.0	4.0	2268	1.63	7.4	0.8	0.3	0.2	36.3	0.26	1.19	0.04	7	11.36	0.174



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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Project: Scarlet
 Report Date: November 01, 2011

Page: 15 of 15 Part 2

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
617449	Soil	4.7	7.3	0.97	46.0	<0.001	4	0.65	0.004	0.14	<0.1	5.9	0.12	0.04	484	0.4	0.14	1.3	0.31	<0.1	0.13
617450	Soil	4.5	6.9	5.87	108.5	0.003	6	0.48	0.013	0.03	<0.1	0.6	0.10	0.09	58	0.4	0.05	1.0	0.25	<0.1	0.02



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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Project: Scarlet
Report Date: November 01, 2011

Page: 15 of 15 Part 3

CERTIFICATE OF ANALYSIS

WHI11001356.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
617449	Soil	0.06	3.5	1.8	<0.05	4.0	13.57	12.0	0.03	<1	1.2	4.4	<10	<2
617450	Soil	0.08	2.5	3.3	<0.05	0.8	6.52	9.9	<0.02	<1	0.4	2.4	<10	<2



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Project: Scarlet
 Report Date: November 01, 2011

Page: 1 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001356.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
1266770	Soil	0.24	25.95	11.47	90.5	40	34.8	11.2	133	2.67	2.4	1.5	1.9	3.4	23.1	0.09	0.16	0.32	15	0.98	0.066
REP 1266770	QC	0.25	26.39	11.67	91.4	35	35.0	11.2	136	2.69	2.4	1.5	2.1	3.7	22.5	0.10	0.14	0.24	15	1.00	0.070
617612	Soil	0.76	16.04	26.03	90.8	129	15.7	7.5	1750	4.07	19.0	1.9	2.5	1.4	19.2	0.43	2.97	0.26	31	1.95	0.120
REP 617612	QC	0.73	15.42	25.85	86.6	118	15.3	7.2	1734	3.98	18.5	1.9	2.2	1.4	18.4	0.42	2.88	0.24	29	1.98	0.118
617798	Soil	1.14	36.74	37.07	72.2	78	35.0	19.8	990	3.51	19.9	1.5	2.6	2.3	35.2	0.16	1.10	0.36	14	2.32	0.050
REP 617798	QC	1.11	35.46	35.74	71.1	69	35.0	19.0	970	3.49	19.6	1.5	2.9	2.5	34.1	0.13	1.07	0.35	14	2.30	0.050
1098499	Soil	0.73	31.75	60.18	124.9	93	24.1	18.7	1424	4.98	6.0	0.9	0.7	2.0	7.0	0.35	0.37	0.45	48	0.05	0.079
REP 1098499	QC	0.74	32.21	60.75	120.8	101	24.3	19.5	1408	4.89	6.3	0.9	0.9	1.9	6.8	0.33	0.36	0.44	46	0.05	0.080
617860	Soil	0.64	25.47	49.46	85.7	96	29.0	42.6	3534	4.59	5.1	0.9	0.8	4.4	9.6	0.14	0.31	0.46	35	0.07	0.049
REP 617860	QC	0.64	24.59	46.78	83.6	91	29.7	40.8	3510	4.47	5.4	0.9	<0.2	4.2	9.7	0.09	0.29	0.47	34	0.07	0.048
617108	Soil	0.59	32.40	21.47	28.6	81	27.0	29.7	352	2.74	27.4	0.8	<0.2	3.2	4.6	0.04	1.00	0.40	11	0.19	0.062
REP 617108	QC	0.66	31.49	20.55	28.5	78	26.7	29.3	336	2.66	26.9	0.8	<0.2	3.5	4.7	0.03	0.99	0.38	12	0.19	0.061
617112	Soil	0.86	37.81	32.81	103.0	47	35.5	25.7	1557	4.67	5.3	0.8	1.5	3.3	5.8	0.17	0.37	0.38	37	0.04	0.060
REP 617112	QC	0.82	36.47	31.57	101.5	46	35.6	25.2	1540	4.68	5.3	0.8	1.4	3.3	5.9	0.16	0.35	0.39	38	0.03	0.060
617138	Soil	1.05	23.15	37.15	79.7	136	27.0	16.4	1465	4.14	7.1	0.8	1.5	1.4	7.8	0.25	0.59	0.32	40	0.08	0.062
REP 617138	QC	0.99	22.68	37.69	78.9	125	27.3	16.2	1473	4.14	6.8	0.8	1.0	1.9	7.4	0.22	0.60	0.31	40	0.08	0.060
617148	Soil	0.77	22.90	29.95	132.9	120	24.5	19.6	1094	4.77	4.5	0.6	0.7	3.9	5.7	0.16	0.32	0.46	35	0.03	0.076
REP 617148	QC	0.78	23.87	30.04	133.1	119	26.0	21.7	1120	4.89	4.5	0.7	1.2	3.9	6.0	0.17	0.32	0.47	34	0.06	0.080
617572	Soil	0.33	8.37	12.54	130.5	74	14.2	6.5	1648	2.42	11.9	1.3	1.1	0.5	26.8	0.16	2.18	0.09	6	15.05	0.074
REP 617572	QC	0.35	8.53	13.32	134.2	71	14.4	6.8	1752	2.46	12.0	1.4	0.7	0.5	27.9	0.15	2.28	0.10	7	16.18	0.078
617915	Soil	0.92	32.97	24.83	113.8	46	25.4	13.9	840	3.18	7.8	0.6	5.0	1.3	6.2	0.21	0.58	0.27	32	0.08	0.068
REP 617915	QC	0.97	32.44	24.64	109.6	43	24.1	13.5	819	3.14	7.5	0.6	2.1	1.2	6.1	0.25	0.55	0.28	32	0.08	0.069
617929	Soil	1.21	35.19	22.07	60.1	67	16.3	10.7	1190	2.82	5.9	0.7	1.6	0.4	7.8	0.13	0.58	0.30	40	0.21	0.084
REP 617929	QC	1.25	35.60	22.23	63.5	71	16.3	10.7	1218	2.82	6.2	0.7	2.3	0.4	7.8	0.12	0.59	0.31	40	0.23	0.088
1097662	Soil	0.64	30.71	28.79	73.5	140	18.5	20.0	1732	4.88	4.8	0.8	1.1	2.3	5.6	0.18	0.39	0.37	32	0.06	0.096
REP 1097662	QC	0.71	32.71	29.99	78.2	138	19.4	20.9	1830	5.15	5.4	0.8	1.2	2.2	6.2	0.22	0.47	0.40	35	0.07	0.104
1097679	Soil	0.51	17.13	27.72	90.2	196	23.5	9.1	2338	4.80	14.5	1.2	2.6	1.9	20.1	0.29	1.13	0.21	17	5.94	0.119
REP 1097679	QC	0.51	18.04	28.74	95.6	216	24.1	9.4	2374	4.96	14.9	1.3	2.7	1.9	21.1	0.30	1.17	0.21	17	6.17	0.125

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet
Report Date: November 01, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001356.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
1266770	Soil	18.6	35.2	1.18	208.7	0.003	5	1.46	0.002	0.10	<0.1	4.5	0.07	0.05	27	0.3	0.02	4.1	1.17	<0.1	0.10
REP 1266770	QC	18.2	35.9	1.19	214.6	0.002	4	1.46	0.003	0.09	<0.1	4.5	0.06	0.05	20	0.3	<0.02	4.3	0.95	<0.1	0.10
617612	Soil	13.4	22.9	0.77	148.0	0.008	3	1.26	0.005	0.06	<0.1	2.5	0.15	0.10	156	0.4	0.04	3.5	0.96	<0.1	0.04
REP 617612	QC	12.8	21.6	0.78	144.6	0.007	3	1.21	0.005	0.05	0.1	2.4	0.13	0.10	141	0.3	0.06	3.4	0.88	<0.1	0.05
617798	Soil	8.0	11.9	0.86	86.3	<0.001	4	0.60	0.004	0.11	<0.1	5.2	0.35	0.05	97	0.2	0.05	1.6	0.32	<0.1	0.06
REP 617798	QC	7.8	12.2	0.85	85.1	<0.001	4	0.61	0.004	0.11	<0.1	5.3	0.34	0.05	98	0.2	0.06	1.5	0.34	<0.1	0.03
1098499	Soil	6.5	40.3	0.38	192.8	0.008	1	2.23	0.002	0.15	<0.1	2.4	0.15	0.05	26	0.3	0.02	9.0	2.39	<0.1	0.03
REP 1098499	QC	6.2	39.8	0.38	188.0	0.008	1	2.20	0.002	0.14	<0.1	2.4	0.15	0.05	32	0.2	0.03	9.0	2.36	<0.1	0.03
617860	Soil	7.2	34.9	0.39	216.6	0.006	2	1.92	0.008	0.17	<0.1	4.0	0.20	0.03	71	0.1	0.02	7.4	4.27	<0.1	0.04
REP 617860	QC	7.1	34.1	0.37	211.3	0.006	3	1.92	0.008	0.17	<0.1	3.8	0.19	0.03	50	<0.1	0.04	7.3	4.20	<0.1	0.05
617108	Soil	6.8	10.6	0.12	54.1	0.001	3	0.62	0.003	0.20	<0.1	7.3	0.17	0.05	45	<0.1	0.03	2.3	3.53	<0.1	0.05
REP 617108	QC	7.4	10.6	0.12	54.8	0.002	4	0.65	0.003	0.23	<0.1	7.5	0.17	0.05	58	<0.1	0.02	2.5	5.33	<0.1	0.05
617112	Soil	5.6	41.4	0.66	106.4	0.004	<1	2.37	0.006	0.12	<0.1	4.8	0.13	0.02	19	0.2	0.03	8.0	2.06	<0.1	0.09
REP 617112	QC	5.7	40.4	0.66	105.9	0.005	<1	2.37	0.007	0.12	<0.1	4.8	0.13	0.02	14	0.2	0.02	7.8	2.16	<0.1	0.09
617138	Soil	9.7	31.9	0.45	96.4	0.014	1	1.69	0.003	0.12	0.1	2.2	0.11	0.04	51	0.2	0.02	5.1	1.52	<0.1	<0.02
REP 617138	QC	9.3	30.7	0.44	91.7	0.011	<1	1.66	0.003	0.11	0.1	2.3	0.10	0.04	54	0.2	0.05	5.1	1.40	<0.1	<0.02
617148	Soil	6.1	39.1	0.38	100.7	0.006	3	2.41	<0.001	0.16	<0.1	2.9	0.12	0.03	35	0.6	<0.02	7.6	2.20	<0.1	0.08
REP 617148	QC	6.2	40.5	0.39	107.3	0.008	2	2.29	<0.001	0.16	<0.1	3.1	0.12	0.02	44	0.6	<0.02	7.9	2.33	<0.1	0.06
617572	Soil	3.8	7.3	7.21	65.0	0.003	3	0.49	0.009	0.03	<0.1	1.0	0.13	<0.02	61	0.5	<0.02	1.1	0.52	<0.1	0.03
REP 617572	QC	4.0	7.5	7.60	69.0	0.003	4	0.53	0.010	0.04	<0.1	1.1	0.14	<0.02	59	0.4	<0.02	1.2	0.64	<0.1	0.03
617915	Soil	5.5	29.0	0.46	138.8	0.008	<1	1.56	0.004	0.06	0.2	2.2	0.08	0.03	28	0.1	0.06	4.8	2.03	<0.1	0.03
REP 617915	QC	5.4	28.0	0.44	138.6	0.008	<1	1.49	0.004	0.06	0.2	1.9	0.08	0.03	18	0.2	0.05	4.9	1.92	<0.1	<0.02
617929	Soil	5.0	23.6	0.26	133.1	0.006	<1	1.44	0.003	0.05	0.1	0.9	0.11	0.06	38	0.3	0.05	5.2	1.87	<0.1	<0.02
REP 617929	QC	4.9	23.5	0.26	135.7	0.006	<1	1.47	0.003	0.05	0.1	1.0	0.11	0.06	54	0.2	0.04	5.4	1.82	<0.1	<0.02
1097662	Soil	4.1	36.5	0.26	87.7	0.005	<1	1.76	0.004	0.08	<0.1	2.9	0.11	0.05	40	0.3	0.04	7.3	2.30	<0.1	0.06
REP 1097662	QC	4.8	39.1	0.29	93.7	0.010	1	1.87	0.005	0.10	<0.1	3.1	0.14	0.05	34	0.3	0.04	7.8	3.00	<0.1	<0.02
1097679	Soil	8.7	14.4	3.46	92.9	0.004	3	0.86	0.005	0.05	<0.1	2.8	0.13	0.03	140	0.4	0.03	1.9	0.72	<0.1	0.05
REP 1097679	QC	8.9	14.1	3.54	94.9	0.003	3	0.86	0.005	0.05	<0.1	2.7	0.14	0.03	143	0.4	<0.02	1.9	0.70	<0.1	0.05

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 1 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001356.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
1266770	Soil	0.17	7.1	0.9	<0.05	3.8	16.16	35.2	0.02	<1	0.9	31.9	<10	<2
REP 1266770	QC	0.16	6.5	0.8	<0.05	4.2	16.19	34.3	0.02	<1	1.0	32.5	<10	<2
617612	Soil	0.49	7.1	0.9	<0.05	1.1	10.46	26.1	0.03	<1	0.6	16.0	<10	<2
REP 617612	QC	0.73	6.3	1.0	<0.05	1.5	9.94	25.3	0.03	1	0.6	15.2	<10	<2
617798	Soil	0.12	5.2	1.6	<0.05	1.6	12.71	19.4	0.04	<1	1.0	4.9	<10	<2
REP 617798	QC	0.11	5.8	1.6	<0.05	1.5	12.21	18.7	0.04	<1	0.8	4.9	<10	<2
1098499	Soil	0.63	23.3	2.9	<0.05	0.9	5.92	17.5	0.04	<1	1.3	31.9	<10	<2
REP 1098499	QC	0.62	23.5	3.3	<0.05	0.7	5.90	16.5	0.04	<1	1.2	31.1	<10	<2
617860	Soil	0.40	25.8	2.4	<0.05	1.4	6.35	24.9	0.04	<1	2.1	32.9	<10	2
REP 617860	QC	0.42	26.2	2.2	<0.05	2.0	6.01	24.3	0.06	<1	2.1	31.9	<10	<2
617108	Soil	0.10	12.8	2.8	<0.05	1.5	11.89	26.5	0.04	1	1.6	2.4	<10	<2
REP 617108	QC	0.11	15.8	2.2	<0.05	1.7	11.88	27.2	0.03	<1	1.7	2.5	<10	<2
617112	Soil	0.36	13.8	1.6	<0.05	2.8	7.20	16.5	0.04	<1	1.4	37.3	<10	<2
REP 617112	QC	0.39	14.0	1.5	<0.05	3.0	7.18	16.7	0.04	<1	1.6	37.4	<10	<2
617138	Soil	0.66	10.9	1.5	<0.05	0.2	4.09	32.2	0.04	<1	1.0	21.4	<10	<2
REP 617138	QC	0.68	10.3	1.5	<0.05	0.4	4.05	31.1	0.04	<1	1.1	22.1	<10	<2
617148	Soil	0.51	18.9	2.3	<0.05	1.9	3.73	14.6	0.04	<1	1.4	39.2	<10	<2
REP 617148	QC	0.63	20.2	2.5	<0.05	1.9	3.84	14.5	0.04	<1	1.9	41.0	<10	<2
617572	Soil	0.09	4.1	0.9	<0.05	0.8	7.36	7.9	<0.02	<1	0.5	4.7	<10	<2
REP 617572	QC	0.09	4.5	0.8	<0.05	0.8	7.44	8.5	<0.02	<1	0.6	4.8	<10	<2
617915	Soil	0.40	9.1	1.3	<0.05	0.6	4.58	17.5	0.04	<1	1.1	26.4	<10	<2
REP 617915	QC	0.42	8.6	1.3	<0.05	0.5	4.34	16.8	0.03	<1	1.0	25.7	<10	<2
617929	Soil	0.49	9.7	2.6	<0.05	0.5	5.88	10.6	0.03	<1	1.0	12.6	<10	<2
REP 617929	QC	0.52	9.6	2.0	<0.05	0.5	5.95	10.3	0.03	<1	1.1	12.9	<10	<2
1097662	Soil	0.63	12.1	2.3	<0.05	1.4	4.49	11.4	0.04	<1	1.1	15.7	<10	<2
REP 1097662	QC	0.63	14.9	2.3	<0.05	0.9	5.02	12.9	0.04	1	1.1	17.0	<10	<2
1097679	Soil	0.12	5.3	0.6	<0.05	1.7	14.08	22.2	0.02	2	0.7	12.3	<10	<2
REP 1097679	QC	0.13	5.2	0.5	<0.05	1.9	14.62	23.2	0.03	<1	0.7	12.7	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001356.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
1097691	Soil	0.96	20.63	18.56	103.5	141	19.7	13.7	1088	4.32	3.9	0.6	0.5	0.7	6.3	0.29	0.40	0.39	45	0.12	0.067
REP 1097691	QC	0.86	18.93	16.94	95.3	122	18.1	12.5	915	3.97	3.5	0.6	0.4	0.6	5.7	0.25	0.37	0.34	42	0.10	0.059
617879	Soil	1.37	33.58	56.71	112.8	172	35.3	29.5	1213	4.66	17.5	1.0	1.1	2.5	14.8	0.12	0.78	0.41	34	0.09	0.064
REP 617879	QC	1.26	30.90	53.11	105.6	159	32.2	27.3	1130	4.29	16.4	0.9	1.4	2.2	13.7	0.10	0.70	0.37	33	0.08	0.057
617895	Soil	1.12	14.24	13.20	43.9	21	11.3	6.4	246	2.96	5.6	0.5	0.8	3.2	6.4	0.09	0.52	0.28	53	0.04	0.016
REP 617895	QC	1.11	14.25	13.66	44.3	15	11.5	6.5	251	3.04	6.0	0.5	0.8	3.3	6.8	0.08	0.56	0.30	55	0.04	0.017
617628	Soil	0.48	42.46	46.04	108.3	33	37.5	29.4	1127	4.74	6.3	0.6	0.5	5.4	10.2	0.04	0.15	0.58	35	0.06	0.027
REP 617628	QC	0.48	43.17	46.19	104.9	29	37.8	29.0	1114	4.71	6.6	0.6	1.3	5.6	10.4	0.04	0.14	0.56	35	0.06	0.028
617635	Soil	0.80	15.42	21.29	85.3	89	16.5	6.8	1938	3.44	10.9	0.9	2.8	0.8	11.7	0.29	1.26	0.22	23	1.69	0.139
REP 617635	QC	0.80	15.84	22.36	88.8	93	16.0	7.2	2005	3.59	11.1	0.9	3.0	0.8	12.1	0.29	1.28	0.23	24	1.87	0.143
617368	Soil	0.48	17.97	20.60	93.8	88	18.6	9.4	1127	2.79	12.1	0.6	3.8	1.1	21.3	0.20	1.16	0.23	21	5.20	0.108
REP 617368	QC	0.48	18.65	22.03	98.3	89	18.8	9.6	1208	2.92	12.9	0.7	2.0	1.1	23.3	0.22	1.22	0.22	21	6.30	0.117
617396	Soil	0.73	29.55	37.60	123.5	201	38.3	13.9	428	3.67	10.2	1.0	1.3	3.7	58.7	0.16	0.60	0.31	10	2.02	0.073
REP 617396	QC	0.69	28.82	36.96	114.8	200	37.5	13.6	417	3.60	9.9	1.0	1.0	3.7	58.2	0.15	0.60	0.30	9	1.98	0.072
617440	Soil	0.50	39.96	39.34	155.8	169	62.2	29.1	1471	4.60	5.6	0.9	<0.2	6.3	73.7	0.28	0.29	0.29	8	1.14	0.049
REP 617440	QC	0.52	41.08	40.18	160.4	175	64.2	29.8	1476	4.67	5.2	0.9	<0.2	6.4	74.3	0.27	0.30	0.30	8	1.15	0.050
Reference Materials																					
STD DS8	Standard	13.38	108.4	130.7	310.3	1883	38.3	7.7	631	2.48	26.5	2.8	114.3	6.9	70.4	2.40	6.08	6.97	42	0.74	0.087
STD DS8	Standard	12.57	103.2	118.4	291.7	1679	37.4	6.9	579	2.39	22.1	2.7	109.9	6.2	60.1	2.16	5.14	5.81	39	0.68	0.074
STD DS8	Standard	13.89	103.3	121.6	312.4	1822	38.7	7.6	631	2.44	24.1	2.7	116.7	7.4	65.3	2.22	5.35	5.83	43	0.78	0.077
STD DS8	Standard	13.91	105.1	122.4	308.4	1864	38.6	7.6	640	2.48	23.5	2.8	115.7	7.2	66.1	2.16	5.03	5.68	44	0.77	0.078
STD DS8	Standard	12.42	108.4	127.4	317.4	1849	38.9	7.7	616	2.50	24.8	2.7	120.4	6.6	59.7	2.28	5.11	6.08	40	0.70	0.081
STD DS8	Standard	13.54	104.8	123.2	312.5	1765	37.9	7.2	618	2.52	24.0	2.7	114.4	6.8	66.4	2.15	5.04	5.72	43	0.74	0.075
STD DS8	Standard	13.68	113.1	127.5	310.2	1739	40.3	7.5	611	2.50	24.1	2.8	108.7	6.9	61.8	2.15	5.16	5.84	43	0.72	0.077
STD DS8	Standard	12.93	104.8	123.4	307.4	1827	38.1	7.6	613	2.40	24.9	2.7	104.2	6.3	59.8	2.26	4.95	6.07	41	0.73	0.076
STD DS8	Standard	11.82	95.13	112.1	280.4	1657	34.8	6.8	551	2.30	21.7	2.4	101.3	5.7	52.6	2.04	4.59	5.66	38	0.61	0.071
STD DS8	Standard	13.59	110.3	115.1	297.5	1572	39.8	8.1	590	2.42	23.3	2.5	99.8	6.5	63.0	2.20	5.12	6.02	39	0.74	0.082
STD DS8	Standard	13.16	104.1	125.0	300.1	1751	35.8	7.1	606	2.41	23.6	2.8	108.8	7.1	67.7	2.26	5.60	6.68	42	0.72	0.080
STD DS8	Standard	12.15	101.5	120.6	293.9	1669	36.5	7.1	570	2.30	23.8	2.5	101.2	6.1	57.5	2.29	5.03	6.08	40	0.65	0.076

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11001356.1

		1F15 La ppm	1F15 Cr ppm	1F15 Mg %	1F15 Ba ppm	1F15 Ti %	1F15 B ppm	1F15 Al %	1F15 Na %	1F15 K %	1F15 W ppm	1F15 Sc ppm	1F15 Ti ppm	1F15 S %	1F15 Hg ppb	1F15 Se ppm	1F15 Te ppm	1F15 Ga ppm	1F15 Cs ppm	1F15 Ge ppm	1F15 Hf ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1097691	Soil	3.5	34.0	0.32	172.5	0.012	2	1.38	0.003	0.17	<0.1	1.5	0.12	0.05	37	0.1	0.02	7.6	1.64	<0.1	<0.02
REP 1097691	QC	3.2	30.0	0.31	153.2	0.011	1	1.25	0.003	0.16	<0.1	1.4	0.10	0.05	35	0.1	0.02	7.3	1.42	<0.1	<0.02
617879	Soil	7.9	23.2	0.29	114.6	0.006	<1	1.45	0.004	0.07	<0.1	3.6	0.14	0.03	54	0.2	0.05	4.0	4.74	<0.1	0.04
REP 617879	QC	7.5	21.7	0.27	107.1	0.005	1	1.33	0.004	0.07	<0.1	3.3	0.13	0.03	34	0.2	0.05	3.8	4.39	<0.1	0.05
617895	Soil	8.9	22.8	0.23	94.8	0.006	<1	1.48	0.006	0.06	<0.1	2.3	0.15	<0.02	15	0.1	0.04	8.1	1.88	<0.1	<0.02
REP 617895	QC	9.4	22.9	0.24	100.0	0.008	<1	1.53	0.006	0.07	<0.1	2.5	0.15	<0.02	16	0.2	0.03	8.2	2.02	<0.1	<0.02
617628	Soil	8.0	42.6	0.72	93.4	0.002	<1	2.19	0.009	0.10	<0.1	4.8	0.05	<0.02	21	0.1	0.03	8.9	3.40	<0.1	0.05
REP 617628	QC	8.1	42.3	0.71	93.5	0.003	<1	2.21	0.010	0.10	<0.1	4.8	0.07	<0.02	16	0.1	<0.02	8.7	3.48	<0.1	0.02
617635	Soil	10.3	19.5	0.85	103.1	0.007	3	1.19	0.005	0.04	<0.1	1.4	0.10	0.09	71	0.4	0.03	2.7	0.70	<0.1	0.04
REP 617635	QC	10.6	19.1	0.92	104.5	0.007	3	1.20	0.005	0.05	0.1	1.4	0.11	0.09	69	0.5	0.04	2.7	0.73	<0.1	0.02
617368	Soil	8.6	15.4	3.18	68.0	0.006	3	1.04	0.007	0.06	<0.1	2.3	0.09	0.04	91	0.4	0.04	2.5	0.70	<0.1	0.06
REP 617368	QC	9.2	15.9	3.57	73.2	0.006	3	1.08	0.007	0.07	<0.1	2.5	0.08	0.03	100	0.4	0.03	2.6	0.77	<0.1	0.07
617396	Soil	6.9	13.1	0.88	113.7	0.002	3	0.79	0.004	0.09	<0.1	4.3	0.16	0.04	96	0.5	0.03	2.1	1.49	<0.1	0.07
REP 617396	QC	6.7	12.6	0.87	111.0	0.002	3	0.84	0.004	0.09	<0.1	4.3	0.15	0.04	104	0.5	0.05	2.0	1.49	<0.1	0.08
617440	Soil	6.5	13.9	0.26	147.0	0.002	3	1.06	0.004	0.09	<0.1	5.3	0.22	0.17	38	0.5	0.04	2.1	1.88	<0.1	0.08
REP 617440	QC	6.6	14.5	0.27	149.4	0.002	4	1.05	0.004	0.09	<0.1	5.3	0.23	0.18	42	0.3	0.04	2.2	1.92	<0.1	0.06
Reference Materials																					
STD DS8	Standard	16.0	125.8	0.63	295.6	0.113	3	1.00	0.111	0.44	3.2	2.3	5.71	0.17	208	5.0	5.12	5.0	2.45	0.2	0.08
STD DS8	Standard	14.7	114.9	0.59	249.8	0.110	2	0.92	0.095	0.41	3.1	2.1	5.24	0.16	184	5.1	5.04	4.6	2.35	<0.1	0.06
STD DS8	Standard	17.2	127.0	0.62	274.6	0.120	3	1.03	0.117	0.45	3.2	2.7	5.60	0.16	193	5.3	5.11	5.3	2.53	0.1	0.08
STD DS8	Standard	17.4	124.8	0.62	279.4	0.115	3	1.08	0.099	0.46	2.8	2.7	5.63	0.16	213	5.0	5.26	4.9	2.53	<0.1	0.09
STD DS8	Standard	13.4	122.2	0.62	265.4	0.099	2	1.00	0.082	0.45	3.0	2.3	5.66	0.15	209	5.1	5.09	4.7	2.51	<0.1	0.08
STD DS8	Standard	16.5	123.6	0.62	275.1	0.114	1	0.98	0.103	0.42	2.8	2.0	5.44	0.16	221	5.1	5.29	5.1	2.45	0.1	0.07
STD DS8	Standard	15.9	121.9	0.62	272.2	0.116	3	0.96	0.096	0.43	3.0	2.1	5.53	0.16	196	5.0	5.03	4.6	2.46	0.1	0.07
STD DS8	Standard	13.4	120.9	0.61	259.2	0.099	2	0.95	0.104	0.43	2.7	2.1	5.53	0.16	221	5.1	5.02	4.5	2.45	<0.1	0.08
STD DS8	Standard	12.9	112.2	0.56	247.4	0.100	2	0.86	0.083	0.39	2.8	2.0	5.11	0.15	184	4.7	4.68	4.3	2.31	0.2	0.07
STD DS8	Standard	16.6	113.0	0.61	256.8	0.117	3	0.98	0.105	0.44	2.8	2.3	5.02	0.16	174	5.1	4.99	4.8	2.38	<0.1	0.09
STD DS8	Standard	16.6	120.1	0.60	273.4	0.113	2	0.93	0.089	0.41	3.1	2.4	5.37	0.16	205	5.1	4.87	4.6	2.44	0.1	0.11
STD DS8	Standard	13.5	114.2	0.57	251.2	0.103	2	0.84	0.076	0.39	3.0	2.0	5.19	0.16	201	5.1	4.80	4.4	2.36	0.2	0.08

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet
 Report Date: November 01, 2011

Page: 2 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001356.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
1097691	Soil	0.62	20.6	1.5	<0.05	0.2	2.63	8.7	0.03	<1	0.6	12.7	<10	<2
REP 1097691	QC	0.56	18.7	1.4	<0.05	0.1	2.35	7.8	<0.02	<1	0.6	11.6	<10	<2
617879	Soil	0.29	10.7	2.5	<0.05	1.7	11.74	25.0	0.05	<1	1.3	35.7	<10	<2
REP 617879	QC	0.28	10.0	2.4	<0.05	1.4	10.65	23.3	0.04	<1	1.1	33.8	<10	<2
617895	Soil	0.59	14.1	1.0	<0.05	0.6	3.39	18.5	0.03	<1	0.3	10.2	<10	<2
REP 617895	QC	0.62	14.7	1.1	<0.05	0.6	3.46	19.4	0.04	<1	0.5	11.0	<10	<2
617628	Soil	0.11	12.0	1.2	<0.05	2.0	6.05	22.8	0.06	<1	1.8	39.5	<10	<2
REP 617628	QC	0.13	12.1	1.2	<0.05	1.9	5.89	23.2	0.05	<1	1.6	40.6	<10	<2
617635	Soil	0.24	6.1	0.8	<0.05	1.0	10.76	19.0	0.03	<1	0.9	8.0	<10	<2
REP 617635	QC	0.25	6.6	0.8	<0.05	1.0	10.87	20.0	0.03	<1	0.9	8.0	<10	<2
617368	Soil	0.19	6.3	0.8	<0.05	1.8	10.50	15.9	0.03	<1	0.9	6.6	<10	<2
REP 617368	QC	0.18	6.8	1.0	<0.05	1.8	10.99	16.8	0.02	<1	1.0	7.1	<10	<2
617396	Soil	0.11	6.2	2.6	<0.05	3.5	13.35	20.0	0.04	1	1.1	19.1	<10	<2
REP 617396	QC	0.11	6.3	2.8	<0.05	3.3	13.36	19.3	0.05	<1	1.0	17.8	<10	<2
617440	Soil	0.03	6.7	1.2	<0.05	3.9	16.92	26.5	0.04	<1	1.4	40.4	<10	<2
REP 617440	QC	<0.02	6.9	1.3	<0.05	5.8	17.46	27.0	0.04	<1	1.3	40.7	<10	<2
Reference Materials														
STD DS8	Standard	1.46	37.8	7.0	<0.05	1.7	6.18	29.1	2.15	48	5.2	28.4	123	347
STD DS8	Standard	1.41	36.8	5.9	<0.05	1.5	5.83	26.8	2.08	50	4.7	25.9	116	325
STD DS8	Standard	1.62	40.4	6.6	<0.05	2.2	6.88	32.1	2.25	62	5.4	27.2	128	349
STD DS8	Standard	1.58	39.8	6.2	<0.05	2.2	6.70	32.0	2.15	57	5.3	28.0	116	347
STD DS8	Standard	1.21	38.5	6.6	<0.05	1.9	5.35	24.7	2.23	61	5.3	28.0	140	363
STD DS8	Standard	1.43	38.0	6.2	<0.05	1.8	6.40	30.6	2.26	51	5.4	27.7	120	329
STD DS8	Standard	1.25	39.2	6.5	<0.05	1.9	5.90	28.5	2.21	51	4.9	27.3	115	349
STD DS8	Standard	1.25	36.9	6.4	<0.05	1.6	5.48	25.2	2.17	48	5.3	27.6	130	357
STD DS8	Standard	1.18	34.6	5.6	<0.05	1.5	5.12	24.5	1.93	45	4.6	24.2	115	327
STD DS8	Standard	1.38	35.4	6.1	<0.05	2.2	6.34	27.8	2.13	44	5.1	24.8	112	318
STD DS8	Standard	1.43	38.5	6.7	<0.05	2.1	6.69	30.0	2.12	58	5.0	28.5	118	346
STD DS8	Standard	1.20	35.7	6.3	<0.05	2.0	5.31	24.7	2.14	60	5.4	25.3	130	340

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Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 830 - 355 Burrard St.
 Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: November 01, 2011

Page: 3 of 3 Part 1

QUALITY CONTROL REPORT

WHI11001356.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	9	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	7	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.63	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: Radius Gold Inc.
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: November 01, 2011

Page: 3 of 3 **Part** 2

QUALITY CONTROL REPORT

WHI11001356.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
830 - 355 Burrard St.
Vancouver BC V6C 2G8 Canada

Project: Scarlet

Report Date: November 01, 2011

Page: 3 of 3 Part 3

QUALITY CONTROL REPORT

WHI11001356.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Radius Gold Inc.
Suite 650 - 200 Burrard Street
Vancouver BC V6C 3L6 Canada

Submitted By: Roger Hulstein
Receiving Lab: Canada-Whitehorse
Received: January 06, 2012
Report Date: January 30, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI11001984.1

CLIENT JOB INFORMATION

Project: Scarlet
Shipment ID: 2011-25
P.O. Number
Number of Samples: 21

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Radius Gold Inc.
Suite 650 - 200 Burrard Street
Vancouver BC V6C 3L6
Canada

CC: Scott Turton
Simon Ridgway
database backup

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include R200-250, 3B01, 1DX1, and 7TD.

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: January 30, 2012

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

WHI11001984.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
120082	Rock	1.46	<2	<0.1	1.2	4.4	1622	<0.1	0.5	0.8	1044	1.00	<0.5	<0.5	0.2	30	1.5	0.1	<0.1	<2	15.51
120083	Rock	1.65	4	<0.1	2.1	6.6	4	<0.1	1.6	2.1	597	0.62	4.4	1.1	0.3	20	<0.1	0.9	<0.1	<2	20.54
120084	Rock	1.47	<2	<0.1	0.3	0.8	4	<0.1	<0.1	0.7	1815	2.16	1.2	<0.5	<0.1	23	<0.1	<0.1	<0.1	<2	16.29
120085	Rock	1.48	<2	<0.1	1.2	6.3	2	<0.1	4.2	1.8	406	0.60	1.8	<0.5	0.4	30	<0.1	0.5	<0.1	25	27.38
120086	Rock	1.26	<2	<0.1	1.0	4.0	2	<0.1	1.1	1.2	162	0.28	2.6	<0.5	0.5	214	<0.1	0.2	<0.1	4	27.46
120087	Rock	2.02	<2	<0.1	0.3	0.7	1	<0.1	1.0	0.8	299	0.20	4.4	<0.5	<0.1	33	<0.1	0.2	<0.1	<2	30.73
120088	Rock	1.07	<2	<0.1	3.7	4.3	30	<0.1	2.3	1.1	631	0.74	81.4	<0.5	0.2	43	<0.1	1.2	<0.1	<2	28.80
120089	Rock	1.41	<2	<0.1	0.9	0.9	8	<0.1	1.0	0.9	626	0.48	22.6	<0.5	<0.1	59	<0.1	0.4	<0.1	<2	20.79
120090	Rock	1.57	<2	<0.1	2.1	3.6	33	<0.1	1.6	1.2	888	1.15	107.1	<0.5	0.2	52	<0.1	1.8	<0.1	2	27.55
120091	Rock	1.39	<2	<0.1	0.3	0.9	<1	<0.1	1.0	0.8	511	0.55	20.4	<0.5	<0.1	71	<0.1	0.3	<0.1	<2	19.37
617457	Rock	0.84	2	1.3	50.6	13.3	86	<0.1	27.4	29.6	5986	2.24	16.5	<0.5	5.8	123	<0.1	0.3	0.3	57	10.33
617458	Rock	0.81	<2	3.7	551.4	12.3	229	<0.1	84.0	66.2	>10000	9.45	15.8	<0.5	5.4	6	0.2	<0.1	1.5	34	0.18
617459	Rock	1.16	<2	0.1	23.1	106.9	85	<0.1	20.7	33.3	>10000	7.98	12.3	<0.5	1.9	71	0.1	<0.1	0.2	16	11.56
617460	Rock	1.72	<2	0.2	0.6	42.7	989	<0.1	0.2	0.9	1501	0.67	0.8	<0.5	<0.1	39	3.9	<0.1	<0.1	<2	16.16
617461	Rock	1.25	<2	1.0	3.9	>10000	>10000	0.4	1.8	0.8	1116	>40	5.9	<0.5	0.3	2	43.6	<0.1	<0.1	4	0.32
617462	Rock	0.72	<2	<0.1	1.5	4.8	6448	<0.1	14.3	4.8	2536	>40	1.6	0.9	0.2	44	0.1	<0.1	<0.1	4	1.85
617463	Rock	0.87	<2	0.3	15.5	40.7	4551	<0.1	14.5	4.3	362	29.26	2.9	<0.5	3.4	15	0.1	0.1	0.2	10	0.17
617464	Rock	0.38	<2	0.3	18.0	8.3	50	<0.1	7.3	7.2	70	1.31	71.2	0.7	1.3	19	<0.1	2.8	0.1	17	0.07
617465	Rock	0.78	<2	0.2	5.7	9.5	4737	<0.1	17.1	6.3	1620	>40	1.9	6.2	0.8	12	0.2	<0.1	<0.1	8	0.24
617466	Rock	0.99	<2	0.1	2.4	2.6	9327	<0.1	8.5	2.3	863	>40	1.5	1.0	0.3	9	<0.1	<0.1	<0.1	4	0.23
617467	Rock	1.07	<2	<0.1	6.0	7.1	6432	<0.1	30.2	12.8	6446	>40	2.1	1.3	1.2	23	0.3	<0.1	<0.1	7	0.21
120092	Rock	1.41	<2	<0.1	0.1	0.6	<1	<0.1	<0.1	0.5	484	0.14	1.5	<0.5	<0.1	50	<0.1	<0.1	<0.1	<2	17.37



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: January 30, 2012

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

WHI11001984.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	7TD	7TD	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	Zn	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.02	0.01	
120082	Rock	0.038	1	2	11.13	4	<0.001	<20	0.03	0.016	0.01	<0.1	1.00	0.4	<0.1	<0.05	<1	<0.5	<0.2		
120083	Rock	0.057	<1	3	8.52	14	<0.001	<20	0.04	0.014	<0.01	<0.1	0.05	0.2	<0.1	<0.05	<1	<0.5	<0.2		
120084	Rock	0.019	3	<1	11.15	2	<0.001	<20	0.02	0.018	<0.01	<0.1	0.03	0.1	<0.1	<0.05	<1	<0.5	<0.2		
120085	Rock	0.026	<1	7	2.59	4	<0.001	<20	0.03	0.008	<0.01	<0.1	0.07	2.0	<0.1	<0.05	<1	<0.5	<0.2		
120086	Rock	0.041	2	3	1.93	8	<0.001	<20	0.03	0.011	0.01	<0.1	0.09	0.6	<0.1	<0.05	<1	<0.5	<0.2		
120087	Rock	0.007	<1	<1	2.05	8	<0.001	<20	0.01	0.008	<0.01	<0.1	0.02	0.1	<0.1	<0.05	<1	<0.5	<0.2		
120088	Rock	0.043	1	2	3.07	58	<0.001	<20	0.04	0.009	<0.01	0.1	0.28	0.6	0.1	<0.05	<1	<0.5	<0.2		
120089	Rock	0.016	<1	1	9.12	33	<0.001	<20	0.02	0.012	<0.01	<0.1	0.09	0.3	<0.1	<0.05	<1	<0.5	<0.2		
120090	Rock	0.034	<1	1	3.30	68	<0.001	<20	0.05	0.008	<0.01	0.2	0.21	0.7	0.4	<0.05	<1	<0.5	<0.2		
120091	Rock	0.004	<1	1	9.76	12	<0.001	<20	0.03	0.015	<0.01	<0.1	0.05	0.4	0.1	<0.05	<1	<0.5	<0.2		
617457	Rock	>5	31	38	0.52	934	0.017	<20	2.40	0.044	0.30	0.1	0.01	9.6	0.1	<0.05	6	<0.5	<0.2		
617458	Rock	0.035	5	29	0.88	527	0.003	<20	3.21	0.018	0.19	<0.1	<0.01	15.0	<0.1	<0.05	9	<0.5	<0.2		
617459	Rock	0.012	5	5	3.58	97	<0.001	<20	0.18	0.017	0.07	<0.1	<0.01	7.9	<0.1	<0.05	<1	<0.5	<0.2		
617460	Rock	0.025	<1	1	11.63	4	<0.001	<20	0.03	0.017	<0.01	<0.1	0.11	0.2	<0.1	<0.05	<1	<0.5	<0.2		
617461	Rock	0.046	<1	2	0.20	46	<0.001	<20	0.04	0.009	<0.01	<0.1	1.38	0.6	8.1	0.31	4	0.9	<0.2	1.86	2.91
617462	Rock	0.005	1	<1	0.19	48	<0.001	<20	0.05	0.008	0.02	<0.1	<0.01	0.5	35.7	0.09	<1	<0.5	<0.2		
617463	Rock	0.019	5	6	0.10	30	0.001	<20	0.37	0.012	0.14	<0.1	0.04	2.8	12.8	<0.05	1	<0.5	<0.2		
617464	Rock	0.007	2	17	0.03	13	<0.001	<20	0.18	0.007	0.06	<0.1	0.68	1.7	0.5	<0.05	<1	<0.5	<0.2		
617465	Rock	0.012	2	4	0.15	51	0.001	<20	0.23	0.008	0.04	<0.1	0.02	1.2	30.2	<0.05	<1	<0.5	<0.2		
617466	Rock	0.006	4	2	0.13	19	<0.001	<20	0.07	0.008	0.02	<0.1	0.03	1.0	9.6	<0.05	<1	<0.5	<0.2		
617467	Rock	0.014	2	3	0.15	112	<0.001	<20	0.16	0.008	0.04	<0.1	0.03	1.3	103.7	<0.05	<1	<0.5	<0.2		
120092	Rock	0.022	<1	1	11.30	4	<0.001	<20	0.02	0.015	<0.01	<0.1	<0.01	0.1	0.6	<0.05	<1	<0.5	<0.2		



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
Suite 650 - 200 Burrard Street
Vancouver BC V6C 3L6 Canada

Project: Scarlet
Report Date: January 30, 2012

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

WHI11001984.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
120084	Rock	1.47	<2	<0.1	0.3	0.8	4	<0.1	<0.1	0.7	1815	2.16	1.2	<0.5	<0.1	23	<0.1	<0.1	<0.1	<2	16.29
REP 120084	QC			<0.1	0.2	0.8	4	<0.1	<0.1	0.6	1776	2.07	<0.5	<0.5	<0.1	23	<0.1	<0.1	<0.1	<2	16.15
617464	Rock	0.38	<2	0.3	18.0	8.3	50	<0.1	7.3	7.2	70	1.31	71.2	0.7	1.3	19	<0.1	2.8	0.1	17	0.07
REP 617464	QC		<2																		
Reference Materials																					
STD DS8	Standard			12.2	100.4	113.5	287	1.6	36.7	7.2	561	2.22	22.6	126.9	5.4	55	2.2	4.5	5.9	40	0.65
STD OREAS131B	Standard																				
STD OREAS45CA	Standard			1.0	475.2	20.7	63	0.3	237.5	91.3	913	15.71	3.7	38.5	7.0	15	<0.1	0.1	0.1	211	0.44
STD OXC88	Standard		201																		
STD OXH82	Standard		1281																		
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7	
STD OREAS45CA Expected			1	494	20	60	0.275	240	92	943	15.69	3.8	43	7	15	0.1	0.13	0.19	215	0.4265	
STD OXC88 Expected			203																		
STD OXH82 Expected			1278																		
STD OREAS131B Expected																					
BLK	Blank		<0.1	<0.1	0.2	4	<0.1	<0.1	<0.1	1	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	0.01	
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank																				
Prep Wash																					
G1	Prep Blank		<2	0.3	3.0	3.5	43	<0.1	3.5	3.9	524	1.89	<0.5	<0.5	4.4	50	<0.1	<0.1	<0.1	35	0.43
G1	Prep Blank		<2	0.3	2.8	4.4	45	<0.1	3.3	3.8	495	1.84	<0.5	<0.5	5.0	53	<0.1	<0.1	<0.1	35	0.45



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Radius Gold Inc.**
 Suite 650 - 200 Burrard Street
 Vancouver BC V6C 3L6 Canada

Project: Scarlet
 Report Date: January 30, 2012

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

WHI11001984.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	7TD	7TD	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	Zn	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.02	0.01	
Pulp Duplicates																					
120084	Rock	0.019	3	<1	11.15	2	<0.001	<20	0.02	0.018	<0.01	<0.1	0.03	0.1	<0.1	<0.05	<1	<0.5	<0.2		
REP 120084	QC	0.019	3	<1	10.95	2	<0.001	<20	0.02	0.017	<0.01	<0.1	0.03	0.1	<0.1	<0.05	<1	<0.5	<0.2		
617464	Rock	0.007	2	17	0.03	13	<0.001	<20	0.18	0.007	0.06	<0.1	0.68	1.7	0.5	<0.05	<1	<0.5	<0.2		
REP 617464	QC																				
Reference Materials																					
STD DS8	Standard	0.076	12	111	0.58	284	0.096	<20	0.85	0.083	0.40	2.6	0.21	2.2	5.5	0.16	4	4.9	4.6		
STD OREAS131B	Standard																			1.94	3.32
STD OREAS45CA	Standard	0.041	16	747	0.15	175	0.121	<20	3.38	0.012	0.07	<0.1	0.03	43.0	0.2	<0.05	19	<0.5	<0.2		
STD OXC88	Standard																				
STD OXH82	Standard																				
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5		
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	39.7	0.07	0.021	18.4	0.5			
STD OXC88 Expected																					
STD OXH82 Expected																					
STD OREAS131B Expected																				1.86	3.14
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	0.005	<0.01	<0.1	<0.01	<0.1	0.2	<0.05	<1	<0.5	<0.2		
BLK	Blank																				
BLK	Blank																				
BLK	Blank																			<0.02	<0.01
Prep Wash																					
G1	Prep Blank	0.077	10	9	0.48	148	0.104	<20	0.83	0.081	0.45	<0.1	<0.01	1.9	0.3	<0.05	4	<0.5	<0.2		
G1	Prep Blank	0.075	11	12	0.46	143	0.103	<20	0.84	0.091	0.44	<0.1	<0.01	2.0	0.3	<0.05	4	<0.5	<0.2		

Appendix D: Precision GeoSurveys Inc. report



Precision
GeoSurveys Inc.

STW Block

Prepared for:
Radius Gold Inc.

October 2011
Shawn Walker, M.Sc., GIT

Table of Contents

1.0 Introduction.....1

 1.1 Survey Specifications.....3

2.0 Geophysical Data.....3

 2.1 Magnetic Data.....4

 2.2 Radiometric Data.....4

3.0 Survey Operations.....4

4.0 Equipment.....5

 4.1 AGIS.....5

 4.2 Spectrometer.....6

 4.3 Magnetometer.....7

 4.4 Base Station.....8

 4.5 Laser Altimeter.....9

5.0 Data Processing.....9

 5.1 Magnetic Processing.....9

 5.2 Radiometric Processing.....10

 5.3 Final Data Format.....12

Appendix A: Equipment Specifications13

Appendix B: Maps.....19

Introduction:

This report outlines the survey operations and data processing actions taken during the airborne geophysical survey flown at the STW grid (Figure 1). The airborne geophysical survey was flown by Precision GeoSurveys Inc. for Radius Gold Inc. The geophysical survey, carried out between July 25, 2011 to July 28, 2011, saw the acquisition of high resolution magnetic and radiometric data.

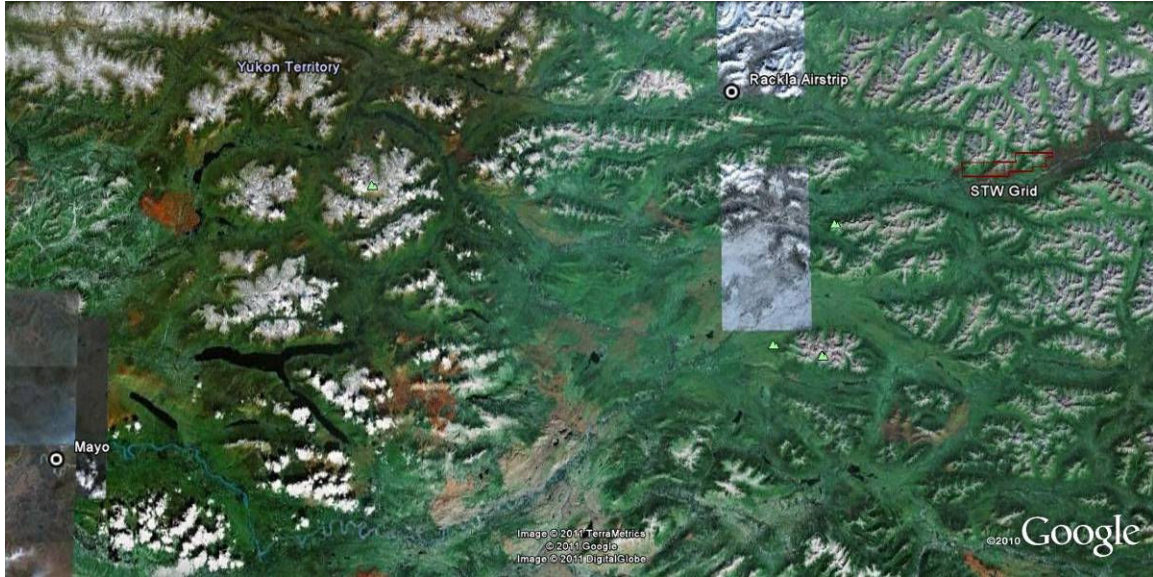


Figure 1: STW survey area location relative to the Rackla airstrip and Mayo, YT.

The STW grid is located approximately 190 kilometers north-east west of Mayo and 55 kilometers east south-east of the Rackla airstrip. The survey area of the STW grid is approximately 4.5 km by 18 km (Figure 2). A total of 351 line kilometers of magnetic and radiometric data were flown for this survey; this total includes tie lines and survey lines. The survey lines were originally planned for 100 m spacing, but were instead flown at 200 meter spacing at a $000^{\circ}/180^{\circ}$ heading; the tie lines were flown at 500 m spacing at a heading of $090^{\circ}/270^{\circ}$ (Figure 3).

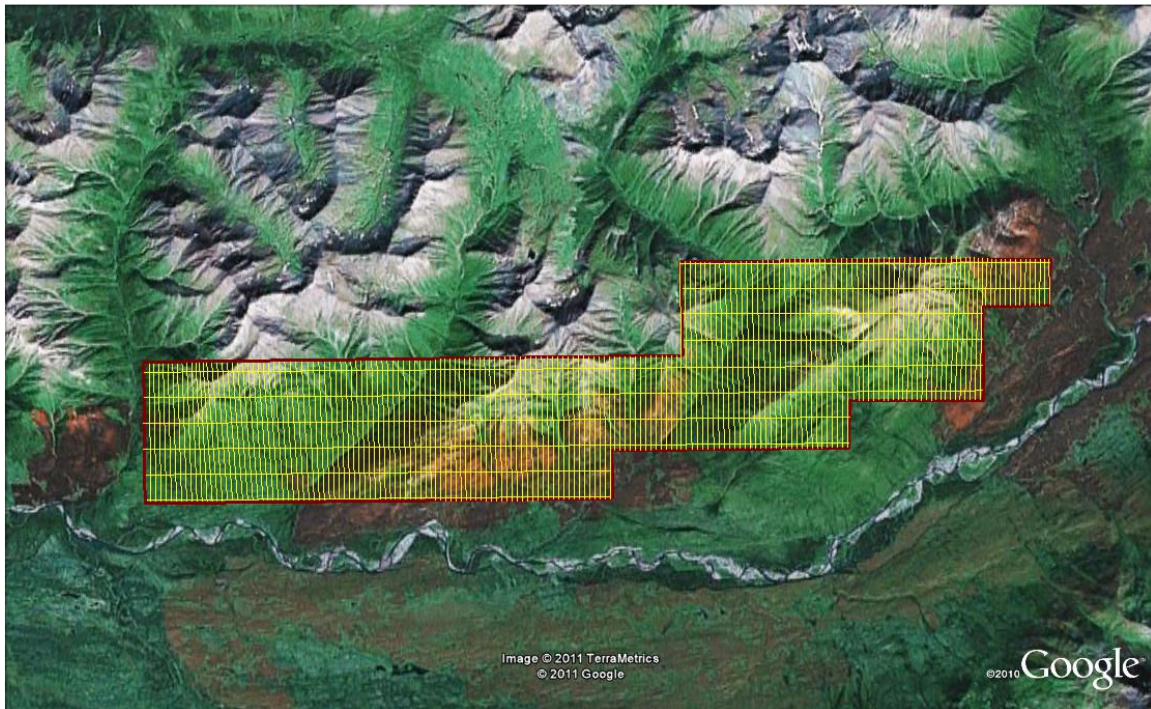


Figure 2: Block A with survey and tie lines in yellow and the boundary in red in plan view.

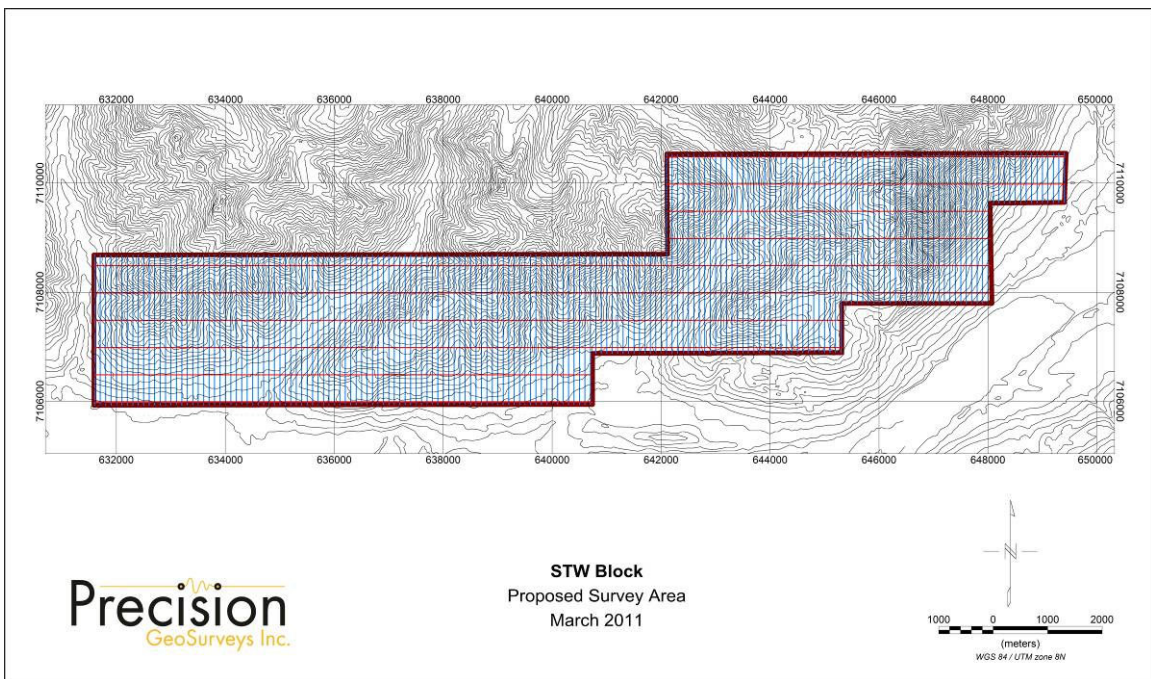


Figure 3: Proposed survey basemap of the STW grid showing survey (blue) and tie lines (light red) and the grid boundary (dark red).

Survey Specifications:

The geodetic system used for this survey is WGS 84 and the area is in both zone 8N and zone 9N. Because the majority of the grid is in UTM zone 8N, that was used for all processing and map making. The survey data acquisition specifications and coordinates for the STW grid survey are specified as followed (Table 1 and Table 2).

Survey Block	Line Spacing m	Survey Line km	Tie Line km	Total Line km	Survey Line Orientation	Nominal Survey Height m
STW	200	243	108	351	000° - 180°	35
Total				351		

Table 1: STW block- survey acquisition specifications.

Longitude	Latitude	Easting	Northing
132.0844444	64.09222222	642103	7110534
131.9341667	64.08916667	649435	7110549
131.9358333	64.08111111	649403	7109647
131.9636111	64.08166667	648041	7109631
131.9647222	64.06500000	648073	7107794
132.0211111	64.06611111	645317	7107794
132.0219444	64.05805556	645317	7106891
132.1155556	64.06000000	640741	7106875
132.1163889	64.05138889	640741	7105941
132.3038889	64.05500000	631587	7105925
132.3013889	64.07972222	631587	7108681
132.0858333	64.07555556	642118	7108697

Table 2: STW block survey polygon coordinates using WGS 84 in zone 8N.

2.0 Geophysical Data:

Geophysical data are collected in a variety of ways and are used to aid in the exploration and determination of geology, mineral deposits, oil and gas deposits, contaminated land sites and UXO detection.

For the purposes of this survey, airborne gamma ray spectrometer and magnetic data were collected to serve in the exploration of the STW property which contains rocks that are prospective for gold mineralization.

2.1 Magnetic Data:

Magnetic surveying is probably the most common airborne survey type to be conducted for both mineral and hydrocarbon exploration. The type of survey specifications, instrumentation, and interpretation procedures, depend on the objectives of the survey. Typically magnetic surveys are performed for:

1. Geological Mapping to aid in mapping lithology, structure and alteration in both hard rock environments and for mapping basement lithology, structure and alteration in sedimentary basins or for regional tectonic studies.
2. Depth to Basement mapping for exploration in sedimentary basins or mineralization associated with the basement surface.

2.2 Radiometric Data:

Radiometric surveys detect and map natural radioactive emanations, called gamma rays, from rocks and soils. All detectable gamma radiation from earth materials come from the natural decay products of three primary elements; uranium, thorium, and potassium. The purpose of radiometric surveys is to determine either the absolute or relative amounts of U, Th, and K in surface rocks and soils.

3.0 Survey Operations:

Precision GeoSurveys flew the STW property using a Bell 206 BIII Jet Ranger (Figure 4). The survey lines were flown at a nominal line spacing of two hundred (200) meters and the tie lines were flown at 500 m spacing for both the spectrometer and magnetometer as they were acquired simultaneously. The average survey elevation was 37.4 meters vertically above ground. The experience of the pilot helped to ensure that the data quality objectives were met and that the safety of the flight crew was never compromised given the potential risks involved in airborne surveying.



Figure 4: Bell 206 Jet Ranger equipped with mag stinger for magnetic data acquisition.

The base of operations for this survey was the Radius Gold camp situated next to the Rackla airstrip. The Precision crew consisted of three members:

John Witham – Pilot
Chris McKnight – Operator
Shawn Walker – On-site Geophysicist

The survey was started on July 25, 2011 and completed on July 28, 2011. The survey encountered few delays due to poor weather conditions and magnetic storms.

4.0 Equipment:

For this survey, a magnetometer, spectrometer, base station, laser altimeter, and a data acquisition system were required to carry out the survey and collect quality, high resolution data. The survey magnetometer is carried in an approved “stinger” configuration to enhance flight safety and improve data quality in mountainous terrain.

4.1 AGIS:

The Airborne Geophysical Information System, AGIS, (Figure 5), is the main computer used in data recording, data synchronizing, displaying real-time QC data for the geophysical operator, and generation of navigation information for the pilot display system.



Figure 5: AGIS installed in the Bell 206.

The AGIS was manufactured by Pico Envirotec; therefore the system uses standardized Pico software and external sensors are connected to the system via RS-232 serial communication cables. The AGIS data format is easily converted into Geosoft or ASCII file formats by a supplied conversion program called PEIView. Additional Pico software allows for post real time magnetic compensation and survey quality control procedures.

4.2 Spectrometer:

The IRIS, or Integrated Radiometric Information System is a fully integrated, gamma radiation detection system containing two downward facing NaI detecting crystals for a total volume of 8.4 litres (Figure 6). The IRIS is equipped with upward-shielding high density RayShield® gamma-attenuating material to minimize cosmic and solar gamma noise. Real time data acquisition, navigation and communication tasks are integrated into a single unit that is installed in the rear of the aircraft as indicated below. Information such as total count, counts of various radioelements (K, U, Th, etc.), temperature, barometric pressure, atmospheric humidity and survey altitude can all be monitored on the AGIS screen for immediate QC. All the radiometric data are recorded at 1 Hz.



Figure 6: IRIS strapped into the cargo box of the helicopter.

4.3 Magnetometer:

The magnetometer used by Precision GeoSurveys is a Scintrex cesium vapor CS-3 magnetometer. The system was housed in a front mounted “stinger” (Figure 7). The CS-3 is a high sensitivity/low noise magnetometer with automatic hemisphere switching and a wide voltage range, the static noise rating for the unit is +/- 0.01 nT. On the AGIS screen the operator can view the raw magnetic response, the magnetic fourth difference, aircraft position, and the survey altitude for immediate QC of the magnetic data. The magnetic data are recorded at 10 Hz. A magnetic compensator is also used to remove noise created by the movement of the helicopter as it pitches, rolls and yaws within the Earth’s geomagnetic field.



Figure 7: View of the mag stinger.

4.4 Base Station:

For monitoring and recording of the Earth's diurnal magnetic field variation, Precision GeoSurveys uses two base stations: Scintrex proton precession Envi Pro magnetometer and GEM GSM-19T magnetometer. Both base stations are mounted as close to the survey blocks as possible to give accurate magnetic field data. The Envi Pro base station (Figure 8), uses the well proven precession technology to sample at a rate of 0.5 Hz. A GPS is integrated with the system to record real GPS time that is used to correlate with the GPS time collected by the airborne CS-3 magnetometer.



Figure 8: Scintrex Envi Pro proton precession magnetometer.

The GEM GSM-19T magnetometer (Figure 9) also uses the proton precession technology sampling at a rate of 0.5 Hz. The GSM-19T has an accuracy of +/- 0.2 nT at 1 Hz.



Figure 9: GEM GSM-19T proton precession magnetometer.

4.5 Laser Altimeter:

The pilot is provided with terrain guidance and clearance with an Acuity AccuRange AR3000 laser altimeter (Figure 10). This is attached at the aft end of the magnetometer boom. The AR3000 sensor is a time-of-flight sensor that measures distance by a rapidly-modulated and collimated laser beam that creates a dot on the target surface. The maximum range of the laser altimeter is 300 m off of natural surfaces with 90% reflectance and 3 km off special reflectors. Within the sensor unit, reflected signal light is collected by the lens and focused onto a photodiode. Through serial communications and analog outputs, the distance data are transmitted and collected by the AGIS at 10 Hz.



Figure 10: Acuity AccuRange AR3000 laser altimeter.

5.0 Data Processing:

After all the data are collected after a survey flight several procedures are undertaken to ensure that the data meet a high standard of quality. All data were processed using Pico Envirotec software and Geosoft Oasis Montaj geophysical processing software.

5.1 Magnetic Processing:

During aeromagnetic surveying noise is introduced to the magnetic data by the aircraft itself. Movement in the aircraft (roll, pitch and yaw) and the permanent magnetization of the aircraft parts (engine and other ferric objects) are large contributing factors to this noise. To remove this noise a process called magnetic compensation is implemented. The magnetic compensation process starts with a test flight at the beginning of the survey where the aircraft flies in the four orthogonal headings required for the survey (000°/180° and 090°/270° in the case of this survey) at an altitude where there is no ground effect in the magnetic data. In each heading, specified 3 roll, 3 pitch, and 3 yaw maneuvers are performed by the pilot; these maneuvers provide the data that are required to calculate the necessary parameters for compensating the magnetic data. A computer program called PEIComp is used to create a model for each survey to remove the noise induced by

aircraft movement; this model is applied to each survey flight so the data can be further processed.

Followed by the compensation flight, a lag test is conducted. A lag correction of 0.8 seconds was applied to the total magnetic field data to compensate for the lag in the recording system as the magnetometer sensor flies 5.70 m ahead of the GPS antenna.

A magnetic base station is set up before every flight to ensure that diurnal activity is recorded during the survey flights. In this case, the base station was located in the bushes close to the Rackla airstrip. Base station readings were reviewed at regular intervals to ensure that no data were collected during periods with high diurnal activity (greater than 5 nT per minute). The base station was installed within the survey blocks at a magnetically noise-free area, away from metallic items such as steel objects, vehicles, or power lines. The magnetic variations recorded from the stationary base station are removed from the magnetic data recorded in flight to ensure that the anomalies seen are real and not due to solar activity.

Filtering is applied to the laser altimeter data as to remove vegetation clutter and to show the actual ground clearance. To remove vegetation clutter a Rolling Statistic filter was applied to the laser altimeter data and a low pass filter was used to smooth out the laser altimeter profile to remove isolated noise. As a result, filtering the data will yield a more uniform surface in close conformance with the actual terrain.

Some filtering of the magnetic data is also required. A Non Linear filter was used for spike removal. The 1D Non-Linear Filter is ideal for removing very short wavelength, but high amplitude features from data. It is often thought of as a noise spike-rejection filter, but it can also be effective for removing short wavelength geological features, such as signals from surficial features. The 1D Non-Linear Filter is used to locate and remove data that are recognized as noise. The algorithm is 'non-linear' because it looks at each data point and decides if that datum is noise or a valid signal. If the point is noise, it is simply removed and replaced by an estimate based on surrounding data points. Parts of the data that are not considered noise are not modified. The combination of a Non-Linear filter for noise removal and a low pass trend enhancement filter resulted in level data as indicated in the results section of this report. The low pass filters simply smoothes out the magnetic profile to remove isolated noise.

5.2 Radiometric Processing:

Calibrating the spectrometer system in the helicopter is the first and vital step before the airborne radiometric data can be processed. Once calibration of the system has been complete, the radiometric data are processed by windowing the full spectrum to create channels for U, K, Th and total count. A 5-point Hanning filter was applied to the Cosmic window before going any further with processing the radiometric data.

Aircraft background and cosmic stripping corrections were applied to all three elements, upward uranium channels, and total count using the following formula:

$$C_{ac} = C_{lt} - (a_c + b_c * \text{Cos}_f)$$

where: C_{ac} is the background and cosmic corrected channel
 C_{lt} is the live time corrected channel
 a_c is the aircraft background for this channel
 b_c is the cosmic stripping coefficient for this channel
 Cos_f is the filtered cosmic channel

The radon backgrounds are first removed followed by compton stripping. Spectral overlap corrections are applied on to potassium, uranium, and thorium as part of the compton stripping process. This is done by using the stripping ratios that have been calculated for the spectrometer by prior calibration, this breaks the corrected elemental values down into the apparent radioelement concentrations. Lastly, attenuation corrections are applied to the data which involves nominal survey altitude corrections, in this case 34 metres is applied to total count, potassium, uranium, and thorium data.

With all corrections applied to the radiometric data, the final step is to convert the corrected potassium, uranium, and thorium to apparent radioelement concentrations using the following formula:

$$eE = C_{cor} / s$$

where: eE is the element concentration K(%) and equivalent element concentration of U(ppm) & Th(ppm)
 s is the experimentally determined sensitivity
 C_{cor} is the fully corrected channel

Finally, the natural air absorption dose rate is determined using the following formula:

$$E = 13.08 * K + 5.43 * eU + 2.69 * eTh$$

where: E is the absorption dose rate in nG/h
 K is the concentration of potassium (%)
 eU is the equivalent concentration of uranium (ppm)
 eTh is the equivalent concentration of thorium (ppm)

To calculate for radiometric ratios it follows the guidelines in the IAEA report. Due to statistical uncertainties in the individual radioelement measurements, some care was taken in the calculation of the ratio in order to obtain statistically significant values. Following IAEA guidelines, the method of determining ratios of the eU/eTh , eU/K and eTh/K was as follows:

1. Any data points where the potassium concentration was less than 0.25 were neglected.
2. The element with the lowest corrected count rate was determined.

3. The element concentrations of adjacent points on either side of each data point were summed until they exceeded a certain threshold value. This threshold was set to be equivalent to 100 counts of the element with the lowest count rate. Additional minimum thresholds of 1.6% for Potassium, 20 ppm for thorium, and 30 ppm for uranium were set up to insure meaningful ratios.
4. The ratios were calculated using the accumulated sums.

With this method, the errors associated with the calculated ratios will be similar for all data points.

5.3 Final Data Format

Abbreviations used in the GDB files are listed in the following table:

Channel	Units	Description
X	m	UTM Easting - WGS84 Zone 8 North
Y	m	UTM Northing - WGS84 Zone 8 North
Galt_m	m	GPS height - WGS84 Zone 8 North
Lalt	m	Laser Altimeter readings
DTM	m	Digital Terrain Model
GPStime	Hours:min:secs	GPStime
basemag	nT	Base station diurnal data
mag	nT	Total Magnetic Intensity
BaltLC	m	Barometric Altitude
BAROmg_kP	KiloPascal	Atmospheric Pressure
BstpLC	m	Barometric Altitude (Pres and Temp Corrected)
TempLC	Degrees C	Air Temperature
COSFILT	counts/sec	Spectrometer - Filtered Cosmic
TCcor	μR	Dose Rate Equivalent
TCexp	μR/hour	Exposure Rate - SUM(%k, eU, eTh) * determined factors
Kcor	%	Equivalent Concentration - Potassium
Ucor	ppm	Equivalent Concentration - Uranium
THcor	ppm	Equivalent Concentration - Thorium
THKratio		Spectrometer - eTh/%K ratio
UKratio		Spectrometer - eU/%K ratio
UTHratio		Spectrometer - eU/eTh ratio
Date	yyyy/mm/dd	Local Flight Date

Table 3: STW block survey channel abbreviations.

The file format will be provided in two (2) formats, the first will be a .GDB file for use in Geosoft Oasis Montaj, the second format will be a .XYZ file, this is text file. A complete file provided in each format will contain both magnetic and radiometric data.

Appendix A
Equipment Specifications

Scintrex Envi Pro Proton Magnetometer with Integrated GPS (Base Station)

Total Field Operating Range	23,000 to 100,000 nT (gamma)
Total Field Absolute Accuracy	±1 nT (gamma)
Sensitivity	0.1 nT (gamma) at 2 second sampling rate
Tuning/ Sampling	Fully solid state. Manual or automatic, keyboard selectable Cycling (Reading) Rates 0.5, 1, 2, or 3 seconds
Gradiometer Option	Includes a second sensor, 0.5m (20 inch) staff extender and processor module
Gradient Tolerance	> 7000 nT (gamma)/m
'Walking' Mode	Continuous reading, cycling as fast as 0.5 seconds
Supplied GPS Accuracy	+/- 1m (Autonomous), < 1m WAAS Connects to most external GPS receivers with NMEA & PPS output
Standard Memory	Total Field Measurements: 84,000 readings Gradiometer Measurements: 67,000 readings Base Station Measurements: 500,000 readings
Real-Time Clock	1 second resolution, ± 1 second stability over 24 hours or GPS time
Digital Data Output	RS-232C, USB Adapter
Power Supply	Rechargeable, 2.9 Ah, lead-acid dry cell battery 12 Volts External 12 Volt input for base station operations
Operating Temperature	40°C to +60°C (-40°F to 140°F)
Dimensions and Weight	Console: 250mm x 152mm x 55mm (10" x 6" x 2.25") 2.45 kg (5.4 lbs) with rechargeable battery Magnetic 70mm d x 175mm (2.75"d x 7") Sensor: 1 kg (2.2 lbs) Gradiometer 70mm d x 675mm (2.75"d x 26.5") Sensor: (with staff extender) 1.15 kg (2.5 lbs) Sensor Staff: 25mm d x 2m (1"d x 76") 0.8 kg (1.75 lbs)

GEM GSM-19T Proton Precession Magnetometer (Base Station)

Configuration Options	15
Cycle Time	999 to 0.5 sec
Environmental	-40 to +60 ° Celsius
Gradient Tolerance	7,000 nT/m
Magnetic Readings	299,593
Operating Range	10, 000 to 120,000 nT
Power	12 V @ 0.62 A
Sensitivity	0.1 nT @ 1 sec
Weight (Console/ Sensor)	3.2 Kg
Integrated GPS	Yes

Scintrex CS-3 Survey Magnetometer

Operating Principal	Self-oscillation split-beam Cesium Vapor (non-radioactive Cs-133)
Operating Range	15,000 to 105,000 nT
Gradient Tolerance	40,000 nT/metre
Operating Zones	10° to 85° and 95° to 170°
Hemisphere Switching	a) Automatic b) Electronic control actuated by the control voltage levels (TTL/CMOS) c) Manual
Sensitivity	0.0006 nT $\sqrt{\text{Hz}}$ rms.
Noise Envelope	Typically 0.002 nT P-P, 0.1 to 1 Hz bandwidth
Heading Error	+/- 0.25 nT (inside the optical axis to the field direction angle range 15° to 75° and 105° to 165°)
Absolute Accuracy	<2.5 nT throughout range
Output	a) continuous signal at the Larmor frequency which is proportional to the magnetic field (proportionality constant 3.49857 Hz/nT) sine wave signal amplitude modulated on the power supply voltage b) square wave signal at the I/O connector, TTL/CMOS compatible
Information Bandwidth	Only limited by the magnetometer processor used
Sensor Head	Diameter: 63 mm (2.5") Length: 160 mm (6.3") Weight: 1.15 kg (2.6 lb)
Sensor Electronics	Diameter: 63 mm (2.5") Length: 350 mm (13.8") Weight: 1.5 kg (3.3 lb)
Cable, Sensor to Sensor Electronics	3m (9' 8"), lengths up to 5m (16' 4") available
Operating Temperature	-40°C to +50°C
Humidity	Up to 100%, splash proof
Supply Power	24 to 35 Volts DC
Supply Current	Approx. 1.5A at start up, decreasing to 0.5A at 20°C
Power Up Time	Less than 15 minutes at -30°C

Pico Envirotec GRS-10 Gamma Spectrometer

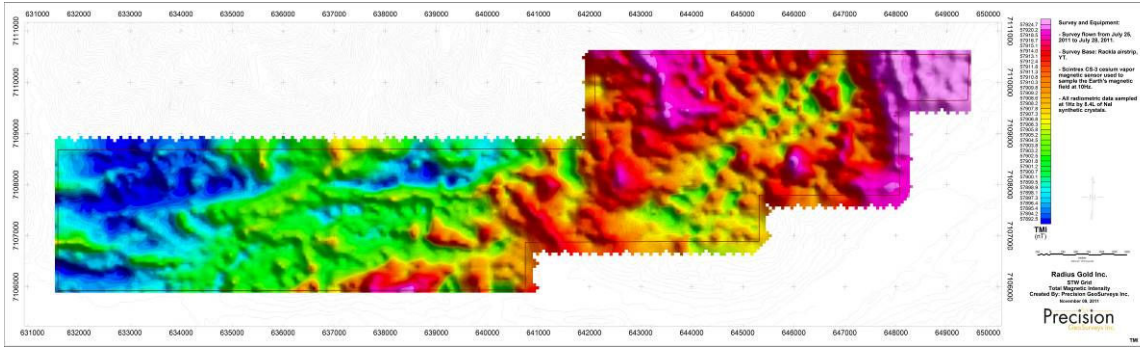
Crystal volume	16.8 liters downward plus 4.2 liters upward
Resolution	256/512 channels
Tuning	Automatic using peak determination algorithm
Detector	Digital Peak
Calibration	Fully automated detector
Real Time	Linearization and gain stabilization
Communication	RS232
Detectors	Expandable to 10 detectors and digital peak
Count Rate	Up to 60,000 cps per detector
Count Capacity per channel	65545
Energy detection range:	36 KeV to 3 MeV
Cosmic channel	Above 3 MeV
Upward Shielding	RayShield® non-radioactive shielding on downward looking crystals
Downward Shielding	6 mm lead plate on upward looking crystals
Spectra	Collected spectra of 256/512 channels, internal spectrum resolution 1024
Software	Calibration: High voltage adjustment, linearity correction coefficients calculation, and communication test support Real Time Data Collection: Automatic Gain real time control on natural isotopes, and PC based test and calibration software suite
Sensor	Each box containing two (2) gamma detection NaI(Tl) crystals – each 4.2 liters. (256 cu in.) (approx. 100 x 100 x 650 mm) Total volume of approx 8.4 litres or 512 cu in with detector electronics
Spectra Stabilization	Real time automatic corrections on radio nuclei: Th, U, K. No implanted sources.

Pico Envirotec AGIS data recorder system

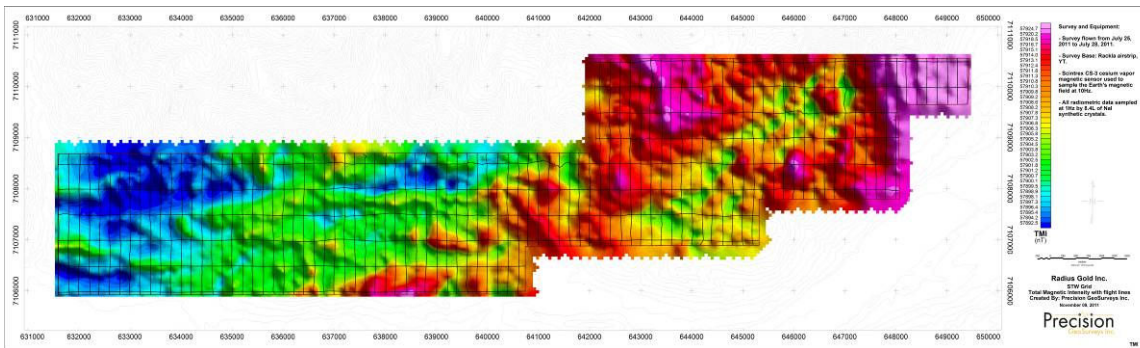
(for Navigation, Gamma spectrometer, VLF-EM and Magnetometer Data Acquisition)

Functions	Airborne Geophysical Information System (AGIS) with integrated Global Positioning System Receiver (GPS) and all necessary navigation guidance software. Inputs for geophysical sensors - portable gamma ray spectrometer GRS-10, MMS4 Magnetometer, Totem 2A EM, A/D converter, temperature probe, humidity probe, barometric pressure probe, and laser altimeter. Output for the 2 line Pilot Indicator
Display	Touch screen with display of 800 x 600 pixels; customized keypad and operator keyboard. Multi-screen options for real-time viewing of all data inputs, fiducial points, flight line tracking, and GPS channels by operator.
GPS Navigation	Garmin 12-channel, WAAS-enabled
Data Sampling	Sensor dependent
Data Synchronization	Synchronized to GPS position
Data File	PEI Binary data format
Storage	80 GB
Supplied Software	PEIView: Allows fast data Quality Control (QC) Data Format: Geosoft GBN and ASCII output PEIConv: For survey preparation and survey plot after data acquisition
Software	Calibration: High voltage adjustment, linearity correction coefficients calculation, and communication test support Real Time Data Collection: Automatic Gain real time control on natural isotopes and PC based test and calibration software suite
Power Requirements	24 to 32 VDC
Temperature	Operating:-10 to +55 deg C; storage:-20 to +70 deg C

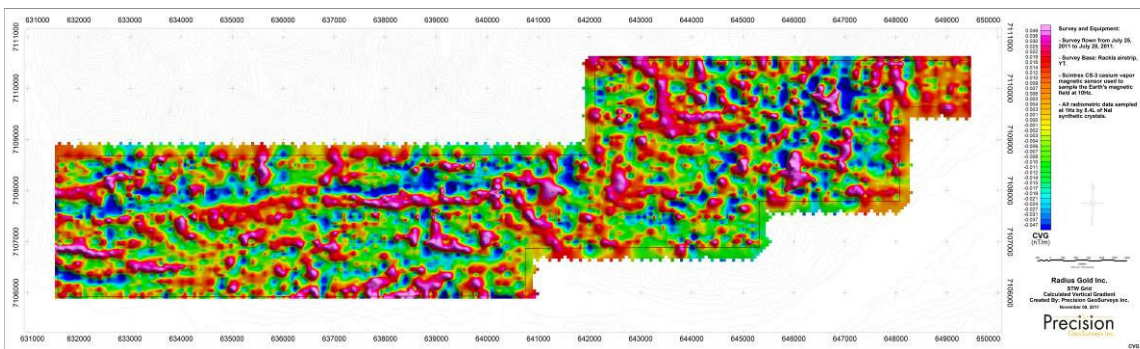
Appendix B
Maps



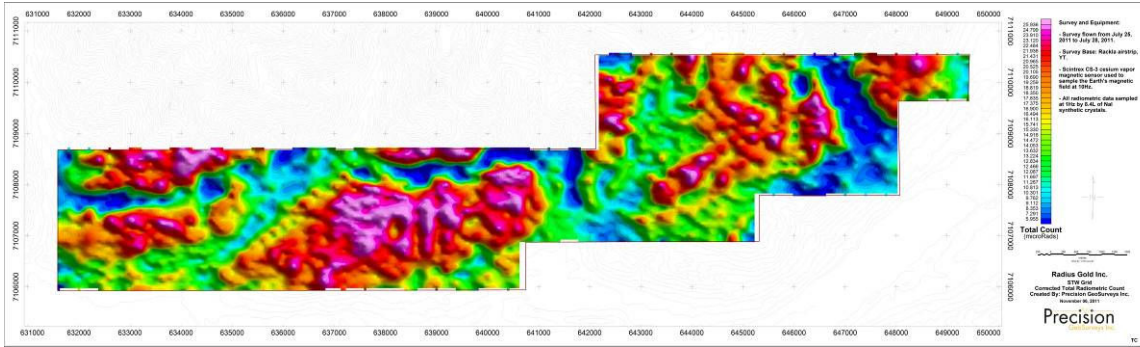
Map 1: STW Grid – Total Magnetic Field.



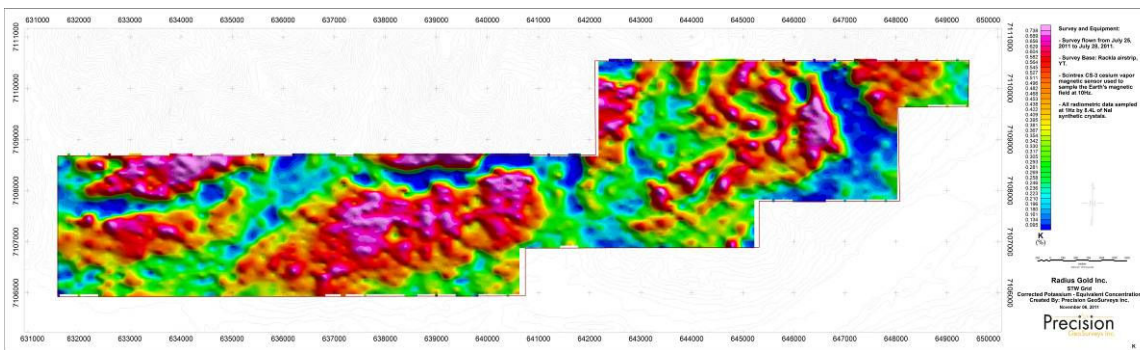
Map 2: STW Grid – Total Magnetic Field with plotted flight lines.



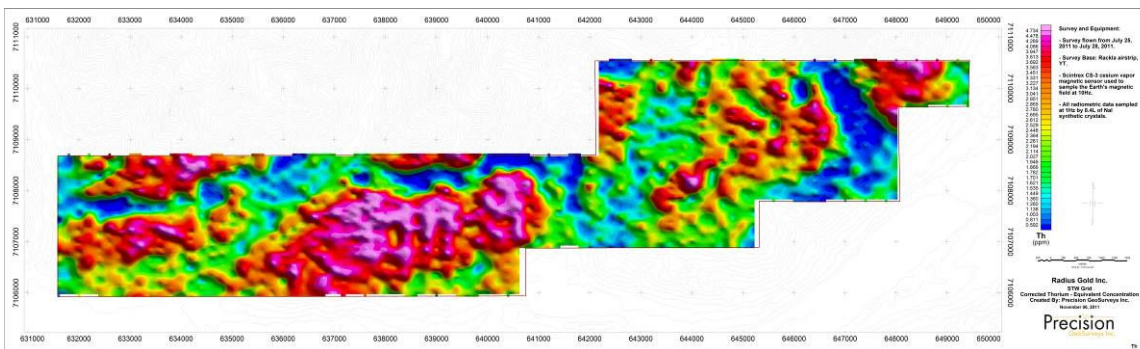
Map 3: STW Grid – Calculated Vertical Gradient.



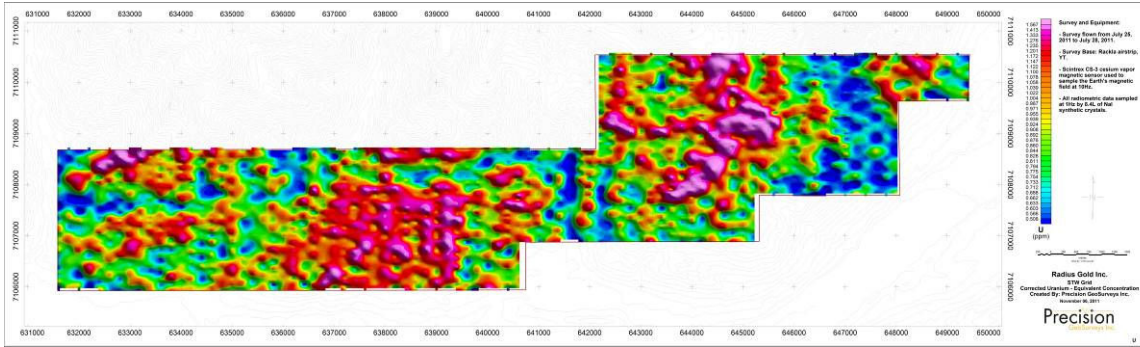
Map 4: STW Grid – Corrected Total Radiometric Count.



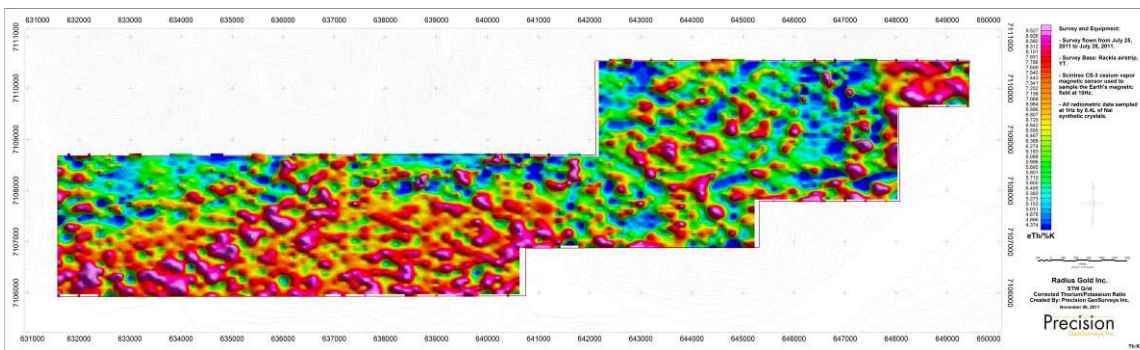
Map 5: STW Grid – Corrected Potassium.



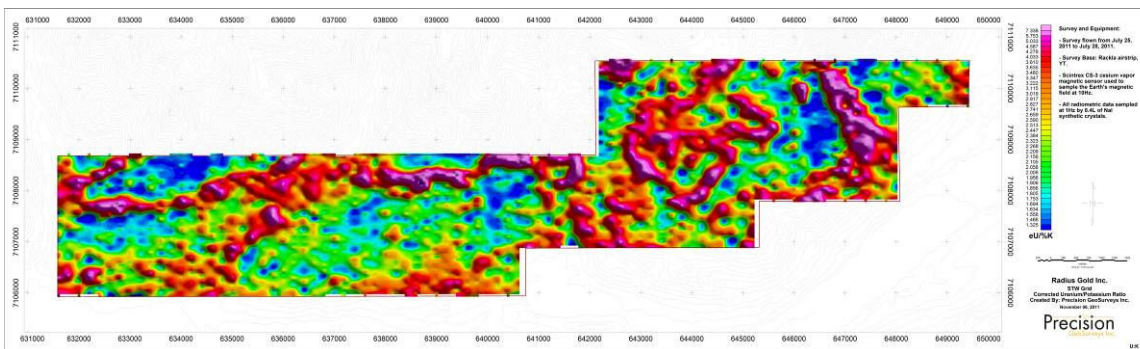
Map 6: STW Grid – Corrected Thorium.



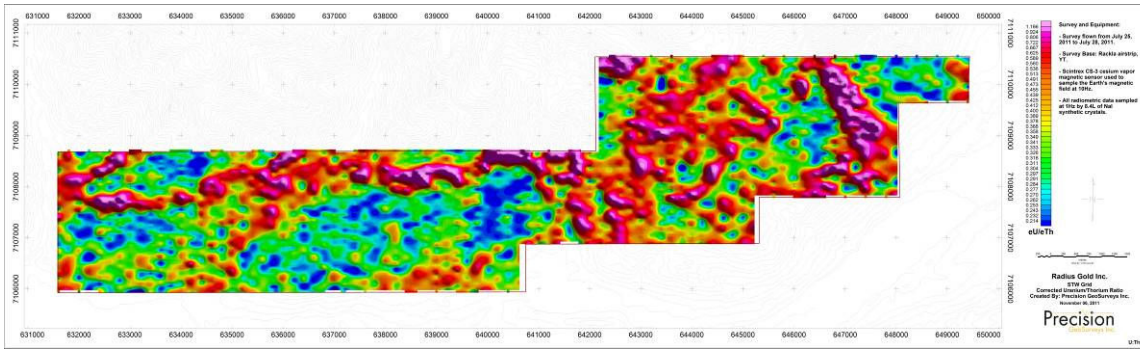
Map 7: STW Grid – Corrected Uranium.



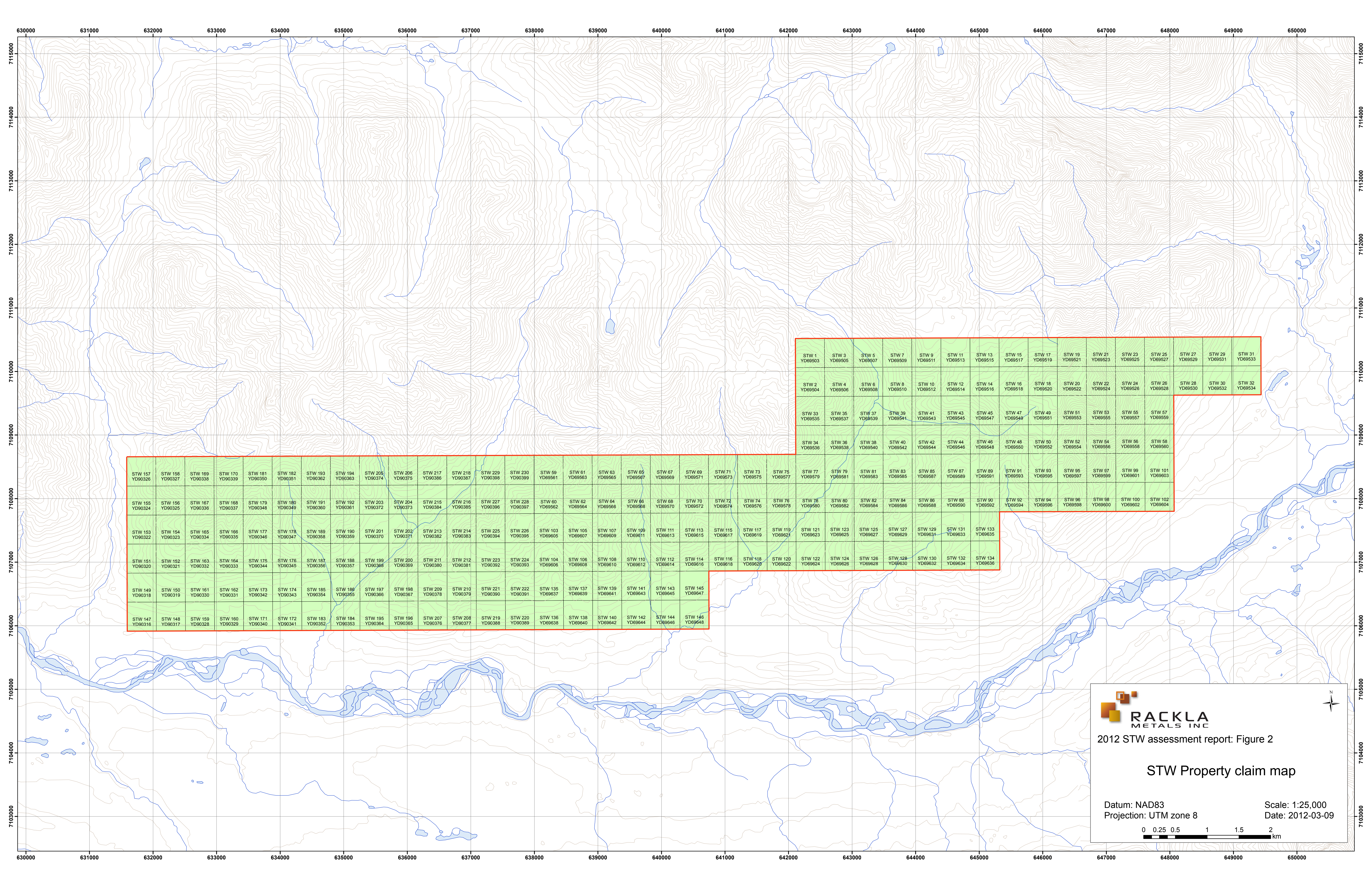
Map 8: STW Grid – Thorium/Potassium Ratio.



Map 9: STW Grid – Uranium/Potassium Ratio.




Map 10: STW Grid – Uranium/Thorium Ratio.



STW 157 YD90326	STW 158 YD90327	STW 169 YD90338	STW 170 YD90339	STW 181 YD90350	STW 182 YD90351	STW 193 YD90362	STW 184 YD90363	STW 205 YD90374	STW 206 YD90375	STW 217 YD90386	STW 218 YD90387	STW 229 YD90398	STW 230 YD90399	STW 59 YD69561	STW 61 YD69563	STW 63 YD69565	STW 65 YD69567	STW 67 YD69569	STW 69 YD69571	STW 71 YD69573	STW 73 YD69575	STW 75 YD69577	STW 77 YD69579	STW 79 YD69581	STW 81 YD69583	STW 83 YD69585	STW 85 YD69587	STW 87 YD69589	STW 89 YD69591	STW 91 YD69593	STW 93 YD69595	STW 95 YD69597	STW 97 YD69599	STW 99 YD69601	STW 101 YD69603		
STW 155 YD90324	STW 156 YD90325	STW 167 YD90336	STW 168 YD90337	STW 179 YD90348	STW 180 YD90349	STW 191 YD90360	STW 192 YD90361	STW 203 YD90372	STW 204 YD90373	STW 215 YD90384	STW 216 YD90385	STW 227 YD90396	STW 228 YD90397	STW 60 YD69562	STW 62 YD69564	STW 64 YD69566	STW 66 YD69568	STW 68 YD69570	STW 70 YD69572	STW 72 YD69574	STW 74 YD69576	STW 76 YD69578	STW 78 YD69580	STW 80 YD69582	STW 82 YD69584	STW 84 YD69586	STW 86 YD69588	STW 88 YD69590	STW 90 YD69592	STW 92 YD69594	STW 94 YD69596	STW 96 YD69598	STW 98 YD69600	STW 100 YD69602	STW 102 YD69604		
STW 153 YD90322	STW 154 YD90323	STW 165 YD90334	STW 166 YD90335	STW 177 YD90346	STW 178 YD90347	STW 189 YD90358	STW 190 YD90359	STW 201 YD90370	STW 202 YD90371	STW 213 YD90382	STW 214 YD90383	STW 225 YD90394	STW 226 YD90395	STW 103 YD69605	STW 105 YD69607	STW 107 YD69609	STW 109 YD69611	STW 111 YD69613	STW 113 YD69615	STW 115 YD69617	STW 117 YD69619	STW 119 YD69621	STW 121 YD69623	STW 123 YD69625	STW 125 YD69627	STW 127 YD69629	STW 129 YD69631	STW 131 YD69633	STW 133 YD69635								
STW 151 YD90320	STW 152 YD90321	STW 163 YD90332	STW 164 YD90333	STW 175 YD90344	STW 176 YD90345	STW 187 YD90356	STW 188 YD90357	STW 199 YD90368	STW 200 YD90369	STW 211 YD90380	STW 212 YD90381	STW 223 YD90392	STW 224 YD90393	STW 104 YD69606	STW 106 YD69608	STW 108 YD69610	STW 110 YD69612	STW 112 YD69614	STW 114 YD69616	STW 116 YD69618	STW 118 YD69620	STW 120 YD69622	STW 122 YD69624	STW 124 YD69626	STW 126 YD69628	STW 128 YD69630	STW 130 YD69632	STW 132 YD69634	STW 134 YD69636								
STW 149 YD90318	STW 150 YD90319	STW 161 YD90330	STW 162 YD90331	STW 173 YD90342	STW 174 YD90343	STW 185 YD90354	STW 186 YD90355	STW 197 YD90366	STW 198 YD90367	STW 209 YD90378	STW 210 YD90379	STW 221 YD90390	STW 222 YD90391	STW 135 YD69637	STW 137 YD69639	STW 139 YD69641	STW 141 YD69643	STW 143 YD69645	STW 145 YD69647																		
STW 147 YD90316	STW 148 YD90317	STW 159 YD90328	STW 160 YD90329	STW 171 YD90340	STW 172 YD90341	STW 183 YD90352	STW 184 YD90353	STW 195 YD90364	STW 196 YD90365	STW 207 YD90376	STW 208 YD90377	STW 219 YD90388	STW 220 YD90389	STW 136 YD69638	STW 138 YD69640	STW 140 YD69642	STW 142 YD69644	STW 144 YD69646	STW 146 YD69648																		

STW 1 YD69503	STW 3 YD69505	STW 5 YD69507	STW 7 YD69509	STW 9 YD69511	STW 11 YD69513	STW 13 YD69515	STW 15 YD69517	STW 17 YD69519	STW 19 YD69521	STW 21 YD69523	STW 23 YD69525	STW 25 YD69527	STW 27 YD69529	STW 29 YD69531	STW 31 YD69533
STW 2 YD69504	STW 4 YD69506	STW 6 YD69508	STW 8 YD69510	STW 10 YD69512	STW 12 YD69514	STW 14 YD69516	STW 16 YD69518	STW 18 YD69520	STW 20 YD69522	STW 22 YD69524	STW 24 YD69526	STW 26 YD69528	STW 28 YD69530	STW 30 YD69532	STW 32 YD69534
STW 33 YD69535	STW 35 YD69537	STW 37 YD69539	STW 39 YD69541	STW 41 YD69543	STW 43 YD69545	STW 45 YD69547	STW 47 YD69549	STW 49 YD69551	STW 51 YD69553	STW 53 YD69555	STW 55 YD69557	STW 57 YD69559			
STW 34 YD69536	STW 36 YD69538	STW 38 YD69540	STW 40 YD69542	STW 42 YD69544	STW 44 YD69546	STW 46 YD69548	STW 48 YD69550	STW 50 YD69552	STW 52 YD69554	STW 54 YD69556	STW 56 YD69558	STW 58 YD69560			

 **RACKLA**
METALS INC

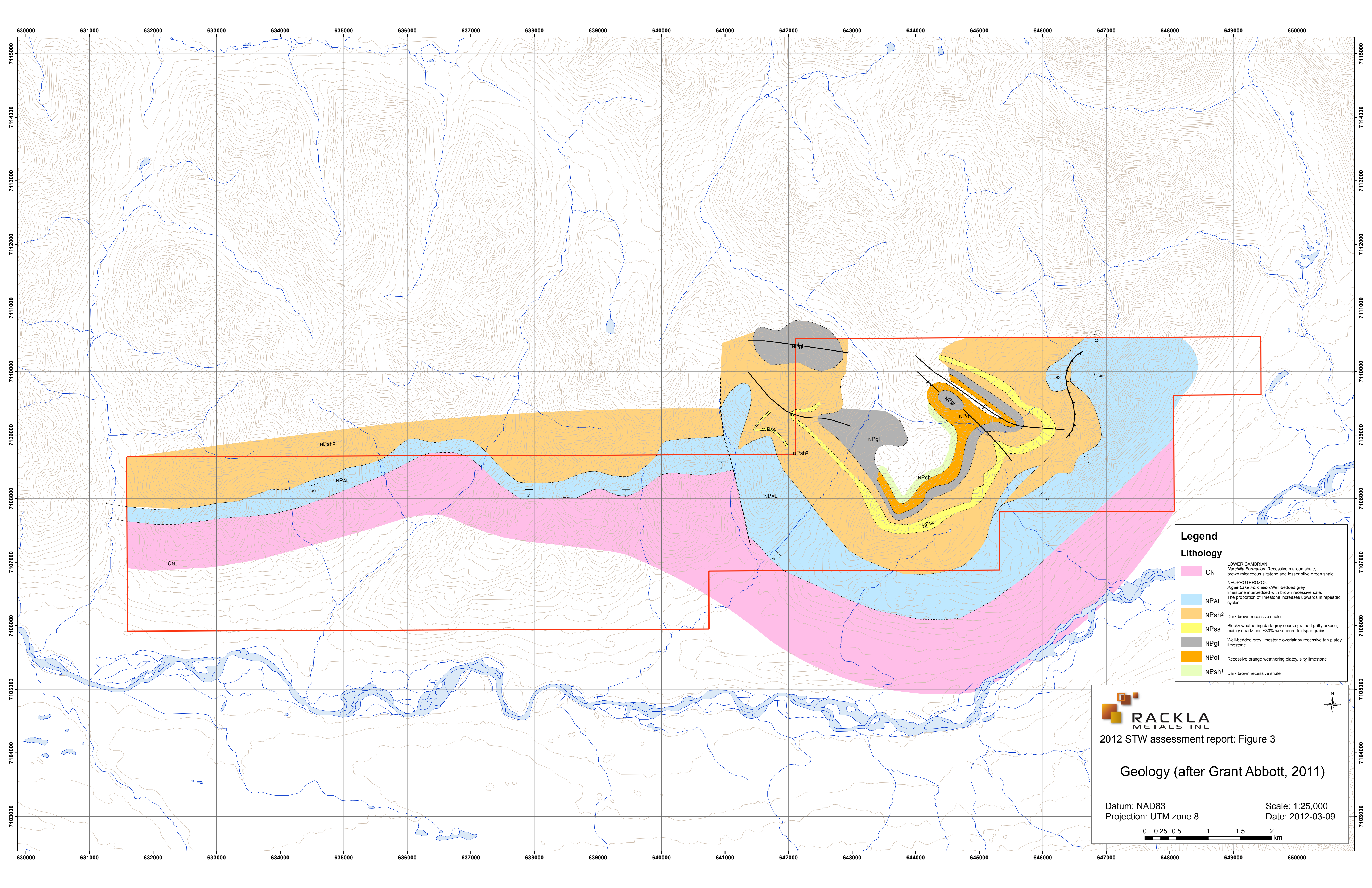
2012 STW assessment report: Figure 2

STW Property claim map

Datum: NAD83
Projection: UTM zone 8

Scale: 1:25,000
Date: 2012-03-09


0 0.25 0.5 1 1.5 2 km



Legend

Lithology

- CN** LOWER CAMBRIAN
Murchills Formation: Recessive maroon shale, brown micaceous siltstone and lesser olive green shale
- NPAL** NEOPROTEROZOIC
Algae Lake Formation: Well-bedded grey limestone interbedded with brown recessive shale. The proportion of limestone increases upwards in repeated cycles
- NPsh²** Dark brown recessive shale
- NPss** Blocky weathering dark grey coarse grained gritty arkose; mainly quartz and ~30% weathered feldspar grains
- NPgl** Well-bedded grey limestone overlain by recessive tan platy limestone
- NPo** Recessive orange weathering platy, silty limestone
- NPsh¹** Dark brown recessive shale





**RACKLA
METALS INC**

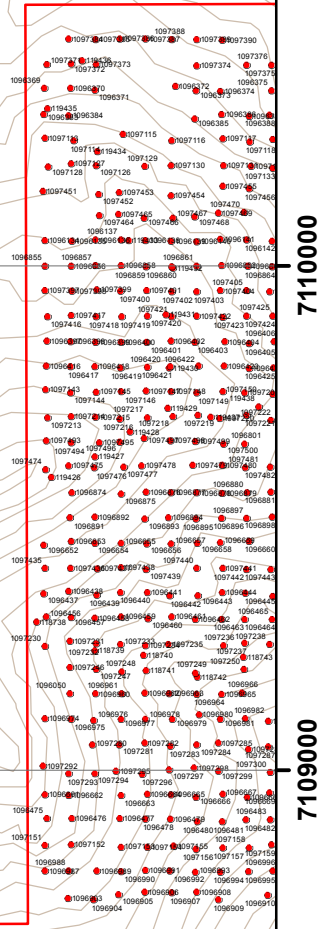
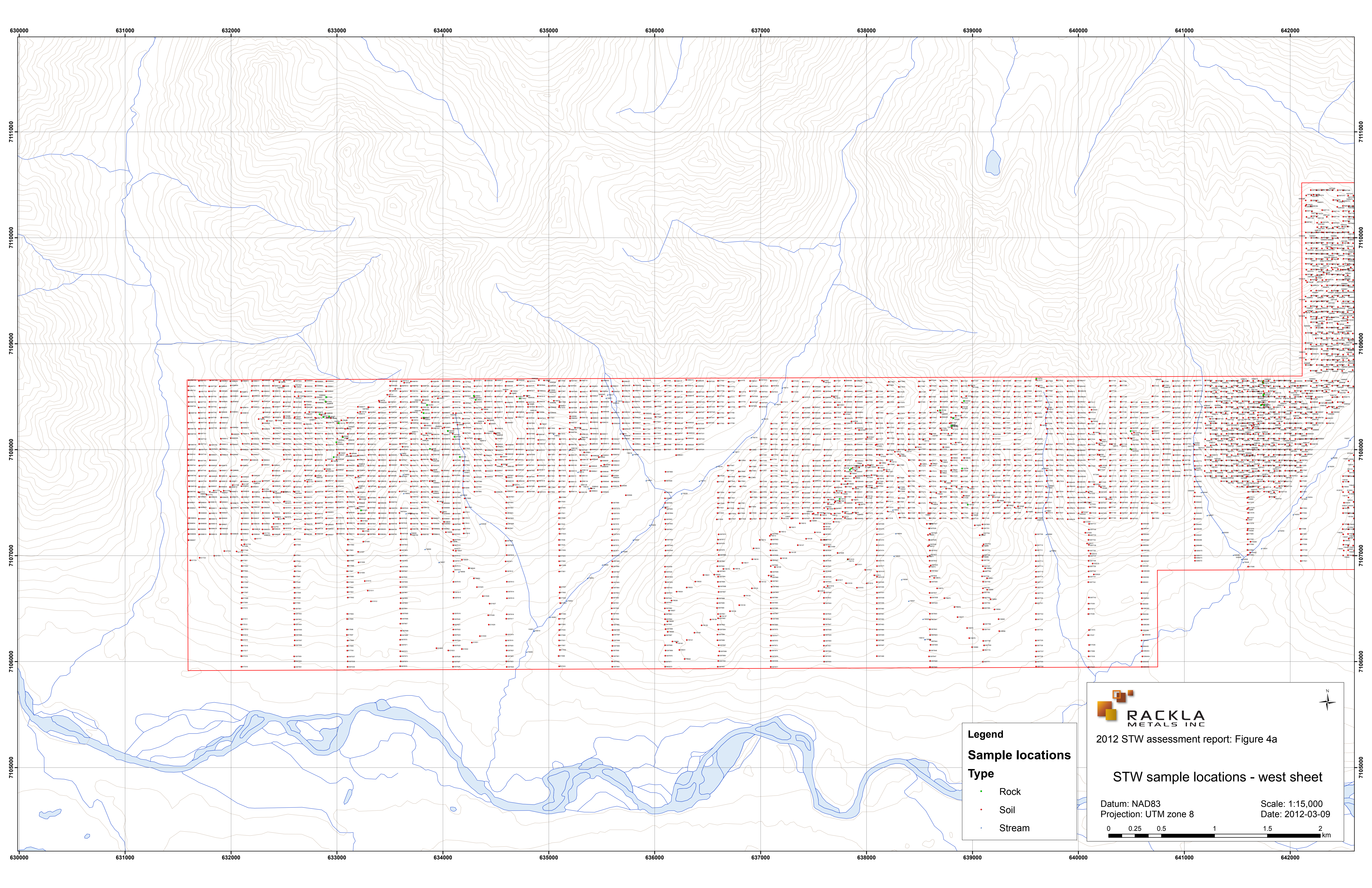
2012 STW assessment report: Figure 3

Geology (after Grant Abbott, 2011)

Datum: NAD83
Projection: UTM zone 8

Scale: 1:25,000
Date: 2012-03-09






Legend

Sample locations

Type

- Rock
- Soil
- Stream



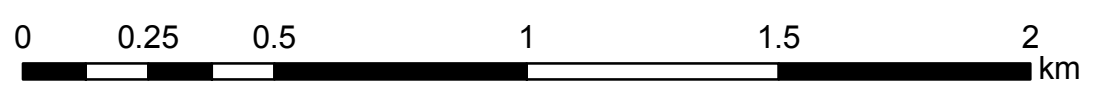
RACKLA
METALS INC

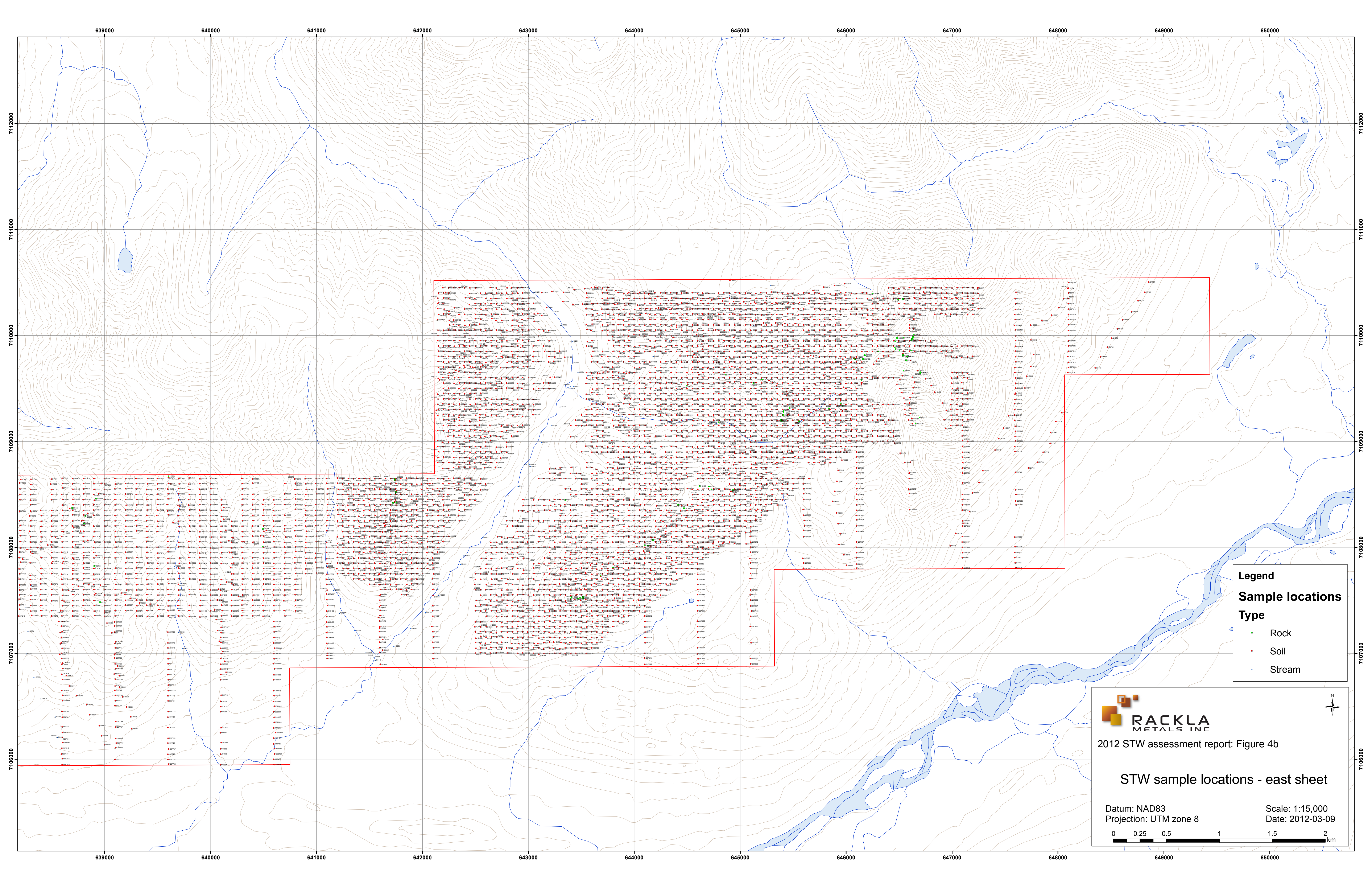
2012 STW assessment report: Figure 4a

STW sample locations - west sheet

Datum: NAD83
Projection: UTM zone 8

Scale: 1:15,000
Date: 2012-03-09





Legend

Sample locations

Type

- Rock
- Soil
- Stream



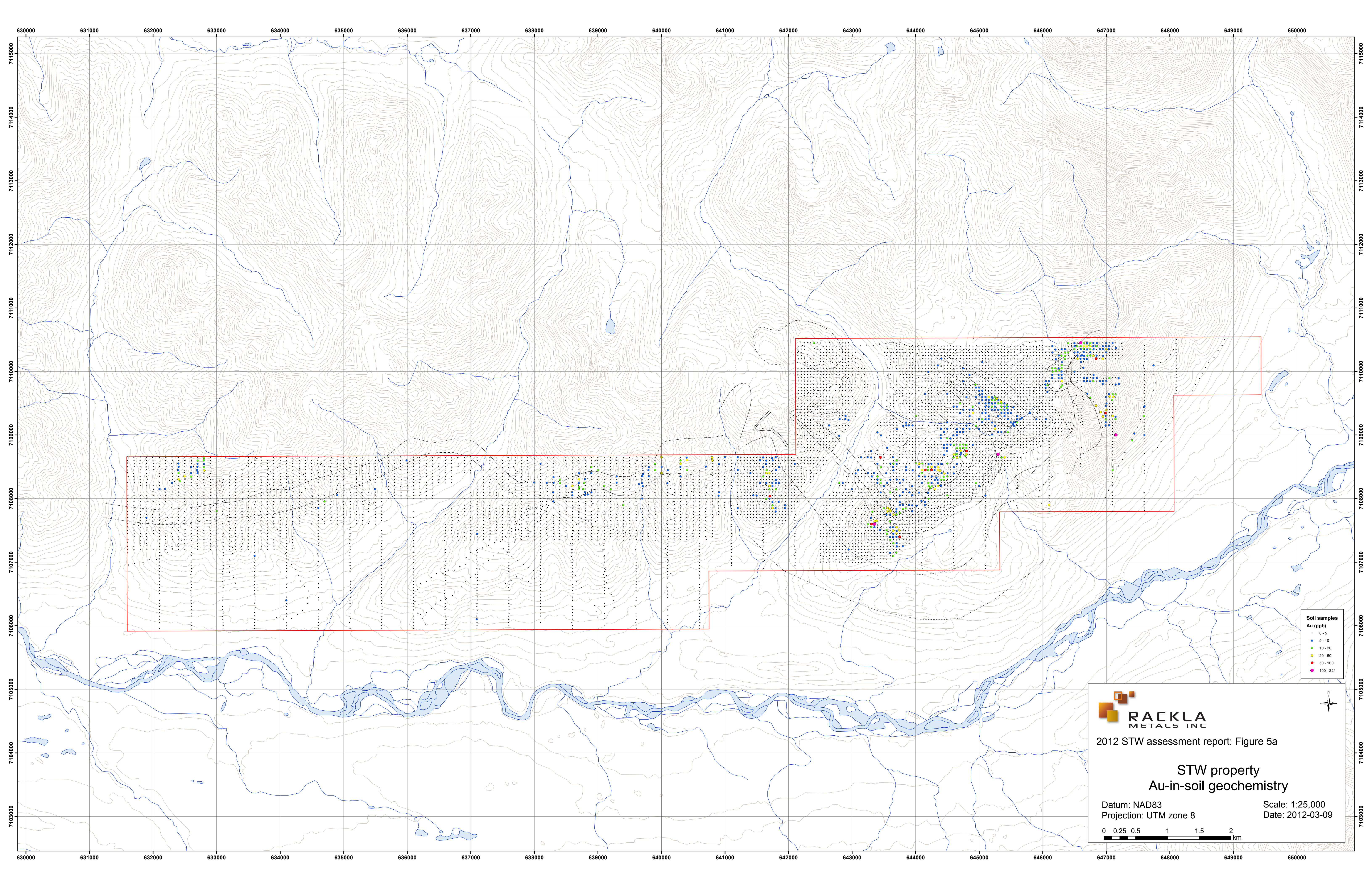
2012 STW assessment report: Figure 4b

STW sample locations - east sheet

Datum: NAD83
Projection: UTM zone 8

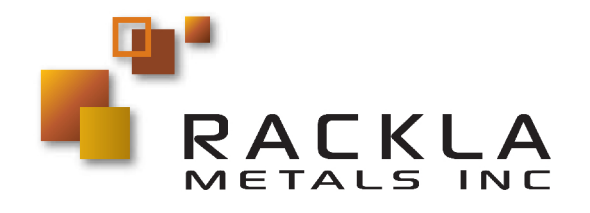
Scale: 1:15,000
Date: 2012-03-09





Soil samples
Au (ppb)

- 0 - 5
- 5 - 10
- 10 - 20
- 20 - 50
- 50 - 100
- 100 - 221

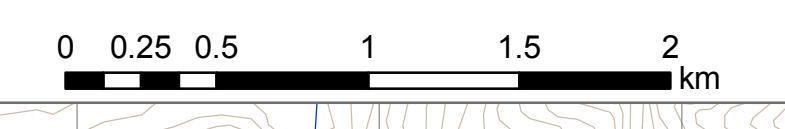


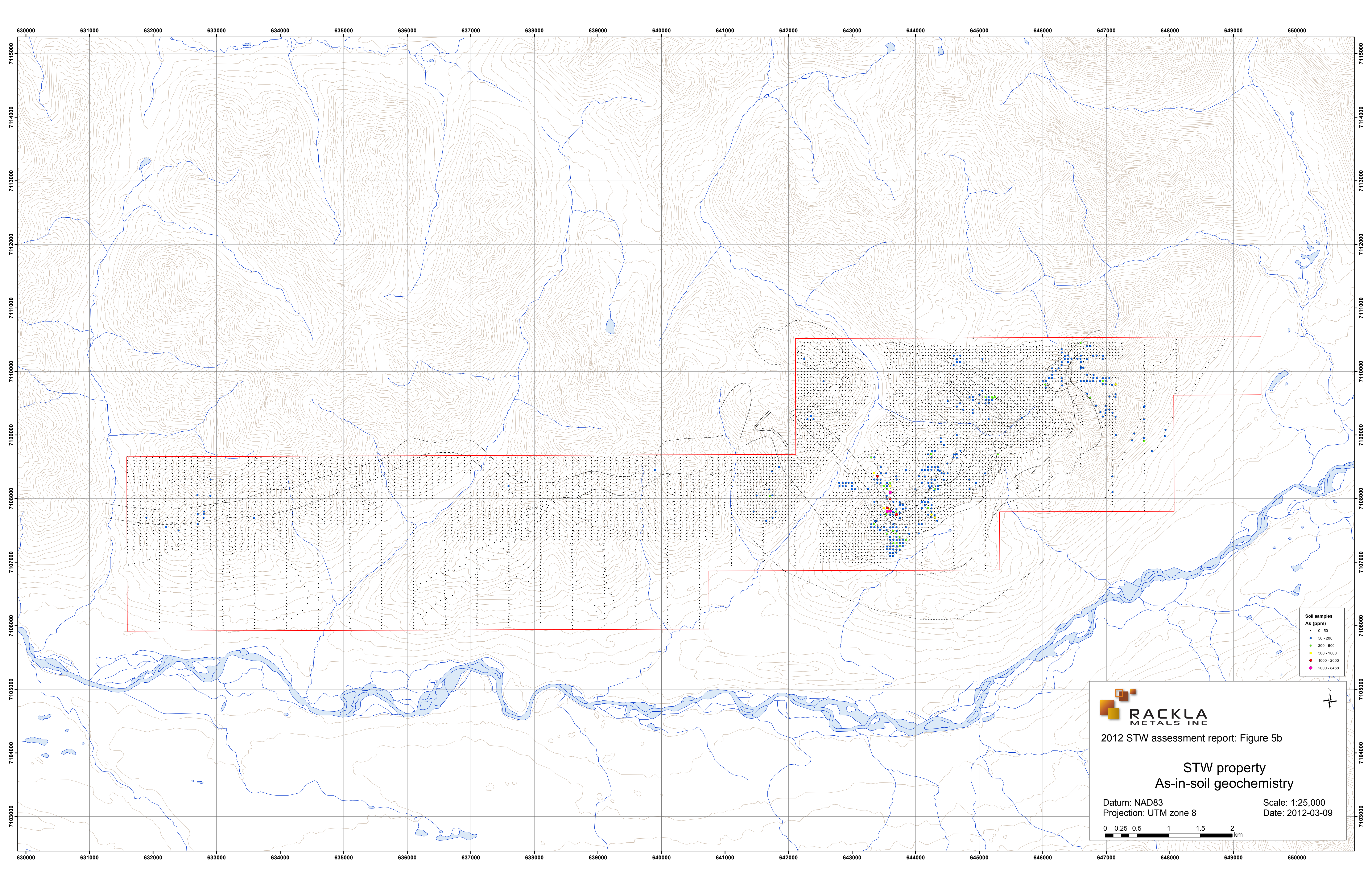
2012 STW assessment report: Figure 5a

STW property Au-in-soil geochemistry

Datum: NAD83
Projection: UTM zone 8

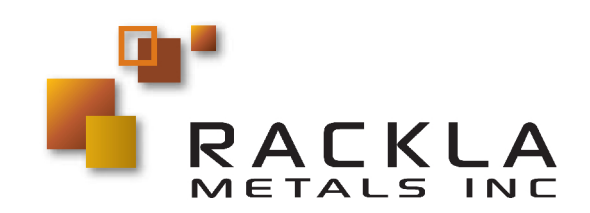
Scale: 1:25,000
Date: 2012-03-09





Soil samples
As (ppm)

- 0 - 50
- 50 - 200
- 200 - 500
- 500 - 1000
- 1000 - 2000
- 2000 - 8468

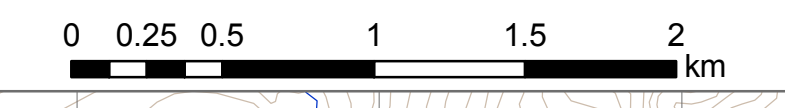


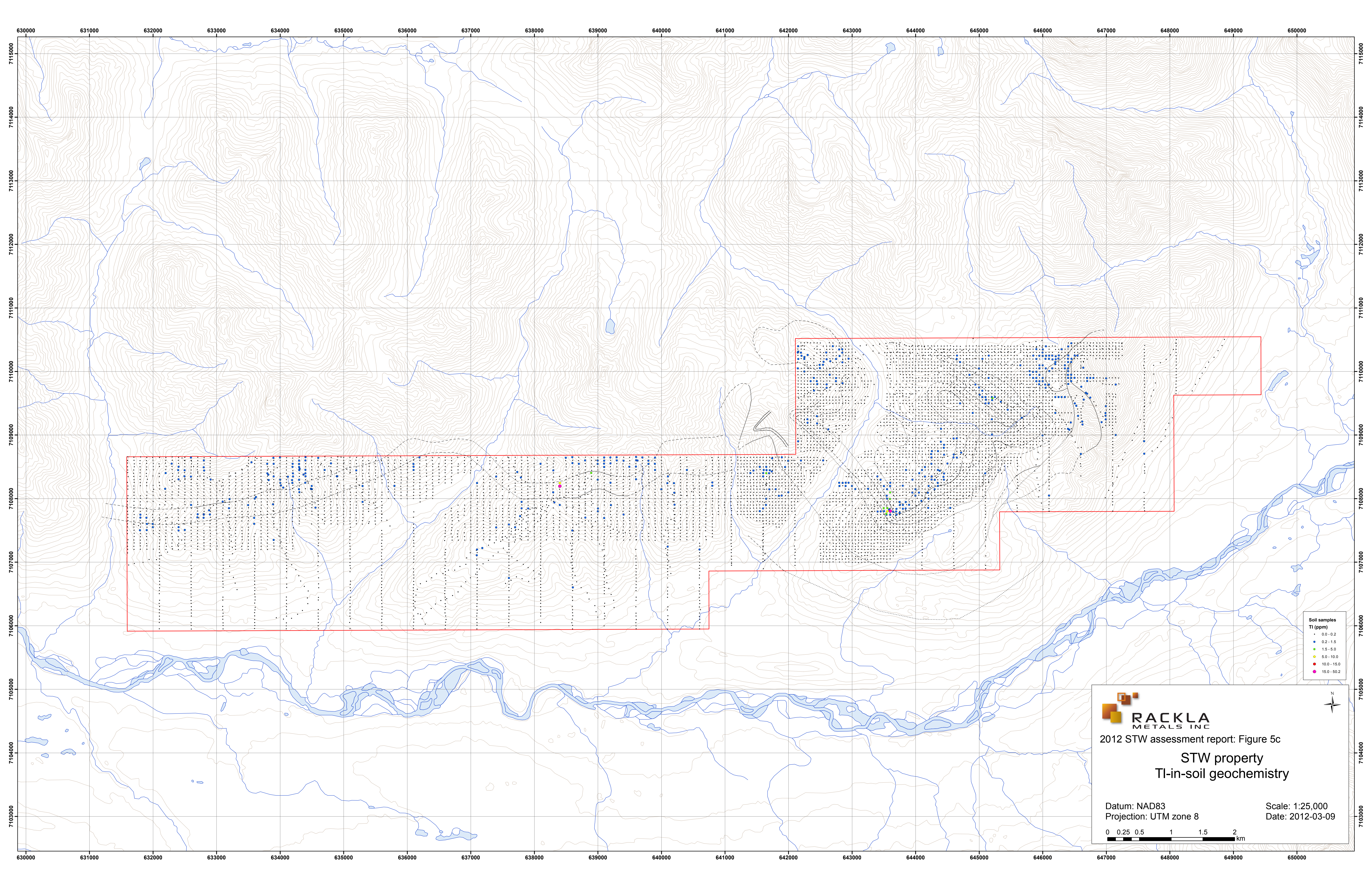
2012 STW assessment report: Figure 5b

STW property As-in-soil geochemistry

Datum: NAD83
Projection: UTM zone 8

Scale: 1:25,000
Date: 2012-03-09





Soil samples
TI (ppm)

- 0.0 - 0.2
- 0.2 - 1.5
- 1.5 - 5.0
- 5.0 - 10.0
- 10.0 - 15.0
- 15.0 - 50.2

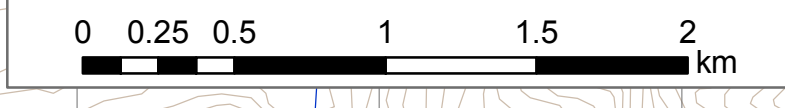


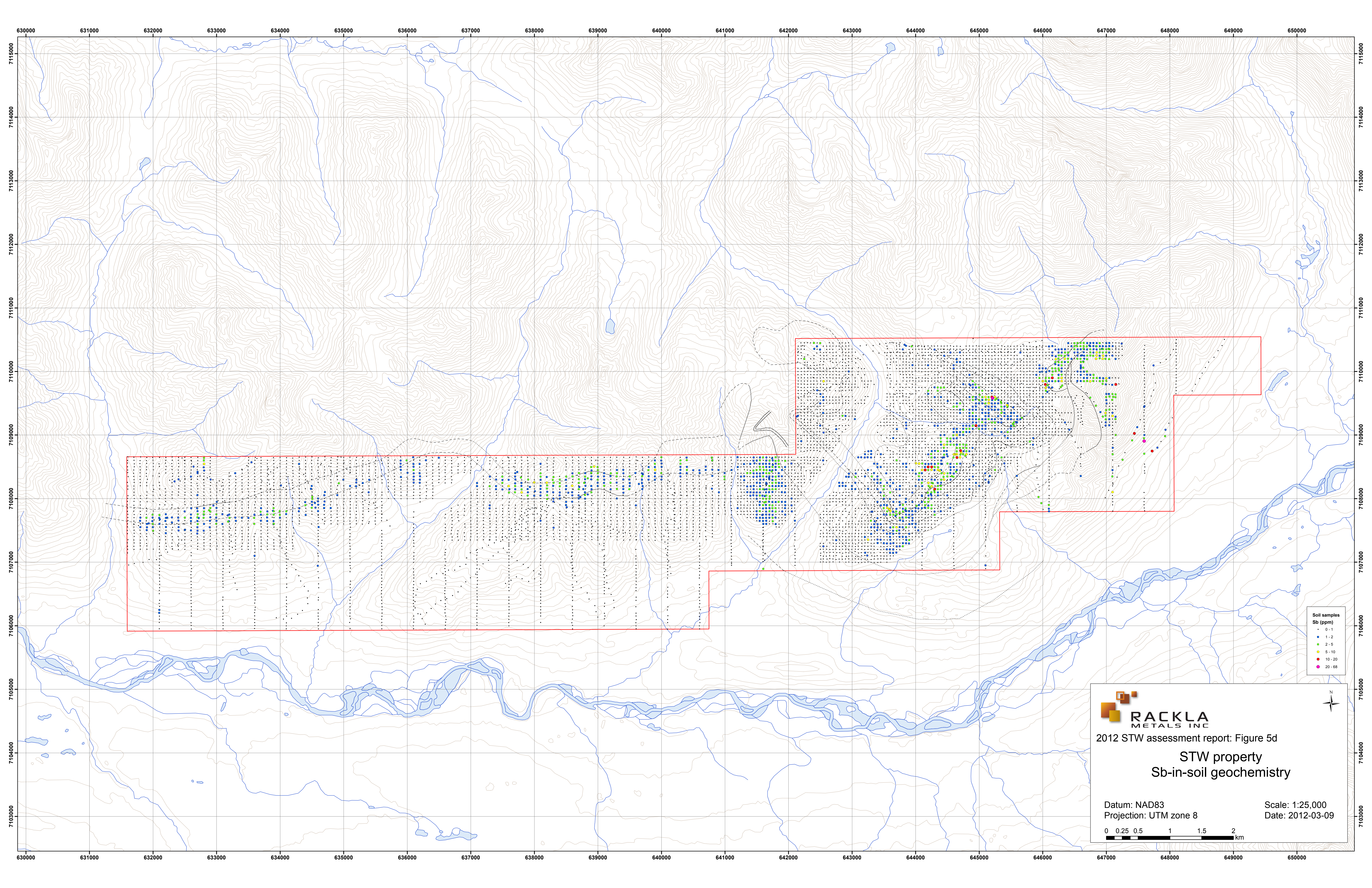
2012 STW assessment report: Figure 5c

STW property TI-in-soil geochemistry

Datum: NAD83
Projection: UTM zone 8

Scale: 1:25,000
Date: 2012-03-09





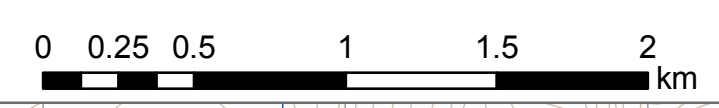
Soil samples
Sb (ppm)

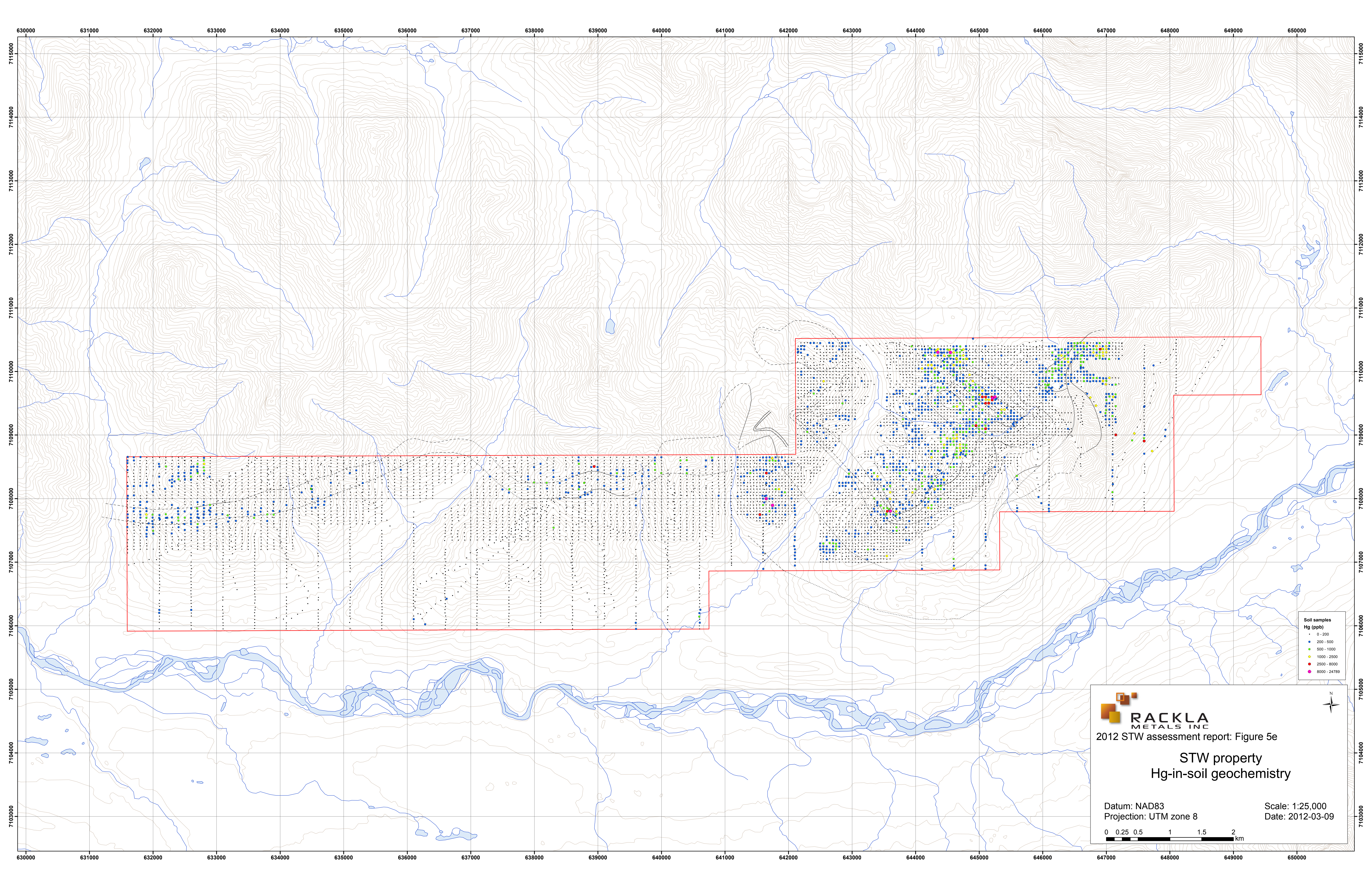
- 0 - 1
- 1 - 2
- 2 - 5
- 5 - 10
- 10 - 20
- 20 - 68



2012 STW assessment report: Figure 5d
STW property
Sb-in-soil geochemistry

Datum: NAD83
Projection: UTM zone 8
Scale: 1:25,000
Date: 2012-03-09





Soil samples
Hg (ppb)

- 0 - 200
- 200 - 500
- 500 - 1000
- 1000 - 2500
- 2500 - 8000
- 8000 - 24789

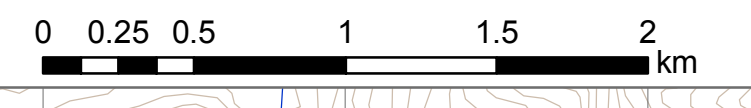


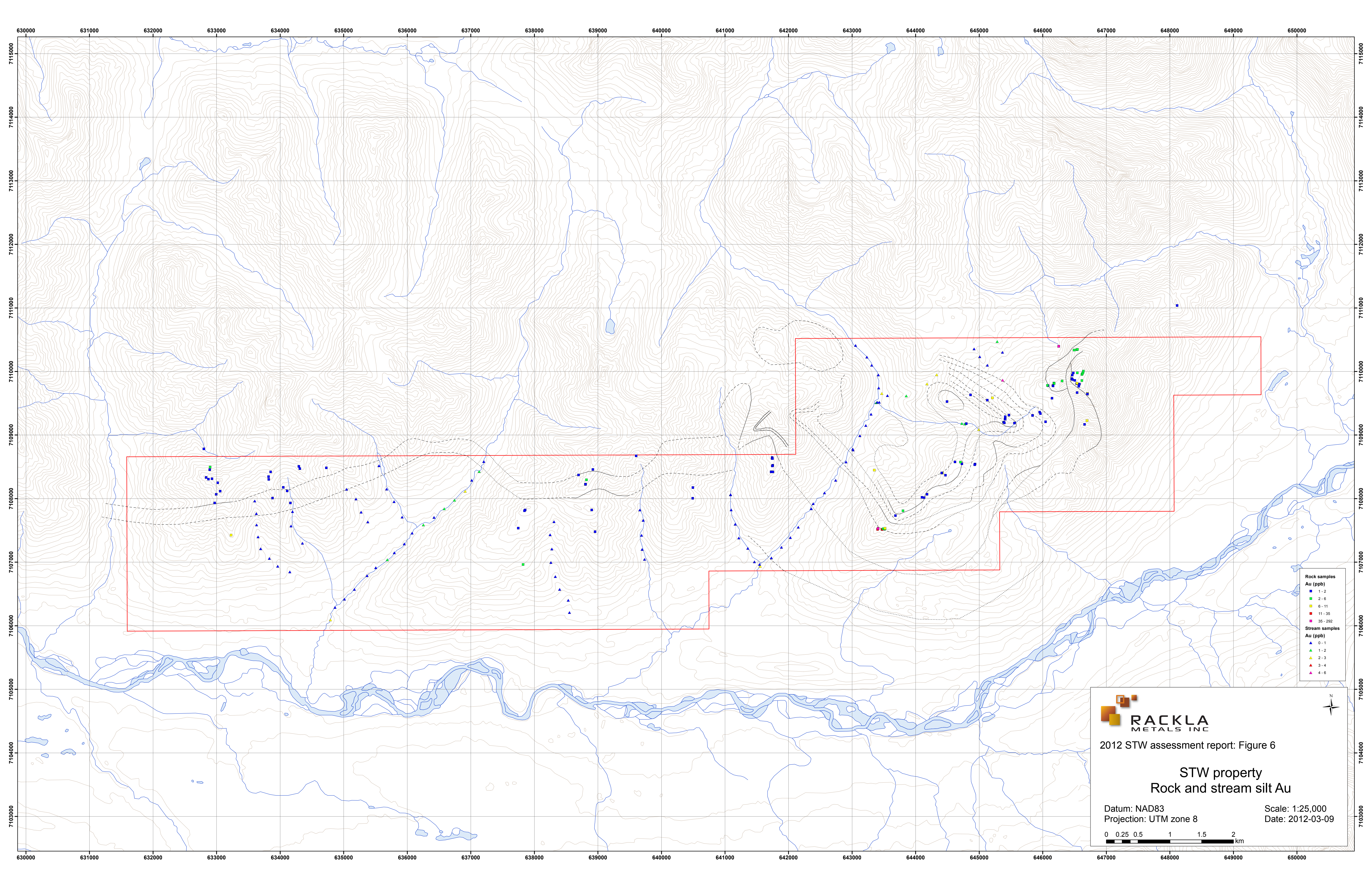
2012 STW assessment report: Figure 5e

STW property Hg-in-soil geochemistry

Datum: NAD83
Projection: UTM zone 8

Scale: 1:25,000
Date: 2012-03-09





- Rock samples**
Au (ppb)
- 1 - 2
 - 2 - 6
 - 6 - 11
 - 11 - 35
 - 35 - 292
- Stream samples**
Au (ppb)
- 0 - 1
 - 1 - 2
 - 2 - 3
 - 3 - 4
 - 4 - 6



2012 STW assessment report: Figure 6

STW property Rock and stream silt Au

Datum: NAD83
Projection: UTM zone 8

Scale: 1:25,000
Date: 2012-03-09

