GEOLOGICAL AND GEOCHEMICAL

ASSESSMENT REPORT

for the

CARLIN GOLD CORPORATION - CONSTANTINE METAL RESOURCES LTD. JOINT-VENTURE (CCJV) PROJECT

on the

RGS PROPERTY GROUP HM02908

RGS 1-102 YE29491-YE29592 owned by Carlin Gold Corporation

where work was performed from

July through September, 2011

in the

Mayo Mining District, Yukon
NTS Sheet 105O/02

centered at

UTM NAD 83 Zone 9, 412500E 6999000N

July 11, 2012

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SUMMARY

In March 2011, Carlin Gold Corporation and Constantine Metal Resources Ltd staked the RGS 1-102 quartz claims ("Property") as part of a joint venture (CCJV). For assessment purposes the MC claims (Property) are Group HM02908.

The Property was staked after researching the available geological data (mostly from the Yukon Geological Survey – YGS) and reviewing regional silt geochemistry data. Staking followed the public announcement by ATAC Resources Ltd. of the discovery of Carlin-style mineralization at the Osiris and nearby Conrad zones in an area that is now being referred to as the Nadaleen trend. Osiris/Conrad occurs approximately 135 kilometers northwest of the RGS claims.

The main CCJV target on the Property is Carlin-style mineralization similar to the recent discoveries in the Nadaleen trend. The Property is underlain by a variety of sedimentary rocks that range in age from Mississippian through Triassic. According to published mapping these units are folded into a syncline with a northwest-southeast trending fold axis parallel to the main drainage that traverses the Property. Rock types include shale, sandstone, argillite, and a very prospective thinly laminated calcareous siltstone unit that has been mapped by Abbott (2012) as part of the Triassic-age Jones Lake Formation.

Reconnaissance geochemical sampling was completed with predominantly contour soil and silt traverses. The sampling program included collection of 129 soils, 29 silts, and 45 rock samples. Field preparation of soil and silt samples was done to produce -80 mesh sample material for analysis. Field XRF analysis, primarily for the purpose of arsenic determination, was completed on all soil and silt samples prior to analysis at Acme Analytical Laboratories Ltd. (AcmeLabs) for 36 element ICP-MS analysis, including gold.

The 2011 sampling program encountered rather subdued multi-element soil anomalies that for the most part are located on the southwest edge of the Property. No significant metal values were encountered in the rock samples. Limited additional sampling, primarily extending existing soil sample lines, is recommended to complete the evaluation of the Property. Limited additional prospecting and rock sampling should be carried out in the vicinity of exposures of the thinly laminated siltstone unit in the Jones Lake Formation.

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

APPENDICES

1. INTRODUCTION

1.1 Location and Access

The RGS property ("Property") is located in east-central Yukon centered at UTM NAD83 Zone 9 412500E 6999000N on NTS sheet 105O/02. The Property is situated 145 km north-east of the community of Ross River and 270 km east of the town of Mayo (Fig. 1). The Property lies along the trace of the Plata winter road, which runs from the North Canol Road northwest to the Plata airstrip. The road is not defined on the Property but is depicted as a trail on topographic maps to within 7 kilometers to the northwest.

1.2 Physiography and Vegetation

The Property is located within the Selwyn Mountains. It is located along a northwest-southeast river drainage within the Hess River portion of the Stewart River basin. It is located within gentle terrain with elevations ranging from 1000 meters along the river to 1200 meters upslope. Vegetation is dominated by alder growth, with some cordilleran boreal spruce and fir forest on the northeast edge of the Property. Outcrop is common along the river and tributary creek banks.

1.3 Claim Details

The claim group, HM02908, consists of 102 contiguous quartz claims covering an area of 21 square kilometers that are located in the Mayo Mining District, Yukon. Carlin Gold Corporation ("Carlin") is the owner on record with the Yukon Mining Recorder. Carlin and Constantine Metal Resources Ltd collectively hold a 100% interest in the Property, pursuant to a 50/50 joint venture agreement between the two parties ("CCJV"). Table 1 shows the claim summary of the property.

Table 1. Claim Summary for the RGS Property
Group HM02908

Claim Name	Claim No.	Grant No. (to)	Total No.	Expiry Date	NTS Sheet	Registered Owner
RGS	1-102	YE29492-YE29592	102	04/04/2014	105O/02	Carlin Gold Corporation - 100%

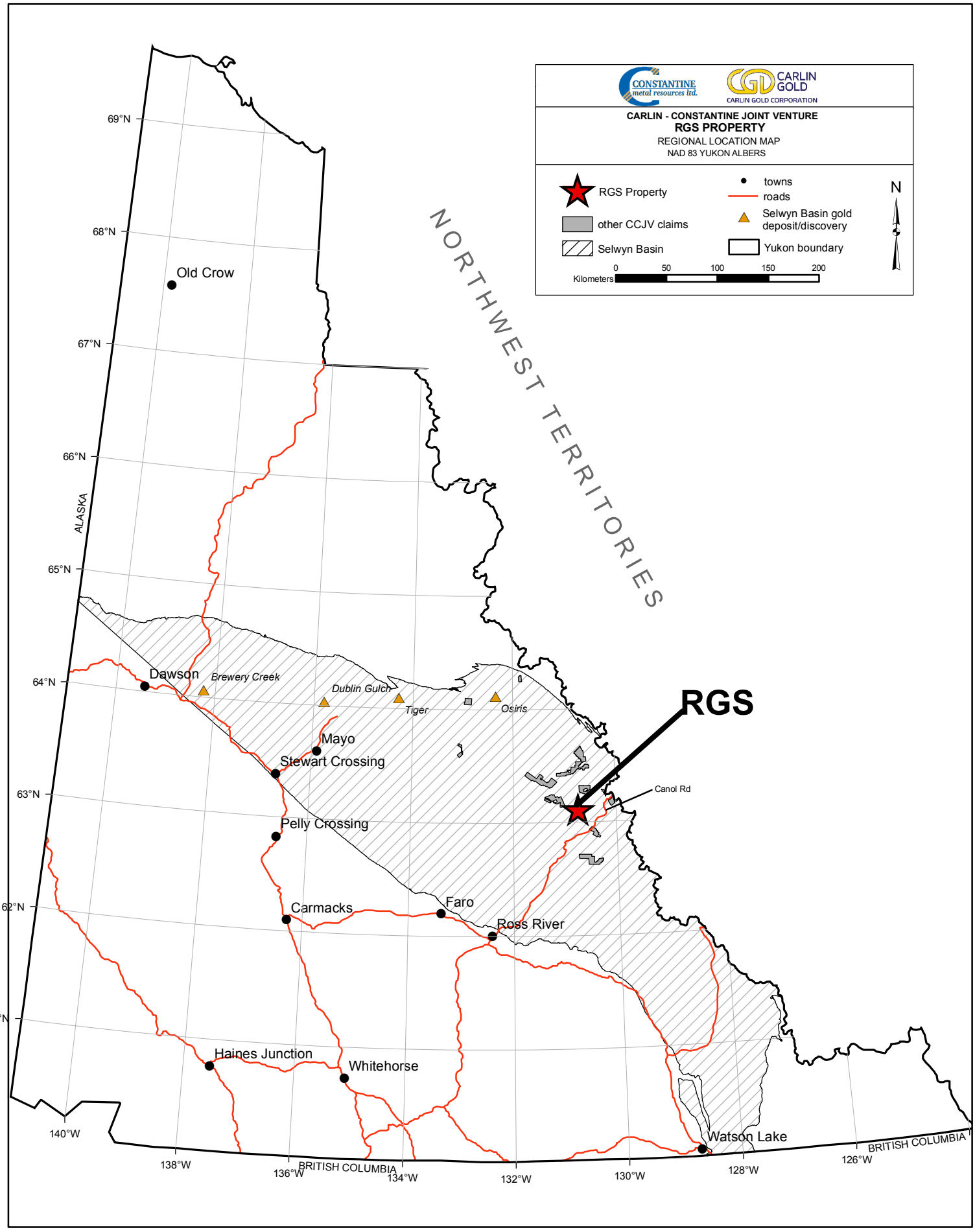

Figure 1. RGS Property regional location map.

1.4 Exploration History

There has been no documented history of exploration on the Property. The closest MINFILE occurrence, 105O 004, named "Alp", is located 6.5 kilometers northeast of the southeast edge of the Property. The Alp showing contains gold mineralization associated with felsic dikes within a hornfels zone adjacent to a mid-Cretaceous, Tombstone suite granodiorite pluton (Gordey & Makepeace, 1999). Two additional MINFILE occurrences are located within the area of Figure 2: 1. MINFLIE occurrence 105O 043 ("Sim"), a tungsten skarn showing approximately 11 kilometers northeast of the southeast edge of the property (4.8 km northeast of the Alp, on the north side of the pluton), and 2. MINFILE occurrence 105O 020 ("Samover", or "Tea") a Sedex barite deposit within a shale member of Devonian Portrait Lake Formation (Earn Group).

2. GEOLOGICAL SETTING

2.1 Regional Geology

The Property is located in the Selwyn Basin. The Selwyn Basin lies on the northeast side of the Tintina Trench, within the northwestern Omineca Belt that extends northward from British Columbia, through Yukon and northwest into Alaska. The Selwyn Basin occupies much of central and southeastern Yukon and extends east into the southeast edge of the Northwest Territories (Goodfellow, 2007). It consists of an offshelf continental margin of ancestral North America, containing deep-water shales and clastic wedges (basinal strata of Colpron and Nelson, 2011) bounded by platform carbonates to the northeast (platformal strata of Colpron and Nelson, 2011). This basinal rock sequence ranges in age from Late Proterozoic though Devonian (Gordey and Anderson, 1993) and is overlain by turbiditic submarine fan complexes of the Earn Group and Early Carboniferous to Triassic shallow marine shelf clastic sediments. Major formational units of the Selwyn Basin in the vicinity of the Property are described in Table 2. Subsequent to deposition, strata underwent folding and faulting as a result of collision-related deformation in the Jurassic through to approximately 100 Ma (Mair et al, 2006). Some of the more prominent regional-scale thrust faults that imbricate rocks of the Selwyn Basin include the Robert Service, Tombstone, and Dawson Thrusts.

The Property is located near the eastern edge of the Tintina gold belt (TGB). The TGB follows an arcuate trend of mid- to late- Cretaceous granitoid intrusions extending from eastern Alaska, across central Yukon to the common Yukon-British Columbia-Northwest Territories border, roughly parallel to the accretionary ancestral North American craton boundary. These intrusions are referred to as "Tombstone Suite" intrusions, and also referred to in the Yukon as the Selwyn Intrusive Suite. In southeast Yukon the 98-92 Ma Tombstone/Selwyn intrusions were emplaced into folded and faulted stratigraphy of the Selwyn Basin. These granitoids were intruded following a period of terrane collision, crustal thickening and lower greenschist-facies metamorphism.

405000 410000 415000 420000

7005000 6995000 6990000

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GEOLOGY MAP - RGS PROPERTY

UTM NAD 83 ZONE 9
1 : 80 000

GEOLOGIC UNITS

CRETACEOUS
- Kg — Intrusions

TRIASSIC
- TrJ — Jones Lake Fm

CARBONIFEROUS TO PERMIAN
- CPMC — Mount Christie Fm

MISSISSIPPIAN TSICHU GROUP
- MTch — Chert Facies
- MTss — Sandstone Facies
- MTsh — Shale Facies

DEVONIAN EARN GROUP
- DI — Itsi Fm

PREVOST FM
- DPss — Sandstone Facies

PORTRAIT LAKE FM
- DPLsh — Shale Facies
- DPLcg — Chert Facies
- DN — Niddery Lake Member

MIDDLE ORDOVICIAN TO MIDDLE DEVONIAN
- OSDu — Duo Lake/Steel/Sapper undivided

UPPER SILURIAN TO MIDDLE DEVONIAN
- SDS — Sapper Fm

MIDDLE TO UPPER SILURIAN
- SS — Steel Fm

LOWER ORDOVICIAN TO MIDDLE SILURIAN
- OSD — Duo Lake Fm

CONTACTS
- defined
- approximate
- covered
- inferred
- unknown

FAULTS
- normal/strike-slip
- thrust

FOLDS
- overturned anticline
- anticline
- overturned syncline
- syncline

OTHER
- RGS property boundary
- contour (20 m)
- contour (100 m)
- MINFILE occurence

Figure 2. Geology map of the RGS property (Abbott, 2012)

2.2 Property Geology

The CCJV program did not include geological mapping of the Property. Geological mapping is available for the Property and surrounding area, however, as part of an open file report by Abbott (1983). The original maps consisted of three black and white sheets at 1:50,000 scale. The map was refined and published in 2011 as a single, colored open file map, with a digital product made available in 2012 (Abbott, 2012).

The principal unit mapped on the RGS claims is the Triassic-age Jones Lake Formation. This unit is described by Abbott (2012) as a "recessive, dull brown weathering, thin-bedded to thinly laminated calcareous, micaceous sandstone and shale". This description is generally consistent with CCJV geology observations, although the micaceous content appears to be locally confined. The Jones Lake Formation is mapped by Abbott as occurring in the hinge zone of a northwest-southeast syncline running parallel to the river and the length of the claim block. Less prominent units, exposed on both flanks of the northwest-southeast drainage, are shales and sandstones of the Mississippian-age Tsichu Group, and Carboniferous to Permian Mount Christie Formation siliceous shale exposed along a single tributary along the south side of the main drainage in the northwest portion of the claims. Table 2 provides descriptions for units mapped on and immediately adjacent to the Property.

Table 2. Geologic Units mapped on the RGS Property (Abbott, 2012)

Unit	Name	Age	Description
Kg		Cretaceous	Resistant, blocky, grey weathering, porphyritic to equigranular biotite quartz monzonite and biotitie granite. Metamorphic aureoles around the plutons are generally extensive
TrJ	Jones Lake Formation	Cretaceous	Recessive, dull brown weathering, thin-bedded to thinly laminated calcareous, micaceous sandstone and shale
CPMC	Mount Christie Formation	Carboniferous to Permian	Resistant, dark orange-brown weathering, interbedded greenish grey siliceous shale and recessive green shale
MTch	Tsichu Group – Chert Facies	Mississippian	Well bedded orange to brown weathering black chert and dark grey shale. Contains the SAMOVAR barite occurrence and nearby lenses of limestone with barite
MTss	Tsichu Group – Sandstone Facies	Mississippian	Dark grey weathering, massive to thick-bedded qtz arenite; thin to medium-bedded sandstone and qtz arenite with shale interbeds. The sandstone facies forms stacked, discontinuous lenses within the shale facies and also occurs at the base of the unit and above the Caribou Pass Fm
MTsh	Tsichu Group – Shale	Mississippian	Recessive brown, blue-brown and dark blue

	Facies		weathering silty shale, shale and siliceous shale with minor sandstone and qtz arenite. Locally includes a basal interval of blue weathering siliceous shale.
DI	Earn Group – Itsi Formation	Upper Devonian	Resistant, brown weathering, thick-bedded, parallel laminated and ripple cross-laminated micaceous sandstone, siltstone and shale.
DPss	Prevost Formation – Sandstone Facies	Upper Devonian	Brown to rusty weathering, dark grey siltstone, silty shale, chert sandstone, granular sandstone
DPLsh	Earn Group – Portrait Lake Formation – Shale Facies	Upper Devonian	Talus-forming, silver-blue weathering, platy, siliceous shale, minor chert
DPLcg	Earn Group – Portrait Lake Formation – Conglomerate Facies	Lower to Upper Devonian	Black to dark blue weathering massive chert-pebble conglomerate. The conglomerate forms discontinuous lenses within the Portrait Lake shale facies
DN	Earn Group – Portrait Lake Fm – Niddery Lake Member	Lower to Middle Devonian	Black to dark blue weathering, thin-bedded chert, cherty argillite, and siliceous sale. North of Macmillan fault zone, light grey bioclastic limestone forms beds up to several meters thick in uppermost exposures of the unit. Barite and limestone lenses up to 30m thick are widespread and may represent one or more tectonically dismembered horizons.
OSDu	Sapper, Steel, and Duo Lake Formations undivided	Middle Ordovician to Middle Devonian	
SDS	Sapper Formation	Upper Silurian to Middle Devonian	Recessive, buff to tan weathering, platy, silty limestone, calcareous black shale.
SS	Road River Group Steel Formation	Middle to Upper Silurian	Orange to green weathering, bioturbated, wispy laminated, green shale and mudstone. Thick beds of orange weathering, pyritic dolostone are intermittent.
OSD	Road River Group Duo Lake Formation	Lower Ordovician to Middle Silurian	Brown weathering medium-bedded siliceous shale and chert overlain by silver to dark blue weathering, thin-bedded, black chert and siliceous shale. Grades westward to chert equivalent to the Elmer Creek Fm in 105O/7 of the MacMillan fault zone.

2.3 Mineralization Potential (pre-program assessment)

The RGS claims were staked primarily to target areas for sedimentary rock-hosted, Carlin-style gold mineralization hosted in prospective lithologies. The claims were staked following the ATAC Resources' announcement of the discovery of Carlin-style mineralization at the Osiris and Conrad zones which are located along what is currently being referred to as the Nadaleen trend, located approximately 135 kilometers northwest of the Property.

The Property meets several diagnostic criteria which are characteristic of Carlin-type deposits in Nevada, including the following: 1. ancient continental margin setting, 2. prominent regional scale thrust faults 3. favourable carbonate-bearing host rock stratigraphy, and 4. key pathfinder elements in regional stream sediments.

The rational for staking the property was primarily the occurrence of the Triassic Jones Lake Formation, which was described in Abbott's 1983 open file report as having characteristics considered excellent for a potential Carlin-type host rock (see above description in Section 2.2 Property Geology and in Table 2. Field observations by CCJV geologists during the 2011 field program confirmed that this unit is identical in many respects to some of the well known host rocks on the Carlin trend in Nevada.

Five silt samples from the regional stream geochemistry database (Regional Silt Geochemistry) are located on the Property or at least partly drain the Property (Fig. 3). The regional silt geochemical values are provided in Table 3. Notable is the fact that one sample, #903360, contains a multielement (Au, As, Hg, Sb) signature similar in tenor to the closest regional silt geochemical sample to the Osiris Carlin-type discovery – that is all four of these "Carlin-Suite" elements in the sample contain ≥ 8 ppb Au, ≥ 74 ppm As, ≥ 140 ppm Hg and ≥ 3 ppm Sb. Only 72 regional stream geochemical samples in the 31,000 sample Yukon database met these criteria (63 of which occur in the Selwyn Basin). The occurrence of this sample, combined with the fact that very prospective Carlin-type host rocks had been documented in the area, supported the decision to stake the claim block.

Table 3. Regional Silt Geochemistry Data for the RGS property

SAMPLE NUMBER	SAMPLE ID	Au (ppb)	Ag (ppm)	As (ppm)	Hg (ppm)	Sb (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Ba (ppm)	U (ppm)	W (ppm)	Zn (ppm)	Tl (ppm)
903384	105O903384	5	0.5	28	216	2	45	2	14	3600	3.5	0.5	193	0.15
903360	105O903360	9	0.2	95	318	4.4	36	9	12	9400	5.4	0.5	267	0.75
901146	105O901146	7	0.7	43	612	5.6	95	7	15	5200	8.3	0.5	1430	0.56
903386	105O903386	1	0.1	31	140	3.9	26	6	14	7100	3.8	6	359	0.26
901143	105O901143	3	0.4	14	102	1.3	41	2	11	5100	2.9	1	402	0.10

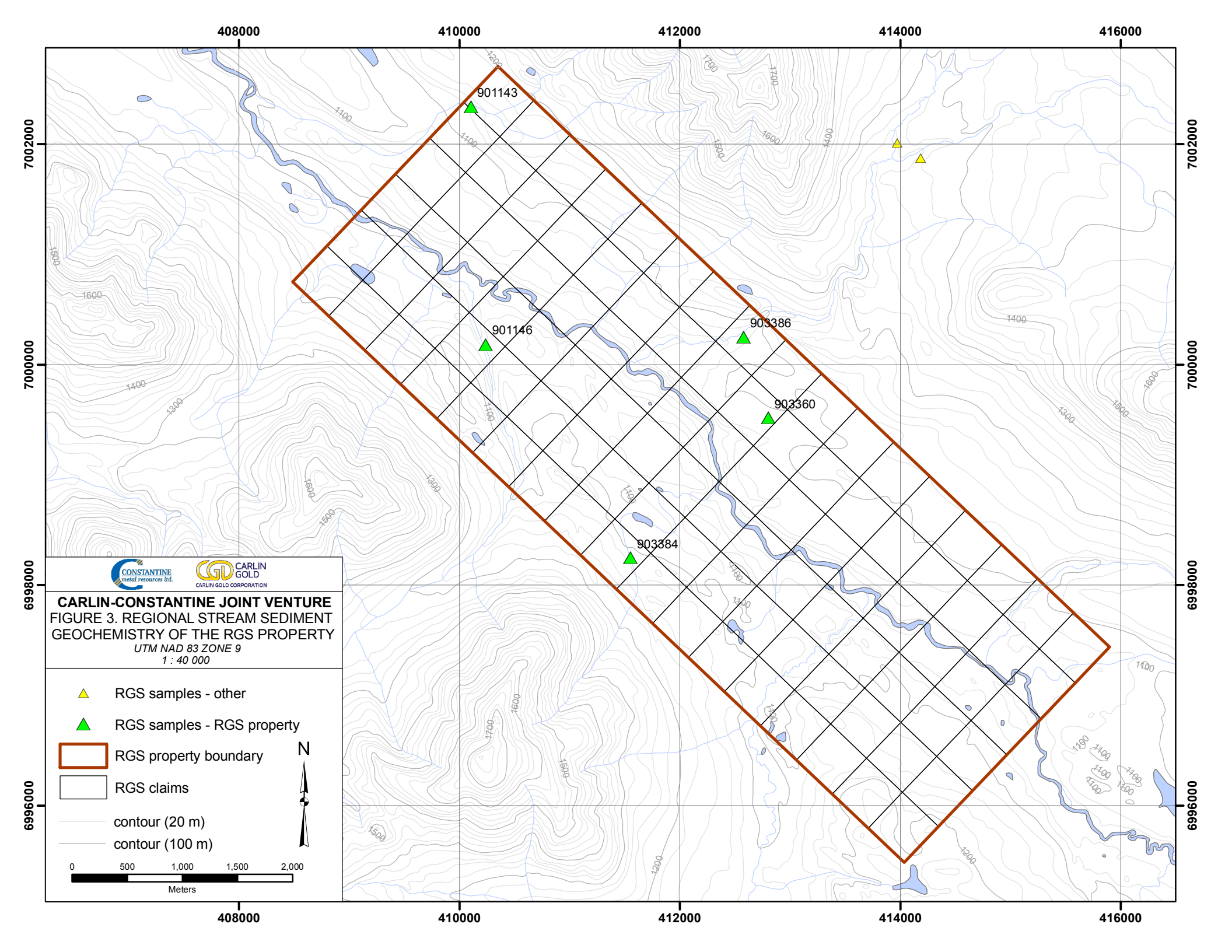
408000
410000
412000
414000
416000
7002000
7000000
6998000
6996000
901143
901146
903386
903360
903384
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FIGURE 3. REGIONAL STREAM SEDIMENT GEOCHEMISTRY OF THE RGS PROPERTY
UTM NAD 83 ZONE 9
1 : 40 000
RGS samples - other
RGS samples - RGS property
RGS property boundary
RGS claims
contour (20 m)
contour (100 m)
N
0
500
1,000
1,500
2,000
Meters

3. WORK PROGRAM

3.1 Sampling Area

A total of 203 samples were collected on the Property, including 45 rocks, 29 silts, and 129 soils. Contour sampling was the primary sampling approach with nominal sample spacing at 100-125 m. Prospecting, rock and soil sampling was also conducted along the banks of the main drainage channel where bedrock was reasonably well exposed. Figure 4 shows the sample locations.

3.2 Sample Preparation and Procedures

All soils and silt samples collected were dried and sieved at a base camp and analyzed with a portable XRF unit prior to shipping to AcmeLabs in Vancouver, B.C. All rock samples were shipped to the AcmeLabs sample preparation facility in Whitehorse, Yukon, for sample preparation and subsequent analysis at AcmeLabs in Vancouver, B.C.

3.2.1 Sampling Procedure

All soils were collected in Kraft Wet Strength 4" by 6" soil bags, and the silts in Hubco New Sentry 5" by 8.5" bags. These bags were pre-labeled and inserted with two of a three part barcoded sample tag series prior to sampling. The third part of the sample tag was left in the sample booklets for the sampler to write notes and/or descriptions which were then recorded in the database. Each sample type have a unique sample series: rock samples have 5-digit sample number, silts have a 9-digit sample number, and soils have a 9-digit sample number. Samples were collected using the blade portion of a Geotul, and dug to depths ranging from 15 cm to 0.5 m (in most cases this was C horizon). Care was taken to sample below organic material and a 2000 year old volcanic ash layer that may be locally present.

3.2.2 Drying Procedure

After sampling, bags were hung orderly in a drying tent at the end of each traverse/sampling day. The drying tents were constructed of canvas tents, with tarps overlain on top of each tent to keep off elements of nature and moisture. Samples were hung on drying racks, with adequate spacing between each sample to ensure air flow. A series of heaters, fans, and de-humidifiers were placed in strategic places in the tents to maintain warm moving air and improve drying time. Soil samples were left to dry for at least 3 days, while silt samples were dried for at least 5 days, with actual drying time dependent on the moisture content of the samples. Occasionally, the samples were broken up using a rubber mallet in order to increase the surface area for drying as they tend to harden throughout the drying process.

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FIGURE 4. SAMPLE LOCATION MAP OF THE RGS PROPERTY

UTM NAD 83 ZONE 9

1 : 20 000

ROCK

SILT

SOIL

RGS property boundary

RGS claims

elevation (20 m)

elevation (100 m)

N

0 500 1,000 1,500 2,000

Meters

410000 412000 414000 416000

7000000

6998000

3.2.3 Sieving Process

The dried samples were then sieved, using a series of automated Gilson SS15 sieve shakers. Samples were broken up and emptied from the bags, with sample tags removed, and placed into a clean stackable set of Tyler 8" stainless steel collecting pans and 80 mesh sieves. Organic matter was discarded and large rock chips were removed prior to sieving. Each pan-sieve set was then loaded onto the shakers in stacks of three sets and shaken for at least 4 minutes. Once shaken, the pans were unloaded and the fine fractions were poured into Tin Top 3" by 5" pulp bags that were tagged with the first part of the three-part sample tags. The second sample tag was then stapled to the original Kraft soil, into which the coarse fractions was poured back. The pans and sieves were then cleaned using a soft brush for the next batch of samples to be processed.

3.2.4 XRF Sample Cup Preparation

A small portion of -80 mesh sieved sample was placed into a sample cup for analysis by the XRF analyzer. The sample material was poured into a 32 mm Double-Open Ended with Ventable Reservoir Cap Universal XRF sample cups until 3/4 full, with one end covered with a Premier Polypropylene X-Ray film of 6.0 µ; 0.24 mil, all of which were supplied by Premier Lab Supply. The sample material was then pressed tightly against the film with a cotton ball, and sealed with the Ventable Reservoir Cap. The remaining -80 mesh material was kept together with the analyzed cups until completion of the analysis to ensure integrity of the samples.

3.3 XRF Analysis

3.3.1 XRF Analyzing Procedure

All prepared samples were analyzed with the Thermo Scientific Niton Gold XL3t 500 GOLDD^{TM} handheld X-Ray Fluorescence Analyzer. This analyzer was mounted on a portable test stand, and connected to a field computer. All operations were performed remotely via the computer. Analysis was performed in "Soils" mode, running with 3 filters, at 10 seconds per filter for a total of 30 seconds per sample. (Note: All analyses and operations with the XRF analyzer were in compliance with Canada Federal Regulations).

Prior to the analysis, the barcode on each sample was scanned, followed by placing the corresponding sample cup in the analyzer. The test stand lid was closed, locked, and the sample was then analyzed. Data was automatically recorded, saved directly to the analyzer and simultaneously downloaded to the computer. Two internal standards as well as a lab standard was analyzed every 30 readings. The internal standards were soil matrices from Nevada in a mineralized sediment-hosted environment and the lab standard, "Till 4" was a representative standard for a typical soil matrix. After analysis, the sample cups were labelled and stored, while the remaining -80 mesh fraction samples were shipped to the AcmeLabs in Vancouver, B.C., for further analysis. Acme Analytical

Laboratories, Vancouver maintains a Certificate of Registration at ISO 9001:2008 for Quality Management System (Certificate No: FM 63007).

3.3.2 XRF Data Analysis

The on-site data XRF analysis allowed for immediate follow-up sampling of areas with anomalous pathfinder elements prior to the return of formal laboratory assay results. The stand mounted handheld XRF analyzer was mainly used for arsenic determination. Arsenic produced the most consistent and reliable data and is strongly correlated with gold in many mineralized environments. To determine the relationship between the field XRF and the assay lab determinations of arsenic, a linear regression analysis was produced (Fig. 5) using the data from the XRF and assay results for much of the CCJV property-wide database. This shows a coefficient of determination factor of 0.991 which equates to excellent correlation between both determinations.

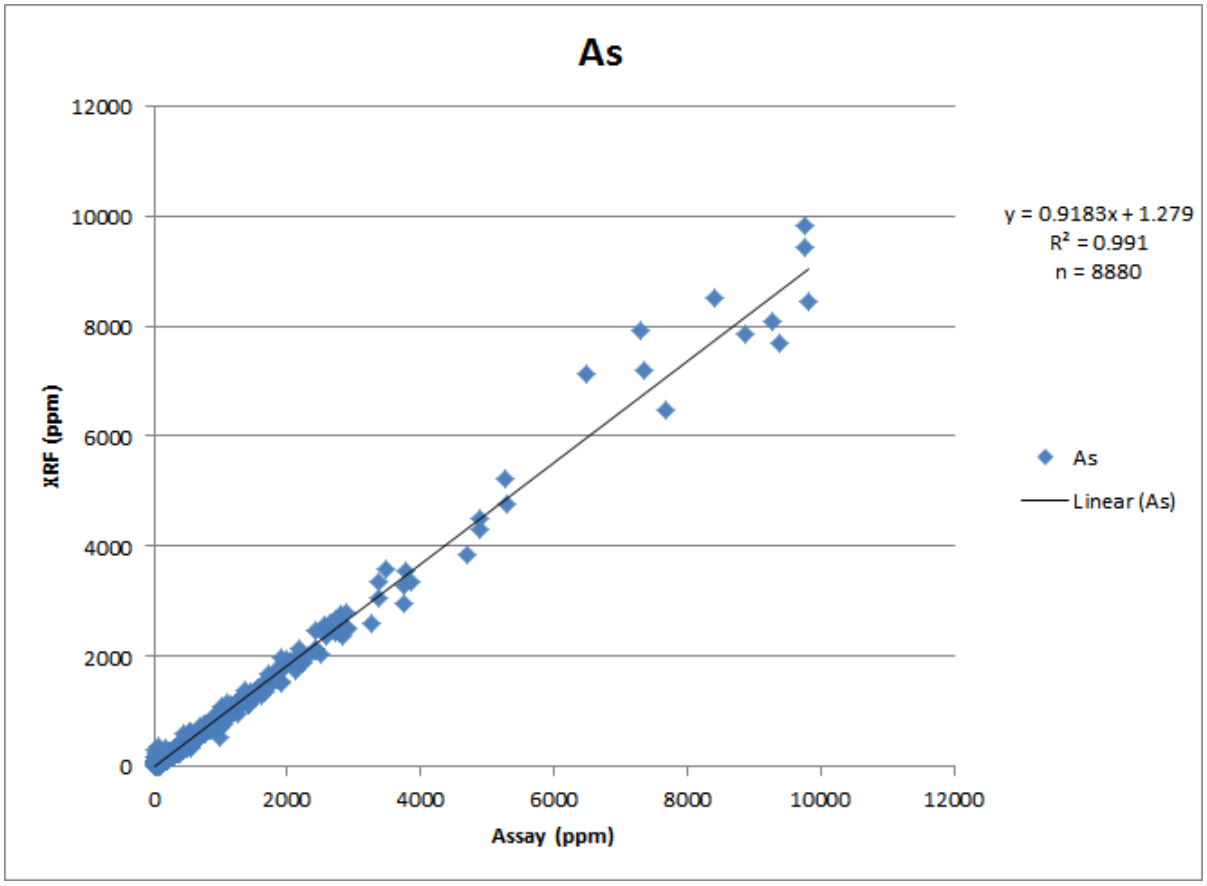


Figure 5. XRF linear regression analysis for Arsenic

3.4 Assay Procedure

The prepped soils and silt samples were shipped to AcmeLabs in Vancouver for "1DX2" assay determination. Sample splits of 15 grams were subjected to a hot (95°) Aqua Regia digestion with a 36 element determination (including gold) by ICP-MS technique. The 15 gram split is deemed an adequate size, for a digestion type analyses, to provide sufficiently reliable gold values for the purpose of the soil and silt surveys.

The rock samples were shipped to the AcmeLabs sample preparation facility in Whitehorse. The rock sample is crushed to 10 mesh, from which a 250 g sample split was produced. The split was pulverized to 200 mesh for analysis. The prepared sample was then shipped to AcmeLabs in Vancouver for analysis. A 0.5 gram subsample was subjected to Aqua Regia digestion and 36 element ICP-MS analysis (AcmeLabs code "1XD1"). A separate 30 gram subsample was analyzed by standard fire assay preparation with Atomic Absorption finish.

For samples reporting upper analytical limit for gold (10 ppm), silver (100 ppm), zinc (10,000 ppm) and lead (10,000 ppm), overlimit assays were completed.

3.5 Personnel

The following personnel did all of the applicable work for assessment:

Geologists
- Darwin Green
- Robert Thomas
- K. Wayne Livingstone
- Nathan Steeves
- Aisyah Abdkahar
- Roy Greig, geologist and sample crew chief (C. J. Greig & Associates Ltd.)

Prospectors
- Andy Budden
- Mervin Quinlan

Field Technicians (provided by C.J. Greig & Associates Ltd.)
- Brittney Bidlake
- Hannah Grimson
- Kei Quinn
- Kelsey Rufiange

Pilot
- Taylor Morrison, Kluane Helicopters

3.6 Expenditures

Table 4. Table of Expenditures for the RGS Property

Statement of Expenditures - RGS Property Group (HM02908)				
July-September 2011 Reconnaissance Field Program - Soils, Silts, and Prospecting				
LABOUR	**UNIT**	**RATE**	**TOTAL**	
Project Manager (R.Thomas/D.Green)	2	600		1,200
Crew Chief (R.Greig)	1	400		400
Geologist/Dbase Manager	1	350		350
Sample Crew (CJ Greig and Assoc.)	8	315		2,520
Prospectors	2	400		800
Sample prep crew and XRF operator	6	315		1,890
subtotal				7,160
GEOCHEMISTRY				
Assay cost (Acme Analytical)				4,120
XRF equipment and prep lab rental and supplies				1,900
Shipping				309
subtotal				6,329
CAMP COSTS	**UNIT**	**RATE**	**TOTAL**	
Room and Board (all-in camp costs per head)*	20	225		4,500
Field Supplies				618
Subtotal				5,118
FIELD TRANSPORTATION				
Helicopter + Fuel (Kluane Helicopters)				6,075
Fixed Wing (Alkan Air)				1,525
Subtotal				7,600
REPORT WRITING				3,500
TOTAL				**29,707**

* all in camp costs include groceries, fuel, general camp supplies, truck rental ,salary of cook, camp manager, camp hands, Whitehorse support costs, expediting/transport of goods, tent and equipment rental etc.

4. GEOCHEMISTRY

4.1 Previous geochemical sampling

As noted in Section 2.3, regional, publicly available regional silt sample data is available for the area. Five samples were either collected on the Property or within drainage basins that at least partly include the Property. The 31,000 sample, Yukon-wide dataset was clipped to the boundaries of the Selwyn Basin, as it was determined that the statistics within this geological boundary would provide more meaningful information. There are a total of 8,119 samples within this clipped regional silt geochemistry dataset. In addition to the Au-As-Sb-Hg signature exhibited by sample #903360 and described in Section 2.3, the arsenic and mercury values in this sample are in the 96th and 90th percentile, respectively, for the Selwyn Basin data population. Another notable sample is #901146 which contains 43 ppm arsenic (90th percentile), 612 ppb mercury (98th percentile) and 5.6 ppm antimony (90th percentile).

Although the two regional silt geochemical samples mentioned above appear to contain rather subdued gold values, it is important to keep in mind that the closest regional silt sample to the recent Osiris Carlin-type discovery (#106C011079), collected approximately 1.2 kilometers down-drainage, contained only 8 ppb gold, 74.9 ppm arsenic, 141 ppb mercury and 3 ppm antimony. Three of the five regional silt samples located on the Property have higher mercury and antimony values than the "Osiris" regional silt sample (see Table 3). Thallium is another important Carlin-type pathfinder element. The thallium regional silt data is incomplete, but is available for the Osiris area and the closest sample to the discovery, #106C011079, contained 0.29 ppm Tl. The YGS has recently released open file regional silt geochemistry data for thallium for map sheet NTS105O, which covers the Property. This new information indicates that two of the five regional silt samples illustrated in Figure 3 contain greater than 0.29 ppm Tl (Table 3). The regional silt geochemical thallium data requires more evaluation in order to make meaningful interpretations.

4.2 Project Geochemical Sampling

The 2011 field program consisted primarily of soil geochemical sampling, with lesser silt and rock sampling. Contour sampling traverses at a nominal spacing of 100-125 meters were laid out to best take advantage of topography, while providing efficient coverage of the existing mapped prospective geological features. A total of 203 samples were collected, including 45 rocks, 29 silts, and 129 soils. Figure 4 shows the sample locations. Thirteen individuals participated in the sampling program. Soil and silt samples were prepped at a base camp and analyzed with a portable Niton XRF unit prior to shipment to the assay laboratory. Following XRF analyses, soil and silt samples were then transported to AcmeLabs in Vancouver, BC, where they were analyzed with a 36 element ICP-MS procedure. Rock samples were prepped in the AcmeLabs Whitehorse laboratory, and then shipped to Vancouver for analysis using ICP-MS and fire assay fusion ICP-ES for gold.

4.3 Geochemical distribution – CCJV Coverage

Soils

Statistical summaries for gold, arsenic, mercury, antimony, thallium, silver, copper, nickel, lead, zinc and bismuth are provided in Table 5 for soils. Geochemistry distribution is discussed in Section 5.

Table 5. Statistics for soil samples for the RGS property (129 samples)

	Au (ppb)	As (ppm)	Hg (ppm)	Sb (ppm)	Tl (ppm)	Ag (ppm)	Cu (ppm)	Zn (ppm)	Ni (ppm)	Pb (ppm)	Bi (ppm)
Max	10.3	2721.2	0.36	27	0.4	3.2	80.3	709	64.4	23.5	0.5
Mean	1.94	39.73	0.09	1.23	0.14	0.39	23.13	71.23	17.84	9.18	0.19
Standard Deviation	1.75	241.75	0.09	2.86	0.06	0.44	14.07	78.91	13.03	4.84	0.08
95th percentile	5.2	45.7	0.26	2.1	0.3	1.4	55.6	145	47.2	18.7	0.3

Silts

Only 28 silt samples were collected, so a complete statistical summary is not very meaningful. Maximum values and the mean for gold, arsenic, mercury, antimony, thallium, silver, copper, nickel, lead, zinc and bismuth are provided in Table 6 for silts.

Table 6. Statistics for silt samples for the RGS property (28 samples)

	Au (ppb)	As (ppm)	Hg (ppm)	Sb (ppm)	Tl (ppm)	Ag (ppm)	Cu (ppm)	Zn (ppm)	Ni (ppm)	Pb (ppm)	Bi (ppm)
Max	9.9	102	1.19	3.4	0.7	2.9	206.3	1980	871.9	16.8	0.3
Mean	3.13	28.78	0.25	1.6	0.2	0.63	48.54	305	91.81	11.78	0.2

Rocks

Maximum and mean values in the rock samples collected on the Property are provided in Table 6. All 45 rock samples were collected in areas underlain by lithologies that Abbott (2012) mapped as Triassic-age Jones Lake Formation, which contains abundant thin-bedded calcareous siltstone. Most of these samples were collected from exposures along the main northwest-southeast drainage that cuts through the length of the claim block.

Table 6. Statistics for rock samples for the RGS property (45 samples)

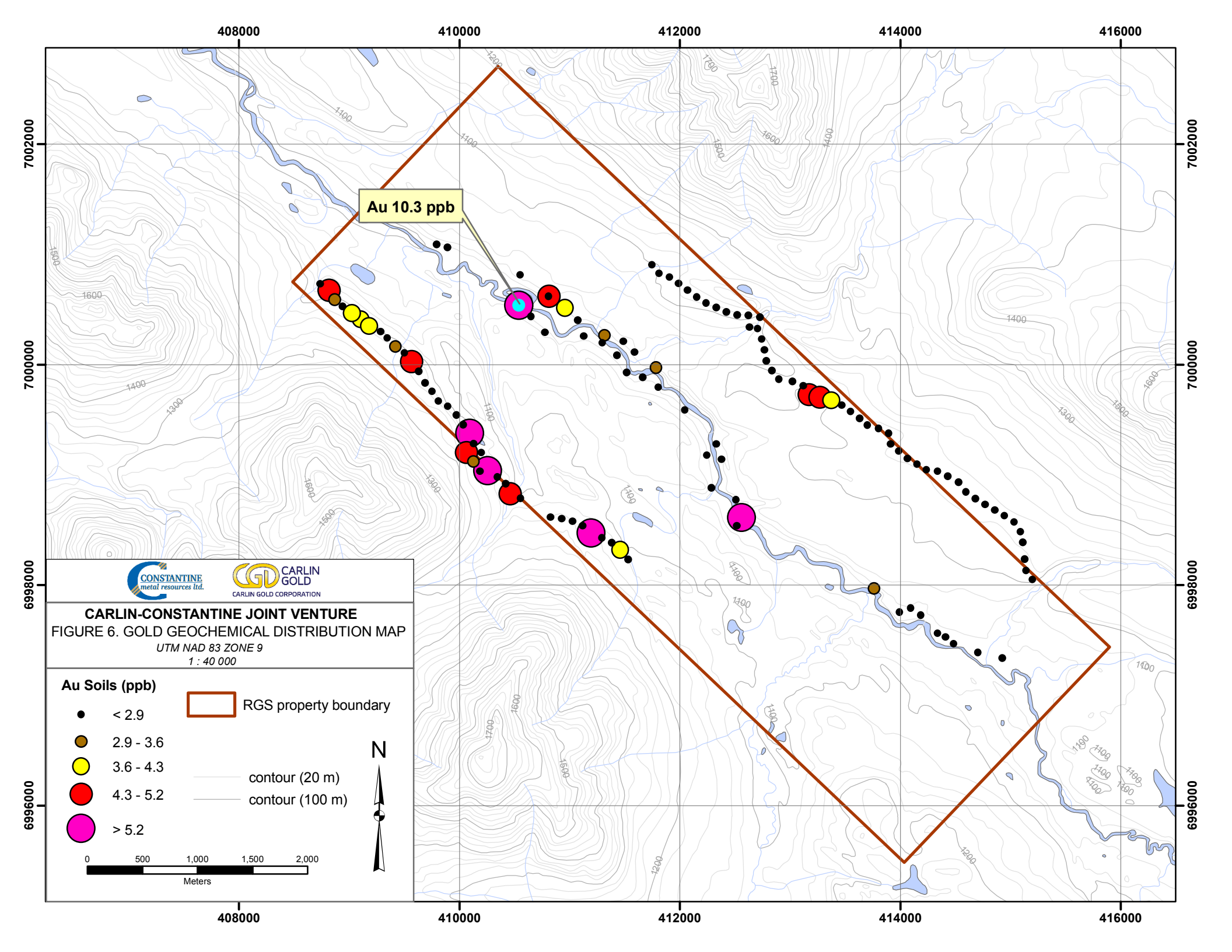
	Au (ppb)	As (ppm)	Hg (ppm)	Sb (ppm)	Tl (ppm)	Ag (ppm)	Cu (ppm)	Zn (ppm)	Ni (ppm)	Pb (ppm)	Bi (ppm)
Max	18	43.2	0.24	3.1	0.2	0.7	143.5	117	41.0	35.1	0.3
Mean	3.36	9.59	0.07	0.3	0.1	0.15	19.0	44.18	17.8	10.5	0.13

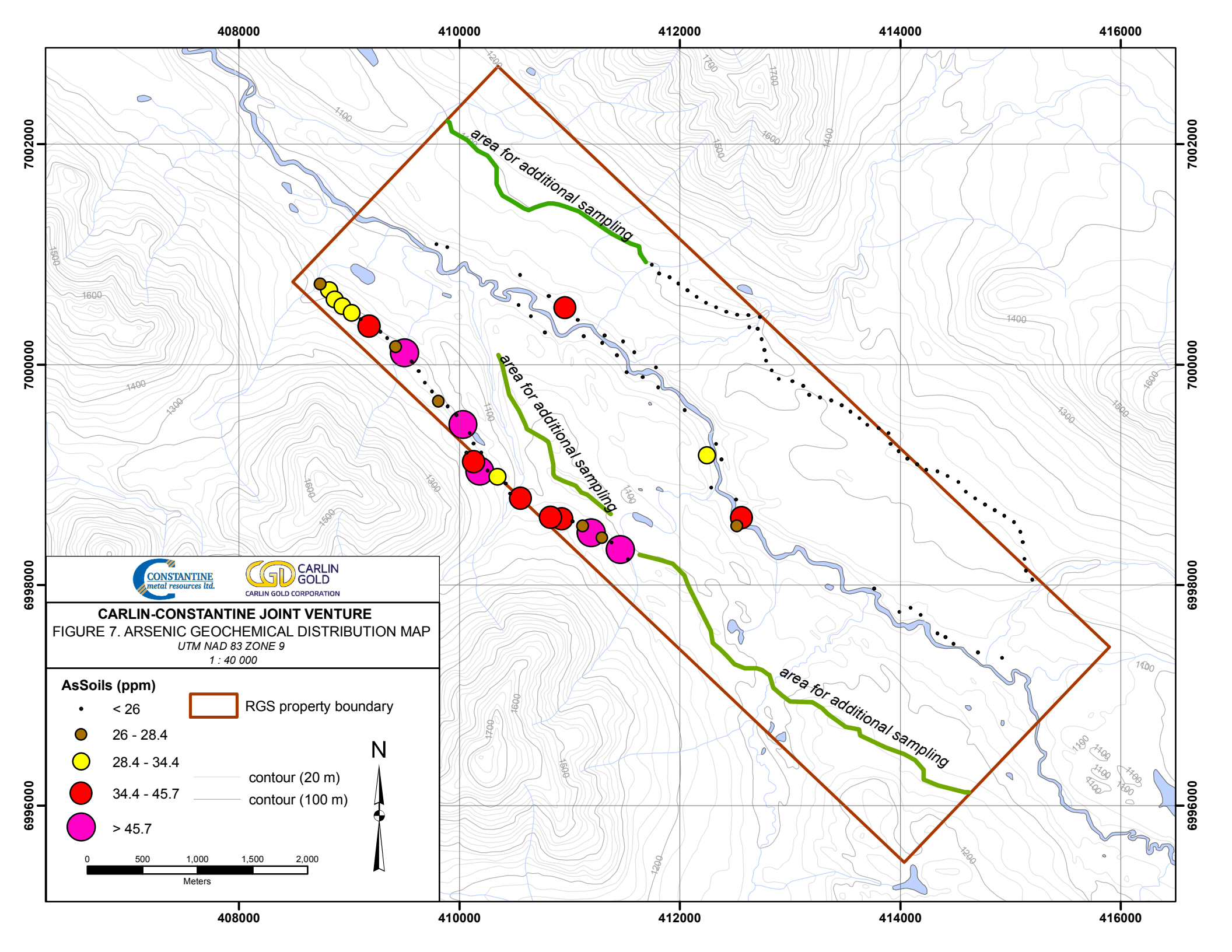
Multielement geochemical results for all samples is provided in Appendix B.

5. DISCUSSION

The CCJV exploration program conducted in 2011 consisted of soil, silt and rock sampling that primarily targeted an area underlain by a Triassic-age thinly laminated silty limesone and argillites considered to be an excellent potential host rock package for Carlin-type mineralization. Abbott (2012) mapped this unit as the Jones Lake Formation. The 45 rock samples collected did not contain appreciable gold values, with a high of only 18 ppb gold in a rusty, quartz-rich, pyritic material collected by a one of the prospectors on the crew. This same material contained the highest rock arsenic value of 43.5 ppm.

The highest gold soil value was 10.3 ppb from the south edge of the main drainage 1.6 km southeast of the northwest edge of the property (Fig.6). The majority of $\geq 90^{th}$ percentile gold soil values, however, occur along the southwest edge of the northwest portion of the Property, in an area mostly mapped by Abbott as sandstone and shale of the Carboniferous-Mississippian Tsichu Formation. This area also contains the highest cluster of arsenic values (Fig. 7). Antimony, mercury and silver soil values show a similar pattern of higher values on the southwest edge of the Property.


408000
410000
412000
414000
416000
7002000
7000000
6998000
6996000
Au 10.3 ppb
CONSTANTINE metal resources ltd.
CARLIN GOLD
CARLIN GOLD CORPORATION
CARLIN-CONSTANTINE JOINT VENTURE
FIGURE 6. GOLD GEOCHEMICAL DISTRIBUTION MAP
UTM NAD 83 ZONE 9
1 : 40 000
Au Soils (ppb)
< 2.9
2.9 - 3.6
3.6 - 4.3
4.3 - 5.2
> 5.2
RGS property boundary
contour (20 m)
contour (100 m)
N
0
500
1,000
1,500
2,000
Meters


408000
410000
412000
414000
416000
7002000
7000000
6998000
6996000
area for additional sampling
area for additional sampling
area for additional sampling
CONSTANTINE metal resources ltd.
CARLIN GOLD
CARLIN GOLD CORPORATION
CARLIN-CONSTANTINE JOINT VENTURE
FIGURE 7. ARSENIC GEOCHEMICAL DISTRIBUTION MAP
UTM NAD 83 ZONE 9
1 : 40 000
AsSoils (ppm)
< 26
26 - 28.4
28.4 - 34.4
34.4 - 45.7
> 45.7
RGS property boundary
contour (20 m)
contour (100 m)
N
0
500
1,000
1,500
2,000
Meters

6. RECOMMENDATIONS

Although the elemental values for samples to date are subdued, limited additional sampling should be carried out to complete the coverage of the Property. The existing traverse on the northeast side of the property should be extended 2.2 kilometers northwest to the edge of the property line. Similarly, the traverse on the southwest edge of the property should be extended southeast 3.8 kilometers to the edge of the Property (Fig. 7) . Limited additional soil/silt sampling should be conducted in the vicinity of the regional Regional Silt Geochemistry samples nos. 93360 and 901146, which are shown on Figure 3. Limited additional prospecting and rock sampling should be carried out in the vicinity of exposures of the thinly laminated siltstone unit in the Jones Lake Formation.

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APPENDIX A

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Robert D. Thomas, Jr, CPG., do hereby certify that:

1. I am currently Vice President of Exploration for Carlin Gold Corporation with an office at:

   320-800 West Pender Street,
   Vancouver, British Columbia, Canada
   V6C 2V6.

2. I graduated with a B.A. degree from Bates College, Lewiston, Maine, USA in 1969 and an M.A. degree in geology from Wesleyan University, Middletown, Connecticut, USA in 1974.

3. I directly supervised The Carlin-Constantine Joint Venture exploration programs at the RGS property in 2011 and am an author of this report.

4. I have worked as a geologist or been engaged in geological studies more or less continuously for the past 39 years. My work experience has been in exploration for gold and base metal mineralization in North America and Central America for both major and junior mining companies.

5. I am a Certified Professional Geologist registered with the American Institute of Professional Geologists (CPG #10314).

Dated this 11th Day of July, 2012.

Signature of Qualified Person

"Robert D. Thomas, Jr" .
Print name of Qualified Person

STATEMENT OF QUALIFICATIONS

I, Darwin Green, P.Geo., do hereby certify that:

1. I am currently Vice President of Exploration for Constantine Metal Resources Ltd. with an office at:

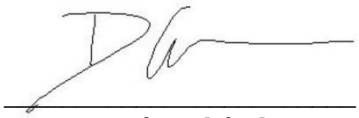
   320-800 West Pender Street,
   Vancouver, British Columbia, Canada
   V6C 2V6.

2. I graduated with a degree in Geological Sciences (B.Sc.) from the University of British Columbia in 1995. In addition, I was granted a M.Sc. degree in geology from Carleton University at Ottawa in 2001.

3. I directly supervised The Carlin-Constantine Joint Venture exploration programs at the RGS property in 2011 and I am an author of this report.

4. I have worked as a geologist or been engaged in geological studies more or less continuously for the past 18 years. My work experience has been in exploration for gold and base metal mineralization in North America, South America and Central America for both major and junior mining companies.

Dated this 11th Day of July, 2012.



Signature of Qualified Person

"Darwin Green" .
Print name of Qualified Person

APPENDIX B

ASSAY CERTIFICATES

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

www.acmelab.com

Client: **Carlin Gold Corporation**
320 - 800 West Pender Street
Vancouver BC V6C 2V6 Canada

Submitted By: Confirmation Email List
Receiving Lab: Canada-Vancouver
Received: July 29, 2011
Report Date: August 24, 2011
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN11003582.1

CLIENT JOB INFORMATION

Project: CCJV
Shipment ID:
P.O. Number RG-01
Number of Samples: 59

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
No Prep	59	Sorting of samples on arrival and labeling			VAN
1DX2	53	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage

ADDITIONAL COMMENTS

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

Invoice To: Carlin Gold Corporation
320 - 800 West Pender Street
Vancouver BC V6C 2V6
Canada

CC: Report Email List

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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

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

Client: **Carlin Gold Corporation**
320 - 800 West Pender Street
Vancouver BC V6C 2V6 Canada

Project: CCJV
Report Date: August 24, 2011

CERTIFICATE OF ANALYSIS VAN11003582.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1180751	Soil Pulp		4.7	83.7	16.1	145	0.3	43.2	12.3	898	3.53	33.7	1.2	1.9	76	0.4	2.3	0.3	20	0.48	0.115	4
1180801	Soil Pulp		2.7	69.8	11.9	185	0.4	62.2	10.0	1190	2.78	22.2	<0.5	1.4	181	0.9	2.1	0.2	15	1.43	0.175	6
1180851	Soil Pulp		1.3	27.2	10.5	145	0.4	36.4	10.5	830	2.91	13.6	0.6	2.4	61	0.9	0.6	0.2	25	0.73	0.100	6
1180852	Soil Pulp		3.6	39.4	11.8	256	0.2	44.9	16.3	328	3.31	45.2	0.6	4.3	31	1.3	2.8	0.3	30	0.21	0.083	10
1180853	Soil Pulp		4.0	41.0	13.6	347	0.4	77.6	30.4	725	3.51	41.7	3.4	3.6	37	2.1	2.5	0.3	33	0.33	0.100	9
1180854	Soil Pulp		25.6	100.8	53.4	1203	1.9	136.1	10.8	439	2.68	99.8	1.0	0.3	72	18.4	18.1	7.2	165	0.34	0.222	10
1180855	Soil Pulp		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1180856	Soil Pulp		1.7	24.3	16.8	126	0.3	35.9	13.2	666	2.96	13.7	<0.5	3.2	42	0.4	0.7	0.3	22	0.79	0.114	5
1180857	Soil Pulp		4.9	30.4	13.8	311	0.4	58.6	39.2	1052	3.90	33.4	<0.5	2.2	38	1.0	2.9	0.2	34	0.13	0.078	4
1180858	Soil Pulp		2.0	51.6	9.2	1980	0.6	871.9	143.9	8828	1.96	9.6	<0.5	1.6	79	24.4	0.7	0.1	20	0.84	0.148	7
1185717	Soil Pulp		3.9	29.3	18.2	130	0.1	28.2	8.0	448	3.56	27.0	<0.5	0.7	35	0.4	1.8	0.3	33	0.37	0.151	4
1185719	Soil Pulp		3.6	35.0	12.6	96	0.2	41.3	12.4	349	3.41	20.4	<0.5	3.5	25	0.2	0.9	0.2	24	0.51	0.087	6
1185721	Soil Pulp		5.1	50.9	19.8	144	0.4	48.9	15.2	283	4.29	29.1	<0.5	4.4	22	0.5	1.1	0.3	26	0.41	0.135	6
1185724	Soil Pulp		3.4	25.5	9.1	99	0.1	24.9	7.4	260	2.39	17.8	<0.5	1.5	28	0.2	1.0	0.2	21	0.57	0.108	3
1185726	Soil Pulp		1.1	15.4	8.2	39	<0.1	11.9	4.1	93	2.10	6.8	<0.5	0.5	7	<0.1	0.2	0.2	22	0.06	0.074	2
1185727	Soil Pulp		2.6	28.6	16.5	100	<0.1	37.1	13.0	361	3.70	12.1	<0.5	3.5	23	0.3	0.6	0.2	21	0.50	0.085	3
1185728	Soil Pulp		5.4	57.2	12.1	152	1.4	41.8	11.4	397	2.47	10.3	2.8	3.4	26	0.7	1.5	0.2	34	0.50	0.160	5
1185729	Soil Pulp		2.8	28.0	18.3	92	<0.1	48.2	17.9	432	3.64	13.7	<0.5	5.8	14	0.2	0.4	0.3	21	0.32	0.132	9
1185730	Soil Pulp		1.7	13.2	9.8	27	<0.1	10.8	4.2	123	2.01	7.4	<0.5	0.9	14	0.3	0.3	0.1	23	0.22	0.072	4
1185731	Soil Pulp		2.5	29.7	9.3	57	0.3	26.4	6.3	266	2.00	12.0	<0.5	0.9	51	0.3	0.7	0.1	18	0.94	0.098	4
1185732	Soil Pulp		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1185733	Soil Pulp		1.1	6.0	2.8	16	<0.1	3.6	1.5	54	0.68	4.7	<0.5	<0.1	7	<0.1	0.3	<0.1	21	0.03	0.025	3
1185734	Soil Pulp		0.9	16.4	8.6	68	0.2	20.3	7.3	254	1.96	7.8	<0.5	1.6	42	0.1	0.4	0.1	18	1.26	0.117	5
1185735	Soil Pulp		1.9	56.2	10.6	131	3.2	50.6	10.3	226	2.40	7.7	10.3	2.0	23	0.6	1.3	0.2	19	0.58	0.065	3
1185812	Soil Pulp		0.8	8.3	4.3	58	0.4	10.5	5.1	427	1.21	2.7	1.7	0.8	26	0.4	0.2	0.1	19	0.51	0.086	4
1185814	Soil Pulp		1.6	12.3	8.0	48	<0.1	12.9	4.6	154	1.98	8.6	<0.5	1.1	5	0.1	0.4	0.2	25	0.05	0.052	3
1185821	Soil Pulp		4.4	15.1	7.4	88	0.3	16.4	4.5	195	2.07	22.3	1.0	0.8	12	0.2	1.4	0.2	43	0.11	0.055	5
1185824	Soil Pulp		1.8	30.9	9.4	78	0.2	42.0	10.2	192	2.71	8.8	2.2	3.6	30	0.2	0.5	0.2	16	1.03	0.079	6
[redacted]																						
[redacted]																						

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

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Project: CCJV
Report Date: August 24, 2011

CERTIFICATE OF ANALYSIS VAN11003582.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1180751	Soil Pulp	16	0.29	844	0.002	<1	0.98	0.011	0.09	<0.1	0.18	4.9	0.2	0.08	3	1.1	<0.2
1180801	Soil Pulp	12	0.32	862	0.003	4	0.91	0.014	0.11	<0.1	0.20	4.1	0.2	0.27	2	2.8	<0.2
1180851	Soil Pulp	19	0.37	548	0.005	3	1.26	0.011	0.08	0.1	0.17	3.6	0.1	0.14	3	3.0	<0.2
1180852	Soil Pulp	16	0.33	484	0.003	<1	1.13	0.009	0.08	0.4	0.08	3.4	0.2	0.18	2	1.9	<0.2
1180853	Soil Pulp	19	0.37	613	0.004	<1	1.36	0.009	0.09	0.2	0.11	3.8	0.2	0.14	3	2.3	<0.2
1180854	Soil Pulp	48	0.30	2309	0.013	2	1.93	0.022	0.12	0.4	0.19	1.3	1.5	0.15	4	6.8	<0.2
1180855	Soil Pulp	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1180856	Soil Pulp	22	0.52	336	0.006	5	1.15	0.008	0.11	0.1	0.07	3.8	0.1	0.13	3	1.6	<0.2
1180857	Soil Pulp	12	0.16	775	0.001	<1	1.39	0.006	0.08	0.1	0.14	4.2	0.3	0.13	2	3.1	<0.2
1180858	Soil Pulp	15	0.37	1080	0.003	2	1.63	0.015	0.10	<0.1	0.14	3.1	0.3	0.14	3	3.8	<0.2
1185717	Soil Pulp	21	0.29	443	0.004	<1	1.24	0.013	0.07	0.1	0.04	1.8	0.3	0.07	4	0.6	<0.2
1185719	Soil Pulp	22	0.45	652	0.003	<1	1.47	0.011	0.09	<0.1	0.13	5.1	0.2	0.05	4	<0.5	<0.2
1185721	Soil Pulp	24	0.47	274	0.002	<1	1.62	0.007	0.09	<0.1	0.12	6.4	0.3	0.05	4	<0.5	<0.2
1185724	Soil Pulp	12	0.23	388	0.004	<1	0.84	0.019	0.06	<0.1	0.05	2.6	0.1	0.10	3	0.7	<0.2
1185726	Soil Pulp	12	0.19	73	0.003	<1	1.10	0.007	0.08	<0.1	<0.01	0.9	0.1	<0.05	5	<0.5	<0.2
1185727	Soil Pulp	24	0.71	169	0.002	<1	1.47	0.004	0.10	<0.1	0.04	4.0	0.2	<0.05	4	0.6	<0.2
1185728	Soil Pulp	28	0.29	185	0.002	2	0.81	0.005	0.11	<0.1	0.25	3.9	0.2	<0.05	2	2.5	<0.2
1185729	Soil Pulp	26	0.75	206	0.003	<1	1.60	0.004	0.12	<0.1	0.03	4.5	0.2	<0.05	4	<0.5	<0.2
1185730	Soil Pulp	11	0.17	159	0.002	<1	1.04	0.010	0.08	<0.1	0.01	1.4	0.1	<0.05	4	<0.5	<0.2
1185731	Soil Pulp	13	0.22	590	0.007	<1	0.94	0.019	0.07	<0.1	0.12	2.3	0.1	0.07	2	1.0	<0.2
1185732	Soil Pulp	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1185733	Soil Pulp	4	0.03	51	0.005	<1	0.41	0.017	0.03	<0.1	<0.01	0.1	<0.1	<0.05	2	<0.5	<0.2
1185734	Soil Pulp	13	0.32	227	0.003	2	0.88	0.013	0.09	<0.1	0.10	2.9	<0.1	0.09	2	0.7	<0.2
1185735	Soil Pulp	22	0.28	251	0.003	2	0.82	0.010	0.08	<0.1	0.31	4.3	0.1	<0.05	2	3.2	<0.2
1185812	Soil Pulp	9	0.19	587	0.012	4	0.77	0.023	0.06	<0.1	0.07	1.4	<0.1	<0.05	2	0.6	<0.2
1185814	Soil Pulp	14	0.22	129	0.002	2	1.14	0.005	0.08	<0.1	0.02	1.3	0.2	<0.05	4	<0.5	<0.2
1185821	Soil Pulp	15	0.22	161	0.004	1	0.65	0.005	0.08	0.2	0.04	1.4	0.1	<0.05	3	0.8	<0.2
1185824	Soil Pulp	21	0.61	175	0.005	5	1.34	0.007	0.12	<0.1	0.26	5.8	0.2	<0.05	4	0.6	<0.2
[illegible]	Soil Pulp	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
[illegible]	Soil Pulp	[illegible]															

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

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320 - 800 West Pender Street
Vancouver BC V6C 2V6 Canada

Project: CCJV
Report Date: August 24, 2011

CERTIFICATE OF ANALYSIS VAN11003582.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
[redacted]	Soil Pulp	[redacted]																			
[redacted]	Soil Pulp	[redacted]																			
[redacted]	Soil Pulp	[redacted]																			
[redacted]	Soil Pulp	[redacted]																			
[redacted]	Soil Pulp	[redacted]																			
[redacted]	Soil Pulp	[redacted]																			
1186209	Soil Pulp	0.7	7.8	1.7	11	<0.1	2.9	1.5	183	0.44	1.7	1.6	<0.1	12	0.1	<0.1	<0.1	9	0.14	0.071	3
1186210	Soil Pulp	0.4	6.1	1.5	15	<0.1	2.9	1.3	132	0.49	0.7	2.4	<0.1	13	0.1	<0.1	<0.1	11	0.14	0.074	3
1186211	Soil Pulp	4.9	21.9	15.2	82	<0.1	20.4	8.0	388	4.27	24.2	2.5	0.4	7	0.2	0.8	0.3	29	0.04	0.124	3
1186212	Soil Pulp	3.3	19.4	7.3	71	0.1	15.2	4.5	363	2.10	15.1	2.0	0.2	19	0.4	0.7	0.2	19	0.17	0.120	3
1186213	Soil Pulp	1.1	9.0	3.1	29	<0.1	4.5	2.2	186	0.86	3.6	2.2	<0.1	7	0.3	0.2	<0.1	13	0.05	0.069	3
1186215	Soil Pulp	2.5	29.4	7.8	75	0.3	12.7	3.5	194	2.17	9.2	1.9	0.3	13	1.1	0.6	0.3	32	0.08	0.144	10
1186216	Soil Pulp	3.6	20.9	11.1	81	0.2	17.0	6.4	322	2.90	21.5	2.6	0.3	11	0.2	0.9	0.2	33	0.05	0.097	4
1186217	Soil Pulp	2.5	15.8	8.9	68	0.1	14.7	4.8	208	2.99	18.5	1.8	0.3	9	0.3	0.6	0.2	24	0.05	0.132	4
1186219	Soil Pulp	8.1	24.4	10.9	74	0.3	34.4	11.5	526	2.92	18.9	3.0	1.3	13	0.1	0.5	0.2	16	0.14	0.134	3
1186221	Soil Pulp	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1186222	Soil Pulp	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1186225	Soil Pulp	5.4	53.1	18.7	166	0.7	46.6	17.0	723	4.56	38.6	5.8	1.0	17	1.0	2.0	0.3	30	0.22	0.147	6
1186226	Soil Pulp	5.4	16.2	9.6	66	0.3	17.2	4.8	503	2.58	9.6	1.4	0.5	13	0.3	0.9	0.2	33	0.19	0.078	2
1186227	Soil Pulp	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1186229	Soil Pulp	1.9	13.5	6.9	31	<0.1	12.7	3.1	73	1.62	6.5	2.0	0.3	6	0.1	0.2	0.1	16	0.05	0.034	1
1186230	Soil Pulp	5.2	17.1	10.1	44	<0.1	17.9	5.8	153	2.48	9.0	2.6	1.2	6	0.1	0.2	0.2	19	0.05	0.091	3
1186235	Soil Pulp	1.8	8.0	3.7	24	<0.1	5.4	1.6	53	0.90	6.7	3.0	<0.1	6	0.1	0.3	0.1	15	0.02	0.044	2
1186236	Soil Pulp	4.0	17.6	8.7	89	0.2	20.8	5.7	212	2.53	16.7	2.2	0.5	4	0.1	0.8	0.2	20	0.03	0.106	2
1186237	Soil Pulp	2.4	17.6	5.8	49	<0.1	6.8	2.1	118	1.07	9.7	2.9	<0.1	8	0.2	1.1	0.1	33	0.03	0.075	5
1186238	Soil Pulp	2.3	26.3	15.5	98	0.1	32.5	18.6	592	3.68	14.0	3.6	3.3	10	0.2	0.6	0.3	25	0.17	0.108	3
1186239	Soil Pulp	2.6	15.1	12.4	48	<0.1	20.8	6.5	157	3.28	10.5	1.5	0.7	7	0.1	0.3	0.2	29	0.08	0.083	1
1186240	Soil Pulp	5.1	30.5	12.7	144	0.1	21.8	7.1	537	3.54	34.5	4.1	0.1	7	0.2	1.5	0.3	45	0.03	0.133	3
1186241	Soil Pulp	0.5	13.4	2.5	15	0.2	9.5	2.6	93	0.75	1.5	5.2	0.2	39	0.2	0.3	<0.1	9	0.61	0.088	3

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Project: CCJV
Report Date: August 24, 2011

CERTIFICATE OF ANALYSIS VAN11003582.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
[redacted]																	
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[redacted]																	
[redacted]																	
[redacted]																	
[redacted]																	
1186209	Soil Pulp	2	0.03	59	0.010	<1	0.65	0.030	0.03	<0.1	0.02	0.4	<0.1	<0.05	2	<0.5	<0.2
1186210	Soil Pulp	2	0.03	74	0.011	<1	0.69	0.025	0.03	<0.1	0.02	0.3	<0.1	<0.05	2	<0.5	<0.2
1186211	Soil Pulp	20	0.20	169	0.004	<1	1.28	0.006	0.05	<0.1	0.04	0.9	0.2	<0.05	5	0.7	<0.2
1186212	Soil Pulp	9	0.09	326	0.002	<1	1.02	0.013	0.05	<0.1	0.04	0.3	0.2	<0.05	3	0.8	<0.2
1186213	Soil Pulp	4	0.04	111	0.004	<1	0.65	0.019	0.03	<0.1	0.03	0.1	<0.1	<0.05	3	<0.5	<0.2
1186215	Soil Pulp	16	0.09	254	0.004	1	1.32	0.008	0.05	0.2	0.04	0.4	0.2	<0.05	5	0.7	<0.2
1186216	Soil Pulp	17	0.19	158	0.005	<1	1.14	0.010	0.06	0.2	0.05	0.8	0.2	<0.05	4	1.0	<0.2
1186217	Soil Pulp	16	0.12	316	0.005	1	0.96	0.010	0.06	<0.1	0.04	0.4	0.2	<0.05	4	0.8	<0.2
1186219	Soil Pulp	17	0.29	165	0.003	<1	1.23	0.010	0.09	<0.1	0.07	2.1	0.2	<0.05	3	0.7	<0.2
1186221	Soil Pulp	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1186222	Soil Pulp	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1186225	Soil Pulp	21	0.33	788	0.004	<1	1.28	0.007	0.09	0.1	0.16	2.5	0.3	0.08	4	1.8	<0.2
1186226	Soil Pulp	25	0.12	145	0.003	<1	0.80	0.011	0.06	<0.1	0.04	1.1	0.2	<0.05	3	2.4	<0.2
1186227	Soil Pulp	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1186229	Soil Pulp	9	0.15	60	0.004	<1	0.79	0.015	0.05	<0.1	0.03	0.9	0.1	<0.05	3	<0.5	<0.2
1186230	Soil Pulp	16	0.32	93	0.003	2	1.37	0.011	0.09	<0.1	0.04	1.7	0.2	<0.05	5	<0.5	<0.2
1186235	Soil Pulp	5	0.05	88	0.004	<1	0.51	0.015	0.04	<0.1	0.03	0.2	<0.1	<0.05	3	0.7	<0.2
1186236	Soil Pulp	11	0.12	81	0.003	<1	0.81	0.011	0.06	<0.1	0.05	1.3	0.2	<0.05	3	0.6	<0.2
1186237	Soil Pulp	7	0.02	97	0.003	<1	0.46	0.009	0.05	<0.1	0.03	<0.1	<0.1	<0.05	3	<0.5	<0.2
1186238	Soil Pulp	26	0.58	198	0.003	1	1.47	0.005	0.14	<0.1	0.09	3.6	0.2	<0.05	5	1.0	<0.2
1186239	Soil Pulp	21	0.43	83	0.004	3	1.39	0.006	0.14	<0.1	0.03	1.7	0.2	<0.05	6	<0.5	<0.2
1186240	Soil Pulp	23	0.12	102	0.003	1	0.64	0.006	0.10	0.1	0.05	0.8	0.2	<0.05	4	1.1	<0.2
1186241	Soil Pulp	5	0.08	376	0.012	2	0.66	0.022	0.03	<0.1	0.12	0.7	<0.1	0.09	2	0.7	<0.2

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Project: CCJV
Report Date: August 24, 2011

QUALITY CONTROL REPORT VAN11003582.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
1185724	Soil Pulp	3.4	25.5	9.1	99	0.1	24.9	7.4	260	2.39	17.8	<0.5	1.5	28	0.2	1.0	0.2	21	0.57	0.108	3
REP 1185724	QC	3.2	25.0	8.7	96	<0.1	23.3	7.0	254	2.25	16.9	<0.5	1.4	27	0.2	0.9	0.2	21	0.54	0.097	3
1186210	Soil Pulp	0.4	6.1	1.5	15	<0.1	2.9	1.3	132	0.49	0.7	2.4	<0.1	13	0.1	<0.1	<0.1	11	0.14	0.074	3
REP 1186210	QC	0.4	6.0	1.4	14	<0.1	2.5	1.2	131	0.48	1.0	1.8	<0.1	12	0.2	<0.1	<0.1	11	0.14	0.073	3
1186216	Soil Pulp	3.6	20.9	11.1	81	0.2	17.0	6.4	322	2.90	21.5	2.6	0.3	11	0.2	0.9	0.2	33	0.05	0.097	4
REP 1186216	QC	3.5	20.5	11.0	79	0.2	16.8	6.2	322	2.84	21.4	1.6	0.3	11	0.2	0.9	0.2	34	0.05	0.090	4
Reference Materials																					
STD DS8	Standard	14.0	117.7	114.6	326	1.8	40.3	8.2	641	2.55	26.2	108.4	6.9	74	2.5	5.6	6.6	43	0.76	0.083	17
STD DS8	Standard	14.2	117.4	119.3	320	1.8	39.7	8.2	640	2.51	26.4	106.5	7.1	71	2.4	5.6	6.7	47	0.72	0.080	16
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

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QUALITY CONTROL REPORT VAN11003582.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
1185724	Soil Pulp	12	0.23	388	0.004	<1	0.84	0.019	0.06	<0.1	0.05	2.6	0.1	0.10	3	0.7	<0.2
REP 1185724	QC	11	0.22	377	0.005	<1	0.78	0.017	0.07	<0.1	0.05	2.3	0.1	0.13	2	<0.5	<0.2
1186210	Soil Pulp	2	0.03	74	0.011	<1	0.69	0.025	0.03	<0.1	0.02	0.3	<0.1	<0.05	2	<0.5	<0.2
REP 1186210	QC	2	0.03	73	0.010	<1	0.70	0.024	0.03	<0.1	0.02	0.3	<0.1	<0.05	2	<0.5	<0.2
1186216	Soil Pulp	17	0.19	158	0.005	<1	1.14	0.010	0.06	0.2	0.05	0.8	0.2	<0.05	4	1.0	<0.2
REP 1186216	QC	17	0.18	160	0.004	<1	1.14	0.009	0.06	0.1	0.04	0.8	0.2	<0.05	4	1.0	<0.2
Reference Materials																	
STD DS8	Standard	122	0.65	296	0.134	3	0.99	0.108	0.46	2.9	0.22	2.5	5.4	0.16	5	5.8	5.3
STD DS8	Standard	125	0.63	301	0.133	1	0.95	0.092	0.42	3.2	0.19	2.5	5.5	0.17	5	5.2	4.9
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Vancouver BC V6C 2V6 Canada

Submitted By: Confirmation Email List
Receiving Lab: Canada-Vancouver
Received: September 07, 2011
Report Date: October 01, 2011
Page: 1 of 6

CERTIFICATE OF ANALYSIS VAN11004550.1

CLIENT JOB INFORMATION

Project: CCJV
Shipment ID:
P.O. Number RG-05
Number of Samples: 134

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
No Prep	134	Sorting of samples on arrival and labeling			VAN
1DX2	134	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage

ADDITIONAL COMMENTS

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

Invoice To: Carlin Gold Corporation
320 - 800 West Pender Street
Vancouver BC V6C 2V6
Canada

CC: Report Email List

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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

AcmeLabs Acme Analytical Laboratories (Vancouver) Ltd.
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	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1180832	Silt	2.8	17.5	9.6	51	0.3	14.6	9.4	298	2.79	18.2	1.7	1.5	11	0.2	0.9	0.2	12	0.09	0.081	3
1180833	Silt	3.1	37.8	13.4	105	0.8	42.9	43.0	2451	3.05	20.9	4.8	1.1	59	0.8	0.8	0.2	22	0.30	0.087	3
1180834	Silt	2.9	42.2	9.7	129	0.2	34.3	7.5	377	2.54	21.4	3.1	1.3	22	0.4	1.0	0.2	18	0.10	0.047	3
1180835	Silt	2.3	46.8	13.1	208	0.7	64.0	9.6	399	2.82	102.0	3.7	1.1	37	0.5	1.5	0.2	23	0.21	0.059	3
1180836	Silt	3.3	73.3	15.3	162	0.8	55.8	10.8	507	2.94	45.9	5.6	1.1	76	0.5	2.0	0.2	24	0.31	0.078	3
1180839	Silt	1.6	27.3	9.8	67	0.5	29.9	6.8	270	2.03	11.0	2.5	2.4	53	0.4	0.6	0.2	23	0.76	0.068	6
1181372	Silt	1.9	41.8	9.3	269	1.0	101.0	116.6	3641	2.41	13.0	4.8	1.3	49	1.2	0.8	0.2	25	0.37	0.090	5
1181373	Silt	2.1	46.3	12.0	134	0.9	43.5	12.6	279	3.57	15.9	4.6	1.5	34	0.2	0.9	0.2	35	0.05	0.084	3
1181374	Silt	4.4	28.6	12.6	230	0.4	51.2	20.6	435	3.44	29.8	2.5	1.7	70	1.1	3.0	0.2	28	0.36	0.065	4
1181375	Silt	1.5	20.6	6.1	237	0.6	48.8	9.9	4213	3.30	12.4	2.2	1.3	122	2.8	0.5	0.2	16	1.45	0.118	4
1181376	Silt	1.0	23.7	9.7	409	1.0	62.0	11.6	932	2.40	9.9	4.4	2.3	61	6.3	0.5	0.2	25	0.70	0.092	7
1182519	Silt	1.9	65.8	11.1	239	0.6	63.7	26.2	991	2.40	27.7	3.8	2.6	18	0.7	1.6	0.2	25	0.12	0.074	6
1182520	Silt	1.4	63.0	12.1	263	2.9	158.7	16.1	424	1.70	37.4	9.9	0.7	83	1.2	2.3	0.2	13	1.00	0.102	4
1182521	Silt	2.1	43.7	12.9	135	1.4	44.4	9.4	543	3.12	51.8	6.3	1.3	42	0.3	1.6	0.2	28	0.29	0.076	3
1182522	Silt	10.1	206.3	9.6	1526	0.6	320.1	78.6	2839	3.73	34.4	4.2	1.8	45	10.3	3.4	0.1	77	0.34	0.146	5
1182523	Silt	1.6	45.2	13.7	113	0.7	31.4	11.0	288	2.66	23.2	3.7	1.3	101	0.3	0.7	0.2	26	0.26	0.060	3
[redacted]																					
1373272	Soil Pulp	3.2	21.6	6.4	50	0.1	10.5	2.6	72	1.77	28.1	2.5	0.2	4	<0.1	1.0	0.1	24	<0.01	0.035	3
1373273	Soil Pulp	2.9	27.0	8.4	49	0.8	12.8	6.0	373	2.06	33.4	4.5	0.6	9	<0.1	1.0	0.2	24	0.04	0.078	3
1373274	Soil Pulp	2.3	16.0	9.1	31	0.6	11.7	2.2	41	1.80	28.9	3.2	1.2	12	<0.1	1.0	0.1	21	0.06	0.061	3

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Report Date: October 01, 2011

CERTIFICATE OF ANALYSIS VAN11004550.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1180832	Silt	7	0.08	456	<0.001	<1	0.49	0.006	0.03	<0.1	0.20	2.5	0.1	<0.05	1	0.8	<0.2
1180833	Silt	14	0.21	986	<0.001	<1	1.03	0.010	0.06	<0.1	0.28	4.0	0.3	0.07	3	1.7	<0.2
1180834	Silt	13	0.21	884	0.001	1	0.68	0.004	0.04	<0.1	0.17	2.8	<0.1	<0.05	2	1.3	<0.2
1180835	Silt	16	0.21	782	<0.001	2	0.86	0.006	0.05	<0.1	0.18	3.1	0.2	<0.05	2	2.0	<0.2
1180836	Silt	17	0.21	1153	0.001	2	0.93	0.008	0.06	<0.1	0.38	4.0	0.2	0.09	2	2.5	<0.2
1180839	Silt	16	0.34	274	0.003	2	1.15	0.009	0.08	0.1	0.24	3.6	0.2	0.07	3	1.2	<0.2
1181372	Silt	13	0.18	548	0.002	3	1.79	0.015	0.07	0.1	0.26	2.6	0.2	0.10	3	3.6	<0.2
1181373	Silt	15	0.13	828	<0.001	2	1.50	0.005	0.06	<0.1	0.19	2.4	0.2	0.15	2	5.0	<0.2
1181374	Silt	10	0.11	581	<0.001	2	0.86	0.005	0.06	<0.1	0.16	3.0	0.2	0.08	2	4.2	<0.2
1181375	Silt	13	0.29	672	0.005	7	0.91	0.011	0.06	<0.1	0.24	2.4	0.2	0.33	2	6.1	<0.2
1181376	Silt	18	0.32	729	0.003	3	1.33	0.010	0.07	0.1	0.23	3.7	0.2	0.13	3	4.0	<0.2
1182519	Silt	15	0.20	686	0.004	1	1.22	0.005	0.06	0.2	0.14	3.4	0.1	<0.05	2	1.7	<0.2
1182520	Silt	11	0.14	367	0.001	3	1.08	0.012	0.05	<0.1	1.19	5.8	0.2	0.15	1	6.0	<0.2
1182521	Silt	18	0.21	941	<0.001	1	1.04	0.007	0.07	<0.1	0.56	4.0	0.1	0.06	3	3.7	<0.2
1182522	Silt	16	0.15	925	0.001	3	2.77	0.004	0.06	<0.1	0.48	4.5	0.7	0.14	2	3.9	<0.2
1182523	Silt	14	0.19	1044	0.001	2	0.90	0.009	0.05	<0.1	0.24	3.2	0.1	<0.05	2	2.4	<0.2
[redacted]																	
1373272	Soil Pulp	5	0.03	125	0.002	<1	0.45	0.004	0.02	0.1	0.03	0.8	<0.1	<0.05	3	0.6	<0.2
1373273	Soil Pulp	10	0.08	469	0.001	1	0.70	0.009	0.06	0.1	0.20	1.6	0.2	<0.05	3	1.2	<0.2
1373274	Soil Pulp	13	0.16	993	0.002	<1	0.68	0.004	0.04	0.1	0.22	1.4	0.2	<0.05	2	1.4	<0.2

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	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1373275	Soil Pulp	2.9	39.0	9.8	83	0.3	21.3	9.6	321	2.54	28.8	2.9	1.5	10	0.2	1.4	0.1	23	0.03	0.053	4
1373276	Soil Pulp	4.5	26.8	14.1	69	0.4	18.6	6.1	126	2.66	28.6	4.1	1.3	9	<0.1	1.1	0.2	23	0.03	0.059	3
1373277	Soil Pulp	2.7	32.8	12.9	82	0.8	30.1	39.5	1741	2.49	14.9	4.3	0.9	44	0.4	0.6	0.1	23	0.22	0.079	3
1373278	Soil Pulp	2.7	46.2	11.1	104	0.2	28.3	10.1	324	2.66	36.1	3.7	1.8	23	0.3	1.7	0.1	22	0.11	0.065	4
1373279	Soil Pulp	4.0	43.8	12.4	114	0.3	33.3	9.0	334	2.63	20.1	2.2	1.4	21	0.3	0.7	0.2	22	0.10	0.059	3
1373280	Soil Pulp	2.7	36.1	9.7	94	0.3	34.5	7.4	271	2.36	19.0	2.8	1.1	28	0.3	0.9	0.1	19	0.13	0.046	3
1373281	Soil Pulp	3.0	42.2	10.7	91	0.5	25.0	7.6	385	2.62	27.2	3.0	1.0	20	0.1	1.3	0.2	21	0.11	0.053	2
1373282	Soil Pulp	4.1	38.1	9.0	62	<0.1	11.9	3.2	90	3.33	70.1	1.6	1.1	5	<0.1	2.2	0.3	51	<0.01	0.044	4
1373283	Soil Pulp	2.1	55.6	8.9	62	0.8	27.0	3.2	149	1.62	22.2	4.5	0.4	38	0.1	1.7	0.2	22	0.21	0.055	3
1373284	Soil Pulp	3.4	30.0	7.9	60	<0.1	12.4	3.9	127	2.92	26.0	1.1	0.7	8	<0.1	1.4	0.2	31	0.03	0.032	3
1373285	Soil Pulp	3.1	27.0	10.3	58	0.3	13.9	4.9	195	2.70	24.5	2.0	0.7	5	<0.1	1.4	0.2	32	0.01	0.049	3
1373286	Soil Pulp	2.4	28.3	5.0	42	0.1	7.5	2.0	32	2.07	17.5	1.1	0.7	4	<0.1	0.8	0.2	61	<0.01	0.043	3
1373287	Soil Pulp	3.6	47.8	18.6	63	0.1	10.4	3.1	74	4.43	27.1	1.2	0.7	9	<0.1	1.5	0.3	61	<0.01	0.101	3
1373288	Soil Pulp	7.8	58.7	19.8	123	0.5	44.4	19.2	444	4.69	25.5	2.6	2.3	18	0.3	1.5	0.3	29	0.01	0.074	2
1373289	Soil Pulp	0.2	7.3	1.7	5	<0.1	0.9	0.6	27	0.34	0.6	0.5	0.2	5	<0.1	<0.1	<0.1	11	0.04	0.023	<1
1373290	Soil Pulp	2.1	45.0	14.0	59	0.3	15.1	11.2	530	3.17	57.8	1.1	0.7	6	<0.1	2.0	0.3	36	0.01	0.051	3
1373291	Soil Pulp	3.2	61.9	8.5	53	0.3	7.4	3.6	350	5.68	17.2	8.3	0.7	5	<0.1	1.1	0.4	64	0.01	0.081	3
1373292	Soil Pulp	2.8	22.1	10.3	54	0.3	10.2	3.6	162	3.30	17.8	0.6	1.0	7	<0.1	0.9	0.2	53	<0.01	0.044	4
1373293	Soil Pulp	2.7	21.3	9.6	53	0.1	10.7	3.6	121	2.51	25.8	2.8	1.1	6	<0.1	1.4	0.2	35	0.01	0.043	4
1382025	Soil Pulp	1.6	15.9	8.9	59	0.1	14.1	4.3	112	1.80	15.4	0.8	1.2	8	0.2	0.7	0.2	22	0.04	0.048	4
1382026	Soil Pulp	2.1	22.7	11.1	81	0.1	18.8	4.5	73	2.20	16.2	1.9	2.0	9	0.1	1.3	0.2	23	0.02	0.034	4
1382027	Soil Pulp	1.9	16.6	7.3	69	0.2	17.4	3.0	51	1.72	15.2	1.9	1.3	8	<0.1	0.8	0.2	26	0.02	0.030	3
1382028	Soil Pulp	1.5	14.6	7.3	44	1.0	10.1	2.1	37	1.49	12.0	0.9	0.9	10	0.1	0.6	0.1	27	0.02	0.040	4
1382029	Soil Pulp	1.2	17.8	5.5	17	0.9	8.5	1.3	9	0.60	5.8	1.0	0.2	18	0.2	0.3	0.1	25	0.05	0.033	3
1382030	Soil Pulp	1.6	10.0	5.4	30	0.4	6.1	1.3	20	0.79	8.9	0.7	0.4	5	<0.1	0.6	0.1	32	0.02	0.029	5
1382031	Soil Pulp	1.7	16.9	5.3	37	0.4	6.1	1.4	19	1.08	8.9	<0.5	0.3	7	0.1	0.6	0.1	35	0.01	0.031	3
1382032	Soil Pulp	1.2	13.3	6.1	28	0.2	6.1	1.2	21	0.68	6.6	0.9	0.2	9	0.2	0.4	0.1	21	0.02	0.051	6
1382033	Soil Pulp	0.5	6.7	3.2	15	0.6	3.6	1.0	17	0.50	2.4	<0.5	<0.1	6	<0.1	0.2	<0.1	13	0.02	0.023	2
1382034	Soil Pulp	1.6	13.8	11.1	56	0.5	8.5	2.0	55	1.56	15.2	1.1	0.9	12	0.3	0.9	0.2	31	0.03	0.055	8
1382035	Soil Pulp	0.3	4.2	2.8	11	1.2	2.0	0.9	14	0.45	1.9	<0.5	0.3	11	<0.1	0.1	<0.1	10	0.03	0.019	1

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

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	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1373275	Soil Pulp	13	0.17	1157	0.002	<1	0.75	0.005	0.04	0.1	0.10	2.6	0.1	<0.05	2	1.3	<0.2
1373276	Soil Pulp	14	0.21	624	<0.001	<1	0.95	0.003	0.04	<0.1	0.23	2.2	0.3	<0.05	2	1.7	<0.2
1373277	Soil Pulp	14	0.17	740	<0.001	<1	1.06	0.014	0.06	<0.1	0.26	3.3	0.3	<0.05	3	1.2	<0.2
1373278	Soil Pulp	13	0.18	1469	0.002	<1	0.62	0.004	0.04	<0.1	0.13	2.8	0.1	<0.05	2	1.9	<0.2
1373279	Soil Pulp	15	0.25	570	<0.001	<1	1.03	0.009	0.06	<0.1	0.23	3.5	0.2	<0.05	3	1.2	<0.2
1373280	Soil Pulp	13	0.19	1111	<0.001	<1	0.68	0.005	0.05	<0.1	0.20	3.1	0.1	<0.05	2	1.1	<0.2
1373281	Soil Pulp	15	0.20	890	0.002	2	0.72	0.005	0.05	<0.1	0.16	2.3	<0.1	0.06	2	1.1	<0.2
1373282	Soil Pulp	12	0.03	103	0.005	<1	0.61	0.002	0.03	0.1	0.01	1.3	0.1	<0.05	5	1.0	<0.2
1373283	Soil Pulp	12	0.11	577	0.002	1	0.61	0.011	0.05	<0.1	0.13	2.0	0.1	<0.05	2	0.8	<0.2
1373284	Soil Pulp	10	0.06	104	0.003	<1	0.62	0.005	0.04	<0.1	0.03	1.4	<0.1	<0.05	4	<0.5	<0.2
1373285	Soil Pulp	11	0.08	138	0.003	<1	0.69	0.007	0.04	<0.1	0.06	1.4	0.1	<0.05	3	1.1	<0.2
1373286	Soil Pulp	9	0.02	127	0.002	<1	0.59	0.006	0.04	<0.1	0.03	1.2	<0.1	<0.05	5	0.7	<0.2
1373287	Soil Pulp	15	0.03	306	0.005	1	0.74	0.006	0.04	0.1	0.03	1.4	0.1	<0.05	7	1.3	<0.2
1373288	Soil Pulp	22	0.33	180	0.001	<1	1.40	0.004	0.06	<0.1	0.22	3.9	0.4	0.06	3	2.2	<0.2
1373289	Soil Pulp	2	0.02	50	0.021	<1	0.48	0.021	0.02	<0.1	<0.01	0.1	<0.1	<0.05	2	<0.5	<0.2
1373290	Soil Pulp	16	0.05	178	0.002	<1	0.71	0.006	0.04	0.1	0.04	1.4	<0.1	<0.05	4	0.6	<0.2
1373291	Soil Pulp	39	0.06	163	0.004	1	0.83	0.006	0.04	<0.1	0.03	1.0	0.1	<0.05	10	<0.5	<0.2
1373292	Soil Pulp	19	0.10	190	0.003	1	0.98	0.005	0.04	<0.1	0.02	1.2	<0.1	<0.05	5	0.7	<0.2
1373293	Soil Pulp	11	0.05	136	0.003	<1	0.74	0.005	0.03	0.1	0.03	1.4	0.1	<0.05	3	0.7	<0.2
1382025	Soil Pulp	11	0.12	304	0.003	<1	0.70	0.003	0.03	0.1	0.01	1.2	<0.1	<0.05	3	0.6	<0.2
1382026	Soil Pulp	14	0.12	378	0.001	1	0.61	0.002	0.03	<0.1	0.08	2.0	<0.1	<0.05	2	1.5	<0.2
1382027	Soil Pulp	13	0.10	273	0.002	1	0.73	0.004	0.03	0.1	0.05	1.4	<0.1	<0.05	3	<0.5	<0.2
1382028	Soil Pulp	8	0.05	187	0.003	<1	0.64	0.006	0.04	<0.1	0.03	0.8	<0.1	<0.05	3	0.6	<0.2
1382029	Soil Pulp	9	0.02	985	0.001	1	0.48	0.007	0.04	<0.1	0.04	0.4	<0.1	<0.05	3	0.5	<0.2
1382030	Soil Pulp	7	0.02	216	0.002	1	0.42	0.004	0.03	<0.1	0.01	0.4	<0.1	<0.05	3	<0.5	<0.2
1382031	Soil Pulp	6	0.01	160	0.002	<1	0.44	0.009	0.03	<0.1	0.01	0.3	<0.1	<0.05	3	0.6	<0.2
1382032	Soil Pulp	7	0.03	307	0.002	2	0.55	0.007	0.04	0.1	0.03	0.3	<0.1	<0.05	2	<0.5	<0.2
1382033	Soil Pulp	4	0.02	165	0.004	<1	0.31	0.016	0.03	<0.1	0.05	0.3	<0.1	<0.05	2	<0.5	<0.2
1382034	Soil Pulp	10	0.06	306	0.005	1	0.56	0.005	0.05	0.2	0.03	0.7	<0.1	<0.05	4	0.6	<0.2
1382035	Soil Pulp	2	0.01	55	0.013	<1	0.40	0.018	0.02	<0.1	0.04	0.2	<0.1	<0.05	2	<0.5	<0.2

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CERTIFICATE OF ANALYSIS VAN11004550.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1382036	Soil Pulp	0.3	6.7	2.7	23	0.1	2.8	0.7	76	0.32	2.2	0.5	<0.1	8	<0.1	0.3	<0.1	8	0.09	0.073	<1
1382037	Soil Pulp	2.5	14.4	9.2	86	0.2	16.4	3.9	50	1.90	17.1	1.5	1.3	23	0.2	1.3	0.2	24	0.08	0.048	4
1382038	Soil Pulp	3.0	28.1	11.4	122	0.3	24.5	5.5	90	2.59	23.3	2.6	2.1	25	0.4	1.9	0.2	27	0.08	0.057	5
1382039	Soil Pulp	1.5	9.5	6.2	36	0.4	7.2	2.2	46	1.13	10.1	<0.5	<0.1	5	<0.1	0.5	0.2	31	0.01	0.049	5
1382040	Soil Pulp	1.8	10.6	3.9	43	<0.1	7.0	1.6	23	0.79	12.3	0.5	0.3	6	0.2	0.8	0.1	27	0.02	0.019	3
1382041	Soil Pulp	2.4	17.8	13.0	74	0.2	18.9	6.0	260	2.83	17.9	0.7	1.0	5	0.2	0.9	0.2	35	0.02	0.091	4
1382042	Soil Pulp	1.9	7.6	9.1	37	0.2	8.7	3.3	135	2.21	12.6	0.9	1.0	5	<0.1	0.5	0.2	35	0.02	0.034	6
1382043	Soil Pulp	1.9	9.2	7.0	28	0.2	5.1	1.8	81	1.38	12.3	<0.5	0.4	6	<0.1	0.5	0.2	31	0.03	0.033	6
1382044	Soil Pulp	2.1	15.5	5.6	39	0.2	8.9	2.8	59	1.88	15.2	1.0	0.7	3	0.1	0.5	0.2	28	0.01	0.022	2
1382045	Soil Pulp	1.6	10.0	7.2	28	0.2	6.0	2.1	76	1.46	11.5	0.7	0.4	6	<0.1	0.4	0.2	34	0.03	0.039	6
1382046	Soil Pulp	1.1	35.9	9.5	315	1.2	64.4	11.3	365	2.16	11.1	5.1	1.7	115	6.8	0.5	0.2	22	0.99	0.092	6
1382047	Soil Pulp	1.9	24.1	11.6	463	1.2	55.7	15.1	547	2.94	16.1	4.6	2.9	39	4.1	0.5	0.2	33	0.36	0.090	8
1382048	Soil Pulp	1.9	26.5	7.3	69	0.8	24.5	5.5	215	1.64	12.7	4.2	1.2	55	0.3	0.5	0.2	14	0.79	0.085	5
1382049	Soil Pulp	1.1	21.7	3.6	31	0.9	15.4	2.9	164	0.84	5.2	2.5	0.5	59	0.6	0.4	0.1	8	0.92	0.074	5
1382050	Soil Pulp	1.3	24.4	4.0	49	0.6	16.6	5.5	818	0.97	4.6	1.4	0.7	77	1.1	0.6	0.1	13	1.60	0.078	9
1382433	Soil Pulp	1.8	20.3	15.6	68	<0.1	35.1	10.1	180	3.42	12.9	0.5	2.6	3	0.2	0.3	0.3	16	0.06	0.048	2
1382434	Soil Pulp	2.5	12.1	10.2	59	0.1	13.1	4.4	140	2.05	14.0	1.5	1.1	8	0.2	0.6	0.2	29	0.06	0.050	5
1382435	Soil Pulp	1.7	11.3	16.1	75	0.2	15.4	6.8	204	3.19	10.3	<0.5	1.4	4	0.2	0.5	0.3	25	0.02	0.061	2
1382436	Soil Pulp	0.7	16.9	3.0	26	0.1	12.2	2.4	373	0.80	2.7	0.6	0.3	61	0.1	0.2	<0.1	7	1.05	0.075	3
1382437	Soil Pulp	1.6	24.2	9.9	71	0.1	28.0	8.6	276	2.25	9.4	1.1	1.9	80	0.4	0.5	0.2	17	1.39	0.062	4
1382438	Soil Pulp	1.6	28.1	7.0	99	0.3	24.2	6.2	587	1.92	10.2	1.3	1.2	65	0.4	0.5	0.2	18	0.91	0.092	5
1382439	Soil Pulp	0.7	17.6	2.9	33	0.2	10.0	2.4	146	0.82	4.0	1.4	0.4	54	0.1	0.3	<0.1	12	0.58	0.076	3
1382440	Soil Pulp	0.5	29.9	2.5	21	0.2	12.3	1.3	113	0.58	2.3	2.4	0.3	48	0.1	0.2	<0.1	9	0.51	0.061	3
1382441	Soil Pulp	2.9	8.6	5.0	24	<0.1	6.2	1.8	36	0.73	6.3	0.8	1.1	16	0.2	0.3	0.1	14	0.08	0.023	5
1382442	Soil Pulp	0.9	11.3	4.0	34	0.4	9.3	3.0	181	0.79	3.2	0.5	0.4	54	0.3	0.2	<0.1	10	1.13	0.071	2
1382443	Soil Pulp	1.2	7.5	4.5	27	0.1	9.0	2.8	87	0.85	3.1	<0.5	0.4	26	0.1	0.2	<0.1	9	0.45	0.034	2
1382444	Soil Pulp	1.1	35.1	4.3	62	0.5	34.9	3.2	240	1.19	4.5	2.0	0.6	123	0.5	0.5	0.2	14	1.50	0.109	5
1382445	Soil Pulp	0.9	8.2	4.9	32	0.4	9.3	2.6	165	0.74	5.1	1.6	0.4	22	0.1	0.3	<0.1	13	0.24	0.046	2
1382446	Soil Pulp	1.3	13.2	5.5	39	0.2	9.1	3.3	96	1.20	9.7	<0.5	0.4	7	0.1	0.5	0.1	17	0.04	0.035	4
1382447	Soil Pulp	0.4	3.2	1.5	10	<0.1	1.9	1.0	24	0.36	0.6	<0.5	<0.1	10	0.1	<0.1	<0.1	7	0.16	0.029	1

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	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1382036	Soil Pulp	3	0.02	87	0.003	<1	0.15	0.014	0.03	<0.1	0.11	<0.1	<0.1	0.09	<1	<0.5	<0.2
1382037	Soil Pulp	12	0.13	741	0.002	<1	0.74	0.004	0.05	<0.1	0.09	1.7	0.1	<0.05	2	1.1	<0.2
1382038	Soil Pulp	15	0.18	1103	0.002	<1	0.77	0.006	0.06	<0.1	0.09	2.9	0.1	<0.05	2	1.7	<0.2
1382039	Soil Pulp	7	0.04	93	0.004	<1	0.57	0.006	0.04	<0.1	0.02	0.3	0.1	<0.05	4	<0.5	<0.2
1382040	Soil Pulp	4	0.02	87	0.003	2	0.36	0.005	0.04	0.1	0.01	0.5	<0.1	<0.05	2	0.6	<0.2
1382041	Soil Pulp	19	0.16	98	0.003	<1	0.93	0.005	0.04	0.2	0.03	1.4	0.1	<0.05	4	<0.5	<0.2
1382042	Soil Pulp	13	0.13	107	0.006	<1	0.97	0.006	0.04	0.1	0.03	0.8	0.1	<0.05	4	<0.5	<0.2
1382043	Soil Pulp	7	0.05	76	0.009	<1	0.78	0.008	0.03	0.2	0.02	0.5	0.1	<0.05	4	<0.5	<0.2
1382044	Soil Pulp	8	0.03	65	0.004	<1	0.58	0.009	0.04	0.1	0.01	0.9	<0.1	<0.05	4	<0.5	<0.2
1382045	Soil Pulp	10	0.07	121	0.005	<1	0.94	0.005	0.04	0.1	0.01	0.5	0.1	<0.05	5	<0.5	<0.2
1382046	Soil Pulp	17	0.28	510	0.003	4	1.19	0.010	0.07	0.1	0.25	3.3	0.2	0.34	3	6.1	<0.2
1382047	Soil Pulp	23	0.32	756	0.003	2	1.74	0.011	0.07	0.3	0.25	4.4	0.3	0.06	4	3.3	<0.2
1382048	Soil Pulp	10	0.17	751	0.004	2	1.16	0.019	0.07	0.1	0.20	2.5	0.2	0.09	3	2.1	<0.2
1382049	Soil Pulp	6	0.11	478	0.005	3	0.72	0.021	0.04	<0.1	0.19	1.4	0.1	0.08	2	1.7	<0.2
1382050	Soil Pulp	9	0.19	766	0.018	3	0.84	0.019	0.04	0.3	0.16	1.2	0.1	0.13	2	3.4	<0.2
1382433	Soil Pulp	22	0.52	87	0.002	2	1.49	0.002	0.06	<0.1	0.04	2.7	0.1	<0.05	4	<0.5	<0.2
1382434	Soil Pulp	12	0.20	115	0.004	1	0.93	0.003	0.05	0.1	0.01	1.3	0.1	<0.05	4	0.6	<0.2
1382435	Soil Pulp	16	0.25	65	0.002	2	1.32	0.004	0.07	<0.1	0.03	1.9	0.1	<0.05	4	0.7	<0.2
1382436	Soil Pulp	5	0.12	134	0.007	4	0.85	0.026	0.04	<0.1	0.08	0.7	<0.1	0.10	2	2.1	<0.2
1382437	Soil Pulp	16	0.34	308	0.003	4	1.24	0.009	0.07	<0.1	0.15	2.8	0.1	0.09	3	3.4	<0.2
1382438	Soil Pulp	14	0.27	431	0.006	3	1.14	0.014	0.07	0.1	0.13	2.5	0.1	0.06	3	2.0	<0.2
1382439	Soil Pulp	5	0.12	142	0.011	2	0.61	0.027	0.04	<0.1	0.07	0.9	<0.1	<0.05	2	1.9	<0.2
1382440	Soil Pulp	4	0.08	195	0.013	<1	0.67	0.030	0.03	<0.1	0.07	0.9	<0.1	0.06	2	2.6	<0.2
1382441	Soil Pulp	7	0.04	92	0.003	<1	0.40	0.005	0.04	<0.1	0.01	0.7	<0.1	<0.05	2	0.8	<0.2
1382442	Soil Pulp	7	0.15	161	0.006	<1	0.59	0.018	0.03	<0.1	0.09	1.0	<0.1	0.06	2	1.8	<0.2
1382443	Soil Pulp	8	0.16	101	0.006	2	0.53	0.018	0.05	<0.1	0.03	0.9	<0.1	<0.05	2	0.9	<0.2
1382444	Soil Pulp	10	0.27	296	0.008	5	1.02	0.028	0.06	0.8	0.25	2.0	0.2	0.15	2	2.8	<0.2
1382445	Soil Pulp	7	0.10	221	0.005	1	0.58	0.027	0.06	<0.1	0.08	0.9	<0.1	<0.05	2	1.7	<0.2
1382446	Soil Pulp	8	0.07	243	0.004	2	0.76	0.010	0.04	0.1	0.06	0.9	<0.1	<0.05	3	0.6	<0.2
1382447	Soil Pulp	3	0.03	49	0.004	<1	0.35	0.021	0.04	<0.1	0.02	0.4	<0.1	<0.05	1	0.6	<0.2

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		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1382448	Soil Pulp		0.4	4.9	0.8	4	<0.1	1.2	1.0	97	0.25	<0.5	<0.5	<0.1	20	<0.1	<0.1	<0.1	6	0.47	0.027	2
1382449	Soil Pulp		2.5	11.3	7.4	26	0.1	5.1	1.8	45	0.84	8.4	<0.5	0.5	8	0.2	0.3	0.2	18	0.04	0.030	7
1382450	Soil Pulp		1.1	16.4	5.2	16	<0.1	3.3	1.2	61	0.56	3.5	0.5	0.2	11	0.2	0.2	0.1	13	0.03	0.032	6
1382451	Soil Pulp		4.7	16.3	13.2	78	0.1	24.8	11.0	301	3.20	18.1	<0.5	3.2	22	0.1	0.3	0.2	21	0.46	0.089	4
1382452	Soil Pulp		0.8	9.3	5.7	33	0.4	8.9	2.9	139	1.81	7.9	<0.5	0.4	5	<0.1	0.2	0.1	16	0.03	0.054	1
1382453	Soil Pulp		2.2	28.7	9.3	117	0.1	28.9	7.3	198	2.13	13.4	0.5	2.0	15	0.2	0.7	0.2	31	0.10	0.035	7
1382454	Soil Pulp		2.7	16.8	6.6	68	<0.1	15.3	5.0	161	2.00	13.8	<0.5	1.1	10	0.5	0.4	0.2	20	0.16	0.021	2
1382455	Soil Pulp		1.2	19.8	7.7	61	0.7	19.3	6.1	920	1.86	8.0	1.9	1.0	53	0.5	0.3	0.2	18	1.01	0.126	6
1384557	Soil Pulp		1.5	17.5	12.5	34	0.8	7.2	1.8	18	2.05	21.8	2.6	0.5	8	<0.1	0.7	0.3	27	0.01	0.039	1
1384558	Soil Pulp		2.6	36.3	18.5	145	1.7	47.2	13.0	348	4.69	75.9	3.7	1.2	5	0.2	8.5	0.2	18	0.02	0.079	3
1384559	Soil Pulp		0.9	15.9	11.0	31	0.7	16.6	1.4	137	1.52	14.3	0.9	0.5	105	0.5	3.6	0.2	15	0.85	0.042	4
1384560	Soil Pulp		2.4	15.5	3.7	29	0.5	5.0	1.5	21	1.14	28.4	1.4	1.3	8	0.1	2.7	0.2	38	0.03	0.019	7
1384561	Soil Pulp		3.3	20.2	23.5	21	1.5	3.0	0.7	18	3.82	207.4	6.1	1.0	5	<0.1	16.4	0.5	41	0.01	0.064	3
1384562	Soil Pulp		2.5	35.6	7.9	48	0.4	7.7	1.9	46	2.08	26.9	<0.5	0.4	6	<0.1	2.0	0.2	39	<0.01	0.042	5
1384563	Soil Pulp		2.2	36.4	11.8	76	0.4	16.7	4.6	75	3.12	25.0	<0.5	1.1	6	<0.1	1.1	0.3	25	<0.01	0.048	2
1384564	Soil Pulp		4.6	36.1	21.2	103	0.3	23.2	5.6	181	4.19	45.7	1.2	1.3	12	0.2	2.1	0.4	35	0.02	0.112	4
1384565	Soil Pulp		2.8	41.2	19.7	65	0.2	9.5	2.5	47	3.16	44.8	1.1	0.9	15	<0.1	2.2	0.3	37	0.01	0.082	3
1384566	Soil Pulp		2.1	35.8	10.8	87	1.0	26.5	7.5	262	2.39	37.5	3.5	1.1	24	0.3	1.4	0.2	20	0.12	0.067	3
1384567	Soil Pulp		2.2	36.7	11.6	89	1.3	26.0	6.1	326	2.37	40.4	6.4	1.0	35	0.2	1.4	0.2	24	0.20	0.072	3
1384568	Soil Pulp		6.3	21.5	16.3	109	1.4	19.4	3.8	106	3.60	45.3	2.8	2.0	13	0.4	3.6	0.3	106	0.04	0.252	7
1384569	Soil Pulp		2.3	25.9	15.5	74	1.1	19.7	8.6	245	2.54	20.9	4.9	1.1	18	0.1	0.9	0.2	23	0.08	0.069	2
1384570	Soil Pulp		2.5	18.0	9.5	42	0.3	8.3	2.3	70	1.37	17.5	1.0	0.5	7	<0.1	1.0	0.2	27	0.01	0.049	5
1384571	Soil Pulp		2.2	20.6	9.2	91	0.2	16.2	15.4	759	4.35	34.4	1.6	1.3	5	<0.1	1.1	0.3	33	<0.01	0.053	2
1384572	Soil Pulp		1.0	80.3	14.3	78	0.9	33.3	5.4	52	1.36	23.5	8.2	1.3	45	0.2	0.7	0.2	25	0.07	0.044	4
1384573	Soil Pulp		1.3	4.1	0.3	709	0.1	40.1	48.9	1126	>40	2721	<0.5	0.2	2	<0.1	27.0	<0.1	4	0.01	0.070	<1
1384574	Soil Pulp		3.3	40.6	14.9	60	1.0	10.8	2.9	47	4.63	38.5	3.4	1.7	7	<0.1	1.9	0.5	50	<0.01	0.091	4
1384575	Soil Pulp		2.0	24.0	12.2	52	1.6	15.7	2.2	50	1.72	23.2	4.5	0.7	14	<0.1	1.4	0.2	22	0.01	0.053	3
1384741	Soil Pulp		13.4	39.1	13.8	224	3.0	23.5	2.8	57	1.76	10.3	3.2	0.2	103	3.7	6.7	0.2	189	0.08	0.110	9
1384742	Soil Pulp		9.9	35.5	11.7	237	1.7	29.5	3.4	78	1.86	10.0	1.8	0.3	43	5.3	4.6	0.2	129	0.04	0.101	7
1384743	Soil Pulp		11.6	51.0	17.8	285	1.2	37.7	6.3	186	3.19	18.5	4.3	1.0	45	0.6	5.4	0.2	131	0.04	0.161	8

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Project: CCJV
Report Date: October 01, 2011

CERTIFICATE OF ANALYSIS VAN11004550.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1382448	Soil Pulp	1	0.03	68	0.011	1	0.34	0.039	0.02	<0.1	0.01	0.3	<0.1	<0.05	1	0.7	<0.2
1382449	Soil Pulp	7	0.04	126	0.004	<1	0.63	0.005	0.03	0.1	<0.01	0.5	<0.1	<0.05	3	0.7	<0.2
1382450	Soil Pulp	5	0.03	130	0.005	<1	0.70	0.009	0.03	0.4	0.02	0.3	<0.1	<0.05	3	0.8	<0.2
1382451	Soil Pulp	21	0.49	289	0.003	2	1.37	0.006	0.06	<0.1	0.04	3.2	0.1	<0.05	4	1.3	<0.2
1382452	Soil Pulp	10	0.14	75	0.004	<1	0.83	0.011	0.04	<0.1	0.04	1.0	0.1	<0.05	3	0.6	<0.2
1382453	Soil Pulp	17	0.29	243	0.008	2	1.19	0.008	0.05	0.2	0.02	1.6	0.1	<0.05	4	1.6	<0.2
1382454	Soil Pulp	14	0.24	178	0.004	1	0.75	0.008	0.07	<0.1	0.01	1.7	0.1	<0.05	3	0.6	<0.2
1382455	Soil Pulp	13	0.20	705	0.003	2	1.25	0.019	0.06	<0.1	0.19	2.4	0.2	0.08	3	2.7	<0.2
1384557	Soil Pulp	7	0.02	124	<0.001	<1	0.41	0.010	0.04	<0.1	0.18	0.8	<0.1	<0.05	2	3.7	<0.2
1384558	Soil Pulp	11	0.04	131	0.002	<1	0.60	0.006	0.03	<0.1	0.36	3.7	0.2	<0.05	1	2.9	<0.2
1384559	Soil Pulp	6	0.14	420	0.003	2	0.50	0.009	0.05	<0.1	0.12	1.5	<0.1	<0.05	1	1.3	<0.2
1384560	Soil Pulp	6	0.01	136	0.003	<1	0.45	0.006	0.03	0.1	0.03	0.7	<0.1	<0.05	2	1.2	<0.2
1384561	Soil Pulp	14	0.03	155	0.001	2	0.80	0.008	0.06	<0.1	0.34	1.1	0.1	<0.05	4	3.9	<0.2
1384562	Soil Pulp	7	0.02	108	0.005	1	0.49	0.004	0.03	<0.1	0.03	0.9	<0.1	<0.05	4	1.4	<0.2
1384563	Soil Pulp	10	0.04	102	<0.001	<1	0.58	0.005	0.04	<0.1	0.07	2.1	<0.1	<0.05	3	2.7	<0.2
1384564	Soil Pulp	16	0.09	164	0.003	<1	0.80	0.004	0.05	<0.1	0.03	2.7	0.2	<0.05	4	2.9	<0.2
1384565	Soil Pulp	10	0.02	160	0.002	<1	0.45	0.004	0.04	<0.1	0.03	1.6	0.1	<0.05	4	2.6	<0.2
1384566	Soil Pulp	16	0.14	526	0.001	<1	0.80	0.009	0.06	<0.1	0.35	2.9	0.1	<0.05	2	2.6	<0.2
1384567	Soil Pulp	17	0.17	790	<0.001	2	0.89	0.009	0.06	<0.1	0.32	3.2	0.1	<0.05	3	1.7	<0.2
1384568	Soil Pulp	16	0.09	166	0.007	<1	0.77	0.004	0.06	0.2	0.19	1.3	0.3	<0.05	4	2.0	<0.2
1384569	Soil Pulp	14	0.14	596	<0.001	<1	0.81	0.006	0.05	<0.1	0.27	2.6	0.1	<0.05	2	1.9	<0.2
1384570	Soil Pulp	7	0.04	167	0.002	<1	0.57	0.006	0.04	0.1	0.02	0.8	<0.1	<0.05	3	0.7	<0.2
1384571	Soil Pulp	17	0.06	179	<0.001	1	1.19	0.005	0.04	<0.1	0.02	1.9	0.2	<0.05	4	1.5	<0.2
1384572	Soil Pulp	18	0.14	825	<0.001	2	1.15	0.008	0.07	<0.1	0.32	3.8	0.2	0.09	3	2.8	<0.2
1384573	Soil Pulp	2	<0.01	27	<0.001	<1	0.26	<0.001	<0.01	<0.1	<0.01	0.3	<0.1	0.21	<1	<0.5	<0.2
1384574	Soil Pulp	18	0.05	81	0.002	1	0.56	0.004	0.04	<0.1	0.08	1.5	0.1	<0.05	5	3.5	0.3
1384575	Soil Pulp	11	0.06	193	0.002	1	0.69	0.010	0.04	<0.1	0.25	1.5	0.1	<0.05	2	1.2	<0.2
1384741	Soil Pulp	31	0.05	1244	0.004	3	0.55	0.006	0.14	0.1	0.11	0.4	0.5	0.13	4	8.0	<0.2
1384742	Soil Pulp	21	0.06	485	0.004	3	0.58	0.007	0.12	<0.1	0.06	0.5	0.3	<0.05	3	4.0	<0.2
1384743	Soil Pulp	25	0.21	392	0.003	4	1.03	0.004	0.13	<0.1	0.07	1.3	0.4	<0.05	4	4.4	<0.2

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Project: CCJV
Report Date: October 01, 2011

CERTIFICATE OF ANALYSIS VAN11004550.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1384744	Soil Pulp	39.1	62.1	10.9	458	2.0	47.4	3.1	42	1.75	30.6	2.9	0.3	36	2.7	17.5	0.2	295	0.02	0.063	5
1384745	Soil Pulp	9.1	31.1	15.8	201	1.3	20.4	2.8	64	2.06	13.1	1.3	0.6	31	1.6	3.6	0.3	123	0.02	0.056	9
1384746	Soil Pulp	12.4	45.1	16.6	249	1.5	31.2	4.0	113	2.65	21.9	2.1	1.6	54	0.7	6.1	0.4	196	0.02	0.108	10
1384747	Soil Pulp	7.7	44.6	11.9	212	0.8	29.0	6.1	133	3.02	14.2	2.7	0.3	12	1.4	2.8	0.3	92	<0.01	0.100	5
1384748	Soil Pulp	16.3	59.1	23.0	281	3.3	38.2	5.1	116	2.94	21.1	3.0	1.2	62	0.6	6.5	0.4	140	0.01	0.113	7
1384749	Soil Pulp	14.6	67.3	28.8	228	1.0	38.5	7.8	320	3.29	20.4	3.6	0.4	50	0.8	5.3	0.4	155	0.01	0.104	10
1384750	Soil Pulp	13.0	71.8	29.9	125	0.9	23.0	4.4	223	3.14	29.2	1.9	0.7	53	0.2	3.8	0.4	102	0.02	0.097	9
1384751	Soil Pulp	7.8	33.0	16.4	138	0.2	24.8	4.7	260	3.37	19.1	1.7	1.1	20	0.2	3.4	0.3	134	0.02	0.114	8
1384752	Soil Pulp	4.7	30.5	7.6	66	0.6	13.1	1.8	77	0.84	7.1	4.9	0.3	14	0.4	1.2	0.2	56	0.03	0.072	9
1384753	Soil Pulp	10.0	47.5	13.9	175	1.0	33.8	11.8	832	2.23	15.7	6.6	0.5	34	1.1	3.1	0.3	82	0.11	0.088	9
1384754	Soil Pulp	3.2	41.1	8.6	128	1.1	34.9	6.4	678	1.07	4.6	5.8	0.7	39	2.5	1.1	0.2	44	0.21	0.109	9
1384755	Soil Pulp	8.2	34.4	11.4	154	0.4	30.8	10.2	394	1.82	10.5	5.0	1.6	30	0.5	1.6	0.2	48	0.15	0.071	10
1384756	Soil Pulp	5.0	60.5	10.9	170	0.4	39.6	10.8	590	2.20	12.4	5.4	1.3	39	0.6	1.9	0.3	51	0.20	0.073	11
1384757	Soil Pulp	4.1	31.9	7.7	107	0.4	23.6	5.6	195	1.65	7.6	4.0	0.8	18	0.4	1.3	0.2	43	0.05	0.045	9

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CERTIFICATE OF ANALYSIS VAN11004550.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1384744	Soil Pulp	15	0.08	351	0.003	4	0.60	0.007	0.12	<0.1	0.22	0.7	0.9	0.08	3	5.3	<0.2
1384745	Soil Pulp	18	0.09	236	0.004	3	0.82	0.003	0.12	0.1	0.06	1.0	0.3	<0.05	5	1.8	<0.2
1384746	Soil Pulp	25	0.12	389	0.007	3	0.83	0.003	0.16	0.1	0.04	1.6	0.5	0.11	5	4.8	<0.2
1384747	Soil Pulp	13	0.07	224	0.004	3	0.89	0.004	0.11	<0.1	0.02	0.8	0.2	<0.05	4	1.1	<0.2
1384748	Soil Pulp	19	0.05	282	0.007	2	0.55	0.004	0.10	0.2	0.08	1.6	0.4	0.17	4	6.6	<0.2
1384749	Soil Pulp	20	0.08	237	0.005	3	0.74	0.003	0.10	0.1	0.04	0.8	0.3	0.10	6	3.2	<0.2
1384750	Soil Pulp	20	0.09	229	0.007	2	0.66	0.004	0.08	0.2	0.05	1.0	0.3	0.07	5	2.6	<0.2
1384751	Soil Pulp	21	0.14	123	0.010	1	0.89	0.003	0.05	0.2	0.03	1.3	0.1	<0.05	5	1.4	<0.2
1384752	Soil Pulp	13	0.08	225	0.005	2	0.65	0.003	0.04	0.2	0.16	0.3	0.1	<0.05	3	0.7	<0.2
1384753	Soil Pulp	17	0.18	587	0.006	2	0.82	0.004	0.06	0.2	0.19	1.0	0.2	<0.05	4	1.6	<0.2
1384754	Soil Pulp	15	0.19	835	0.006	1	0.97	0.008	0.05	0.1	0.34	1.3	0.2	<0.05	3	2.3	<0.2
1384755	Soil Pulp	19	0.35	291	0.010	2	0.84	0.004	0.08	0.2	0.09	1.4	0.2	<0.05	4	0.9	<0.2
1384756	Soil Pulp	19	0.34	483	0.008	1	0.88	0.005	0.07	0.2	0.16	1.7	0.2	<0.05	3	0.7	<0.2
1384757	Soil Pulp	14	0.22	280	0.007	2	0.83	0.003	0.06	0.4	0.05	1.1	0.1	<0.05	4	0.7	<0.2

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QUALITY CONTROL REPORT VAN11004550.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
1181376	Silt	1.0	23.7	9.7	409	1.0	62.0	11.6	932	2.40	9.9	4.4	2.3	61	6.3	0.5	0.2	25	0.70	0.092	7
REP 1181376	QC	1.0	24.7	9.8	427	1.0	63.5	12.0	977	2.50	10.4	3.8	2.2	65	6.7	0.4	0.2	28	0.74	0.096	7
1182577	Soil Pulp	4.9	19.2	13.0	66	0.3	11.1	3.1	124	3.71	21.6	0.8	0.6	6	0.2	1.7	0.3	57	<0.01	0.109	4
REP 1182577	QC	4.9	19.5	12.8	69	0.3	10.9	3.0	124	3.69	21.7	0.6	0.6	7	0.2	1.6	0.2	56	<0.01	0.109	4
1373291	Soil Pulp	3.2	61.9	8.5	53	0.3	7.4	3.6	350	5.68	17.2	8.3	0.7	5	<0.1	1.1	0.4	64	0.01	0.081	3
REP 1373291	QC	3.0	62.9	8.6	52	0.3	6.8	3.6	350	5.75	17.3	8.1	0.7	5	<0.1	1.1	0.4	64	0.01	0.078	3
1382032	Soil Pulp	1.2	13.3	6.1	28	0.2	6.1	1.2	21	0.68	6.6	0.9	0.2	9	0.2	0.4	0.1	21	0.02	0.051	6
REP 1382032	QC	1.2	13.9	6.2	30	0.2	6.1	1.3	22	0.70	6.7	0.7	0.2	9	0.2	0.4	0.1	22	0.02	0.050	6
1382435	Soil Pulp	1.7	11.3	16.1	75	0.2	15.4	6.8	204	3.19	10.3	<0.5	1.4	4	0.2	0.5	0.3	25	0.02	0.061	2
REP 1382435	QC	1.6	10.9	15.6	73	0.1	14.9	6.8	196	3.14	9.6	<0.5	1.4	4	<0.1	0.4	0.3	25	0.02	0.058	2
1384565	Soil Pulp	2.8	41.2	19.7	65	0.2	9.5	2.5	47	3.16	44.8	1.1	0.9	15	<0.1	2.2	0.3	37	0.01	0.082	3
REP 1384565	QC	2.6	39.6	19.5	65	0.2	9.5	2.5	48	3.12	43.6	<0.5	0.9	15	<0.1	2.2	0.3	38	0.01	0.081	3
1384742	Soil Pulp	9.9	35.5	11.7	237	1.7	29.5	3.4	78	1.86	10.0	1.8	0.3	43	5.3	4.6	0.2	129	0.04	0.101	7
REP 1384742	QC	10.1	36.5	12.3	242	1.7	29.6	3.6	80	1.92	10.4	1.6	0.4	46	5.6	4.7	0.2	136	0.04	0.108	7
1384751	Soil Pulp	7.8	33.0	16.4	138	0.2	24.8	4.7	260	3.37	19.1	1.7	1.1	20	0.2	3.4	0.3	134	0.02	0.114	8
REP 1384751	QC	8.0	34.7	16.8	139	0.2	25.6	4.7	269	3.47	20.2	2.1	1.1	21	<0.1	3.4	0.3	137	0.02	0.117	8
Reference Materials																					
STD DS8	Standard	11.9	94.7	117.0	279	1.7	32.5	6.5	546	2.22	22.5	115.2	5.9	57	2.1	4.9	5.7	37	0.61	0.074	14
STD DS8	Standard	11.3	118.0	128.7	317	1.8	40.7	7.7	599	2.46	24.5	113.1	5.8	57	2.4	4.9	6.5	40	0.63	0.077	11
STD DS8	Standard	13.1	105.3	122.1	303	1.8	38.1	7.4	592	2.35	23.0	111.6	6.0	61	2.1	5.1	6.0	42	0.66	0.081	15
STD DS8	Standard	13.6	107.8	119.8	301	1.8	36.4	7.5	596	2.38	24.8	117.7	6.3	61	2.3	5.4	6.3	41	0.66	0.080	15
STD DS8	Standard	12.5	112.4	124.2	315	1.8	39.3	7.6	599	2.41	24.3	107.3	6.3	70	2.3	5.2	6.7	37	0.66	0.079	14
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.04	2.4	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

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Client: **Carlin Gold Corporation**
320 - 800 West Pender Street
Vancouver BC V6C 2V6 Canada

Project: CCJV
Report Date: October 01, 2011

QUALITY CONTROL REPORT VAN11004550.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
1181376	Silt	18	0.32	729	0.003	3	1.33	0.010	0.07	0.1	0.23	3.7	0.2	0.13	3	4.0	<0.2
REP 1181376	QC	20	0.33	771	0.004	4	1.43	0.011	0.08	0.2	0.23	3.9	0.2	0.13	3	4.2	<0.2
1182577	Soil Pulp	16	0.08	137	0.006	1	0.80	0.005	0.04	0.2	0.04	1.3	0.2	<0.05	5	1.1	<0.2
REP 1182577	QC	16	0.08	136	0.007	<1	0.82	0.005	0.04	0.2	0.05	1.4	0.2	<0.05	5	1.1	<0.2
1373291	Soil Pulp	39	0.06	163	0.004	1	0.83	0.006	0.04	<0.1	0.03	1.0	0.1	<0.05	10	<0.5	<0.2
REP 1373291	QC	40	0.06	170	0.004	<1	0.83	0.006	0.04	<0.1	0.03	0.9	0.1	<0.05	10	<0.5	<0.2
1382032	Soil Pulp	7	0.03	307	0.002	2	0.55	0.007	0.04	0.1	0.03	0.3	<0.1	<0.05	2	<0.5	<0.2
REP 1382032	QC	7	0.03	297	0.002	2	0.54	0.007	0.04	0.1	0.02	0.4	<0.1	<0.05	2	<0.5	<0.2
1382435	Soil Pulp	16	0.25	65	0.002	2	1.32	0.004	0.07	<0.1	0.03	1.9	0.1	<0.05	4	0.7	<0.2
REP 1382435	QC	15	0.24	66	0.002	1	1.28	0.004	0.07	<0.1	0.03	1.8	0.1	<0.05	4	0.8	<0.2
1384565	Soil Pulp	10	0.02	160	0.002	<1	0.45	0.004	0.04	<0.1	0.03	1.6	0.1	<0.05	4	2.6	<0.2
REP 1384565	QC	10	0.02	163	0.004	1	0.45	0.004	0.05	<0.1	0.02	1.5	<0.1	<0.05	4	2.3	<0.2
1384742	Soil Pulp	21	0.06	485	0.004	3	0.58	0.007	0.12	<0.1	0.06	0.5	0.3	<0.05	3	4.0	<0.2
REP 1384742	QC	22	0.06	518	0.004	3	0.60	0.007	0.12	0.1	0.04	0.5	0.3	0.06	3	4.2	<0.2
1384751	Soil Pulp	21	0.14	123	0.010	1	0.89	0.003	0.05	0.2	0.03	1.3	0.1	<0.05	5	1.4	<0.2
REP 1384751	QC	22	0.14	125	0.008	2	0.90	0.003	0.05	0.2	0.02	1.3	0.1	<0.05	5	1.5	<0.2
Reference Materials																	
STD DS8	Standard	104	0.57	258	0.100	2	0.84	0.097	0.38	2.8	0.17	2.0	5.2	0.09	4	4.6	4.5
STD DS8	Standard	119	0.60	230	0.102	2	0.85	0.074	0.39	2.8	0.20	2.4	5.4	0.12	4	4.9	4.7
STD DS8	Standard	114	0.60	267	0.114	2	0.92	0.094	0.40	2.8	0.19	2.1	5.2	0.16	5	5.0	4.8
STD DS8	Standard	118	0.61	285	0.118	2	0.91	0.091	0.41	3.0	0.19	2.0	5.3	0.18	5	5.2	5.0
STD DS8	Standard	112	0.61	275	0.108	3	0.96	0.100	0.43	2.7	0.21	2.7	5.3	0.13	5	5.3	5.1
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **Carlin Gold Corporation**
320 - 800 West Pender Street
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Submitted By: K. Wayne Livingstone
Receiving Lab: Canada-Whitehorse
Received: July 21, 2011
Report Date: September 19, 2011
Page: 1 of 4

CERTIFICATE OF ANALYSIS WHI11000690.1

CLIENT JOB INFORMATION

Project: CCJV
Shipment ID:
P.O. Number RG-02
Number of Samples: 63

SAMPLE DISPOSAL

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

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	49	Crush, split and pulverize 250 g rock to 200 mesh			WHI
3B	49	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX	49	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Carlin Gold Corporation
320 - 800 West Pender Street
Vancouver BC V6C 2V6
Canada

CC: Liz Cornejo
Bob Thomas
J. Garfield MacVeigh
Darwin Green

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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

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320 - 800 West Pender Street
Vancouver BC V6C 2V6 Canada

Project: CCJV
Report Date: September 19, 2011

CERTIFICATE OF ANALYSIS WHI11000690.1

Method		WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
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54733	Rock	1.94	<2	2.2	7.6	5.5	23	<0.1	11.4	4.2	583	1.73	6.3	<0.5	3.7	136	0.1	0.1	<0.1	7	4.06
54734	Rock	1.49	5	1.3	29.3	6.9	29	0.1	15.9	2.1	79	3.36	4.6	3.4	1.6	19	<0.1	0.6	0.1	36	0.03
54735	Rock	1.79	11	0.6	13.6	8.0	8	0.7	2.4	0.4	104	1.65	18.6	7.7	0.3	43	<0.1	2.1	<0.1	7	0.03
54736	Rock	1.55	7	1.0	14.7	17.4	31	0.2	10.1	1.3	112	1.65	5.7	5.8	0.5	77	<0.1	0.9	<0.1	12	0.11
54737	Rock	1.85	18	1.8	19.0	10.0	17	0.2	13.4	2.4	76	2.70	43.2	7.7	0.6	13	<0.1	3.1	0.1	10	<0.01
54738	Rock	1.77	<2	2.2	8.8	8.3	23	<0.1	12.8	4.3	382	1.53	9.7	<0.5	4.0	133	0.1	0.1	0.1	6	3.77
54739	Rock	2.05	<2	0.5	6.5	6.1	23	<0.1	10.0	3.7	744	2.08	3.6	0.7	3.4	198	<0.1	0.1	<0.1	9	14.70
54740	Rock	2.99	<2	1.8	8.4	8.8	28	<0.1	14.8	4.6	463	1.74	4.3	1.1	3.3	147	0.1	0.1	<0.1	8	11.34
54741	Rock	1.80	<2	0.3	2.3	1.1	9	<0.1	3.6	1.2	614	0.73	0.9	0.9	0.6	1153	<0.1	<0.1	<0.1	3	24.25
54742	Rock	2.06	10	1.6	12.9	10.2	18	0.4	9.5	2.0	77	1.13	27.0	3.7	0.7	24	<0.1	0.9	0.1	9	0.09
54743	Rock	1.73	<2	4.3	9.5	8.6	20	<0.1	11.8	4.7	378	2.47	10.7	0.6	4.8	146	<0.1	<0.1	<0.1	10	9.43
54744	Rock	1.74	<2	1.4	10.5	10.7	33	<0.1	14.7	4.8	383	1.45	5.7	<0.5	3.8	198	0.1	0.1	<0.1	8	11.55
54745	Rock	1.72	<2	0.4	16.7	12.8	53	<0.1	23.6	9.1	318	2.28	5.8	<0.5	4.9	74	0.1	<0.1	0.2	17	5.69
54927	Rock	2.70	<2	1.8	5.0	8.2	34	<0.1	11.9	4.1	1031	2.68	19.9	<0.5	2.5	98	0.1	0.2	<0.1	4	6.21
54928	Rock	2.28	<2	0.3	54.3	12.1	63	<0.1	10.5	6.2	712	0.83	2.4	0.8	0.6	39	<0.1	0.1	0.2	8	0.07
54929	Rock	3.12	4	0.9	90.2	10.9	117	0.6	29.6	5.9	525	2.42	6.1	2.5	0.5	20	<0.1	0.3	0.1	15	0.02

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Project: CCJV
Report Date: September 19, 2011

CERTIFICATE OF ANALYSIS WHI11000690.1

Method		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2
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54733	Rock	0.177	5	6	0.44	106	0.003	<20	0.44	0.031	0.09	<0.1	0.09	<0.1	0.17	2.8	<0.5	<1	<0.2
54734	Rock	0.046	<1	55	0.70	310	0.002	<20	1.30	0.004	0.12	<0.1	0.06	<0.1	0.30	2.6	0.8	4	<0.2
54735	Rock	0.060	<1	7	0.02	710	<0.001	<20	0.15	0.003	0.09	<0.1	0.12	0.1	0.15	0.5	1.5	<1	<0.2
54736	Rock	0.072	1	9	0.14	378	<0.001	<20	0.41	0.004	0.08	<0.1	0.21	<0.1	0.26	1.4	0.6	2	<0.2
54737	Rock	0.014	<1	10	0.03	26	<0.001	<20	0.31	0.005	0.11	<0.1	0.17	0.2	1.60	1.5	6.8	<1	<0.2
54738	Rock	0.263	5	4	0.61	158	0.002	<20	0.28	0.021	0.09	<0.1	0.13	0.2	0.41	2.8	<0.5	<1	<0.2
54739	Rock	0.155	8	7	2.72	330	0.003	<20	0.40	0.018	0.15	<0.1	0.05	<0.1	0.37	2.4	<0.5	1	<0.2
54740	Rock	0.077	5	8	0.87	55	0.004	<20	0.48	0.015	0.14	<0.1	0.06	0.1	0.70	2.7	<0.5	1	<0.2
54741	Rock	0.058	3	3	0.19	24	<0.001	<20	0.16	0.002	0.04	<0.1	0.02	<0.1	<0.05	4.0	<0.5	<1	<0.2
54742	Rock	0.020	<1	12	0.03	228	<0.001	<20	0.29	0.004	0.12	<0.1	0.24	<0.1	0.38	1.7	1.2	<1	<0.2
54743	Rock	0.195	6	11	0.91	70	0.003	<20	0.57	0.020	0.15	<0.1	0.14	<0.1	1.52	3.0	<0.5	2	<0.2
54744	Rock	0.133	9	9	0.76	304	0.003	<20	0.63	0.013	0.15	<0.1	0.02	<0.1	0.31	2.7	<0.5	2	<0.2
54745	Rock	0.082	5	20	1.31	116	0.005	<20	1.20	0.018	0.28	<0.1	0.02	<0.1	0.41	4.3	<0.5	4	<0.2
54927	Rock	0.131	4	4	0.30	591	0.001	<20	0.26	0.025	0.09	<0.1	0.05	<0.1	0.13	2.9	<0.5	<1	<0.2
54928	Rock	0.024	<1	7	0.05	938	<0.001	<20	0.34	0.003	0.14	<0.1	0.05	<0.1	<0.05	2.3	<0.5	1	<0.2
54929	Rock	0.036	<1	12	0.10	1526	<0.001	<20	0.49	0.006	0.11	<0.1	0.10	<0.1	0.07	4.2	0.9	2	<0.2

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Project: CCJV
Report Date: September 19, 2011

CERTIFICATE OF ANALYSIS WHI11000690.1

	Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
54930	Rock	2.54	<2	1.2	32.3	7.2	48	0.2	20.8	2.9	132	2.01	4.6	0.7	1.5	22	<0.1	0.2	0.3	18	0.02
54931	Rock	2.82	4	0.1	143.5	11.5	42	<0.1	18.0	5.3	35	1.73	1.7	2.4	1.3	24	<0.1	0.3	0.2	16	0.03
54932	Rock	3.10	4	0.2	35.6	12.2	83	<0.1	28.8	7.7	203	3.77	24.8	3.8	0.3	73	<0.1	0.4	0.1	11	0.20
54933	Rock	1.86	<2	2.8	16.2	11.2	65	<0.1	26.7	10.3	850	2.71	26.0	<0.5	3.4	82	0.1	<0.1	0.1	8	3.29
54934	Rock	3.11	<2	2.1	5.2	1.5	9	<0.1	3.9	1.5	773	0.83	3.7	2.0	0.9	816	<0.1	0.1	<0.1	5	31.34
54935	Rock	3.72	<2	0.4	9.8	9.8	45	<0.1	12.6	6.1	512	2.31	3.9	0.5	3.4	141	0.1	<0.1	<0.1	8	8.25
54936	Rock	2.55	<2	0.8	12.9	10.5	48	<0.1	22.6	9.2	510	2.48	6.0	<0.5	3.4	132	<0.1	<0.1	0.1	16	8.47
54937	Rock	3.12	2	1.9	20.0	23.8	73	0.1	41.0	12.5	408	3.50	11.7	<0.5	4.7	89	0.2	0.1	0.2	21	4.32
54938	Rock	2.65	3	1.6	19.0	13.6	65	<0.1	27.4	10.3	405	2.75	8.1	1.0	4.3	106	0.1	0.1	0.2	20	3.38
54939	Rock	3.47	<2	0.7	7.5	6.6	27	<0.1	11.7	5.1	843	1.84	3.7	<0.5	3.1	232	0.2	0.2	<0.1	9	13.86
54940	Rock	3.45	<2	0.2	6.1	6.9	23	<0.1	9.1	4.3	456	1.46	4.5	1.2	2.8	179	0.1	<0.1	<0.1	8	10.12
54941	Rock	1.46	6	0.5	14.1	19.6	91	0.1	24.6	10.6	653	7.38	5.3	<0.5	3.4	135	<0.1	0.2	0.2	66	2.87
54942	Rock	2.19	5	0.2	16.3	8.7	58	<0.1	22.2	7.6	348	2.32	4.7	<0.5	5.2	101	<0.1	<0.1	0.2	13	7.35
54943	Rock	2.61	2	0.9	6.2	4.9	32	<0.1	11.9	3.4	527	1.25	3.3	0.9	2.8	281	0.2	0.1	<0.1	8	16.82
54944	Rock	2.31	4	0.9	9.9	11.9	42	<0.1	19.1	6.7	435	1.98	6.3	1.0	3.8	178	0.2	0.1	<0.1	9	10.91
54945	Rock	2.20	2	0.3	13.8	9.7	58	<0.1	21.0	8.7	398	2.22	6.0	<0.5	5.8	116	0.1	<0.1	0.2	14	7.98
51576	Rock	2.75	<2	4.1	12.8	10.6	56	0.1	23.7	9.2	981	2.60	14.2	1.2	4.9	107	0.2	<0.1	0.2	15	4.19
55177	Rock	2.88	<2	2.2	7.9	5.7	37	<0.1	14.1	5.1	914	1.95	8.4	2.4	3.8	91	<0.1	0.1	<0.1	9	4.20
55178	Rock	3.10	<2	3.3	11.9	9.5	57	<0.1	20.1	8.1	534	2.78	13.2	1.4	4.2	91	0.1	0.1	0.1	14	3.22
55179	Rock	2.79	<2	2.9	9.5	8.1	36	<0.1	14.3	5.9	1122	2.07	9.6	2.0	2.7	191	<0.1	0.1	<0.1	10	5.42
55180	Rock	2.45	<2	5.1	7.2	12.5	18	<0.1	9.7	4.0	557	4.26	13.1	1.2	2.5	84	<0.1	0.1	<0.1	8	2.98
55181	Rock	2.66	3	3.7	7.2	7.0	25	<0.1	10.7	4.5	1105	1.91	10.3	<0.5	3.0	237	<0.1	0.1	<0.1	7	7.74
55182	Rock	2.42	3	6.6	9.5	6.2	42	<0.1	16.8	6.1	1407	2.15	11.8	2.2	3.5	221	0.2	0.2	0.1	13	7.79
55183	Rock	1.76	<2	0.5	17.7	12.2	74	0.2	31.4	11.1	602	3.36	8.8	0.6	4.2	68	0.1	0.1	0.1	21	4.50
55184	Rock	2.62	<2	1.4	9.2	9.7	34	<0.1	15.0	5.6	363	2.05	5.1	2.5	3.1	169	<0.1	0.1	<0.1	4	8.19
55185	Rock	1.02	4	1.7	31.4	35.1	68	0.7	28.0	9.3	176	4.97	11.8	1.3	3.9	34	<0.1	0.6	0.2	38	0.62
55186	Rock	1.38	<2	1.3	13.8	11.6	51	0.1	23.3	7.8	379	2.79	9.9	0.8	4.3	94	0.1	0.2	0.1	16	4.82
55187	Rock	2.06	<2	0.5	11.3	10.6	47	<0.1	20.4	7.9	418	2.49	5.7	1.5	4.2	154	<0.1	0.2	<0.1	12	7.16
55188	Rock	2.64	<2	0.2	18.5	12.9	72	<0.1	25.0	9.7	356	2.24	5.4	1.8	4.9	99	<0.1	0.1	0.1	15	5.76
55189	Rock	2.02	<2	0.4	11.5	9.6	44	<0.1	20.3	7.5	549	2.30	5.5	<0.5	3.9	130	<0.1	0.1	<0.1	14	7.73

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

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320 - 800 West Pender Street
Vancouver BC V6C 2V6 Canada

Project: CCJV
Report Date: September 19, 2011

CERTIFICATE OF ANALYSIS WHI11000690.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2
54930	Rock	0.039	<1	20	0.27	378	<0.001	<20	0.88	0.009	0.23	<0.1	0.14	<0.1	0.38	2.8	0.7	2	<0.2
54931	Rock	0.037	1	21	0.30	853	0.001	<20	0.93	0.005	0.18	<0.1	0.04	<0.1	0.27	3.2	<0.5	3	<0.2
54932	Rock	0.033	<1	11	0.20	354	<0.001	<20	0.36	0.005	0.11	<0.1	0.06	<0.1	0.21	3.6	0.6	1	<0.2
54933	Rock	0.163	4	7	0.84	137	0.001	<20	0.59	0.042	0.21	<0.1	0.09	0.1	0.45	4.7	<0.5	1	<0.2
54934	Rock	0.032	2	2	0.26	179	<0.001	<20	0.07	0.003	0.03	<0.1	0.11	<0.1	0.09	0.9	<0.5	<1	<0.2
54935	Rock	0.070	4	6	1.32	126	0.001	<20	0.37	0.018	0.18	<0.1	0.01	<0.1	0.14	3.4	<0.5	1	<0.2
54936	Rock	0.085	4	18	0.90	81	0.006	<20	1.19	0.016	0.16	<0.1	0.05	<0.1	0.17	4.2	<0.5	3	<0.2
54937	Rock	0.125	5	25	1.06	190	0.006	<20	1.63	0.016	0.24	<0.1	0.07	<0.1	0.46	4.5	<0.5	5	<0.2
54938	Rock	0.143	3	20	0.86	72	0.004	<20	1.37	0.015	0.21	<0.1	0.10	<0.1	0.14	3.7	0.6	4	<0.2
54939	Rock	0.058	4	6	1.45	64	0.001	<20	0.31	0.012	0.14	<0.1	0.03	<0.1	0.27	3.0	<0.5	<1	<0.2
54940	Rock	0.062	4	8	1.01	62	0.003	<20	0.47	0.017	0.11	<0.1	0.01	<0.1	0.13	2.5	<0.5	1	<0.2
54941	Rock	0.660	13	29	1.60	75	0.006	<20	3.15	0.013	0.14	<0.1	0.02	<0.1	1.04	6.6	1.9	8	<0.2
54942	Rock	0.102	5	16	0.89	278	0.004	<20	1.06	0.013	0.23	<0.1	0.02	<0.1	0.09	4.1	<0.5	3	<0.2
54943	Rock	0.056	4	7	0.57	121	0.002	<20	0.42	0.009	0.09	<0.1	0.02	<0.1	0.23	2.4	<0.5	1	<0.2
54944	Rock	0.082	7	11	1.03	98	0.003	<20	0.69	0.014	0.13	<0.1	0.01	<0.1	0.50	3.5	<0.5	2	<0.2
54945	Rock	0.118	7	19	1.40	76	0.004	<20	1.17	0.016	0.27	<0.1	0.02	<0.1	0.39	4.0	<0.5	3	<0.2
51576	Rock	0.130	6	10	0.59	305	0.006	<20	1.02	0.019	0.15	<0.1	0.06	0.1	0.26	4.1	<0.5	3	<0.2
55177	Rock	0.127	4	7	0.34	88	0.001	<20	0.26	0.023	0.09	<0.1	0.06	<0.1	0.14	3.0	0.6	<1	<0.2
55178	Rock	0.121	4	13	0.88	112	0.004	<20	0.73	0.020	0.11	<0.1	0.18	<0.1	0.46	4.5	<0.5	2	<0.2
55179	Rock	0.128	3	10	0.58	141	0.002	<20	0.55	0.016	0.09	<0.1	0.06	<0.1	0.26	2.9	<0.5	2	<0.2
55180	Rock	0.112	3	8	0.27	66	0.002	<20	0.30	0.019	0.07	<0.1	0.05	<0.1	3.00	2.0	2.6	1	<0.2
55181	Rock	0.116	5	7	0.64	69	0.002	<20	0.33	0.018	0.08	<0.1	0.04	<0.1	1.08	3.1	0.6	1	<0.2
55182	Rock	0.093	5	14	0.80	101	0.005	<20	0.74	0.017	0.07	<0.1	0.06	<0.1	0.77	3.4	0.5	2	<0.2
55183	Rock	0.079	4	23	1.00	108	0.003	<20	1.59	0.010	0.13	<0.1	0.06	<0.1	0.11	4.1	<0.5	4	<0.2
55184	Rock	0.050	4	4	0.66	115	<0.001	<20	0.20	0.013	0.11	<0.1	0.06	<0.1	0.44	3.0	<0.5	<1	<0.2
55185	Rock	0.255	5	54	0.77	103	0.003	<20	2.05	0.009	0.15	<0.1	0.15	<0.1	0.17	4.1	2.7	5	<0.2
55186	Rock	0.123	4	19	0.84	61	0.005	<20	1.10	0.013	0.12	<0.1	0.10	<0.1	0.36	3.7	<0.5	3	<0.2
55187	Rock	0.083	4	15	1.40	71	0.003	<20	0.80	0.016	0.13	<0.1	0.03	<0.1	0.55	3.9	<0.5	2	<0.2
55188	Rock	0.109	6	19	1.37	66	0.004	<20	1.19	0.015	0.18	<0.1	0.02	<0.1	0.30	3.9	<0.5	3	<0.2
55189	Rock	0.070	5	16	1.69	85	0.004	<20	0.92	0.013	0.14	<0.1	0.02	<0.1	0.36	3.6	<0.5	2	<0.2

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CERTIFICATE OF ANALYSIS WHI11000690.1

	Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
55190	Rock	1.16	<2	0.7	9.8	12.2	36	<0.1	15.4	6.4	551	2.11	5.2	1.2	3.5	171	<0.1	0.1	<0.1	9	7.35
55191	Rock	2.29	<2	0.8	10.5	8.7	39	<0.1	16.9	7.3	573	2.06	4.9	<0.5	2.9	187	<0.1	0.1	<0.1	9	8.17
55192	Rock	1.72	<2	0.9	12.0	10.2	44	<0.1	18.7	6.5	633	2.34	6.9	1.3	4.0	134	<0.1	0.2	<0.1	13	7.81

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CERTIFICATE OF ANALYSIS WHI11000690.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2
55190	Rock	0.105	5	11	1.03	223	0.003	<20	0.59	0.017	0.12	<0.1	0.05	<0.1	0.15	3.3	<0.5	2	<0.2
55191	Rock	0.072	3	10	0.81	152	0.002	<20	0.62	0.012	0.12	<0.1	0.04	<0.1	0.16	3.5	<0.5	2	<0.2
55192	Rock	0.080	5	16	1.10	101	0.004	<20	0.96	0.011	0.11	<0.1	0.07	<0.1	0.31	3.2	<0.5	2	<0.2

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QUALITY CONTROL REPORT WHI11000690.1

	Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
54736	Rock	1.55	7	1.0	14.7	17.4	31	0.2	10.1	1.3	112	1.65	5.7	5.8	0.5	77	<0.1	0.9	<0.1	12	0.11
REP 54736	QC			0.9	14.8	17.8	32	0.2	10.4	1.3	114	1.66	5.8	7.4	0.5	81	<0.1	0.9	<0.1	12	0.11
54738	Rock	1.77	<2	2.2	8.8	8.3	23	<0.1	12.8	4.3	382	1.53	9.7	<0.5	4.0	133	0.1	0.1	0.1	6	3.77
REP 54738	QC		<2																		
55183	Rock	1.76	<2	0.5	17.7	12.2	74	0.2	31.4	11.1	602	3.36	8.8	0.6	4.2	68	0.1	0.1	0.1	21	4.50
REP 55183	QC		2																		
55184	Rock	2.62	<2	1.4	9.2	9.7	34	<0.1	15.0	5.6	363	2.05	5.1	2.5	3.1	169	<0.1	0.1	<0.1	4	8.19
REP 55184	QC			1.3	8.7	9.1	31	<0.1	14.7	5.5	354	1.95	4.5	0.6	2.9	156	<0.1	0.2	<0.1	4	8.00
Core Reject Duplicates																					
54586	Rock		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
DUP 54586	QC		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
54942	Rock	2.19	5	0.2	16.3	8.7	58	<0.1	22.2	7.6	348	2.32	4.7	<0.5	5.2	101	<0.1	<0.1	0.2	13	7.35
DUP 54942	QC		2	0.2	16.1	8.6	59	<0.1	23.2	7.9	363	2.39	5.1	0.8	5.2	105	<0.1	<0.1	0.2	14	7.51
Reference Materials																					
STD DS8	Standard			12.6	101.3	119.4	297	1.9	35.1	6.9	578	2.39	25.5	102.0	6.3	56	2.2	5.0	5.7	40	0.64
STD DS8	Standard			13.9	114.0	134.5	334	1.9	38.8	7.8	634	2.60	26.2	101.5	7.3	72	2.3	4.6	7.1	45	0.73
STD OREAS45CA	Standard			1.0	467.5	19.3	55	0.3	230.3	84.2	890	15.04	4.2	42.8	6.8	15	0.1	0.1	0.2	201	0.41
STD OREAS45CA	Standard			0.7	529.3	22.2	65	0.3	248.3	92.8	953	16.08	3.4	40.1	7.9	17	<0.1	<0.1	0.2	212	0.43
STD OXC88	Standard		193																		
STD OXC88	Standard		191																		
STD OXC88	Standard		207																		
STD OXH82	Standard		1345																		
STD OXH82	Standard		1324																		
STD OXH82	Standard		1392																		
STD OXC88 Expected			203																		
STD OXH82 Expected			1278																		
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7
STD OREAS45CA Expected				1	494	20	60	0.275	240	92	943	15.69	3.8	43	7	15	0.1	0.13	0.19	215	0.4265

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QUALITY CONTROL REPORT WHI11000690.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2
Pulp Duplicates																			
54736	Rock	0.072	1	9	0.14	378	<0.001	<20	0.41	0.004	0.08	<0.1	0.21	<0.1	0.26	1.4	0.6	2	<0.2
REP 54736	QC	0.070	1	9	0.15	391	<0.001	<20	0.42	0.004	0.09	<0.1	0.19	<0.1	0.26	1.4	<0.5	2	<0.2
54738	Rock	0.263	5	4	0.61	158	0.002	<20	0.28	0.021	0.09	<0.1	0.13	0.2	0.41	2.8	<0.5	<1	<0.2
REP 54738	QC																		
55183	Rock	0.079	4	23	1.00	108	0.003	<20	1.59	0.010	0.13	<0.1	0.06	<0.1	0.11	4.1	<0.5	4	<0.2
REP 55183	QC																		
55184	Rock	0.050	4	4	0.66	115	<0.001	<20	0.20	0.013	0.11	<0.1	0.06	<0.1	0.44	3.0	<0.5	<1	<0.2
REP 55184	QC	0.049	4	4	0.64	109	<0.001	<20	0.19	0.012	0.11	<0.1	0.05	<0.1	0.42	2.8	<0.5	<1	<0.2
Core Reject Duplicates																			
54586	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
DUP 54586	QC	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
54942	Rock	0.102	5	16	0.89	278	0.004	<20	1.06	0.013	0.23	<0.1	0.02	<0.1	0.09	4.1	<0.5	3	<0.2
DUP 54942	QC	0.105	5	17	0.92	273	0.004	<20	1.08	0.013	0.23	<0.1	0.01	<0.1	0.10	4.2	<0.5	3	<0.2
Reference Materials																			
STD DS8	Standard	0.072	12	108	0.58	275	0.099	<20	0.85	0.078	0.37	2.9	0.19	5.1	0.16	1.9	5.1	4	4.6
STD DS8	Standard	0.084	15	119	0.64	305	0.130	<20	0.96	0.087	0.42	2.8	0.21	5.6	0.18	2.1	5.1	5	5.1
STD OREAS45CA	Standard	0.035	15	623	0.13	159	0.109	<20	3.30	0.010	0.06	<0.1	0.03	<0.1	<0.05	33.5	0.7	18	<0.2
STD OREAS45CA	Standard	0.039	17	647	0.16	180	0.144	<20	3.86	0.013	0.08	<0.1	0.02	<0.1	<0.05	37.4	<0.5	21	<0.2
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXH82	Standard																		
STD OXH82	Standard																		
STD OXH82	Standard																		
STD OXC88 Expected																			
STD OXH82 Expected																			
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	5.4	0.1679	2.3	5.23	4.7	5
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	0.07	0.021	39.7	0.5	18.4	

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

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320 - 800 West Pender Street
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Project: CCJV
Report Date: September 19, 2011

QUALITY CONTROL REPORT WHI11000690.1

		WGHT Wgt kg 0.01	3B Au ppb 2	1DX Mo ppm 0.1	1DX Cu ppm 0.1	1DX Pb ppm 0.1	1DX Zn ppm 1	1DX Ag ppm 0.1	1DX Ni ppm 0.1	1DX Co ppm 0.1	1DX Mn ppm 1	1DX Fe % 0.01	1DX As ppm 0.5	1DX Au ppb 0.5	1DX Th ppm 0.1	1DX Sr ppm 1	1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX V ppm 2	1DX Ca % 0.01
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
G1	Prep Blank		3	0.4	4.2	3.3	46	<0.1	8.0	4.3	574	2.05	<0.5	2.6	5.9	73	<0.1	<0.1	<0.1	39	0.54
G1	Prep Blank		<2	0.3	3.8	3.4	47	<0.1	8.6	4.2	549	2.03	<0.5	0.8	5.8	77	<0.1	<0.1	<0.1	38	0.57

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		1DX P % 0.001	1DX La ppm 1	1DX Cr ppm 1	1DX Mg % 0.01	1DX Ba ppm 1	1DX Ti % 0.001	1DX B ppm 20	1DX Al % 0.01	1DX Na % 0.001	1DX K % 0.01	1DX W ppm 0.1	1DX Hg ppm 0.01	1DX Tl ppm 0.1	1DX S % 0.05	1DX Sc ppm 0.1	1DX Se ppm 0.5	1DX Ga ppm 1	1DX Te ppm 0.2
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	0.007	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
Prep Wash																			
G1	Prep Blank	0.083	10	9	0.58	209	0.147	<20	1.01	0.091	0.46	0.1	<0.01	0.3	<0.05	1.9	<0.5	5	<0.2
G1	Prep Blank	0.083	10	8	0.59	218	0.144	<20	1.03	0.088	0.46	<0.1	<0.01	0.3	<0.05	2.0	<0.5	5	<0.2