

**GEOLOGICAL AND GEOCHEMICAL
ASSESSMENT REPORT**

for the

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

on the

OB PROPERTY GROUP HM02889

OB 1-79 YD35301-YD35379 owned by Constantine Metal Resources Ltd.

where work was performed from

July through September, 2011

in the

Mayo Mining District, Yukon
NTS Sheet 106B/04-05

centered at

UTM NAD 83 Zone 9, 362000E 7130300N

April 24th, 2012

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SUMMARY

In November 2010, Constantine Metal Resources Ltd and Carlin Gold Corporation staked the OB 1-79 quartz claims as part of a joint venture (CCJV). For assessment purposes the OB claims (Property) are Group HM 02889.

The property was staked after reviewing regional silt sample (RGS) data, researching the available geological data (mostly from the Yukon Geological Survey – YGS), and researching the YGS MINFILE database. 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. The eastern end of the Nadaleen trend, as currently defined, is located approximately 25 kilometers southwest of the OB property.

The main target on the OB property is Carlin-style mineralization similar to that recently discovered in the nearby Nadaleen trend. The Property is underlain primarily by Upper Proterozoic/Cambrian age sedimentary rocks of various lithologies including shale, sandstone/gritstone, conglomerate, limestone and dolomite. The units have a regional west-northwest strike. The Property is located approximately 70 kilometers northeast of the central northwest-trending core of the Cretaceous Tombstone suite granitic belt that is associated with several of the major gold deposits of the Tintina Gold Belt (Brewery Creek, Dublin Gulch).

An initial stage of reconnaissance geochemical sampling was completed using predominantly contour soil and silt traversing. The survey included collection of 258 soils, 10 silts, and 8 rock chip samples. Field sample 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 and 30 gm AA determination for gold.

The geochemistry of this initial phase of work has outlined a promising gold soil anomaly that is also anomalous in the Carlin-type pathfinder elements arsenic, antimony, mercury and thallium. The anomaly trends west-northwest for 2.4 kilometers across the width of the northern portion of the property. The >30 ppb gold anomaly attains a maximum width of 450 meters and the >100 ppm arsenic anomaly is up to 840 meters in width. The anomaly includes 10 samples containing >100 ppb gold (high of 522 ppb Au), 34 samples containing >100 ppm arsenic (high 1415 ppm As), 14 samples containing ≥11 ppm antimony (high 130 ppm Sb), a high mercury of 0.83 ppm, and a high thallium of 1.6 ppm. A zone of anomalous mercury soil values has been encountered on the south end of the property.

The promising west-northwest trending gold and multielement soil anomaly requires detailed sampling, prospecting and geological mapping in order to define drilling targets. Additional evaluation, including mapping, soil and rock sampling is also required on the mercury soil anomaly at the south end of the Property.

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1. INTRODUCTION

1.1 Location and Access

The OB claims (Property) are located in east-central Yukon centered at UTM NAD83 Zone 9 362000E 7130300N on NTS sheets 106B/04-05. The claims are 210 km east of Mayo and 250 km north of Ross River (Fig. 1).

1.2 Physiography and Vegetation

The Property is located within the Hess Mountains, approximately 6 kilometers southeast of Bonnet Plume Lake. It is located within moderately rugged terrain, with elevations ranging from 1260 to 2060 m. The Property is bisected by a north-south drainage that is part of the Stewart River basin. Highest elevations are characterized by rubblecrop, talus, and abundant outcrop along the ridges. Lower elevations are primarily covered by buckbrush, which grades into alpine tundra vegetation at higher elevations.

1.3 Claim Details

The Property consists of 79 contiguous quartz claims covering an area of 15.8 square kilometers located in the Mayo Mining District, Yukon. Constantine Metal Resources Ltd. (“Constantine”) is the owner on record with the Yukon Mining Recorder. Constantine and Carlin Gold Corporation 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 OB Property

Group HM02889						
Claim Name	Claim No.	Grant No. (to)	Total No.	Expiry Date	NTS Sheet	Registered Owner
OB	1-79	YD35301- YD35379	79	10/11/2016	106B/04, 106B/05	Constantine Metals Resources Ltd. - 100%

1.4 Exploration History

There has been no documented exploration activity on the OB property. The closest MINFILE occurrence is approximately 8 kilometers north of the north property boundary. This occurrence, MINFILE 106B-014, is referred to as the “Andy” showing, and is characterized as a Mississippi Valley-Type lead-zinc occurrence. A drilled prospect, called Birkeland (MINFILE 106B – 024) occurs approximately 12 kilometers south of the south Property boundary. Birkeland is also described as a Mississippi Valley-Type prospect, and contains lead-zinc-silver mineralization. These two MINFILE occurrence locations are shown in Figure 2.

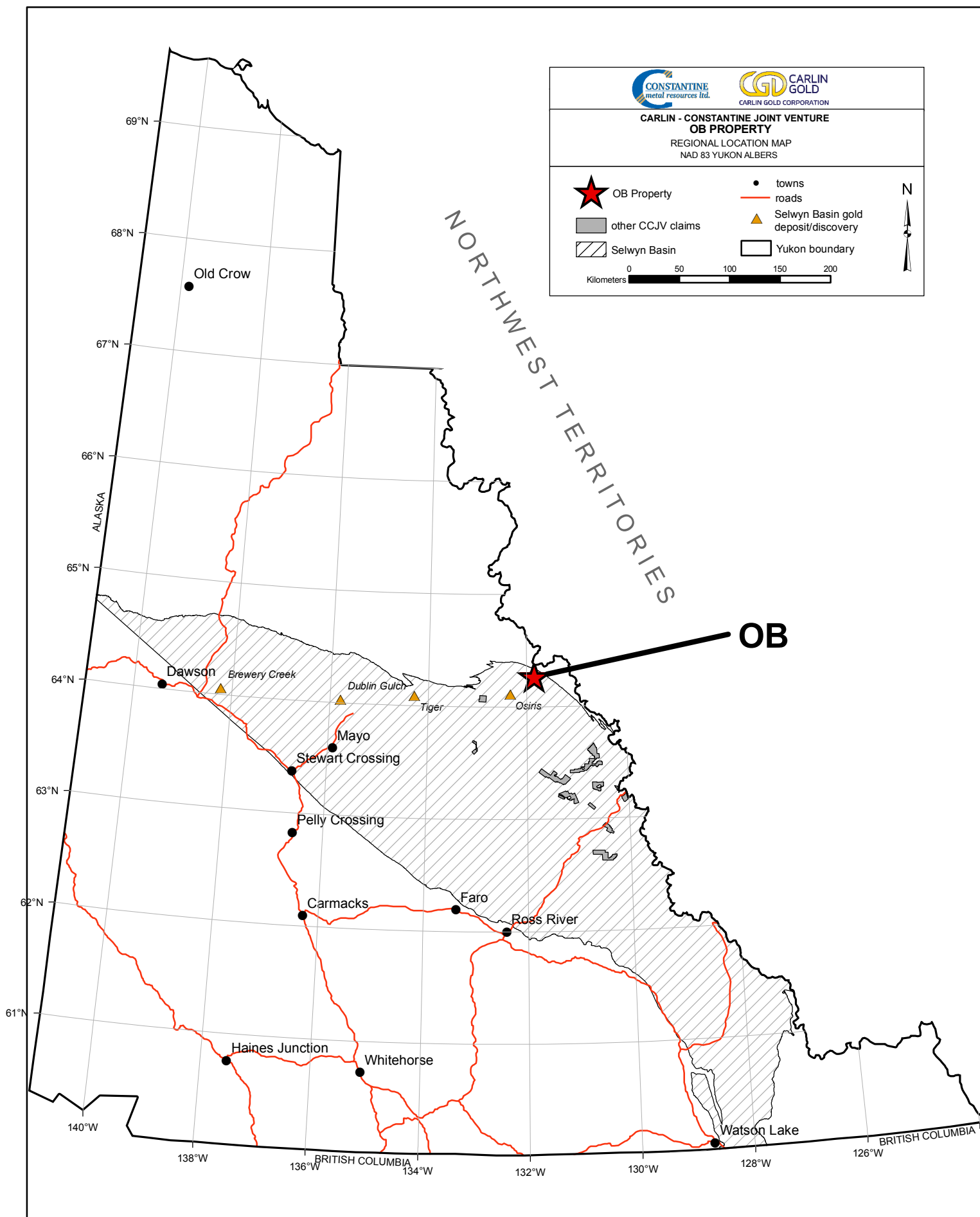


Figure 1. OB Property regional location map.

2. GEOLOGY

2.1 Regional Geology

The Property is located in the northeastern portion of 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 comprises the 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 through Devonian (Gordey and Anderson, 1993) and has undergone folding and faulting subsequent to deposition. Some of the more prominent regional-scale thrust faults that imbricate rocks of the Selwyn Basin include the Robert Service, Dawson, and Tombstone Thrusts.

The Property is located near the Nadaleen trend along the northeast 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. The main west-northwest/east-southeast corridor of the Tombstone intrusion belt in this region passes about 70 kilometers to the southwest of the OB property.

2.2 Property Geology

The only published mapping in the vicinity of the OB property is by Blusson (1974). This work has been compiled by Gordey and Makepeace (2003) into the digital Yukon bedrock geology map, a portion of which is illustrated in Figure 2. Rock units from this work are described in Table 2. Blusson’s work indicates that the Property is underlain by a northwest striking “Grit Unit” described as consisting of “brown, grey, red and green slate, siltstone, feldspathic sandstone and conglomerate, minor grey dolomite and limestone” (Blusson, 1974). Within this material, Blusson (1974) has mapped three 100-400 meter thick lenses of grey and orange weathering dolomite and limestone located on the east side of the Property. Both the Grit Unit and the dolomite/limestone are indicated as Hadrynian in age on the Blusson map, and are assigned to the Upper Proterozoic/Cambrian Hyland Group by Gordey and Makepeace (2003). Units of the Hyland Group are the oldest exposed lithologies of the Selwyn Basin (YGS, 2011).

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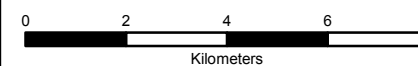
CARLIN-CONSTANTINE JOINT VENTURE
OB PROPERTY
 UTM NAD 83 ZONE 9
 1 : 150 000

GEOLOGIC UNITS¹

- DMs Earn Group Siltstone/Shale
- ODc Dolomite
- OSDr Road River Group Calcareous Shale/Siltstone
- Cs/Cq Sekwi and Backbone Ranges Fm
- Hs Hyland Group clastics ('Grit Unit')
- Hls Dolomite and Limestone

LEGEND

- OB property boundary
- MINFILE occurrence
- faults



¹ Refer to Table 2 for unit descriptions



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Andy

Birkeland

Figure 2. Regional geology map of the OB Property
 (modified from Gordey & Makepeace, 2003).

Table 2. Geologic Units (Blusson, 1974)

Unit	Name	Age	Description
DMS	Besa River Formation (referred to as the Earn Group in Gordey & Makepeace, 2003)	Devonian and Mississippian	Black shale and siltstone, locally pyritic
ODc	Includes the Mount Kindle Formation	Silurian to Upper Ordovician	thick-bedded, dark grey to black and minor light grey weathering dolomite, locally massive vuggy and reefoid (Mt Kindle Fm); light-grey, well bedded dolomite; minor limestone near top
OSDr	Road River Group	Ordovician , Silurian to Lower Devonian	black shale, siltstone, commonly calcareous; minor argillaceous dark limestone
Cs	Sekwi Formation	Lower Cambrian	Limestone, locally wavy bedded and nodular; limestone conglomerate slope breccia; massive grey dolostone; medium to thick-bedded quartz sandstone purple siltstone; bright orange weathering, fine crystalline dolostone
Cq	Backbone Formation	Lower Cambrian	massive quartzite with regionally extensive carbonates; crypto grained, mottled, mauve, pink, thick-bedded, medium to coarse grained orthoquartzite; minor brown or maroon phyllite, platy siltstone, silty shale, thin-bedded fine-grained quartzitic sandstone and brick red to purple shale
Hs	“Grit Unit”	Hadrynian	brown, grey, red and green slate, siltstone, feldspathic sandstone and conglomerate, minor grey dolomite and limestone
Hls	Sub-unit of “Grit Unit”	Hadrynian	grey and orange weathering dolomite and limestone

Limited observations by CCJV geological personnel are consistent with the lithologic descriptions provided above. Additionally, CCJV geologists have observed at least two west-northwest trending granodiorite dikes trending parallel to the regional stratigraphic trend.

2.3 Mineralization Potential

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, 4. key pathfinder elements in regional stream sediments, and 6. proximity to documented occurrences of low-temperature arsenic minerals (realgar and orpiment at the Osiris discovery, 26 kilometers southwest).

At least a portion of the Carlin-style mineralization defined on the Nadaleen trend by ATAC Resources is reported to be hosted in carbonate-bearing lithologies of the Hyland Group (ATAC geologists, personal communication). Similar units occur on the Property.

Only 2 silt samples from the regional stream geochemistry database (RGS data) are located on the Property (Fig. 3). Neither of these samples indicate strongly anomalous levels of Carlin-type pathfinder geochemical values, ie gold, arsenic, mercury, antimony and thallium. Anomalous levels of these elements, however, do occur in RGS samples collected off the Property in nearby areas.

Table 3. RGS Data for the OB property.

SAMPLE NO.	SAMPLE ID	Au (ppb)	As (ppm)	Hg (ppm)	Sb (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Ba (ppm)	U (ppm)	W (ppm)	Zn (ppm)	Tl (ppm)
1183	106B 01 1183	7	24	97	2	15.5	0.4	28.1	59.4	1	0.1	187.6	0.05
1184	106B 01 1184	1	29	102	2.3	26.2	0.4	34.6	26.8	0.7	0.5	133.6	0.05

3. WORK PROGRAM

3.1 Sampling Area

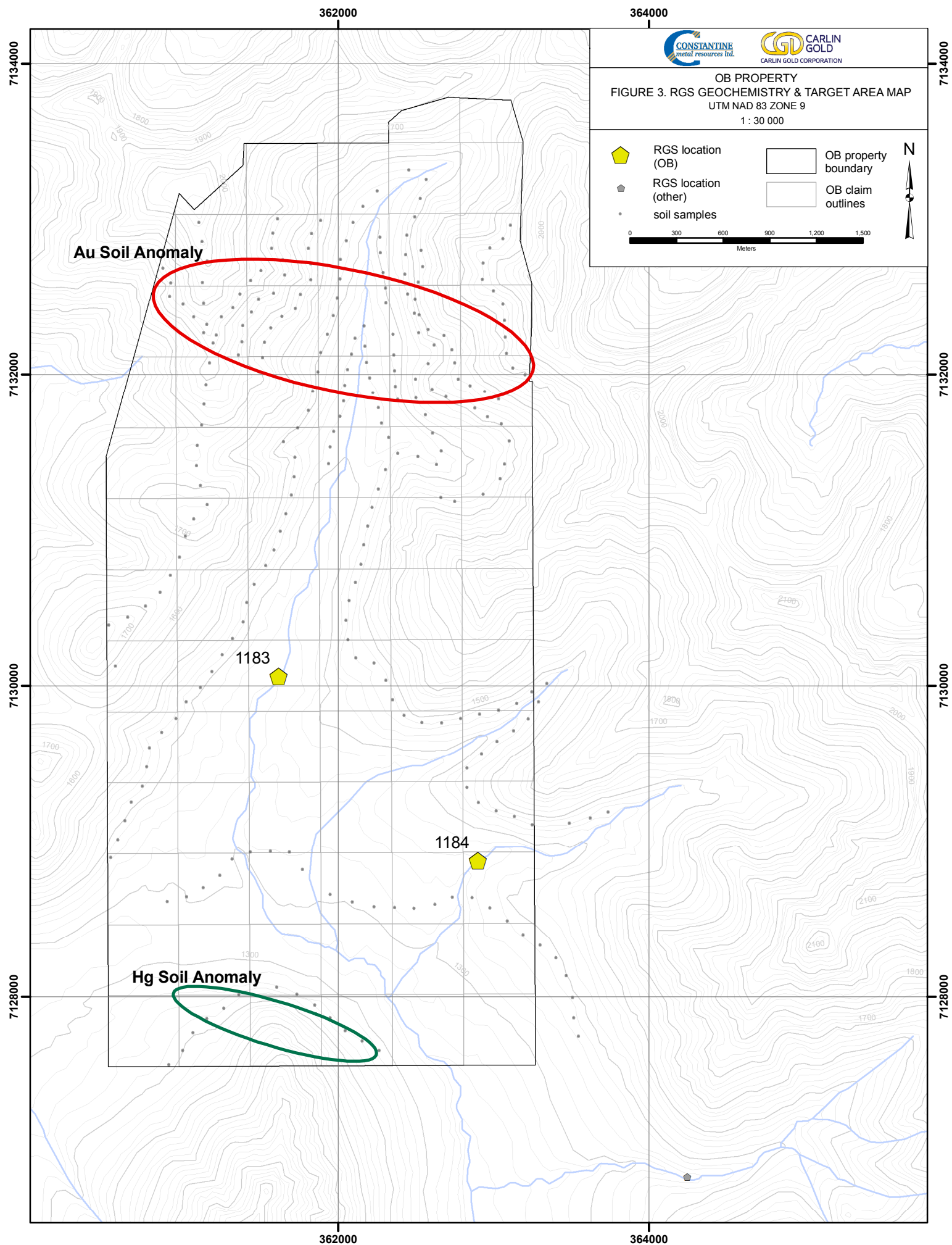
A total of 276 samples were collected on the Property, including 8 rocks, 10 silts, and 258 soils. Contour sampling was the initial sampling approach with nominal sample spacing at 100-125 m. Figure 4 shows the sample locations.

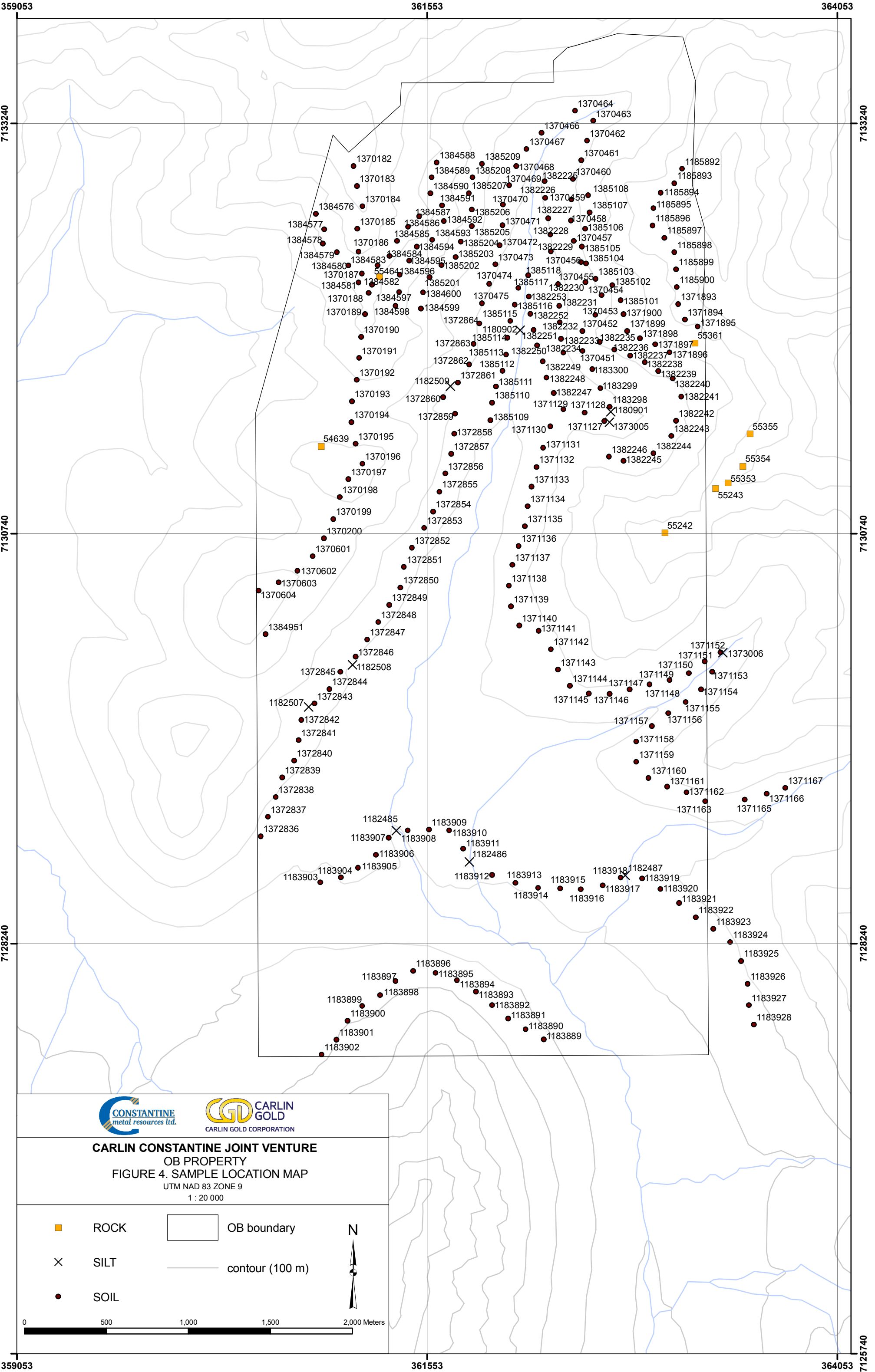
3.2 Sample Preparation and Procedures

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.

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™ 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 Data Management System (Certificate No: 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. This shows a coefficient of determination factor of 0.991 which equates to excellent correlation between both determinations.

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.

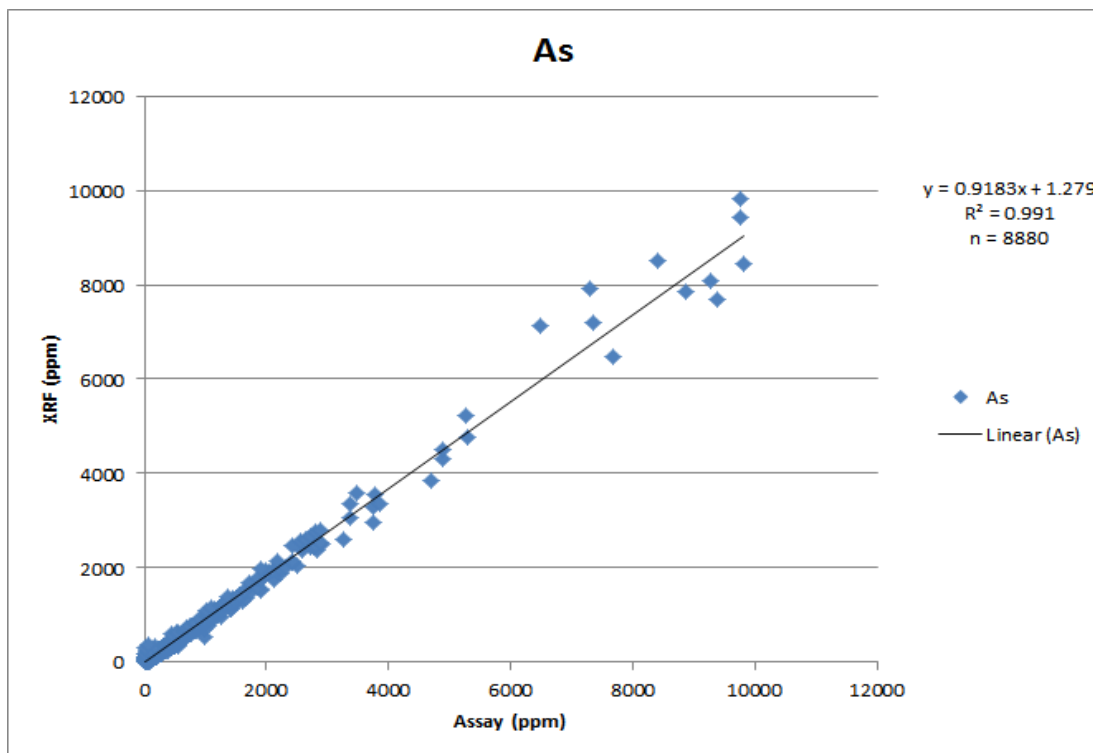


Figure 5 XRF linear regression analysis for Arsenic (based on data for sampling on all CCJV Yukon properties)

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.)

Field Technicians (provided by C.J. Greig & Associates Ltd.)

Brittney Bidlake
 Mairi Greig
 Kei Quinn
 Thomas Sly
 Lukas Jarawka

Pilot

Taylor Morrison, Kluane Helicopters

3.6 Expenditures

Table 4. Table of Expenditures for the OB Property

Statement of Expenditures - OB Property Group

July-September 2011 Reconnaissance Fied Program - Soils, Silts, and Prospecting

LABOUR	UNIT	RATE	TOTAL
Project Manager (R.Thomas/D.Green)	2	600	1,200
Crew Chief (R.Greig)	2	400	800
Geologist/Dbase Manager	4	350	1,400
Sample Crew (CJ Greig and Assoc.)	10	315	3,150
Prospectors		400	-
Sample prep crew and XRF operator	8	315	2,520
Subtotal			9,070
GEOCHEMISTRY			TOTAL
Assay cost (Acme Analytical)			7,080
XRF equipment and prep lab rental and supplies			1,900
Shipping			531
Subtotal			9,511
CAMP COSTS	UNIT	RATE	TOTAL
Room and Board (all-in camp costs per head)*	26	225	5,850
Field Supplies			1,062
Subtotal			6,912
FIELD TRANSPORTATION			TOTAL
Helicopter + Fuel (Kluane Helicopters)			12,150
Fixed Wing (Alkan Air)			3,050
Subtotal			15,200
REPORT WRITING			3,500
TOTAL			44,193

* 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

Regional, publicly available silt sample data (RGS) is available, although only two samples were actually collected within the Property boundary. Since the primary exploration target is a Carlin-type deposit, the pathfinder elements associated with this style of mineralization were of particular interest. These elements include gold, arsenic, mercury, antimony and thallium. Neither of the two RGS samples collected on the Property indicate anomalous levels of Carlin-type pathfinder geochemical values. Anomalous levels of these elements do, however, occur in RGS samples collected off the property in nearby areas.

4.2 Project Geochemical Sampling

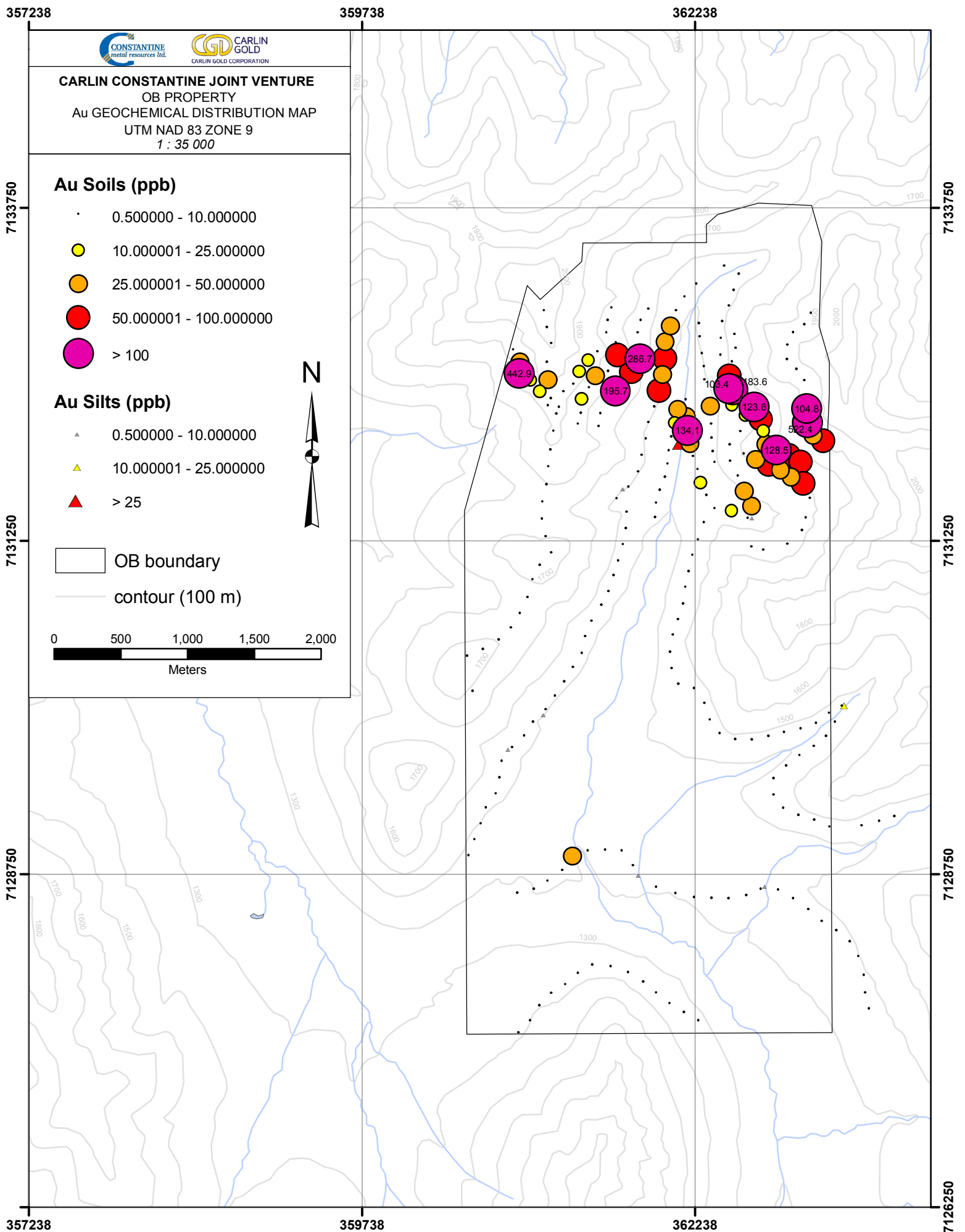
The 2011 field program consisted of geochemical sampling, primarily contoured soil and silt sampling at a nominal 100-125 meter spacing. Sample traverses were laid out to best take advantage of topography, while providing efficient coverage of the existing mapped prospective geological features and Landsat TM anomalies. A total of 276 samples were collected on the Property, including 258 soils, 10 silts, and 8 rocks. Figure 4 shows the sample locations. Nine 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. The soil sampling coverage has delineated a west-northwest trending coincident gold-arsenic-antimony-mercury-thallium zone trending for 2.4 kilometers across the width of the Property (Figure 6 & 7). The >30 ppb gold anomaly attains a maximum width of 450 meters and the >100 ppm arsenic anomaly is up to 840 meters in width. The anomaly includes 10 samples containing >100 ppb gold (high 522 ppb Au), 34 samples containing >100 ppm arsenic (high 1415 ppm As), 14 samples containing ≥11 ppm antimony (high 130 ppm Sb), a high mercury of 0.83 ppm, and a high thallium of 1.6 ppm.

Anomalous mercury soil values have been detected along two traverses in the southern portion of the property. This area is shown in Figure 3.



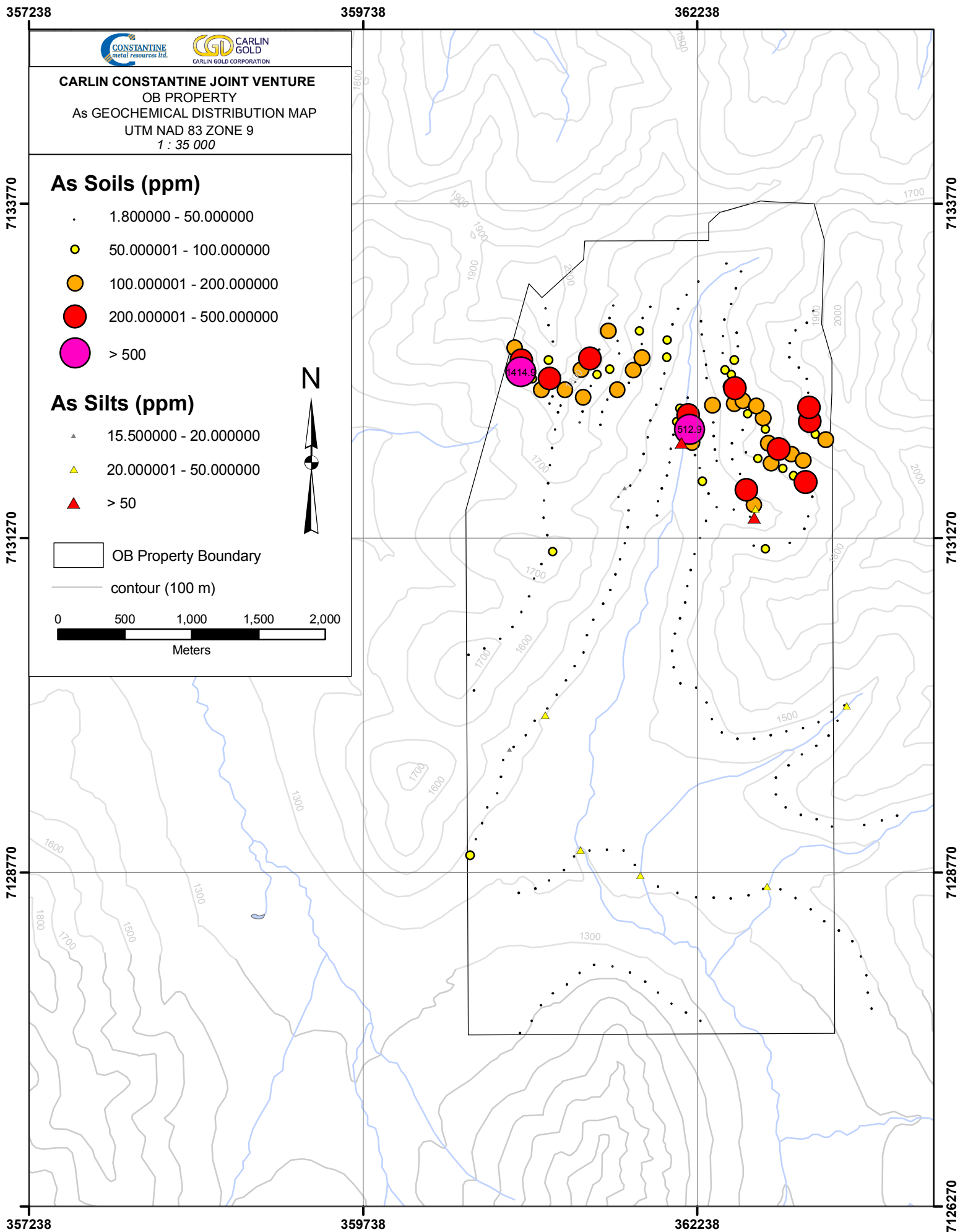


Table 5. Statistics for soil samples in the OB property

	Au (ppb)	As (ppm)	Hg (ppm)	Sb (ppm)	Tl (ppm)	Ag (ppm)	Cu (ppm)	Zn (ppm)	Ni (ppm)	Pb (ppm)	Bi (ppm)
Max	522.4	1414.9	0.83	129.9	1.6	0.6	96.6	1150	96.7	462.6	0.8
Mean	16.31	50.6	0.12	3.49	0.16	0.19	32.98	170.35	31.46	48.04	0.4
Standard Deviation	52.34	110.82	0.12	9.68	0.15	0.1	15.45	146.67	12.97	37.12	0.14
95th percentile	76.2	179.1	0.32	11.2	0.4	0.4	60.6	509	53.1	99.6	0.6

Silts

Only 10 silt samples were collected, precluding any meaningful statistical analysis. Silts were collected in drainages along the soil sample traverses. The highest gold (27 ppb) and arsenic (85.3 ppm) values were from a sample collected on the downslope/downgradient edge of the gold-bearing multi-element soil anomaly described above.

5. DISCUSSION and CONCLUSION

A promising gold-bearing multielement soil anomaly has been detected on the OB property and is described above. The anomaly was defined by follow-up sampling of anomalous arsenic values detected with the field XRF unit described in this report. No gold geochemistry was available prior to the follow-up sampling taking place, and as it turned out, most of the anomalous gold values occurred in the follow-up samples collected in August, 2011, not in the original samples collected in July, 2011, in which the anomalous arsenic was encountered by XRF analysis.

The multielement soil anomaly trends parallel to the regional stratigraphic trend as illustrated on the Yukon Bedrock Geology map (Gordey and Makepeace, 2003) and confirmed by limited attitude measurements by CCJV geologists. CCJV geologists have additionally observed that a west-northwest striking, steeply dipping 10 meter wide, pyritic, siliceous finely laminated limestone outcrops on the currently defined eastern edge of the gold-bearing multielement anomaly. Granodiorite dikes have been encountered on the Property, but so far have not been observed in the vicinity of the soil anomaly.

The soil anomaly has a “Carlin-type” pathfinder signature; in addition to gold, the anomalous zone contains arsenic to 1415 ppm, antimony to 130 ppm, mercury to 0.83 ppm and thallium to 1.6 ppm. Although the geological evaluation was very limited due to the late season follow-up of the XRF arsenic anomaly, the occurrence of thinly laminated sulfidic, siliceous limestone within the anomalous gold soil zone is a positive feature supporting the Carlin-type potential of the Property.

6. RECOMMENDATIONS

The anomaly described above requires geological mapping and prospecting. Because of the limited follow-up time during the short field season, the CCJV was unable to complete this work in 2011. Geological mapping is required to place this promising soil anomaly into a more meaningful geological context. The mapping program, combined with prospecting and rock sampling, will be designed to delineate drill targets. Additional soil sampling, geological mapping and rock sampling is also required to further evaluate the mercury soil anomaly encountered during the 2011 program on the south end of the Property.

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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 OB 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 24th Day of April, 2012.



Signature of Qualified Person

"Robert D. Thomas, Jr"

Print name of Qualified Person

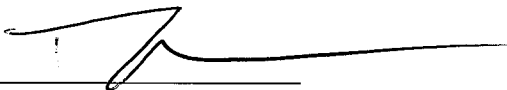
STATEMENT OF QUALIFICATIONS

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 OB 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 24th Day of April, 2012.



Signature of Qualified Person

"Darwin Green"
Print name of Qualified Person

APPENDIX B

ASSAY CERTIFICATES



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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Client: **Carlin Gold Corporation**

320 - 800 West Pender Street
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Submitted By: Confirmation Email List

Receiving Lab: Canada-Vancouver

Received: August 12, 2011

Report Date: September 19, 2011

Page: 1 of 9

CERTIFICATE OF ANALYSIS

VAN11003881.1

CLIENT JOB INFORMATION

Project: CCJV
Shipment ID:
P.O. Number: OB-01
Number of Samples: 213

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
No Prep	213	Sorting of samples on arrival and labeling			VAN
1DX2	213	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



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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Project: CCJV
Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11003881.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
1183298	Soil Pulp	0.5	25.6	56.1	216	0.2	28.4	12.2	773	5.14	110.7	29.4	1.8	79	0.3	7.5	0.4	12	1.70	0.081
1183299	Soil Pulp	1.0	15.3	42.0	234	0.2	19.2	6.7	929	5.34	216.2	28.9	1.3	10	0.3	7.8	0.3	31	0.31	0.159
1183889	Soil Pulp	0.9	20.0	87.5	321	0.2	21.6	9.9	767	3.28	11.7	2.3	1.2	38	1.2	1.5	0.2	22	5.23	0.115
1183890	Soil Pulp	0.8	22.8	462.6	923	0.4	21.6	10.2	1447	4.27	23.7	2.8	0.7	41	1.2	11.0	0.3	21	4.96	0.191
1183891	Soil Pulp	0.6	22.7	69.8	564	0.2	25.3	11.9	662	3.78	13.1	2.2	2.4	31	1.2	1.4	0.3	17	3.11	0.107
1183892	Soil Pulp	0.6	20.8	45.4	182	0.2	21.4	11.2	797	3.59	11.5	2.4	1.7	32	0.3	1.2	0.3	22	3.15	0.121
1183893	Soil Pulp	0.4	37.1	58.1	111	0.2	28.6	15.6	320	4.22	17.8	0.6	3.6	44	<0.1	1.1	0.5	7	0.74	0.085
1183894	Soil Pulp	0.5	33.8	48.7	63	0.3	29.2	15.8	496	4.70	12.7	1.2	3.8	42	<0.1	0.5	0.4	7	0.70	0.075
1183895	Soil Pulp	0.3	9.4	21.8	37	0.1	9.8	5.4	723	2.74	6.6	2.3	0.5	26	<0.1	0.2	0.1	5	0.76	0.067
1183896	Soil Pulp	1.0	20.5	173.8	639	0.3	26.9	12.0	1064	4.40	19.4	1.9	2.1	24	1.0	2.3	0.3	31	1.42	0.145
1183897	Soil Pulp	0.4	7.8	119.6	609	0.2	10.6	4.5	866	1.81	12.1	1.9	0.9	29	1.2	2.7	<0.1	8	12.28	0.059
1183898	Soil Pulp	1.1	25.0	99.6	740	0.3	26.4	11.5	1174	3.86	26.6	4.1	1.1	35	1.5	4.5	0.3	34	2.19	0.146
1183899	Soil Pulp	1.0	14.9	146.9	552	0.1	20.9	10.0	1227	4.76	15.3	1.4	1.7	26	1.4	1.4	0.3	48	0.68	0.083
1183900	Soil Pulp	0.7	28.3	65.6	450	0.3	22.7	10.7	1294	3.79	14.7	2.7	0.9	43	1.1	1.8	0.2	22	3.38	0.146
1183901	Soil Pulp	0.8	20.9	52.9	179	0.2	22.5	9.6	888	3.65	9.1	3.9	0.6	42	0.4	1.0	0.3	28	2.80	0.141
1183902	Soil Pulp	1.0	25.1	35.8	140	0.1	32.1	15.4	742	5.02	10.4	3.3	3.4	22	0.2	0.6	0.4	37	0.45	0.073
1183903	Soil Pulp	0.7	22.7	19.5	101	0.1	26.4	9.8	274	3.86	8.6	3.4	1.8	8	0.1	0.6	0.3	28	0.06	0.061
1183904	Soil Pulp	0.7	26.5	24.0	92	<0.1	31.4	13.2	440	4.12	11.5	2.1	7.5	10	0.1	0.6	0.3	27	0.07	0.035
1183905	Soil Pulp	0.7	23.9	21.8	97	<0.1	29.4	11.6	360	3.75	11.5	1.2	4.8	14	0.2	0.7	0.2	28	0.14	0.061
1183906	Soil Pulp	0.9	25.5	25.5	95	<0.1	30.3	14.1	285	4.91	14.8	3.5	8.5	7	0.2	0.7	0.4	38	0.05	0.027
1183907	Soil Pulp	0.5	20.5	32.2	121	<0.1	25.0	14.6	448	4.85	45.8	26.9	6.4	11	<0.1	1.9	0.4	13	0.09	0.077
1183908	Soil Pulp	1.0	26.0	21.0	100	<0.1	27.6	10.4	321	3.71	13.1	3.0	6.4	12	0.2	0.9	0.3	32	0.13	0.050
1183909	Soil Pulp	1.0	32.3	28.0	106	<0.1	35.5	14.9	554	4.33	17.0	3.3	5.3	10	0.2	0.8	0.3	33	0.08	0.042
1183910	Soil Pulp	1.1	24.8	27.2	94	<0.1	30.0	13.6	439	4.66	21.2	2.1	8.2	8	0.2	0.9	0.3	37	0.05	0.039
1183911	Soil Pulp	1.0	30.3	29.9	102	<0.1	32.5	15.5	575	4.52	18.5	6.0	8.4	10	0.3	1.0	0.3	33	0.08	0.043
1183912	Soil Pulp	0.9	24.4	24.9	101	0.1	27.8	12.4	427	3.85	15.9	1.9	6.3	20	0.2	1.0	0.3	27	0.23	0.055
1183913	Soil Pulp	1.0	19.7	20.6	78	0.2	20.4	8.8	217	3.69	10.9	1.9	3.4	7	0.2	0.7	0.3	37	0.04	0.043
1183914	Soil Pulp	1.1	25.5	24.6	117	0.1	28.3	11.5	341	4.38	14.5	1.5	4.1	9	0.2	0.8	0.4	39	0.08	0.042
1183915	Soil Pulp	1.5	23.0	84.4	109	<0.1	31.3	31.1	1880	8.64	41.2	0.9	3.9	7	0.3	1.3	0.4	21	0.12	0.102
1183916	Soil Pulp	0.9	20.3	31.9	104	<0.1	26.0	13.6	469	4.61	16.8	1.1	9.4	6	0.3	0.7	0.4	30	0.05	0.036



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CERTIFICATE OF ANALYSIS

VAN11003881.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
1183298	Soil Pulp	11	0.46	65	0.001	2	0.75	0.003	0.03	0.2	0.19	2.1	0.2	0.11	2	0.9	<0.2
1183299	Soil Pulp	21	0.20	94	0.007	1	1.64	0.003	0.05	0.1	0.13	2.1	0.3	0.09	3	1.0	<0.2
1183889	Soil Pulp	17	2.96	108	0.009	3	1.14	0.008	0.07	<0.1	0.21	1.8	<0.1	0.08	3	1.3	<0.2
1183890	Soil Pulp	14	2.56	91	0.007	3	0.88	0.005	0.05	0.1	0.50	1.6	0.1	0.08	2	1.2	<0.2
1183891	Soil Pulp	15	1.64	79	0.006	2	1.02	0.005	0.08	<0.1	0.30	2.0	<0.1	<0.05	3	1.6	<0.2
1183892	Soil Pulp	14	1.55	69	0.009	2	0.91	0.006	0.06	<0.1	0.11	2.1	<0.1	0.07	2	0.6	<0.2
1183893	Soil Pulp	8	0.14	41	0.002	3	0.57	0.005	0.10	<0.1	0.11	1.7	<0.1	0.11	1	<0.5	<0.2
1183894	Soil Pulp	7	0.15	40	0.001	2	0.65	0.003	0.08	<0.1	0.11	2.4	<0.1	0.07	1	<0.5	<0.2
1183895	Soil Pulp	4	0.06	37	0.003	2	0.35	0.001	0.04	<0.1	0.04	0.9	<0.1	0.08	<1	0.9	<0.2
1183896	Soil Pulp	22	0.61	113	0.009	2	1.34	0.006	0.06	0.1	0.24	2.5	0.1	0.05	3	1.2	<0.2
1183897	Soil Pulp	7	7.82	31	0.006	<1	0.44	0.008	0.03	<0.1	0.50	1.2	<0.1	<0.05	1	0.6	<0.2
1183898	Soil Pulp	21	1.01	132	0.010	3	1.49	0.006	0.08	0.1	0.33	1.8	0.1	0.09	4	1.0	<0.2
1183899	Soil Pulp	26	0.42	121	0.017	2	1.72	0.004	0.06	0.2	0.48	2.7	0.1	<0.05	5	1.0	<0.2
1183900	Soil Pulp	17	1.64	179	0.006	3	1.09	0.005	0.06	<0.1	0.26	1.5	0.1	0.09	3	1.1	<0.2
1183901	Soil Pulp	20	1.34	181	0.008	2	1.28	0.005	0.05	0.1	0.13	1.2	<0.1	0.07	3	0.6	<0.2
1183902	Soil Pulp	26	0.50	205	0.007	1	1.91	0.005	0.06	0.1	0.05	2.6	0.1	<0.05	5	1.0	<0.2
1183903	Soil Pulp	25	0.41	87	0.009	<1	1.54	0.004	0.06	<0.1	0.05	1.3	<0.1	<0.05	5	<0.5	<0.2
1183904	Soil Pulp	21	0.41	100	0.010	<1	1.48	0.003	0.04	<0.1	0.02	2.6	<0.1	<0.05	4	0.5	<0.2
1183905	Soil Pulp	22	0.41	134	0.011	<1	1.46	0.005	0.05	<0.1	0.05	2.3	<0.1	<0.05	4	<0.5	<0.2
1183906	Soil Pulp	26	0.39	105	0.007	<1	1.96	0.004	0.07	<0.1	0.02	2.6	0.1	<0.05	5	<0.5	<0.2
1183907	Soil Pulp	17	0.34	39	0.001	<1	1.15	0.002	0.03	<0.1	0.04	1.9	<0.1	<0.05	3	<0.5	<0.2
1183908	Soil Pulp	23	0.44	109	0.011	<1	1.51	0.005	0.05	<0.1	0.05	2.4	<0.1	<0.05	4	0.6	<0.2
1183909	Soil Pulp	26	0.42	145	0.006	1	1.87	0.005	0.07	0.1	0.05	2.9	0.1	<0.05	5	0.8	<0.2
1183910	Soil Pulp	25	0.35	113	0.008	<1	1.85	0.004	0.08	<0.1	0.03	3.1	0.1	<0.05	5	<0.5	<0.2
1183911	Soil Pulp	24	0.39	131	0.008	<1	1.96	0.004	0.08	<0.1	0.07	3.3	<0.1	<0.05	4	<0.5	<0.2
1183912	Soil Pulp	20	0.36	90	0.013	<1	1.20	0.004	0.05	<0.1	0.05	2.9	<0.1	<0.05	3	0.8	<0.2
1183913	Soil Pulp	20	0.28	103	0.007	<1	1.40	0.003	0.06	0.1	0.04	1.7	0.1	<0.05	5	<0.5	<0.2
1183914	Soil Pulp	25	0.37	149	0.007	<1	1.65	0.004	0.08	<0.1	0.02	2.3	0.1	<0.05	6	<0.5	<0.2
1183915	Soil Pulp	16	0.19	83	0.007	<1	1.16	0.002	0.03	0.1	0.04	2.9	<0.1	<0.05	3	0.7	<0.2
1183916	Soil Pulp	20	0.23	94	0.004	<1	1.67	0.003	0.07	<0.1	0.04	3.2	0.1	<0.05	4	<0.5	<0.2



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Project: CCJV
Report Date: September 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11003881.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
1183917	Soil Pulp	1.0	5.4	16.2	37	<0.1	6.1	2.7	75	1.64	6.0	1.0	0.4	7	<0.1	0.3	0.2	35	0.06	0.044
1183918	Soil Pulp	0.3	31.8	37.4	171	0.2	27.5	15.4	571	4.28	37.2	3.7	3.9	30	0.3	1.9	0.4	9	1.90	0.079
1183919	Soil Pulp	0.8	18.9	36.1	271	<0.1	22.1	11.4	759	4.25	21.8	1.6	2.5	12	0.2	1.1	0.3	27	0.31	0.086
1183920	Soil Pulp	0.6	21.7	27.1	167	0.2	25.6	12.2	443	3.97	15.2	1.2	2.6	34	0.3	0.9	0.4	25	0.64	0.075
1183921	Soil Pulp	0.9	10.9	23.0	192	0.3	14.6	6.6	743	3.72	10.1	1.4	0.9	19	0.2	0.6	0.3	35	0.55	0.161
1183922	Soil Pulp	0.9	34.0	33.4	253	0.4	27.8	12.8	590	4.10	15.7	2.8	1.6	65	0.7	1.0	0.4	27	1.09	0.125
1183923	Soil Pulp	0.5	21.0	27.3	120	<0.1	21.9	10.9	325	3.89	14.1	<0.5	2.9	28	0.1	0.9	0.4	17	0.47	0.069
1183924	Soil Pulp	0.8	30.0	35.4	165	0.2	28.7	12.5	554	4.10	21.1	1.6	1.7	41	0.2	1.6	0.3	17	0.71	0.093
1183925	Soil Pulp	0.8	20.9	36.4	303	0.2	23.3	10.0	646	3.69	17.1	<0.5	1.1	61	0.7	1.8	0.3	22	3.49	0.143
1183926	Soil Pulp	0.6	24.1	39.6	377	0.3	23.2	10.9	236	4.42	8.1	<0.5	3.4	52	0.4	0.8	0.5	16	0.82	0.081
1183927	Soil Pulp	0.6	22.7	31.3	177	0.2	24.5	9.7	304	3.67	12.1	0.6	1.9	60	0.5	1.1	0.3	22	1.89	0.119
1183928	Soil Pulp	0.7	23.7	41.3	158	0.1	21.4	14.0	716	3.65	7.2	<0.5	1.7	36	0.5	0.9	0.4	13	1.03	0.103
1185535	Soil Pulp	1.2	54.2	67.1	187	0.2	40.3	22.7	1102	9.52	34.1	2.0	6.6	22	0.1	2.7	0.4	29	0.02	0.108
1185536	Soil Pulp	1.0	25.2	41.9	119	0.1	24.9	14.6	1131	5.07	16.2	<0.5	0.7	6	0.3	1.0	0.3	24	0.04	0.072
1185537	Soil Pulp	1.0	20.9	31.5	103	0.1	18.6	8.8	603	3.89	21.3	1.1	0.2	9	0.3	0.9	0.4	28	0.09	0.075
1185538	Soil Pulp	1.2	24.7	29.5	101	0.1	20.1	8.0	322	4.24	21.9	<0.5	0.2	9	0.2	1.0	0.3	25	0.03	0.071
1185539	Soil Pulp	1.0	27.4	44.6	129	0.2	27.1	14.7	938	5.63	13.5	<0.5	0.4	6	0.3	0.9	0.4	27	0.05	0.093
1185540	Soil Pulp	1.0	26.7	36.8	125	<0.1	24.7	11.8	596	5.63	18.8	3.5	0.7	6	0.3	1.3	0.4	22	0.03	0.067
1185541	Soil Pulp	1.2	19.9	24.1	116	0.1	16.8	7.5	309	3.64	26.6	<0.5	0.3	7	0.2	2.3	0.4	28	0.07	0.060
1185542	Soil Pulp	1.1	19.5	27.4	115	0.1	21.3	10.8	490	4.48	21.3	1.8	1.1	8	0.2	1.0	0.3	29	0.14	0.050
1185543	Soil Pulp	1.2	26.1	28.0	117	0.1	21.8	10.3	371	4.54	23.2	6.6	0.7	7	0.1	1.0	0.3	32	0.03	0.059
1185544	Soil Pulp	1.0	36.6	39.1	136	0.2	30.8	15.7	522	5.76	26.8	1.2	2.1	6	0.3	1.0	0.4	22	0.02	0.063
1185545	Soil Pulp	0.7	22.2	40.6	241	0.1	20.7	12.0	1198	4.02	40.4	1.2	1.5	11	0.6	1.9	0.3	21	0.42	0.081
1185546	Soil Pulp	0.7	19.7	56.5	295	0.2	23.1	9.8	1283	5.08	35.5	0.6	1.9	15	0.7	2.7	0.3	29	0.47	0.095
1185547	Soil Pulp	1.1	24.7	29.3	107	0.2	18.1	11.5	702	4.28	30.1	<0.5	0.8	14	0.2	1.4	0.4	26	0.26	0.062
1185548	Soil Pulp	0.7	26.9	46.7	214	0.2	28.0	14.0	1168	4.73	36.9	3.2	2.2	18	0.5	2.4	0.4	22	0.66	0.092
1185549	Soil Pulp	0.4	20.2	49.9	231	0.2	22.8	9.6	929	3.75	42.4	4.8	1.7	28	0.4	3.5	0.2	11	4.99	0.092
1185550	Soil Pulp	0.4	19.6	44.0	182	0.2	19.4	9.1	1132	3.73	31.4	10.5	0.7	49	0.6	1.8	0.2	14	6.99	0.167
1185551	Soil Pulp	0.8	21.4	86.9	409	0.3	22.5	9.9	1652	4.87	54.7	11.8	1.0	29	1.1	3.8	0.2	16	3.97	0.151
1185552	Soil Pulp	0.4	19.3	41.8	274	0.1	21.6	11.9	1156	3.56	47.5	15.1	2.4	43	0.6	3.7	0.2	15	8.39	0.092



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
1183917	Soil Pulp	15	0.14	87	0.007	<1	1.23	0.003	0.04	0.1	0.04	0.7	0.2	<0.05	6	1.1	0.2
1183918	Soil Pulp	10	1.07	33	0.002	<1	0.70	0.003	0.04	<0.1	0.16	2.3	<0.1	0.08	2	0.9	<0.2
1183919	Soil Pulp	18	0.33	119	0.005	<1	1.34	0.003	0.06	0.1	0.10	2.1	0.1	<0.05	4	<0.5	<0.2
1183920	Soil Pulp	19	0.35	108	0.006	<1	1.42	0.003	0.05	<0.1	0.09	2.4	<0.1	0.06	4	<0.5	<0.2
1183921	Soil Pulp	21	0.27	147	0.008	<1	1.67	0.003	0.04	<0.1	0.12	1.6	0.1	0.07	4	<0.5	<0.2
1183922	Soil Pulp	23	0.37	90	0.007	1	1.40	0.004	0.06	<0.1	0.32	2.0	<0.1	0.12	4	1.3	<0.2
1183923	Soil Pulp	14	0.23	78	0.005	<1	0.97	0.003	0.03	<0.1	0.05	2.0	<0.1	0.07	2	0.5	<0.2
1183924	Soil Pulp	14	0.20	65	0.005	2	0.87	0.003	0.05	<0.1	0.10	1.9	<0.1	0.11	2	<0.5	<0.2
1183925	Soil Pulp	15	1.19	64	0.008	2	0.95	0.004	0.05	<0.1	0.11	2.0	<0.1	0.11	2	1.0	<0.2
1183926	Soil Pulp	18	0.48	46	0.003	1	1.28	0.002	0.03	<0.1	0.24	3.2	<0.1	0.09	3	1.0	<0.2
1183927	Soil Pulp	16	0.59	81	0.007	2	1.12	0.004	0.05	<0.1	0.09	2.1	0.1	0.09	3	<0.5	<0.2
1183928	Soil Pulp	11	0.22	73	0.004	2	1.04	0.003	0.03	<0.1	0.07	1.7	<0.1	0.10	2	0.6	<0.2
1185535	Soil Pulp	19	0.18	45	0.010	1	1.21	0.008	0.04	0.1	0.03	2.8	0.3	0.06	4	0.7	<0.2
1185536	Soil Pulp	15	0.15	66	0.005	<1	0.86	0.002	0.04	<0.1	0.03	0.6	0.1	0.08	3	<0.5	<0.2
1185537	Soil Pulp	13	0.08	63	0.005	2	0.55	0.002	0.05	0.1	<0.01	0.5	0.1	0.06	3	<0.5	<0.2
1185538	Soil Pulp	12	0.04	46	0.004	1	0.51	0.002	0.05	<0.1	<0.01	0.5	<0.1	0.07	3	<0.5	<0.2
1185539	Soil Pulp	18	0.19	70	0.005	1	1.12	0.003	0.05	<0.1	0.04	0.6	0.1	0.08	3	<0.5	<0.2
1185540	Soil Pulp	18	0.20	46	0.006	<1	0.99	0.002	0.03	<0.1	0.03	0.8	0.1	<0.05	3	<0.5	<0.2
1185541	Soil Pulp	12	0.07	60	0.006	<1	0.53	0.002	0.04	0.1	0.02	0.5	0.1	0.06	3	<0.5	<0.2
1185542	Soil Pulp	19	0.27	68	0.012	1	1.28	0.003	0.05	0.1	0.01	1.3	<0.1	0.06	4	<0.5	<0.2
1185543	Soil Pulp	19	0.20	51	0.009	1	1.17	0.003	0.05	0.1	0.03	1.1	0.1	0.08	4	0.6	<0.2
1185544	Soil Pulp	17	0.20	39	0.007	<1	1.14	0.002	0.04	0.1	0.08	1.4	0.1	0.07	3	<0.5	<0.2
1185545	Soil Pulp	14	0.27	103	0.007	<1	1.00	0.002	0.05	0.1	0.06	1.5	0.1	0.10	3	<0.5	<0.2
1185546	Soil Pulp	19	0.32	194	0.010	1	1.27	0.004	0.05	0.1	0.07	2.6	0.1	0.09	3	<0.5	<0.2
1185547	Soil Pulp	12	0.10	122	0.006	<1	0.71	0.002	0.07	0.1	0.02	0.9	0.1	0.10	3	<0.5	<0.2
1185548	Soil Pulp	17	0.35	116	0.008	2	1.06	0.004	0.06	0.1	0.07	2.4	0.2	0.12	3	0.5	<0.2
1185549	Soil Pulp	11	2.81	70	0.004	2	0.60	0.005	0.04	0.2	0.12	1.8	0.2	0.15	1	<0.5	<0.2
1185550	Soil Pulp	12	3.54	64	0.005	4	0.77	0.006	0.03	0.1	0.08	1.4	<0.1	0.20	2	<0.5	<0.2
1185551	Soil Pulp	13	1.93	203	0.006	4	0.73	0.004	0.05	0.2	0.15	2.1	0.2	0.15	2	<0.5	<0.2
1185552	Soil Pulp	10	4.74	208	0.009	2	0.55	0.007	0.05	0.2	0.16	2.4	0.2	0.10	1	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
1185553	Soil Pulp	0.4	32.3	43.4	246	0.1	22.5	13.3	1093	4.31	101.1	5.8	2.4	16	0.1	4.1	0.3	13	2.17	0.102
1185554	Soil Pulp	0.4	21.7	45.1	370	0.2	25.6	12.1	1161	4.20	44.3	5.2	1.3	31	0.5	2.6	0.3	17	2.62	0.117
1185555	Soil Pulp	0.8	22.1	38.6	394	0.2	26.6	9.6	1304	5.27	31.0	<0.5	1.0	44	0.7	1.3	0.3	29	1.49	0.116
1185556	Soil Pulp	0.6	16.9	34.9	280	0.2	20.9	7.9	1203	3.88	58.0	10.0	0.7	55	0.5	3.4	0.2	15	8.75	0.123
1185557	Soil Pulp	0.8	12.6	42.8	660	0.1	19.1	6.4	910	3.26	28.5	4.0	1.8	69	1.1	2.5	0.1	16	11.67	0.087
1185558	Soil Pulp	0.6	11.1	59.0	345	0.2	12.7	4.4	1469	3.62	39.1	9.2	0.6	35	1.2	2.9	<0.1	12	13.46	0.104
1185559	Soil Pulp	0.6	17.5	45.9	339	0.2	23.7	8.8	955	3.60	183.7	16.8	2.3	46	0.4	8.2	0.2	10	8.90	0.080
1185560	Soil Pulp	0.6	17.3	69.0	363	0.2	19.9	7.5	1858	4.53	68.6	17.3	0.4	62	1.5	4.1	0.2	19	5.73	0.222
1185561	Soil Pulp	1.1	50.9	65.4	134	0.3	39.6	25.0	1055	7.66	9.2	1.7	6.6	39	0.1	0.5	0.5	19	0.42	0.129
1185562	Soil Pulp	0.8	51.3	48.3	136	0.1	40.3	17.3	512	6.99	14.9	1.6	8.2	13	0.1	0.5	0.4	20	0.03	0.078
1185564	Soil Pulp	1.4	67.1	55.0	119	0.1	46.3	22.9	621	8.33	17.3	1.0	8.4	15	<0.1	0.8	0.4	23	0.02	0.095
1185565	Soil Pulp	1.0	54.2	43.9	111	<0.1	34.0	17.0	503	8.03	27.3	1.9	8.9	12	0.1	0.6	0.5	21	0.06	0.092
1185566	Soil Pulp	0.9	28.3	38.1	99	<0.1	30.3	15.2	518	4.28	11.8	2.2	1.8	9	0.2	0.7	0.5	26	0.05	0.063
1370161	Soil Pulp	1.2	33.2	28.8	99	0.1	32.8	11.4	419	4.48	6.8	1.3	4.9	5	0.1	0.5	0.5	28	0.02	0.086
1370162	Soil Pulp	1.0	42.3	22.3	108	<0.1	31.1	22.9	998	4.45	4.4	1.4	5.3	5	0.1	0.4	0.4	29	0.02	0.082
1370163	Soil Pulp	0.7	55.5	36.5	117	<0.1	44.3	41.8	2786	5.54	1.4	4.5	9.2	11	0.1	0.2	0.4	22	0.05	0.058
1370164	Soil Pulp	0.6	40.0	36.6	102	<0.1	36.3	26.8	975	4.47	3.1	2.7	7.8	5	<0.1	0.3	0.4	20	0.02	0.056
1370165	Soil Pulp	0.8	51.2	40.2	107	<0.1	40.2	47.9	1658	4.62	3.7	1.6	8.2	7	<0.1	0.3	0.4	21	0.02	0.052
1370166	Soil Pulp	0.7	40.6	48.4	102	<0.1	37.6	21.7	1178	4.28	1.7	1.7	8.4	6	<0.1	0.2	0.4	19	0.03	0.034
1370167	Soil Pulp	0.6	43.2	29.1	102	<0.1	37.0	22.8	838	4.41	2.5	0.8	6.8	7	<0.1	0.2	0.4	18	0.02	0.030
1370168	Soil Pulp	0.5	42.7	39.5	104	<0.1	34.8	30.2	1113	4.47	4.9	0.6	5.8	14	0.1	0.3	0.4	21	0.15	0.054
1370169	Soil Pulp	0.3	44.9	30.7	109	<0.1	41.2	35.9	1523	5.14	4.0	0.7	7.3	18	<0.1	0.2	0.4	23	0.21	0.020
1370170	Soil Pulp	1.2	31.5	44.9	111	0.1	23.0	13.5	763	3.67	17.6	2.0	1.8	8	0.3	1.0	0.4	27	0.07	0.100
1370171	Soil Pulp	0.6	42.7	56.4	102	<0.1	32.8	34.6	1381	4.59	7.8	1.6	6.6	7	<0.1	0.5	0.4	22	0.05	0.061
1370172	Soil Pulp	1.2	46.5	65.0	90	<0.1	27.9	36.8	1569	4.19	6.8	1.1	4.3	5	0.1	0.6	0.5	25	0.02	0.091
1370173	Soil Pulp	0.8	83.3	63.5	101	<0.1	37.8	53.9	2787	4.85	5.1	1.4	8.1	7	<0.1	0.4	0.5	23	0.04	0.066
1370174	Soil Pulp	0.8	53.8	68.7	98	<0.1	39.2	65.4	2284	4.49	4.6	1.1	7.7	10	<0.1	0.5	0.4	20	0.04	0.040
1370175	Soil Pulp	0.9	59.5	75.8	109	0.1	39.0	58.4	2033	4.80	4.7	1.0	8.2	9	<0.1	0.6	0.4	22	0.04	0.046
1370176	Soil Pulp	1.0	43.3	51.0	95	<0.1	31.6	26.2	1327	4.48	3.4	1.1	5.4	8	0.1	0.3	0.4	25	0.02	0.068
1370177	Soil Pulp	0.7	50.6	40.8	108	<0.1	40.5	31.0	1060	4.68	3.5	1.5	10.5	10	<0.1	0.3	0.4	20	0.05	0.039



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
1185553	Soil Pulp	11	1.02	822	0.004	2	0.72	0.003	0.07	0.3	0.12	2.8	0.3	0.11	2	<0.5	<0.2
1185554	Soil Pulp	12	0.98	640	0.004	2	0.70	0.004	0.03	0.1	0.20	2.1	0.3	0.14	2	<0.5	<0.2
1185555	Soil Pulp	19	0.48	134	0.007	2	1.29	0.003	0.04	0.1	0.21	1.8	0.2	0.13	3	0.8	<0.2
1185556	Soil Pulp	11	4.66	90	0.005	3	0.60	0.006	0.03	0.1	0.14	1.3	0.2	0.12	1	0.7	<0.2
1185557	Soil Pulp	10	6.41	60	0.011	2	0.49	0.007	0.03	<0.1	0.12	1.9	0.1	0.10	1	<0.5	<0.2
1185558	Soil Pulp	9	8.03	50	0.005	2	0.43	0.009	0.02	0.1	0.12	1.1	0.2	0.12	<1	<0.5	<0.2
1185559	Soil Pulp	8	5.31	72	0.005	2	0.45	0.008	0.05	0.2	0.12	1.6	0.5	0.14	1	<0.5	<0.2
1185560	Soil Pulp	13	2.45	121	0.004	3	0.83	0.005	0.04	0.1	0.19	1.1	0.1	0.23	2	1.6	<0.2
1185561	Soil Pulp	26	0.48	51	0.005	1	1.67	0.005	0.04	<0.1	0.11	3.3	0.2	0.13	3	0.6	<0.2
1185562	Soil Pulp	20	0.35	38	0.011	1	1.35	0.004	0.03	<0.1	0.04	3.0	<0.1	0.09	3	<0.5	<0.2
1185564	Soil Pulp	22	0.34	26	0.017	<1	1.17	0.005	0.03	<0.1	0.02	3.9	0.2	0.10	3	<0.5	<0.2
1185565	Soil Pulp	21	0.32	39	0.014	1	1.28	0.003	0.03	<0.1	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
1185566	Soil Pulp	20	0.31	44	0.010	2	1.31	0.004	0.03	<0.1	0.05	1.4	<0.1	<0.05	3	0.7	<0.2
1370161	Soil Pulp	31	0.76	27	0.006	<1	2.34	0.003	0.03	<0.1	0.05	1.8	<0.1	<0.05	6	1.0	<0.2
1370162	Soil Pulp	32	0.80	37	0.005	1	2.48	0.004	0.04	<0.1	0.07	2.0	0.1	<0.05	7	0.9	<0.2
1370163	Soil Pulp	32	0.98	64	0.005	<1	2.62	0.003	0.03	<0.1	0.02	3.3	<0.1	<0.05	7	<0.5	<0.2
1370164	Soil Pulp	30	0.83	25	0.003	1	2.28	0.003	0.03	<0.1	0.02	2.4	<0.1	<0.05	7	0.5	<0.2
1370165	Soil Pulp	31	0.86	47	0.003	<1	2.40	0.004	0.03	<0.1	0.03	2.5	<0.1	<0.05	7	<0.5	<0.2
1370166	Soil Pulp	31	0.87	29	0.002	<1	2.24	0.003	0.03	<0.1	0.04	2.3	<0.1	<0.05	6	<0.5	<0.2
1370167	Soil Pulp	26	0.71	33	0.002	<1	1.87	0.003	0.02	<0.1	0.03	2.3	<0.1	<0.05	6	0.6	<0.2
1370168	Soil Pulp	29	0.78	51	0.003	1	2.21	0.004	0.04	<0.1	0.03	2.0	<0.1	<0.05	6	<0.5	<0.2
1370169	Soil Pulp	32	0.90	104	<0.001	<1	2.52	0.004	0.03	<0.1	0.02	2.9	<0.1	<0.05	7	<0.5	<0.2
1370170	Soil Pulp	21	0.37	54	0.007	1	1.41	0.004	0.05	<0.1	0.09	1.4	0.1	0.06	5	<0.5	<0.2
1370171	Soil Pulp	29	0.75	57	0.005	<1	2.07	0.003	0.03	<0.1	0.03	2.5	<0.1	<0.05	6	<0.5	<0.2
1370172	Soil Pulp	26	0.57	42	0.005	1	1.89	0.004	0.04	<0.1	0.05	2.0	0.1	<0.05	6	0.8	<0.2
1370173	Soil Pulp	33	0.84	42	0.004	1	2.41	0.004	0.04	<0.1	0.06	3.7	0.1	<0.05	7	0.5	<0.2
1370174	Soil Pulp	30	0.87	62	0.002	<1	2.27	0.004	0.03	<0.1	0.04	2.5	0.1	<0.05	7	0.6	<0.2
1370175	Soil Pulp	32	0.89	79	0.003	<1	2.44	0.004	0.03	<0.1	0.04	2.8	<0.1	<0.05	7	<0.5	<0.2
1370176	Soil Pulp	29	0.70	53	0.002	<1	2.40	0.005	0.05	<0.1	0.03	2.1	0.1	<0.05	7	<0.5	<0.2
1370177	Soil Pulp	33	0.96	36	0.002	<1	2.39	0.005	0.03	<0.1	0.02	2.7	<0.1	<0.05	7	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		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
1370178	Soil Pulp	0.8	47.5	42.0	89	<0.1	35.5	28.7	1166	3.84	3.7	1.4	8.3	10	0.1	0.4	0.3	21	0.08	0.036
1370179	Soil Pulp	1.3	40.9	27.7	100	0.1	35.2	14.1	388	4.14	5.4	1.6	6.7	13	0.1	0.5	0.4	28	0.09	0.068
1370180	Soil Pulp	0.8	46.2	18.5	99	<0.1	32.6	22.8	932	4.38	3.0	0.7	7.7	5	0.1	0.3	0.3	22	0.03	0.060
1370181	Soil Pulp	0.6	44.9	34.7	111	<0.1	39.5	29.6	853	4.74	3.7	0.8	8.8	9	<0.1	0.2	0.3	23	0.04	0.040
1370182	Soil Pulp	1.4	57.2	46.5	95	<0.1	38.3	83.9	1751	3.81	7.3	0.7	7.3	16	<0.1	0.7	0.3	30	0.09	0.073
1370183	Soil Pulp	0.8	28.1	34.8	68	<0.1	21.7	14.1	341	3.00	9.4	1.6	0.9	10	0.1	0.6	0.3	25	0.08	0.123
1370185	Soil Pulp	1.4	46.0	51.2	180	0.1	44.3	19.0	316	2.71	63.9	1.6	4.7	105	0.3	3.5	0.5	14	3.20	0.213
1370186	Soil Pulp	0.8	9.5	113.4	747	<0.1	12.3	3.6	1088	2.03	359.5	29.3	1.0	41	3.1	129.9	0.6	6	13.60	0.058
1370187	Soil Pulp	0.8	19.1	16.9	137	0.2	27.9	7.7	185	2.03	40.5	1.0	2.2	413	0.2	2.3	0.2	11	10.51	0.112
1370188	Soil Pulp	0.7	41.1	51.7	137	0.3	41.3	16.8	652	6.45	12.3	<0.5	8.9	159	0.1	0.6	0.6	11	0.76	0.100
1370189	Soil Pulp	1.1	63.8	50.2	283	0.3	96.7	38.2	1195	9.70	9.1	1.0	14.5	314	0.3	0.5	0.5	34	1.05	0.110
1370190	Soil Pulp	0.6	46.1	48.4	160	0.2	48.5	21.2	561	6.68	13.4	1.8	8.7	68	0.2	0.5	0.6	12	0.92	0.096
1370191	Soil Pulp	0.9	42.0	48.5	141	0.2	38.2	16.8	672	5.53	17.5	1.9	5.5	20	0.2	0.8	0.6	16	0.18	0.096
1370192	Soil Pulp	0.6	57.8	57.7	138	0.2	51.1	25.6	803	5.78	11.1	1.4	11.5	27	0.1	0.7	0.7	16	0.16	0.039
1370193	Soil Pulp	0.8	40.8	53.4	136	0.3	57.9	37.6	1908	5.61	7.4	0.7	11.1	26	0.1	0.5	0.4	17	0.23	0.055
1370194	Soil Pulp	2.0	29.9	26.8	92	0.1	22.9	9.1	322	3.41	13.1	0.9	1.1	9	0.2	1.3	0.4	32	0.04	0.090
1370195	Soil Pulp	1.2	36.7	42.6	107	0.2	35.9	17.4	590	4.29	18.9	1.2	7.3	10	0.2	1.1	0.4	22	0.06	0.067
1370196	Soil Pulp	1.3	32.9	71.1	284	0.2	37.4	14.0	448	4.12	60.7	2.2	6.7	15	0.5	6.5	0.3	25	0.09	0.061
1370197	Soil Pulp	1.1	33.9	50.1	125	0.1	36.0	17.2	794	4.93	12.5	2.3	3.6	9	0.2	0.9	0.5	18	0.05	0.069
1370198	Soil Pulp	1.5	26.5	30.4	94	<0.1	29.1	10.7	285	3.50	15.4	1.9	2.6	7	0.1	1.1	0.4	22	0.03	0.052
1370199	Soil Pulp	1.7	19.5	23.1	72	<0.1	20.4	7.2	276	2.78	10.3	4.2	0.8	7	0.1	1.0	0.3	29	0.04	0.062
1370200	Soil Pulp	1.8	17.0	18.6	65	<0.1	16.9	5.8	231	2.89	7.5	2.2	0.3	5	0.1	0.7	0.3	41	0.03	0.060
1370451	Soil Pulp	0.5	34.9	34.1	108	0.2	37.5	15.5	668	4.47	9.4	0.8	7.0	15	<0.1	0.3	0.5	11	0.12	0.065
1370452	Soil Pulp	0.6	42.9	41.9	128	0.3	46.5	20.6	961	5.20	18.8	0.8	9.8	19	0.1	0.4	0.5	12	0.15	0.066
1370453	Soil Pulp	0.5	38.2	41.3	121	0.2	41.5	18.2	621	5.34	8.3	1.4	9.5	164	0.1	0.4	0.5	11	2.31	0.068
1370454	Soil Pulp	0.4	26.5	35.5	131	<0.1	29.7	14.1	621	3.62	79.2	18.9	7.2	17	0.2	4.5	0.3	7	1.19	0.040
1370455	Soil Pulp	0.7	20.7	67.2	474	0.3	24.2	9.6	678	3.20	163.1	12.1	1.5	44	1.0	8.9	0.3	16	1.16	0.104
1370456	Soil Pulp	0.3	9.8	71.1	311	0.1	11.7	5.2	1200	2.27	108.5	103.4	1.4	36	0.8	7.7	0.2	5	9.85	0.087
1370457	Soil Pulp	0.6	34.9	43.1	131	0.2	34.8	18.2	812	4.49	76.2	7.9	7.7	14	0.2	2.8	0.4	8	0.14	0.052
1370458	Soil Pulp	0.6	46.6	47.6	110	0.2	51.7	37.3	1815	5.18	26.8	1.3	8.4	9	<0.1	0.5	0.5	12	0.03	0.042



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
1370178	Soil Pulp	27	0.75	51	0.007	<1	1.92	0.004	0.03	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
1370179	Soil Pulp	30	0.85	42	0.013	2	2.30	0.012	0.06	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
1370180	Soil Pulp	30	0.83	34	0.003	<1	2.46	0.004	0.03	<0.1	0.04	2.4	<0.1	<0.05	7	0.6	<0.2
1370181	Soil Pulp	34	0.93	33	0.002	<1	2.57	0.004	0.03	<0.1	0.03	2.4	<0.1	<0.05	8	<0.5	<0.2
1370182	Soil Pulp	29	0.67	84	0.012	<1	1.93	0.005	0.03	<0.1	0.03	2.1	0.1	<0.05	6	<0.5	<0.2
1370183	Soil Pulp	22	0.32	35	0.005	1	1.22	0.003	0.04	<0.1	0.04	0.4	<0.1	<0.05	4	0.6	<0.2
1370185	Soil Pulp	8	0.43	60	0.006	5	0.57	0.006	0.08	0.4	0.09	3.1	0.7	<0.05	1	1.1	<0.2
1370186	Soil Pulp	12	8.43	54	0.005	2	0.25	0.011	0.02	0.2	0.36	1.4	0.5	<0.05	<1	<0.5	<0.2
1370187	Soil Pulp	7	0.32	76	0.007	2	0.41	0.004	0.04	0.2	0.08	1.5	0.2	<0.05	<1	0.6	<0.2
1370188	Soil Pulp	13	0.25	54	0.002	<1	0.77	0.028	0.08	<0.1	0.23	3.1	0.1	0.27	2	0.6	<0.2
1370189	Soil Pulp	25	0.48	114	0.005	8	2.72	0.017	0.07	<0.1	0.29	9.1	0.1	0.14	3	<0.5	<0.2
1370190	Soil Pulp	14	0.31	28	0.001	4	0.86	0.003	0.04	<0.1	0.27	6.2	<0.1	0.09	2	0.9	<0.2
1370191	Soil Pulp	13	0.19	60	0.003	<1	0.80	0.002	0.04	<0.1	0.06	4.1	0.1	<0.05	2	0.6	<0.2
1370192	Soil Pulp	21	0.57	46	0.008	1	1.40	0.003	0.04	<0.1	0.24	3.5	<0.1	<0.05	3	<0.5	<0.2
1370193	Soil Pulp	21	0.56	76	0.003	<1	1.49	0.003	0.05	<0.1	0.31	3.7	0.1	<0.05	3	<0.5	<0.2
1370194	Soil Pulp	16	0.17	64	0.008	1	1.03	0.005	0.07	<0.1	0.04	1.2	0.2	0.06	4	0.7	<0.2
1370195	Soil Pulp	14	0.23	67	0.019	1	1.02	0.004	0.05	<0.1	0.07	2.7	0.1	<0.05	2	0.8	<0.2
1370196	Soil Pulp	14	0.20	48	0.020	1	0.76	0.003	0.04	<0.1	0.10	2.7	0.2	<0.05	2	0.6	<0.2
1370197	Soil Pulp	13	0.18	59	0.008	2	0.88	0.002	0.03	<0.1	0.04	2.8	0.1	<0.05	2	<0.5	<0.2
1370198	Soil Pulp	14	0.20	31	0.009	2	0.87	0.002	0.03	<0.1	0.02	1.1	0.1	<0.05	3	<0.5	<0.2
1370199	Soil Pulp	15	0.16	41	0.010	1	0.74	0.003	0.04	0.1	0.06	0.7	0.1	0.07	3	0.5	<0.2
1370200	Soil Pulp	18	0.19	46	0.012	1	1.19	0.002	0.05	0.1	0.04	0.5	0.2	<0.05	5	0.5	<0.2
1370451	Soil Pulp	16	0.46	20	0.001	<1	1.14	0.002	0.03	<0.1	0.08	1.6	<0.1	<0.05	3	<0.5	<0.2
1370452	Soil Pulp	18	0.54	24	0.002	<1	1.22	0.003	0.03	<0.1	0.12	2.4	0.1	<0.05	3	<0.5	<0.2
1370453	Soil Pulp	19	0.59	16	<0.001	1	1.15	0.002	0.03	<0.1	0.16	2.9	<0.1	0.16	3	<0.5	<0.2
1370454	Soil Pulp	10	0.88	28	<0.001	1	0.72	0.004	0.05	0.2	0.08	1.4	0.1	0.08	2	<0.5	<0.2
1370455	Soil Pulp	11	0.34	312	0.004	3	0.81	0.004	0.07	1.3	0.11	1.6	0.2	0.13	2	0.6	<0.2
1370456	Soil Pulp	2	4.95	43	0.003	3	0.21	0.006	0.04	0.3	0.08	1.0	0.2	0.10	<1	<0.5	<0.2
1370457	Soil Pulp	10	0.22	53	0.002	1	0.69	0.003	0.07	0.1	0.07	2.0	0.3	0.10	2	<0.5	<0.2
1370458	Soil Pulp	16	0.37	62	0.002	<1	1.10	0.003	0.04	<0.1	0.05	1.7	0.4	<0.05	3	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
1370459	Soil Pulp	0.9	43.8	36.7	95	<0.1	35.1	25.0	1354	4.23	9.4	2.8	6.0	6	0.1	0.5	0.4	20	0.04	0.060
1370460	Soil Pulp	1.0	43.4	51.7	113	<0.1	33.3	27.6	1415	4.40	24.7	5.6	6.3	6	0.1	1.5	0.4	20	0.04	0.067
1370461	Soil Pulp	0.9	65.0	54.1	107	0.1	41.4	47.5	1749	4.55	8.9	1.5	10.6	8	0.1	0.4	0.5	20	0.05	0.050
1370462	Soil Pulp	1.0	96.6	66.8	122	0.1	53.3	81.5	1841	4.89	9.7	1.7	8.6	10	0.1	0.5	0.4	22	0.06	0.053
1370463	Soil Pulp	0.6	36.2	28.5	100	<0.1	32.4	16.6	649	4.26	12.1	3.1	6.1	8	0.1	0.6	0.3	18	0.09	0.046
1370464	Soil Pulp	0.8	27.2	27.2	95	0.1	26.5	15.5	763	3.86	5.7	1.4	2.7	17	0.1	0.4	0.4	19	0.15	0.093
1370466	Soil Pulp	0.7	36.0	34.8	92	<0.1	33.4	13.3	316	4.19	9.0	2.3	4.8	8	<0.1	0.5	0.4	20	0.08	0.063
1370467	Soil Pulp	0.6	41.7	33.4	96	0.1	26.6	15.2	700	4.02	10.2	4.1	3.4	11	<0.1	0.6	0.4	20	0.21	0.116
1370468	Soil Pulp	0.6	48.8	37.3	103	<0.1	41.0	25.1	990	4.79	6.0	1.6	8.8	6	<0.1	0.4	0.4	17	0.05	0.036
1370469	Soil Pulp	0.5	34.3	49.7	160	0.2	26.3	11.2	544	4.28	44.4	27.3	2.8	22	0.2	2.7	0.3	16	1.05	0.096
1370470	Soil Pulp	0.5	20.8	56.4	221	0.2	23.8	11.1	1098	4.01	50.4	34.6	1.7	25	0.4	3.8	0.3	9	2.55	0.109
1370471	Soil Pulp	0.8	12.2	55.2	263	0.1	12.5	5.2	1752	3.34	74.5	62.1	0.2	18	0.9	5.1	0.2	16	2.45	0.137
1370472	Soil Pulp	0.3	7.0	26.9	162	0.1	8.0	2.7	1100	2.20	41.0	26.4	0.5	36	0.3	4.7	<0.1	4	10.03	0.069
1370473	Soil Pulp	0.4	8.5	32.7	210	<0.1	7.5	3.3	2194	3.22	46.8	75.0	0.2	35	0.7	4.0	0.1	7	9.11	0.098
1370474	Soil Pulp	0.5	25.8	37.8	154	0.3	28.0	9.7	433	3.88	22.3	5.8	2.6	65	0.2	1.4	0.3	10	1.53	0.095
1370475	Soil Pulp	0.6	18.9	25.9	76	0.1	21.3	8.0	251	3.49	9.8	1.1	3.0	29	<0.1	0.4	0.4	15	0.54	0.076
1370601	Soil Pulp	1.5	32.9	38.2	162	<0.1	53.4	17.9	558	5.18	14.3	1.7	2.4	20	0.2	1.0	0.3	28	0.14	0.147
1370602	Soil Pulp	1.5	25.6	9.2	80	<0.1	19.9	6.4	356	2.92	6.9	0.6	1.6	4	0.1	0.6	0.3	30	0.02	0.052
1370603	Soil Pulp	1.8	21.5	11.9	85	<0.1	20.9	8.6	523	3.26	11.0	4.3	1.5	8	0.2	0.8	0.3	38	0.72	0.056
1370604	Soil Pulp	1.6	22.1	14.7	78	<0.1	21.2	8.1	354	2.95	19.3	1.1	1.1	7	0.1	0.9	0.3	31	0.05	0.067
1370605	Soil Pulp	1.9	34.3	30.2	137	0.2	45.9	10.6	154	4.77	116.6	<0.5	0.3	27	0.2	1.5	0.3	32	0.04	0.150
1371127	Soil Pulp	1.0	29.1	49.5	148	0.4	37.1	15.7	569	6.29	23.6	1.5	3.8	42	0.2	0.8	0.5	13	0.37	0.104
1371128	Soil Pulp	1.0	37.6	54.3	151	0.5	39.2	17.9	1104	5.66	47.7	10.7	2.7	60	0.3	3.9	0.4	16	0.65	0.094
1371129	Soil Pulp	0.6	30.8	30.5	98	0.3	32.1	13.4	360	4.09	13.2	0.9	6.7	27	<0.1	0.6	0.4	9	0.23	0.066
1371130	Soil Pulp	1.0	48.5	46.7	137	0.4	52.3	21.9	425	5.71	33.9	1.3	4.5	65	0.2	1.3	0.6	7	0.54	0.060
1371131	Soil Pulp	0.8	51.0	46.5	134	0.5	43.6	26.1	676	5.31	15.5	<0.5	7.1	37	0.1	0.6	0.6	14	0.31	0.056
1371132	Soil Pulp	1.3	53.9	54.7	127	0.3	47.9	28.1	1051	6.98	19.1	1.3	4.5	28	0.2	0.9	0.6	20	0.17	0.098
1371133	Soil Pulp	0.8	27.5	34.8	71	0.1	23.3	8.3	185	3.76	25.8	<0.5	2.4	21	<0.1	0.9	0.4	9	0.06	0.075
1371135	Soil Pulp	0.6	19.5	21.3	68	0.2	19.0	10.5	687	3.30	11.2	<0.5	0.9	57	0.2	0.8	0.3	13	1.03	0.077
1371136	Soil Pulp	0.6	34.2	27.7	77	0.3	25.5	14.8	500	4.23	25.0	1.6	4.5	22	<0.1	1.2	0.4	8	0.33	0.066



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
1370459	Soil Pulp	25	0.66	42	0.004	<1	2.00	0.003	0.04	<0.1	0.04	1.3	<0.1	<0.05	6	<0.5	<0.2
1370460	Soil Pulp	24	0.60	34	0.004	<1	1.88	0.003	0.04	0.1	0.05	1.4	<0.1	<0.05	6	<0.5	<0.2
1370461	Soil Pulp	28	0.77	34	0.004	<1	2.13	0.005	0.04	<0.1	0.07	1.9	<0.1	<0.05	6	<0.5	<0.2
1370462	Soil Pulp	29	0.73	53	0.002	<1	2.36	0.005	0.05	<0.1	0.05	2.2	0.1	<0.05	7	<0.5	<0.2
1370463	Soil Pulp	24	0.63	44	0.002	<1	1.90	0.003	0.04	<0.1	0.06	1.4	<0.1	0.05	5	<0.5	<0.2
1370464	Soil Pulp	22	0.47	43	0.003	1	1.69	0.005	0.06	<0.1	0.04	1.1	<0.1	0.10	5	<0.5	<0.2
1370466	Soil Pulp	27	0.71	42	0.003	<1	2.17	0.005	0.05	<0.1	0.03	1.5	<0.1	0.05	6	<0.5	<0.2
1370467	Soil Pulp	23	0.50	65	0.002	<1	1.91	0.005	0.05	<0.1	0.05	1.4	0.1	0.09	6	<0.5	<0.2
1370468	Soil Pulp	28	0.80	25	0.002	<1	2.19	0.003	0.03	<0.1	0.04	1.5	<0.1	<0.05	7	<0.5	<0.2
1370469	Soil Pulp	17	0.52	80	0.002	2	1.31	0.004	0.05	0.2	0.08	1.7	0.1	0.14	4	<0.5	<0.2
1370470	Soil Pulp	7	1.21	70	0.002	2	0.55	0.003	0.05	0.4	0.12	1.3	0.2	0.13	1	<0.5	<0.2
1370471	Soil Pulp	11	0.61	131	0.009	4	0.66	0.007	0.04	0.3	0.14	0.6	0.2	0.43	2	0.8	<0.2
1370472	Soil Pulp	3	4.96	58	0.002	3	0.17	0.006	0.03	<0.1	0.08	0.5	0.2	0.12	<1	<0.5	<0.2
1370473	Soil Pulp	6	5.06	60	0.003	4	0.31	0.008	0.02	<0.1	0.17	0.5	<0.1	0.07	<1	0.8	<0.2
1370474	Soil Pulp	11	0.52	67	0.002	2	0.75	0.004	0.06	<0.1	0.12	1.5	0.1	0.16	2	0.6	<0.2
1370475	Soil Pulp	13	0.34	67	0.001	<1	1.21	0.003	0.03	<0.1	0.05	1.2	<0.1	0.08	3	<0.5	<0.2
1370601	Soil Pulp	16	0.23	59	0.011	<1	1.40	0.004	0.04	<0.1	0.07	1.5	0.2	<0.05	3	0.7	<0.2
1370602	Soil Pulp	17	0.25	40	0.006	<1	1.17	0.003	0.04	<0.1	0.04	0.9	0.1	<0.05	4	<0.5	<0.2
1370603	Soil Pulp	21	0.71	52	0.012	1	1.29	0.004	0.05	<0.1	0.05	1.0	0.1	0.08	4	0.6	<0.2
1370604	Soil Pulp	14	0.16	54	0.010	1	0.82	0.003	0.04	0.1	0.05	1.0	0.1	0.06	3	0.5	<0.2
1370605	Soil Pulp	15	0.05	41	0.004	<1	0.79	0.003	0.05	<0.1	0.10	0.4	0.1	0.11	4	0.7	<0.2
1371127	Soil Pulp	10	0.10	41	0.002	<1	0.69	0.003	0.04	<0.1	0.16	3.0	0.1	0.07	2	0.6	<0.2
1371128	Soil Pulp	14	0.28	57	0.004	2	0.93	0.003	0.05	0.2	0.30	2.8	0.1	0.09	2	0.8	<0.2
1371129	Soil Pulp	11	0.22	21	0.002	<1	0.74	0.002	0.03	<0.1	0.10	2.1	<0.1	<0.05	2	<0.5	<0.2
1371130	Soil Pulp	6	0.08	29	0.002	3	0.42	0.002	0.02	<0.1	0.34	3.8	0.1	0.09	<1	1.2	<0.2
1371131	Soil Pulp	19	0.39	25	0.002	3	1.17	0.002	0.04	<0.1	0.10	3.8	<0.1	<0.05	3	<0.5	<0.2
1371132	Soil Pulp	18	0.21	47	0.004	3	1.10	0.002	0.04	<0.1	0.07	3.3	<0.1	<0.05	3	0.8	<0.2
1371133	Soil Pulp	9	0.09	33	0.002	3	0.55	0.004	0.03	<0.1	0.03	1.1	<0.1	<0.05	1	<0.5	<0.2
1371135	Soil Pulp	8	0.10	47	0.004	3	0.51	0.002	0.02	<0.1	0.04	1.7	<0.1	0.08	1	<0.5	<0.2
1371136	Soil Pulp	7	0.09	26	0.003	2	0.40	0.002	0.03	<0.1	0.07	3.6	<0.1	<0.05	<1	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		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
1371137	Soil Pulp	1.0	31.8	29.5	73	0.4	24.7	17.0	692	3.83	15.2	0.8	1.3	81	<0.1	1.1	0.4	14	0.98	0.121	8
1371138	Soil Pulp	0.9	30.9	27.2	86	<0.1	28.5	14.0	312	4.09	15.3	<0.5	4.3	13	0.1	0.8	0.4	17	0.12	0.048	23
1371139	Soil Pulp	2.0	17.6	14.4	60	<0.1	13.2	5.8	245	2.35	9.5	0.8	0.7	8	0.1	0.9	0.3	44	0.05	0.048	19
1371140	Soil Pulp	1.9	25.2	19.8	73	<0.1	21.1	9.1	201	3.32	15.6	1.1	1.5	7	0.1	1.1	0.3	41	0.02	0.049	17
1371141	Soil Pulp	1.7	28.0	20.6	84	0.2	21.7	11.0	363	3.63	15.8	1.0	0.6	7	0.2	1.2	0.3	28	0.03	0.073	18
1371142	Soil Pulp	1.4	29.4	28.4	102	0.1	27.5	14.2	968	3.81	15.8	0.9	0.6	11	0.2	1.3	0.4	15	0.25	0.114	15
1371143	Soil Pulp	1.0	27.2	23.3	89	0.1	25.8	11.5	362	3.70	19.9	0.7	1.1	12	0.2	1.4	0.3	23	0.07	0.079	18
1371144	Soil Pulp	1.0	26.9	23.2	78	0.1	22.5	11.8	422	3.69	18.5	0.7	0.4	7	0.1	1.4	0.3	21	0.02	0.082	16
1371145	Soil Pulp	1.0	24.8	20.7	71	0.1	16.2	9.1	353	2.74	19.4	<0.5	0.2	7	0.2	2.5	0.3	18	0.03	0.077	14
1371146	Soil Pulp	1.1	26.5	40.0	86	0.1	22.7	18.0	1075	4.12	18.7	<0.5	0.7	6	0.3	1.5	0.4	19	0.03	0.083	11
1371147	Soil Pulp	1.1	28.9	27.1	88	0.1	24.1	11.7	433	3.58	21.5	<0.5	0.4	15	0.2	2.0	0.4	21	0.16	0.080	13
1371148	Soil Pulp	0.8	24.0	21.5	72	0.2	19.3	9.3	250	2.92	17.1	<0.5	0.4	5	0.1	2.2	0.3	15	0.02	0.063	15
1371149	Soil Pulp	0.8	22.7	22.8	78	<0.1	21.8	9.6	320	3.18	17.5	<0.5	1.3	6	<0.1	1.8	0.3	15	0.02	0.048	19
1371150	Soil Pulp	1.0	26.0	19.7	74	0.2	22.5	10.0	248	3.25	16.8	<0.5	0.9	5	0.1	1.7	0.3	19	0.01	0.045	19
1371151	Soil Pulp	1.1	25.8	36.2	104	0.2	28.0	10.7	282	3.86	20.5	<0.5	0.7	19	0.2	2.1	0.4	11	0.14	0.091	10
1371152	Soil Pulp	0.7	35.0	33.8	103	0.4	33.3	13.4	374	4.18	18.1	3.9	5.2	24	0.1	1.7	0.4	16	0.20	0.064	17
1371153	Soil Pulp	1.1	28.0	32.4	98	0.2	28.0	11.2	260	3.84	23.8	2.4	0.9	8	<0.1	3.9	0.4	16	0.01	0.082	18
1371154	Soil Pulp	0.8	39.3	34.0	114	0.2	34.6	17.3	593	4.47	30.2	1.4	7.1	23	0.2	2.5	0.4	14	0.17	0.066	26
1371155	Soil Pulp	1.1	29.3	26.2	86	0.1	27.7	12.6	462	3.77	24.5	2.3	1.0	15	0.2	2.2	0.3	22	0.14	0.076	16
1371156	Soil Pulp	0.8	30.4	29.9	86	0.2	31.4	15.2	321	3.76	19.4	4.4	3.9	26	<0.1	1.9	0.4	17	0.24	0.061	20
1371157	Soil Pulp	1.3	25.5	24.3	80	0.1	18.7	12.8	570	3.29	12.5	1.0	1.0	30	0.2	1.2	0.4	22	0.29	0.102	15
1371158	Soil Pulp	1.6	19.8	25.8	75	<0.1	19.1	8.6	476	3.38	14.0	1.1	0.7	11	0.2	1.2	0.4	36	0.10	0.060	17
1371159	Soil Pulp	1.4	24.9	19.0	86	0.1	22.7	11.0	370	3.58	14.9	2.0	0.5	8	0.2	1.3	0.3	32	0.04	0.070	17
1371160	Soil Pulp	1.0	26.7	24.8	79	0.3	25.0	11.8	393	3.38	13.2	1.7	1.0	8	0.2	1.0	0.3	19	0.06	0.082	18
1371161	Soil Pulp	0.9	18.7	22.9	84	0.1	17.9	8.8	330	3.38	12.5	1.3	0.5	13	0.2	1.5	0.3	24	0.17	0.094	15
1371162	Soil Pulp	0.9	27.5	44.4	86	0.3	30.4	16.7	813	5.00	16.6	1.2	2.5	40	0.1	1.1	0.4	15	0.59	0.109	22
1371163	Soil Pulp	0.9	25.9	36.8	95	0.2	26.5	12.5	547	4.28	15.7	1.6	2.6	18	0.1	1.3	0.4	20	0.25	0.075	20
1371165	Soil Pulp	0.8	27.5	39.4	112	0.3	23.9	14.1	604	4.95	15.4	1.6	5.3	7	0.2	0.9	0.5	20	0.03	0.061	25
1371166	Soil Pulp	0.6	21.3	39.7	123	0.2	22.6	8.5	323	4.07	20.1	1.7	4.4	29	0.1	0.9	0.5	14	0.49	0.093	22
1371167	Soil Pulp	0.6	28.0	34.5	117	0.2	26.9	10.9	456	3.88	24.8	1.1	3.4	36	0.2	1.6	0.4	13	0.63	0.096	19



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
1371137	Soil Pulp	13	0.14	88	0.004	2	0.85	0.004	0.05	<0.1	0.08	2.2	<0.1	0.14	2	<0.5	<0.2
1371138	Soil Pulp	13	0.15	45	0.004	2	0.73	0.002	0.04	<0.1	0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
1371139	Soil Pulp	13	0.05	60	0.010	2	0.57	0.002	0.05	0.1	<0.01	0.6	<0.1	<0.05	4	<0.5	<0.2
1371140	Soil Pulp	17	0.12	48	0.005	1	0.95	0.002	0.04	0.1	0.03	1.0	0.1	<0.05	4	<0.5	<0.2
1371141	Soil Pulp	17	0.12	44	0.005	2	0.91	0.002	0.04	<0.1	0.03	0.6	0.1	<0.05	4	<0.5	<0.2
1371142	Soil Pulp	12	0.05	63	0.002	2	0.44	0.003	0.05	<0.1	0.02	1.1	<0.1	0.05	2	<0.5	<0.2
1371143	Soil Pulp	14	0.15	66	0.004	2	0.89	0.002	0.04	<0.1	0.01	1.0	<0.1	<0.05	3	<0.5	<0.2
1371144	Soil Pulp	14	0.11	41	0.003	1	0.70	0.002	0.03	<0.1	0.03	0.4	<0.1	<0.05	3	<0.5	<0.2
1371145	Soil Pulp	8	0.03	37	0.002	2	0.36	0.002	0.04	<0.1	0.03	0.2	<0.1	<0.05	2	<0.5	<0.2
1371146	Soil Pulp	16	0.12	58	0.003	1	0.76	0.002	0.03	<0.1	0.03	0.5	<0.1	<0.05	3	<0.5	<0.2
1371147	Soil Pulp	12	0.10	54	0.003	2	0.61	0.002	0.03	<0.1	0.03	0.4	<0.1	<0.05	3	<0.5	<0.2
1371148	Soil Pulp	9	0.06	30	0.003	2	0.47	0.002	0.03	<0.1	0.02	0.3	<0.1	<0.05	2	<0.5	<0.2
1371149	Soil Pulp	10	0.11	32	0.004	2	0.59	0.001	0.03	<0.1	0.01	0.8	<0.1	<0.05	2	<0.5	<0.2
1371150	Soil Pulp	9	0.06	25	0.004	2	0.43	0.002	0.03	<0.1	0.02	0.7	<0.1	<0.05	2	<0.5	<0.2
1371151	Soil Pulp	7	0.03	38	0.002	2	0.37	0.003	0.04	<0.1	0.04	1.0	0.1	<0.05	1	0.5	<0.2
1371152	Soil Pulp	14	0.26	57	0.007	1	0.89	0.004	0.04	<0.1	0.10	2.8	<0.1	<0.05	2	<0.5	<0.2
1371153	Soil Pulp	5	0.03	25	0.003	2	0.42	0.002	0.03	<0.1	0.02	0.9	<0.1	<0.05	2	<0.5	<0.2
1371154	Soil Pulp	10	0.13	43	0.007	1	0.47	0.002	0.03	<0.1	0.05	3.5	<0.1	<0.05	1	<0.5	<0.2
1371155	Soil Pulp	14	0.14	46	0.007	1	0.59	0.002	0.03	<0.1	0.05	1.2	<0.1	<0.05	2	<0.5	<0.2
1371156	Soil Pulp	13	0.21	47	0.006	2	0.73	0.003	0.03	<0.1	0.04	2.5	<0.1	<0.05	2	<0.5	<0.2
1371157	Soil Pulp	12	0.12	59	0.005	2	0.68	0.002	0.04	<0.1	0.03	1.2	<0.1	0.06	3	<0.5	<0.2
1371158	Soil Pulp	17	0.16	84	0.009	1	0.97	0.002	0.04	0.1	0.03	1.0	0.1	<0.05	4	0.6	<0.2
1371159	Soil Pulp	19	0.19	46	0.008	2	0.89	0.003	0.05	<0.1	0.02	0.7	<0.1	<0.05	4	<0.5	<0.2
1371160	Soil Pulp	13	0.17	47	0.003	1	0.91	0.003	0.04	<0.1	0.03	0.8	<0.1	<0.05	2	<0.5	<0.2
1371161	Soil Pulp	14	0.15	93	0.004	1	0.94	0.002	0.04	<0.1	0.02	0.6	<0.1	<0.05	3	<0.5	<0.2
1371162	Soil Pulp	13	0.16	58	0.003	2	0.89	0.003	0.04	<0.1	0.07	3.4	<0.1	0.07	2	0.6	<0.2
1371163	Soil Pulp	15	0.19	70	0.004	4	0.90	0.002	0.04	<0.1	0.05	2.2	<0.1	<0.05	2	0.5	<0.2
1371165	Soil Pulp	16	0.18	44	0.003	1	1.04	0.002	0.05	<0.1	0.05	1.6	0.1	<0.05	3	<0.5	<0.2
1371166	Soil Pulp	11	0.22	57	0.002	1	0.87	0.002	0.04	<0.1	0.10	2.8	0.1	<0.05	2	<0.5	<0.2
1371167	Soil Pulp	10	0.19	55	0.003	<1	0.68	0.002	0.04	<0.1	0.12	2.5	<0.1	0.05	2	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		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
1372835	Soil Pulp	0.8	20.3	153.4	334	0.2	17.9	7.6	754	1.89	35.1	1.3	0.5	218	1.7	3.1	0.2	17	6.43	0.238
1372836	Soil Pulp	2.2	39.1	235.3	817	0.3	42.9	22.5	3123	8.17	56.9	2.3	2.4	105	3.1	4.7	0.6	67	3.71	0.245
1372837	Soil Pulp	0.6	16.7	23.6	84	<0.1	16.6	6.7	167	2.47	9.8	0.9	2.5	28	0.2	0.4	0.3	14	0.42	0.047
1372838	Soil Pulp	0.8	16.4	20.4	61	<0.1	15.4	6.3	131	2.70	11.5	<0.5	2.8	7	<0.1	0.6	0.3	25	0.02	0.039
1372839	Soil Pulp	1.2	17.9	20.5	73	0.2	18.9	8.2	250	2.93	11.6	0.6	1.0	19	0.1	0.7	0.4	32	0.28	0.045
1372840	Soil Pulp	1.2	20.1	22.5	67	<0.1	17.4	11.2	518	2.90	9.9	0.7	0.8	8	<0.1	0.8	0.3	34	0.04	0.058
1372841	Soil Pulp	0.7	29.9	25.9	93	<0.1	34.7	14.9	317	3.94	15.8	1.4	5.3	28	0.2	1.0	0.4	22	0.28	0.058
1372842	Soil Pulp	0.8	29.8	26.5	93	0.2	31.6	11.6	281	3.51	18.8	1.8	2.1	70	0.2	1.6	0.4	25	0.94	0.090
1372843	Soil Pulp	0.8	26.1	39.6	137	0.2	25.9	13.0	446	4.38	17.6	0.8	1.9	7	0.4	1.9	0.4	20	0.05	0.075
1372844	Soil Pulp	1.1	25.1	29.2	88	0.1	21.1	10.4	443	3.75	12.0	0.9	1.1	7	0.2	1.2	0.4	23	0.04	0.093
1372845	Soil Pulp	1.0	30.8	30.9	100	0.1	29.6	15.2	375	3.76	14.2	0.6	2.8	46	0.2	1.4	0.4	23	0.29	0.079
1372846	Soil Pulp	1.3	16.1	19.3	101	0.1	17.1	6.9	450	2.92	9.7	<0.5	0.3	31	0.2	1.0	0.4	41	0.29	0.079
1372847	Soil Pulp	1.1	16.2	22.0	98	<0.1	20.6	9.2	299	3.80	16.8	0.7	4.4	9	0.1	1.0	0.4	33	0.05	0.050
1372848	Soil Pulp	1.0	25.7	26.4	93	0.3	24.4	11.7	252	4.10	17.9	1.1	1.1	10	0.3	1.1	0.4	22	0.08	0.057
1372849	Soil Pulp	0.9	31.5	34.4	125	0.2	32.6	14.0	397	3.96	26.2	6.2	3.0	37	0.2	1.1	0.4	17	0.60	0.085
1372850	Soil Pulp	0.6	34.0	39.2	133	0.2	35.8	16.8	512	4.28	28.1	2.4	5.6	32	0.1	1.8	0.4	13	0.37	0.049
1372851	Soil Pulp	0.9	45.7	49.3	135	0.5	47.0	23.9	714	5.16	21.1	1.3	4.4	50	0.2	1.0	0.5	20	0.61	0.095
1372852	Soil Pulp	1.0	29.1	33.8	99	0.3	30.2	13.7	445	4.27	15.7	1.1	3.0	34	0.1	0.9	0.5	22	0.59	0.109
1372853	Soil Pulp	0.6	37.6	36.2	97	0.2	32.7	17.0	375	4.35	9.9	1.1	3.8	63	0.1	0.5	0.5	10	0.67	0.063
1372854	Soil Pulp	0.5	41.4	37.5	99	0.3	34.2	16.3	384	4.48	9.4	1.6	5.2	36	0.1	0.5	0.5	13	0.37	0.048
1372855	Soil Pulp	1.1	51.6	70.4	106	0.3	33.0	36.2	1643	4.67	15.4	1.0	4.9	30	0.2	0.7	0.6	20	0.31	0.110
1372856	Soil Pulp	0.6	47.6	47.6	111	0.3	41.4	28.1	844	4.54	13.8	0.7	11.3	32	0.1	0.6	0.6	11	0.20	0.060
1372857	Soil Pulp	1.0	37.4	53.1	119	0.3	37.6	19.9	722	5.19	13.8	1.1	6.9	13	0.1	1.0	0.6	16	0.02	0.082
1372858	Soil Pulp	0.5	46.7	39.8	105	0.1	43.6	20.7	959	5.21	12.5	0.6	13.3	31	0.1	0.4	0.5	9	0.10	0.075
1372859	Soil Pulp	0.7	36.6	49.7	122	0.2	40.3	21.9	1049	4.60	11.0	0.8	4.1	26	0.3	0.7	0.5	9	0.26	0.087
1372860	Soil Pulp	0.8	30.7	38.2	92	0.1	27.9	13.8	466	3.68	26.0	1.4	7.6	19	0.1	1.6	0.4	9	0.05	0.056
1372861	Soil Pulp	0.8	42.1	68.5	121	0.5	41.8	20.0	819	5.06	22.2	3.6	4.3	19	0.2	2.0	0.5	13	0.14	0.069
1372862	Soil Pulp	0.6	35.3	50.0	89	0.2	29.2	15.3	452	4.00	17.0	0.9	5.8	18	0.1	0.7	0.5	5	0.10	0.074
1372863	Soil Pulp	0.6	39.3	52.7	105	0.2	33.0	13.8	255	4.99	10.7	0.5	11.8	36	<0.1	0.5	0.5	7	0.20	0.063
1372864	Soil Pulp	0.6	32.8	57.9	73	0.2	25.9	11.8	356	3.65	23.8	1.1	5.7	42	<0.1	1.4	0.4	5	0.08	0.066



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
1372835	Soil Pulp	12	0.50	104	0.002	5	0.86	0.006	0.05	0.1	0.28	0.8	0.2	0.21	2	0.8	<0.2
1372836	Soil Pulp	39	1.39	257	0.012	3	2.40	0.007	0.08	0.2	0.31	3.3	0.2	0.16	6	1.5	<0.2
1372837	Soil Pulp	8	0.10	52	0.004	1	0.48	0.001	0.03	<0.1	0.02	0.9	<0.1	0.06	2	<0.5	<0.2
1372838	Soil Pulp	10	0.06	29	0.010	<1	0.52	0.002	0.04	<0.1	0.02	0.8	0.1	<0.05	3	<0.5	<0.2
1372839	Soil Pulp	16	0.14	90	0.006	1	0.95	0.002	0.05	<0.1	0.04	0.9	0.1	<0.05	4	<0.5	<0.2
1372840	Soil Pulp	17	0.12	66	0.005	2	1.02	0.002	0.04	<0.1	0.02	0.8	0.1	<0.05	4	<0.5	<0.2
1372841	Soil Pulp	19	0.33	56	0.006	1	1.11	0.003	0.04	<0.1	0.04	2.6	<0.1	<0.05	3	<0.5	<0.2
1372842	Soil Pulp	17	0.27	80	0.007	2	1.05	0.004	0.04	0.1	0.08	2.5	<0.1	0.07	3	0.7	<0.2
1372843	Soil Pulp	19	0.23	44	0.004	1	1.21	0.002	0.04	<0.1	0.05	1.2	<0.1	<0.05	3	<0.5	<0.2
1372844	Soil Pulp	19	0.21	44	0.004	1	1.17	0.002	0.05	<0.1	0.05	0.6	<0.1	<0.05	3	<0.5	<0.2
1372845	Soil Pulp	18	0.29	55	0.006	1	1.09	0.003	0.05	<0.1	0.04	1.6	0.1	<0.05	3	<0.5	<0.2
1372846	Soil Pulp	20	0.23	99	0.006	<1	1.20	0.003	0.06	<0.1	0.03	0.5	0.1	<0.05	5	<0.5	<0.2
1372847	Soil Pulp	20	0.24	90	0.007	<1	1.48	0.002	0.04	0.1	0.03	1.8	0.1	<0.05	4	<0.5	<0.2
1372848	Soil Pulp	17	0.17	51	0.005	1	0.93	0.002	0.04	<0.1	0.03	0.9	<0.1	<0.05	3	<0.5	<0.2
1372849	Soil Pulp	15	0.22	68	0.004	1	1.01	0.003	0.05	<0.1	0.11	2.4	<0.1	<0.05	2	0.5	<0.2
1372850	Soil Pulp	16	0.27	53	0.002	<1	1.02	0.002	0.05	<0.1	0.14	2.7	<0.1	<0.05	3	<0.5	<0.2
1372851	Soil Pulp	17	0.25	77	0.005	1	1.17	0.004	0.05	<0.1	0.24	4.5	<0.1	<0.05	3	0.6	<0.2
1372852	Soil Pulp	18	0.33	70	0.006	<1	1.14	0.003	0.05	<0.1	0.07	3.0	<0.1	0.06	3	<0.5	<0.2
1372853	Soil Pulp	13	0.21	28	0.002	2	0.86	0.002	0.04	<0.1	0.07	2.6	<0.1	0.05	2	<0.5	<0.2
1372854	Soil Pulp	17	0.34	36	0.002	1	1.13	0.002	0.04	<0.1	0.10	2.7	<0.1	<0.05	3	<0.5	<0.2
1372855	Soil Pulp	24	0.42	48	0.005	1	1.52	0.003	0.06	<0.1	0.06	3.0	<0.1	<0.05	4	0.7	<0.2
1372856	Soil Pulp	15	0.31	24	0.002	1	0.95	0.002	0.04	<0.1	0.07	3.1	<0.1	<0.05	2	<0.5	<0.2
1372857	Soil Pulp	16	0.22	47	0.004	1	1.08	0.003	0.04	<0.1	0.09	2.2	0.1	<0.05	3	<0.5	<0.2
1372858	Soil Pulp	12	0.30	28	0.002	<1	0.89	0.004	0.03	<0.1	0.08	2.7	<0.1	<0.05	2	<0.5	<0.2
1372859	Soil Pulp	9	0.14	49	0.003	1	0.68	0.003	0.05	<0.1	0.11	2.9	<0.1	<0.05	2	0.7	<0.2
1372860	Soil Pulp	7	0.09	35	0.004	<1	0.50	0.004	0.04	<0.1	0.07	1.8	<0.1	<0.05	1	<0.5	<0.2
1372861	Soil Pulp	12	0.17	44	0.004	1	0.89	0.002	0.04	<0.1	0.19	3.5	<0.1	<0.05	2	0.6	<0.2
1372862	Soil Pulp	4	0.05	30	0.001	<1	0.31	0.003	0.05	<0.1	0.09	1.9	0.1	<0.05	<1	<0.5	<0.2
1372863	Soil Pulp	14	0.18	25	<0.001	<1	0.81	0.004	0.04	<0.1	0.18	2.5	<0.1	<0.05	2	<0.5	<0.2
1372864	Soil Pulp	5	0.05	54	0.001	<1	0.33	0.004	0.04	<0.1	0.10	1.8	0.1	0.05	<1	<0.5	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		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
1370184	Soil Pulp	0.7	23.5	33.5	124	0.2	23.4	9.4	449	3.69	13.9	0.8	2.8	50	0.3	0.8	0.4	15	0.81	0.109	20
1371134	Soil Pulp	0.7	34.4	40.2	87	0.2	33.0	15.5	451	3.41	35.5	1.0	7.2	36	0.1	2.0	0.4	7	0.05	0.062	31
1185563	Soil Pulp	1.3	22.4	31.4	82	0.2	20.1	9.3	414	4.11	11.7	1.1	1.2	9	0.2	0.9	0.4	33	0.04	0.068	19



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
1370184	Soil Pulp	12	0.18	75	0.004	1	0.86	0.003	0.04	<0.1	0.11	2.3	<0.1	0.06	2	<0.5	<0.2
1371134	Soil Pulp	7	0.07	31	0.002	<1	0.52	0.002	0.03	<0.1	0.05	1.8	<0.1	<0.05	<1	<0.5	<0.2
1185563	Soil Pulp	18	0.17	49	0.011	1	1.03	0.003	0.05	<0.1	0.05	1.0	<0.1	<0.05	4	0.6	<0.2



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		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	0.1	2	0.01	0.001
Pulp Duplicates																					
1183900	Soil Pulp	0.7	28.3	65.6	450	0.3	22.7	10.7	1294	3.79	14.7	2.7	0.9	43	1.1	1.8	0.2	22	3.38	0.146	16
REP 1183900	QC	0.9	27.8	67.0	447	0.3	23.1	10.9	1268	3.74	15.0	2.3	0.9	45	0.9	1.7	0.3	22	3.47	0.146	16
1183907	Soil Pulp	0.5	20.5	32.2	121	<0.1	25.0	14.6	448	4.85	45.8	26.9	6.4	11	<0.1	1.9	0.4	13	0.09	0.077	22
REP 1183907	QC	0.5	22.0	33.7	126	0.1	24.5	15.1	449	4.98	47.9	9.6	6.7	11	<0.1	1.9	0.4	13	0.08	0.081	22
1185542	Soil Pulp	1.1	19.5	27.4	115	0.1	21.3	10.8	490	4.48	21.3	1.8	1.1	8	0.2	1.0	0.3	29	0.14	0.050	17
REP 1185542	QC	1.0	20.0	28.4	112	<0.1	22.1	11.5	489	4.52	21.8	1.6	1.2	8	0.3	0.9	0.3	29	0.15	0.049	18
1185564	Soil Pulp	1.4	67.1	55.0	119	0.1	46.3	22.9	621	8.33	17.3	1.0	8.4	15	<0.1	0.8	0.4	23	0.02	0.095	12
REP 1185564	QC	1.3	67.3	56.9	121	0.1	46.6	21.9	598	8.02	17.2	2.6	8.7	15	<0.1	0.7	0.4	23	0.02	0.101	12
1370164	Soil Pulp	0.6	40.0	36.6	102	<0.1	36.3	26.8	975	4.47	3.1	2.7	7.8	5	<0.1	0.3	0.4	20	0.02	0.056	4
REP 1370164	QC	0.7	41.1	36.6	105	<0.1	36.7	26.8	967	4.45	3.2	3.8	7.8	5	0.1	0.3	0.4	20	0.02	0.055	4
1370186	Soil Pulp	0.8	9.5	113.4	747	<0.1	12.3	3.6	1088	2.03	359.5	29.3	1.0	41	3.1	129.9	0.6	6	13.60	0.058	4
REP 1370186	QC	0.6	8.8	116.4	786	<0.1	12.2	3.5	1171	2.20	389.0	27.3	0.7	44	2.2	137.5	<0.1	6	15.45	0.062	4
1370196	Soil Pulp	1.3	32.9	71.1	284	0.2	37.4	14.0	448	4.12	60.7	2.2	6.7	15	0.5	6.5	0.3	25	0.09	0.061	21
REP 1370196	QC	1.3	32.3	68.8	276	0.2	37.3	13.2	453	3.91	57.7	3.9	6.6	18	0.6	6.6	0.3	25	0.09	0.056	23
1370197	Soil Pulp	1.1	33.9	50.1	125	0.1	36.0	17.2	794	4.93	12.5	2.3	3.6	9	0.2	0.9	0.5	18	0.05	0.069	18
REP 1370197	QC	1.2	33.6	49.2	123	0.1	37.8	17.3	787	4.99	12.5	0.9	3.7	9	0.3	1.0	0.5	18	0.06	0.067	18
1370198	Soil Pulp	1.5	26.5	30.4	94	<0.1	29.1	10.7	285	3.50	15.4	1.9	2.6	7	0.1	1.1	0.4	22	0.03	0.052	16
REP 1370198	QC	1.5	25.3	31.1	95	<0.1	28.6	10.3	287	3.41	15.4	1.6	2.6	7	0.1	1.2	0.4	22	0.03	0.051	16
1370472	Soil Pulp	0.3	7.0	26.9	162	0.1	8.0	2.7	1100	2.20	41.0	26.4	0.5	36	0.3	4.7	<0.1	4	10.03	0.069	5
REP 1370472	QC	0.3	7.1	27.9	155	0.1	7.4	2.5	1133	2.13	40.4	23.9	0.4	36	0.3	4.5	<0.1	4	10.52	0.069	5
1371131	Soil Pulp	0.8	51.0	46.5	134	0.5	43.6	26.1	676	5.31	15.5	<0.5	7.1	37	0.1	0.6	0.6	14	0.31	0.056	20
REP 1371131	QC	0.9	50.3	45.3	135	0.5	43.7	25.9	705	5.34	16.0	0.5	7.0	37	0.1	0.7	0.6	14	0.29	0.055	21
1371151	Soil Pulp	1.1	25.8	36.2	104	0.2	28.0	10.7	282	3.86	20.5	<0.5	0.7	19	0.2	2.1	0.4	11	0.14	0.091	10
REP 1371151	QC	0.8	25.8	35.7	103	0.2	26.7	10.8	281	3.81	21.4	<0.5	0.7	18	0.2	2.0	0.5	11	0.14	0.090	10
1372835	Soil Pulp	0.8	20.3	153.4	334	0.2	17.9	7.6	754	1.89	35.1	1.3	0.5	218	1.7	3.1	0.2	17	6.43	0.238	19
REP 1372835	QC	0.8	21.9	156.4	358	0.2	18.5	7.6	784	1.96	35.6	0.7	0.5	222	1.7	3.4	0.2	18	6.79	0.262	20
1372843	Soil Pulp	0.8	26.1	39.6	137	0.2	25.9	13.0	446	4.38	17.6	0.8	1.9	7	0.4	1.9	0.4	20	0.05	0.075	17
REP 1372843	QC	0.9	25.7	40.1	135	0.2	25.2	13.0	443	4.35	17.3	2.4	1.6	8	0.3	1.9	0.4	20	0.05	0.077	19



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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																	
1183900	Soil Pulp	17	1.64	179	0.006	3	1.09	0.005	0.06	<0.1	0.26	1.5	0.1	0.09	3	1.1	<0.2
REP 1183900	QC	17	1.69	177	0.006	3	1.14	0.006	0.06	<0.1	0.24	1.5	0.1	0.07	3	<0.5	<0.2
1183907	Soil Pulp	17	0.34	39	0.001	<1	1.15	0.002	0.03	<0.1	0.04	1.9	<0.1	<0.05	3	<0.5	<0.2
REP 1183907	QC	17	0.35	41	0.001	<1	1.24	0.002	0.03	0.1	0.06	1.8	<0.1	<0.05	3	<0.5	<0.2
1185542	Soil Pulp	19	0.27	68	0.012	1	1.28	0.003	0.05	0.1	0.01	1.3	<0.1	0.06	4	<0.5	<0.2
REP 1185542	QC	20	0.28	69	0.013	1	1.31	0.003	0.05	<0.1	0.01	1.3	0.1	0.06	4	1.1	<0.2
1185564	Soil Pulp	22	0.34	26	0.017	<1	1.17	0.005	0.03	<0.1	0.02	3.9	0.2	0.10	3	<0.5	<0.2
REP 1185564	QC	21	0.35	27	0.017	<1	1.19	0.005	0.03	<0.1	0.03	3.8	0.1	0.06	3	<0.5	<0.2
1370164	Soil Pulp	30	0.83	25	0.003	1	2.28	0.003	0.03	<0.1	0.02	2.4	<0.1	<0.05	7	0.5	<0.2
REP 1370164	QC	31	0.84	28	0.003	<1	2.29	0.004	0.03	<0.1	0.03	2.4	<0.1	<0.05	7	<0.5	<0.2
1370186	Soil Pulp	12	8.43	54	0.005	2	0.25	0.011	0.02	0.2	0.36	1.4	0.5	<0.05	<1	<0.5	<0.2
REP 1370186	QC	11	9.55	55	0.003	3	0.26	0.011	0.02	0.1	0.35	1.2	0.5	0.05	<1	<0.5	<0.2
1370196	Soil Pulp	14	0.20	48	0.020	1	0.76	0.003	0.04	<0.1	0.10	2.7	0.2	<0.05	2	0.6	<0.2
REP 1370196	QC	14	0.20	49	0.025	2	0.73	0.003	0.04	0.1	0.10	2.5	0.1	<0.05	2	0.7	<0.2
1370197	Soil Pulp	13	0.18	59	0.008	2	0.88	0.002	0.03	<0.1	0.04	2.8	0.1	<0.05	2	<0.5	<0.2
REP 1370197	QC	15	0.18	58	0.006	1	0.87	0.002	0.03	<0.1	0.05	2.7	<0.1	<0.05	2	<0.5	<0.2
1370198	Soil Pulp	14	0.20	31	0.009	2	0.87	0.002	0.03	<0.1	0.02	1.1	0.1	<0.05	3	<0.5	<0.2
REP 1370198	QC	14	0.20	31	0.009	1	0.91	0.006	0.04	<0.1	0.02	1.1	0.1	<0.05	3	<0.5	<0.2
1370472	Soil Pulp	3	4.96	58	0.002	3	0.17	0.006	0.03	<0.1	0.08	0.5	0.2	0.12	<1	<0.5	<0.2
REP 1370472	QC	3	5.17	58	0.002	3	0.17	0.006	0.02	<0.1	0.07	0.5	0.2	0.12	<1	0.6	<0.2
1371131	Soil Pulp	19	0.39	25	0.002	3	1.17	0.002	0.04	<0.1	0.10	3.8	<0.1	<0.05	3	<0.5	<0.2
REP 1371131	QC	20	0.39	25	0.002	3	1.17	0.002	0.04	<0.1	0.11	3.7	<0.1	<0.05	3	<0.5	<0.2
1371151	Soil Pulp	7	0.03	38	0.002	2	0.37	0.003	0.04	<0.1	0.04	1.0	0.1	<0.05	1	0.5	<0.2
REP 1371151	QC	7	0.03	37	0.003	2	0.38	0.003	0.04	<0.1	0.04	0.9	0.1	<0.05	1	<0.5	<0.2
1372835	Soil Pulp	12	0.50	104	0.002	5	0.86	0.006	0.05	0.1	0.28	0.8	0.2	0.21	2	0.8	<0.2
REP 1372835	QC	13	0.53	108	0.003	6	0.94	0.008	0.07	0.2	0.30	0.9	0.2	0.27	2	1.0	<0.2
1372843	Soil Pulp	19	0.23	44	0.004	1	1.21	0.002	0.04	<0.1	0.05	1.2	<0.1	<0.05	3	<0.5	<0.2
REP 1372843	QC	19	0.23	45	0.005	1	1.20	0.002	0.04	<0.1	0.06	1.0	<0.1	<0.05	3	<0.5	<0.2



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		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001	1DX15 La ppm 1
1372856	Soil Pulp	0.6	47.6	47.6	111	0.3	41.4	28.1	844	4.54	13.8	0.7	11.3	32	0.1	0.6	0.6	11	0.20	0.060	31
REP 1372856	QC	0.7	48.1	48.4	115	0.3	43.5	28.8	867	4.55	14.2	0.6	12.3	34	0.1	0.6	0.6	10	0.20	0.063	35
Reference Materials																					
STD DS8	Standard	12.1	109.0	125.2	301	1.7	35.8	7.5	599	2.49	24.0	109.7	6.4	60	2.3	5.2	6.4	42	0.66	0.077	14
STD DS8	Standard	12.2	104.1	122.7	298	1.9	36.6	7.5	572	2.71	23.6	111.1	6.3	56	2.2	4.8	6.2	40	0.66	0.076	13
STD DS8	Standard	13.6	108.9	125.8	311	1.9	36.1	7.4	618	2.81	25.1	119.1	6.7	61	2.3	4.7	6.3	41	0.70	0.079	15
STD DS8	Standard	12.9	93.1	122.2	288	1.8	36.6	6.4	589	2.33	20.8	111.9	5.8	62	1.9	4.3	5.7	36	0.66	0.066	14
STD DS8	Standard	11.2	95.6	111.0	273	1.5	32.0	6.4	530	2.14	21.0	88.7	6.4	59	2.0	4.7	5.6	37	0.61	0.073	14
STD DS8	Standard	13.4	110.5	122.0	302	1.8	36.9	7.7	592	2.40	24.7	107.7	7.1	63	2.3	5.6	6.9	43	0.68	0.077	15
STD DS8	Standard	12.9	124.0	121.4	325	1.8	39.6	7.6	611	2.44	24.4	124.3	7.1	65	2.4	5.7	7.4	42	0.69	0.079	14
STD DS8	Standard	12.3	108.3	124.0	306	1.8	37.5	7.7	589	2.41	24.9	116.6	6.2	63	2.2	5.5	6.4	41	0.63	0.079	13
STD DS8	Standard	12.7	107.7	123.4	310	1.8	38.3	7.4	588	2.35	22.8	99.7	6.2	60	2.1	5.1	5.8	41	0.64	0.075	14
STD DS8	Standard	13.7	107.3	121.1	308	1.7	37.7	7.2	609	2.45	21.5	114.2	7.2	73	2.3	5.8	6.5	42	0.71	0.074	17
STD DS8	Standard	12.7	109.9	118.2	316	1.8	37.2	7.6	640	2.55	25.8	123.5	6.5	70	2.3	6.0	6.3	43	0.72	0.085	15
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
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
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
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
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
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
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
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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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
1372856	Soil Pulp	15	0.31	24	0.002	1	0.95	0.002	0.04	<0.1	0.07	3.1	<0.1	<0.05	2	<0.5	<0.2
REP 1372856	QC	15	0.32	27	0.002	<1	1.00	0.002	0.04	<0.1	0.06	3.2	<0.1	<0.05	2	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	115	0.57	265	0.111	3	0.83	0.075	0.38	3.1	0.20	2.0	5.6	0.14	5	4.6	4.9
STD DS8	Standard	112	0.53	249	0.107	3	0.85	0.082	0.38	2.9	0.18	2.2	5.4	0.17	4	5.3	5.6
STD DS8	Standard	117	0.62	270	0.116	2	0.93	0.086	0.40	2.9	0.20	2.2	5.5	0.15	5	6.5	4.6
STD DS8	Standard	115	0.56	228	0.110	2	0.85	0.079	0.38	2.9	0.19	1.5	5.3	0.19	5	5.0	4.6
STD DS8	Standard	99	0.56	240	0.107	3	0.82	0.075	0.35	2.6	0.17	2.0	4.7	0.11	4	4.6	4.2
STD DS8	Standard	118	0.61	269	0.116	3	0.88	0.084	0.40	2.6	0.20	1.9	5.2	0.17	4	4.8	4.6
STD DS8	Standard	118	0.62	268	0.120	3	0.90	0.081	0.41	3.1	0.18	2.0	5.4	0.17	5	4.7	5.0
STD DS8	Standard	115	0.58	254	0.106	3	0.87	0.081	0.40	3.1	0.21	2.2	5.3	0.16	5	5.6	5.2
STD DS8	Standard	118	0.59	267	0.109	2	0.86	0.084	0.39	3.0	0.19	1.9	5.4	0.15	4	4.9	4.8
STD DS8	Standard	121	0.60	281	0.127	2	0.93	0.104	0.41	3.0	0.20	2.8	5.5	0.14	5	4.0	4.8
STD DS8	Standard	119	0.65	281	0.122	2	0.98	0.110	0.44	3.0	0.19	2.7	5.4	0.16	5	6.2	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
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
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
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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Submitted By: Confirmation Email List
Receiving Lab: Canada-Vancouver
Received: August 19, 2011
Report Date: September 20, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN11004073.1

CLIENT JOB INFORMATION

Project: CCJV
Shipment ID:
P.O. Number: OB-03
Number of Samples: 19

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
No Prep	18	Sorting of samples on arrival and labeling			VAN
1DX2	18	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
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Canada

CC: Report Email List



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Project: CCJV
Report Date: September 20, 2011

Page: 2 of 2 **Part** 1

CERTIFICATE OF ANALYSIS

VAN11004073.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		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
1180656	Soil Pulp	0.5	17.4	37.6	133	0.1	16.3	8.0	499	2.56	32.5	3.1	2.1	52	0.3	2.1	0.2	8	5.26	0.100
1180657	Soil Pulp	0.6	27.6	57.1	216	0.1	25.3	15.7	1040	3.25	115.3	13.0	3.4	37	0.4	5.3	0.3	12	5.06	0.095
1180658	Soil Pulp	0.7	30.0	73.1	315	0.2	30.7	18.2	1232	3.63	133.0	12.1	5.0	38	0.5	7.4	0.3	12	3.96	0.095
1180659	Soil Pulp	0.4	36.5	46.9	114	0.1	38.4	21.7	875	4.95	4.7	1.2	11.9	18	<0.1	0.4	0.5	11	0.13	0.065
1180660	Soil Pulp	0.6	33.3	47.6	133	0.2	36.2	17.2	470	4.82	20.4	2.6	8.5	68	0.1	1.2	0.5	9	1.89	0.070
1180661	Soil Pulp	0.6	35.4	44.3	129	0.2	38.2	17.7	663	4.82	17.6	1.8	8.0	67	0.1	1.0	0.5	10	1.85	0.073
1180662	Soil Pulp	0.7	30.0	51.3	224	0.1	30.1	15.0	876	3.91	92.9	20.0	4.3	73	0.4	4.2	0.3	10	3.86	0.087
1180663	Soil Pulp	0.5	28.3	42.6	185	0.2	28.5	14.3	590	3.73	53.4	8.1	5.0	48	0.3	2.4	0.3	11	2.26	0.077
1180901	Soil Pulp	0.5	23.8	42.4	117	0.1	25.6	11.4	509	3.35	47.3	11.0	6.5	222	0.2	6.2	0.3	6	7.65	0.058
1180902	Soil Pulp	0.4	28.4	39.9	134	0.1	28.0	13.9	571	3.96	85.3	27.0	4.6	48	0.2	2.8	0.4	11	1.91	0.064
1182485	Soil Pulp	0.4	23.4	29.2	101	<0.1	24.9	12.0	565	3.34	36.1	9.7	5.3	101	0.1	1.9	0.3	9	4.57	0.048
1182486	Soil Pulp	0.4	25.8	35.3	116	0.2	26.5	12.0	414	3.41	27.0	7.4	5.5	52	0.2	2.7	0.3	8	2.68	0.065
1182487	Soil Pulp	0.4	24.0	32.8	134	0.1	23.8	12.3	436	3.09	21.8	<0.5	6.1	178	0.2	1.5	0.3	6	5.65	0.048
1182507	Soil Pulp	0.5	29.0	147.3	387	0.2	27.0	12.0	337	3.23	16.3	2.4	3.2	84	1.2	1.7	0.3	12	0.88	0.093
1182508	Soil Pulp	0.7	33.3	34.6	142	0.3	32.7	16.0	562	3.99	35.1	0.5	3.5	71	0.5	1.8	0.3	13	0.64	0.090
1182509	Soil Pulp	0.7	38.8	44.4	121	0.2	39.1	18.3	632	4.82	15.5	<0.5	7.3	77	<0.1	1.0	0.6	10	0.86	0.082
1183300	Soil Pulp	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.
1373005	Soil Pulp	0.8	54.6	76.7	230	0.3	86.7	37.8	1325	7.13	56.0	0.7	11.6	58	0.7	2.4	0.7	10	0.28	0.098
1373006	Soil Pulp	0.6	27.0	45.2	160	0.2	28.6	12.8	548	3.69	40.8	10.8	5.0	82	0.3	4.0	0.3	8	4.08	0.079



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Project: CCJV
Report Date: September 20, 2011

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN11004073.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
1180656	Soil Pulp	7	2.83	156	0.003	2	0.39	0.005	0.05	0.1	0.13	2.1	0.1	0.06	<1	0.9	<0.2
1180657	Soil Pulp	10	2.97	106	0.005	<1	0.56	0.006	0.05	0.3	0.15	3.0	0.4	<0.05	1	<0.5	<0.2
1180658	Soil Pulp	12	2.27	104	0.004	<1	0.74	0.005	0.05	0.2	0.13	2.4	0.6	<0.05	2	<0.5	<0.2
1180659	Soil Pulp	21	0.65	35	0.001	<1	1.32	0.002	0.02	<0.1	0.20	2.5	<0.1	<0.05	3	<0.5	<0.2
1180660	Soil Pulp	12	1.08	28	0.002	<1	0.79	0.005	0.04	<0.1	0.18	2.6	<0.1	0.05	2	<0.5	<0.2
1180661	Soil Pulp	13	1.06	36	0.002	<1	0.84	0.005	0.04	<0.1	0.18	2.8	<0.1	0.05	2	<0.5	<0.2
1180662	Soil Pulp	15	2.05	119	0.002	<1	0.81	0.006	0.05	0.2	0.16	2.1	0.3	<0.05	2	<0.5	<0.2
1180663	Soil Pulp	13	1.33	79	0.003	<1	0.79	0.004	0.05	<0.1	0.14	2.2	0.2	<0.05	2	<0.5	<0.2
1180901	Soil Pulp	11	2.59	30	<0.001	<1	0.53	0.006	0.03	<0.1	0.18	2.9	0.1	0.07	1	<0.5	<0.2
1180902	Soil Pulp	14	1.22	50	0.002	<1	0.99	0.004	0.03	0.2	0.11	2.3	0.1	<0.05	3	0.5	<0.2
1182485	Soil Pulp	12	2.24	27	<0.001	<1	0.83	0.004	0.02	<0.1	0.07	1.8	<0.1	<0.05	2	<0.5	<0.2
1182486	Soil Pulp	9	1.46	31	0.003	<1	0.53	0.004	0.04	<0.1	0.11	2.3	<0.1	<0.05	1	<0.5	<0.2
1182487	Soil Pulp	8	1.82	27	0.001	<1	0.54	0.004	0.04	<0.1	0.11	2.7	<0.1	0.06	1	<0.5	<0.2
1182507	Soil Pulp	13	0.30	38	0.004	1	0.82	0.003	0.05	<0.1	0.08	3.0	<0.1	<0.05	2	0.8	<0.2
1182508	Soil Pulp	12	0.27	39	0.002	<1	0.84	0.003	0.07	<0.1	0.16	2.7	<0.1	<0.05	2	0.6	<0.2
1182509	Soil Pulp	11	0.34	32	0.002	<1	0.70	0.003	0.05	<0.1	0.25	3.2	<0.1	0.09	2	<0.5	<0.2
1183300	Soil Pulp	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.
1373005	Soil Pulp	12	0.28	35	0.003	2	0.94	0.008	0.05	<0.1	0.22	4.1	0.2	0.11	2	<0.5	<0.2
1373006	Soil Pulp	8	1.86	37	0.002	<1	0.47	0.005	0.05	<0.1	0.15	2.5	0.1	<0.05	<1	<0.5	<0.2



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Project: CCJV

Report Date: September 20, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN11004073.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		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																					
1180657	Soil Pulp	0.6	27.6	57.1	216	0.1	25.3	15.7	1040	3.25	115.3	13.0	3.4	37	0.4	5.3	0.3	12	5.06	0.095	16
REP 1180657	QC	0.5	26.6	57.6	208	0.2	24.2	15.3	1008	3.19	113.2	14.6	3.5	37	0.4	5.2	0.3	12	5.01	0.095	16
1182485	Soil Pulp	0.4	23.4	29.2	101	<0.1	24.9	12.0	565	3.34	36.1	9.7	5.3	101	0.1	1.9	0.3	9	4.57	0.048	8
REP 1182485	QC	0.3	21.9	29.3	100	<0.1	23.6	12.1	560	3.37	36.0	10.5	6.0	101	0.1	2.0	0.3	8	4.55	0.047	10
Reference Materials																					
STD DS8	Standard	12.8	104.8	125.4	311	1.8	38.4	7.3	611	2.46	25.4	139.0	6.9	69	2.6	6.1	6.8	39	0.73	0.081	15
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



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Project: CCJV

Report Date: September 20, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN11004073.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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																	
1180657	Soil Pulp	10	2.97	106	0.005	<1	0.56	0.006	0.05	0.3	0.15	3.0	0.4	<0.05	1	<0.5	<0.2
REP 1180657	QC	10	2.99	106	0.005	<1	0.57	0.006	0.04	0.3	0.15	2.9	0.4	<0.05	1	<0.5	<0.2
1182485	Soil Pulp	12	2.24	27	<0.001	<1	0.83	0.004	0.02	<0.1	0.07	1.8	<0.1	<0.05	2	<0.5	<0.2
REP 1182485	QC	12	2.20	27	0.001	<1	0.83	0.004	0.02	<0.1	0.08	1.8	<0.1	<0.05	2	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	112	0.66	274	0.107	2	0.91	0.090	0.41	3.1	0.20	1.9	5.5	0.17	5	4.8	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



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Submitted By: Confirmation Email List
Receiving Lab: Canada-Vancouver
Received: August 19, 2011
Report Date: August 29, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN11004077.1

CLIENT JOB INFORMATION

Project: CCJV
Shipment ID: ET-01
P.O. Number: 12
Number of Samples: 12

SAMPLE DISPOSAL

STOR-PLP 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	Code Description	Number of Samples	Test Wgt (g)	Report Status	Lab
No Prep	Sorting of samples on arrival and labeling	12			VAN
1DX2	1:1:1 Aqua Regia digestion ICP-MS analysis	12	15	Completed	VAN

ADDITIONAL COMMENTS

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

CC: Report Email List



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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Project: CCJV
Report Date: August 29, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN11004077.1

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Page: 2 of 2 Part 2

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Project: CCJV
Report Date: August 29, 2011

Page: 1 of 1 **Part** 1

QUALITY CONTROL REPORT

VAN11004077.1

Method Analyte Unit	1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15																			
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
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
Reference Materials																				
STD DS8	14.6	122.1	133.7	336	2.0	42.5	8.5	687	2.71	28.9	129.3	7.6	74	3.0	6.7	7.8	49	0.75	0.089	17
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	<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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Project: CCJV

Report Date: August 29, 2011

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QUALITY CONTROL REPORT

VAN11004077.1

Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm		
Reference Materials																		
STD DS8	130	0.64	306	0.133	3	0.94	0.092	0.44	3.3	0.21	2.6	6.0	0.18	5	5.8	5.8		
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	<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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Submitted By: Confirmation Email List
Receiving Lab: Canada-Vancouver
Received: September 07, 2011
Report Date: October 28, 2011
Page: 1 of 5

CERTIFICATE OF ANALYSIS

VAN11004551.1

CLIENT JOB INFORMATION

Project: CCJV
Shipment ID:
P.O. Number: OB-05
Number of Samples: 106

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
No Prep	106	Sorting of samples on arrival and labeling			VAN
1DX2	106	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
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Vancouver BC V6C 2V6
Canada

CC: Report Email List



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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Report Date: October 28, 2011

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CERTIFICATE OF ANALYSIS

VAN11004551.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		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
1382225	Soil Pulp	0.4	73.4	35.3	116	<0.1	45.2	33.5	869	5.24	14.4	6.6	9.5	8	<0.1	0.7	0.5	19	0.06	0.036	19
1382226	Soil Pulp	0.5	65.0	42.9	119	<0.1	40.6	22.4	561	4.86	26.5	7.3	8.0	16	0.1	1.3	0.5	17	0.23	0.047	18
1382227	Soil Pulp	0.5	52.4	38.3	121	<0.1	40.3	27.6	830	4.71	20.0	3.5	9.8	11	<0.1	1.4	0.4	17	0.06	0.037	23
1382228	Soil Pulp	0.4	41.8	37.8	105	0.1	36.7	22.2	500	4.14	28.4	4.2	10.5	14	<0.1	1.0	0.5	6	0.12	0.037	32
1382229	Soil Pulp	0.4	34.6	34.4	101	0.2	30.6	14.6	399	4.22	44.6	9.0	5.2	26	<0.1	1.4	0.4	6	0.36	0.066	23
1382230	Soil Pulp	0.5	41.9	66.2	241	0.2	34.6	19.7	934	4.52	179.1	40.3	2.8	42	0.3	5.4	0.4	15	1.10	0.099	14
1382231	Soil Pulp	0.6	49.4	49.5	152	0.3	47.9	22.6	595	6.54	16.6	3.3	10.4	48	0.2	0.9	0.6	14	0.61	0.074	29
1382232	Soil Pulp	0.7	51.9	51.9	147	0.3	50.9	24.7	779	6.28	17.0	2.4	11.1	42	<0.1	0.6	0.5	12	0.25	0.079	39
1382233	Soil Pulp	0.7	37.5	41.6	120	0.1	36.0	14.5	498	4.93	24.4	1.6	6.1	26	<0.1	0.8	0.6	13	0.16	0.095	30
1382234	Soil Pulp	0.7	57.8	56.4	151	0.4	53.1	24.0	825	6.54	17.1	2.8	10.7	39	0.1	0.9	0.7	13	0.25	0.065	42
1382235	Soil Pulp	0.8	57.4	59.0	182	0.3	54.7	27.5	1126	7.32	39.7	2.8	11.8	13	0.1	0.9	0.6	17	0.07	0.096	47
1382236	Soil Pulp	0.6	33.7	64.6	229	0.3	38.5	15.4	373	4.93	94.6	40.1	6.3	62	0.4	3.6	0.5	10	1.98	0.098	21
1382237	Soil Pulp	0.6	34.9	57.3	194	0.2	35.1	15.4	473	4.78	135.2	67.8	5.8	65	0.4	8.8	0.4	12	3.09	0.086	23
1382238	Soil Pulp	0.5	28.6	43.4	132	0.2	30.4	13.0	622	4.10	71.2	26.2	6.8	62	0.3	9.0	0.4	7	6.88	0.081	16
1382239	Soil Pulp	0.5	28.4	49.3	155	0.2	32.0	14.2	732	4.08	86.7	26.4	5.1	52	0.4	7.9	0.3	7	7.55	0.065	11
1382240	Soil Pulp	0.3	15.3	56.2	306	<0.1	14.5	7.6	829	2.49	229.1	75.4	3.8	50	0.6	29.3	0.2	3	12.03	0.068	11
1382241	Soil Pulp	0.5	49.6	51.8	142	0.3	44.1	20.8	467	6.03	17.9	1.2	9.2	45	<0.1	0.6	0.7	11	0.48	0.057	29
1382242	Soil Pulp	0.7	49.6	52.0	163	0.2	50.2	23.7	688	6.36	11.8	<0.5	12.7	52	0.1	0.7	0.6	11	0.74	0.076	25
1382243	Soil Pulp	0.7	51.6	48.9	140	0.2	55.5	27.4	796	6.39	7.6	1.5	10.5	256	0.1	0.5	0.7	10	4.88	0.065	12
1382244	Soil Pulp	0.5	45.6	48.5	135	0.2	48.9	24.7	734	5.51	13.8	0.6	10.3	104	<0.1	0.6	0.6	9	2.19	0.063	14
1382245	Soil Pulp	1.4	75.1	107.3	281	0.6	75.9	38.6	1481	11.17	92.9	0.6	16.0	26	0.2	1.2	0.8	12	0.06	0.132	39
1382246	Soil Pulp	1.3	78.6	87.8	242	0.6	78.5	38.7	1307	10.93	39.2	2.4	13.8	36	0.2	0.9	0.7	12	0.03	0.151	24
1382247	Soil Pulp	1.2	35.9	67.3	113	0.1	46.1	18.2	494	5.58	28.3	4.4	4.4	13	0.2	1.4	0.5	22	0.09	0.085	22
1382248	Soil Pulp	0.7	36.6	69.2	217	0.3	40.1	17.8	930	5.57	93.9	22.0	6.9	17	0.4	9.0	0.5	16	0.21	0.096	30
1382249	Soil Pulp	1.2	34.5	50.8	102	<0.1	46.2	23.8	552	5.39	32.4	3.7	4.1	15	0.1	2.2	0.7	30	0.13	0.074	26
1382250	Soil Pulp	1.1	18.9	25.6	86	0.1	20.8	8.2	347	3.35	14.4	3.9	1.3	39	0.2	1.0	0.5	27	0.41	0.136	17
1382251	Soil Pulp	0.6	34.7	49.9	194	0.2	31.5	14.3	485	4.72	166.0	40.8	4.4	53	0.3	3.8	0.5	16	0.61	0.103	21
1382252	Soil Pulp	0.5	39.9	73.3	266	0.2	38.4	18.7	859	4.98	512.9	134.1	6.8	34	0.5	8.2	0.4	14	1.23	0.069	25
1382253	Soil Pulp	0.7	40.7	49.6	183	0.2	36.8	19.0	827	4.88	206.2	47.4	9.2	30	0.4	5.2	0.4	18	1.11	0.065	29
1384576	Soil Pulp	0.7	51.1	44.7	173	0.1	41.3	25.6	780	3.61	120.9	3.9	8.3	49	0.3	9.2	0.6	17	3.63	0.138	34



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
1382225	Soil Pulp	33	0.98	25	0.002	<1	2.35	0.004	0.03	<0.1	0.03	2.4	<0.1	<0.05	7	<0.5	<0.2
1382226	Soil Pulp	28	0.76	60	0.001	<1	1.91	0.003	0.05	<0.1	0.04	2.4	<0.1	<0.05	5	<0.5	<0.2
1382227	Soil Pulp	25	0.72	64	0.002	<1	1.75	0.004	0.04	<0.1	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
1382228	Soil Pulp	8	0.19	54	<0.001	2	0.64	0.002	0.05	<0.1	0.09	2.0	0.2	<0.05	1	<0.5	<0.2
1382229	Soil Pulp	9	0.18	32	0.001	<1	0.70	0.002	0.05	<0.1	0.09	2.0	0.1	<0.05	2	<0.5	<0.2
1382230	Soil Pulp	18	0.57	155	0.002	1	1.33	0.004	0.05	0.3	0.14	2.3	0.2	0.06	3	0.7	<0.2
1382231	Soil Pulp	19	0.64	32	<0.001	1	1.25	0.003	0.04	<0.1	0.27	4.9	<0.1	<0.05	3	0.9	<0.2
1382232	Soil Pulp	20	0.56	33	0.001	<1	1.35	0.002	0.04	<0.1	0.26	3.9	<0.1	<0.05	3	<0.5	0.2
1382233	Soil Pulp	17	0.42	46	0.002	<1	1.18	0.002	0.03	<0.1	0.06	2.1	0.1	<0.05	3	<0.5	<0.2
1382234	Soil Pulp	19	0.52	34	0.001	1	1.30	0.003	0.04	<0.1	0.32	4.6	<0.1	<0.05	3	<0.5	<0.2
1382235	Soil Pulp	20	0.44	51	0.005	<1	1.50	0.003	0.05	<0.1	0.11	4.2	0.2	<0.05	3	<0.5	<0.2
1382236	Soil Pulp	11	1.03	33	<0.001	2	0.75	0.003	0.06	0.3	0.11	3.0	0.1	0.05	2	0.6	<0.2
1382237	Soil Pulp	12	1.57	31	0.002	2	0.71	0.004	0.05	<0.1	0.18	3.1	0.2	<0.05	2	<0.5	<0.2
1382238	Soil Pulp	6	4.04	21	<0.001	2	0.27	0.007	0.05	<0.1	0.09	2.5	0.2	0.06	<1	<0.5	<0.2
1382239	Soil Pulp	5	4.52	22	0.001	3	0.19	0.006	0.04	0.2	0.15	2.2	0.3	0.06	<1	<0.5	<0.2
1382240	Soil Pulp	5	6.86	34	0.001	2	0.25	0.008	0.04	0.5	0.15	1.5	0.5	<0.05	<1	<0.5	<0.2
1382241	Soil Pulp	16	0.42	32	<0.001	2	0.97	0.002	0.04	<0.1	0.23	4.3	0.1	<0.05	2	0.7	<0.2
1382242	Soil Pulp	17	0.55	28	0.002	1	1.02	0.004	0.04	<0.1	0.23	4.5	0.1	0.10	3	<0.5	<0.2
1382243	Soil Pulp	18	0.58	26	<0.001	1	1.13	0.002	0.04	<0.1	0.34	3.6	0.1	0.21	3	<0.5	<0.2
1382244	Soil Pulp	14	0.40	26	0.001	2	0.83	0.003	0.04	<0.1	0.26	3.2	0.1	0.14	2	<0.5	<0.2
1382245	Soil Pulp	16	0.18	42	0.003	<1	0.85	0.010	0.05	<0.1	0.31	5.6	0.2	<0.05	2	0.8	<0.2
1382246	Soil Pulp	20	0.18	43	0.003	<1	1.29	0.014	0.05	<0.1	0.34	5.5	0.2	0.09	2	0.7	<0.2
1382247	Soil Pulp	16	0.20	67	0.005	1	1.24	0.003	0.03	<0.1	0.10	2.2	0.1	<0.05	3	<0.5	<0.2
1382248	Soil Pulp	16	0.25	62	0.002	<1	1.18	0.002	0.04	0.2	0.17	3.5	0.2	<0.05	2	0.7	<0.2
1382249	Soil Pulp	20	0.27	83	0.014	<1	1.31	0.003	0.05	0.1	0.07	2.8	0.1	<0.05	3	0.6	<0.2
1382250	Soil Pulp	18	0.22	80	0.005	<1	1.11	0.003	0.06	<0.1	0.04	1.3	0.2	0.07	4	<0.5	<0.2
1382251	Soil Pulp	17	0.33	56	0.002	<1	1.12	0.003	0.04	0.2	0.17	3.1	0.2	0.06	3	1.0	<0.2
1382252	Soil Pulp	16	0.85	56	0.001	2	1.10	0.004	0.05	1.1	0.25	3.1	0.2	<0.05	3	<0.5	<0.2
1382253	Soil Pulp	20	0.95	78	0.006	<1	1.19	0.005	0.04	0.4	0.14	3.2	0.1	<0.05	3	<0.5	<0.2
1384576	Soil Pulp	12	1.95	155	0.007	4	0.72	0.007	0.10	0.3	0.09	4.4	0.5	<0.05	2	1.0	<0.2



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Report Date: October 28, 2011

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
1384577	Soil Pulp	0.3	29.6	65.1	509	<0.1	30.5	16.9	1024	3.22	409.0	32.4	6.5	68	0.9	17.9	0.4	7	8.36	0.090
1384578	Soil Pulp	0.5	39.7	131.9	544	<0.1	46.9	24.7	951	3.56	1415	442.9	6.1	44	0.9	48.3	0.5	11	1.98	0.084
1384579	Soil Pulp	0.4	16.5	50.7	205	<0.1	16.6	8.4	718	2.11	88.2	13.2	4.2	89	0.4	9.4	0.2	7	14.55	0.083
1384580	Soil Pulp	0.4	11.0	46.8	107	0.2	11.8	3.3	748	2.37	143.6	22.2	1.4	59	0.1	5.3	0.2	7	13.58	0.098
1384581	Soil Pulp	0.6	30.6	37.4	119	0.2	35.0	13.3	298	3.39	13.2	1.5	7.9	425	0.1	0.6	0.4	7	7.60	0.073
1384582	Soil Pulp	0.6	25.6	29.8	135	0.2	31.8	14.0	691	3.38	9.0	3.1	8.6	421	0.1	0.4	0.3	8	9.37	0.093
1384583	Soil Pulp	0.7	36.4	67.6	287	0.4	45.9	18.3	556	4.73	101.1	6.2	10.9	134	0.3	2.7	0.5	6	3.73	0.095
1384584	Soil Pulp	0.8	20.8	18.7	116	0.2	28.0	7.2	221	2.25	19.5	1.4	3.2	521	0.3	1.8	0.3	8	14.68	0.130
1384585	Soil Pulp	0.8	16.6	100.0	679	0.2	18.1	4.3	1168	3.18	175.1	23.4	2.0	321	1.0	10.3	0.1	11	16.29	0.098
1384586	Soil Pulp	0.5	37.2	44.2	264	<0.1	36.6	18.8	729	3.73	233.3	17.6	7.2	29	0.2	12.5	0.5	13	0.35	0.094
1384587	Soil Pulp	0.3	6.5	13.9	65	<0.1	6.3	2.7	1642	2.32	11.2	2.7	0.6	37	0.3	0.7	0.1	4	15.08	0.068
1384588	Soil Pulp	0.8	59.2	75.7	104	<0.1	45.2	69.2	1769	4.87	1.8	2.6	9.8	10	<0.1	0.3	0.4	24	0.04	0.037
1384589	Soil Pulp	1.5	71.7	59.5	136	<0.1	51.5	58.3	2503	5.21	9.3	1.5	6.3	11	0.3	0.8	0.5	32	0.07	0.099
1384590	Soil Pulp	0.4	35.0	59.0	110	0.1	32.9	19.8	750	3.89	110.7	4.1	5.8	19	0.1	11.7	0.4	10	0.15	0.036
1384591	Soil Pulp	0.7	30.7	49.3	86	0.2	30.3	20.3	681	2.97	43.0	8.4	2.2	33	0.1	3.3	0.4	13	1.55	0.133
1384592	Soil Pulp	0.9	29.6	50.5	151	0.2	29.5	15.0	902	4.10	41.3	61.2	1.7	60	0.5	3.9	0.5	17	4.13	0.208
1384593	Soil Pulp	0.9	16.7	30.6	112	0.1	20.7	6.1	263	1.99	67.0	6.3	2.1	589	0.3	8.2	0.2	12	18.66	0.088
1384594	Soil Pulp	0.2	11.8	27.7	247	<0.1	12.8	6.1	1338	2.86	78.6	34.5	2.0	83	0.4	8.6	0.1	6	15.16	0.071
1384595	Soil Pulp	0.7	48.3	53.9	197	0.3	59.8	27.6	876	7.26	28.9	<0.5	14.5	133	0.2	2.0	0.5	11	1.58	0.108
1384596	Soil Pulp	0.7	28.5	51.2	188	0.2	30.6	12.8	683	4.16	106.8	13.1	7.8	61	0.4	6.0	0.4	8	6.09	0.108
1384597	Soil Pulp	0.8	51.3	59.9	185	0.3	59.3	27.9	1002	7.74	12.7	1.0	16.9	59	0.3	0.6	0.7	19	0.53	0.132
1384598	Soil Pulp	0.8	44.1	50.8	139	0.3	43.4	21.4	782	6.12	19.9	0.8	12.4	53	0.2	0.5	0.6	17	0.27	0.099
1384599	Soil Pulp	0.8	60.6	64.7	166	0.2	62.6	30.0	1021	7.21	15.8	0.5	15.3	34	0.1	0.7	0.7	15	0.25	0.074
1384600	Soil Pulp	0.8	53.2	70.9	172	0.4	60.3	26.4	649	7.45	10.4	1.7	12.3	47	0.1	0.5	0.7	15	0.37	0.085
1384952	Soil Pulp	0.9	38.8	36.7	106	0.3	38.5	14.5	222	4.10	21.1	1.2	4.2	38	0.2	1.9	0.5	12	0.69	0.089
1384953	Soil Pulp	0.9	34.4	44.7	106	0.3	32.7	18.3	811	4.84	12.2	2.1	4.4	45	0.2	1.0	0.5	18	0.52	0.108
1384954	Soil Pulp	1.2	50.8	57.0	128	0.4	46.1	24.8	955	5.73	18.3	1.2	7.9	50	0.2	1.4	0.6	15	0.47	0.093
1384955	Soil Pulp	1.1	41.8	45.2	99	0.3	38.4	24.9	1005	5.50	17.2	1.0	6.0	56	0.3	1.2	0.5	18	0.71	0.095
1384956	Soil Pulp	1.0	47.3	53.3	124	0.4	46.0	22.0	605	5.61	17.2	1.4	9.6	40	0.2	1.8	0.6	14	0.35	0.089
1384957	Soil Pulp	0.9	43.7	39.9	117	0.3	39.7	23.0	875	4.83	15.1	1.1	7.8	28	0.3	0.7	0.6	16	0.19	0.079



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Report Date: October 28, 2011

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
1384577	Soil Pulp	7	2.88	679	0.002	<1	0.48	0.006	0.05	0.5	0.32	2.6	0.6	<0.05	1	<0.5	<0.2
1384578	Soil Pulp	8	0.65	169	0.003	2	0.52	0.004	0.08	1.0	0.63	4.0	1.6	<0.05	1	0.7	<0.2
1384579	Soil Pulp	4	6.92	49	0.003	2	0.21	0.007	0.05	0.2	0.10	1.8	0.3	<0.05	<1	<0.5	<0.2
1384580	Soil Pulp	6	8.34	40	0.003	5	0.19	0.010	0.06	0.2	0.32	1.1	0.4	0.11	<1	0.5	<0.2
1384581	Soil Pulp	6	0.09	41	0.002	3	0.40	0.006	0.06	<0.1	0.19	2.0	0.4	0.11	<1	0.7	<0.2
1384582	Soil Pulp	7	1.26	40	0.002	1	0.49	0.024	0.07	<0.1	0.17	2.4	0.1	0.19	<1	0.8	<0.2
1384583	Soil Pulp	4	0.92	51	0.003	3	0.23	0.004	0.06	0.5	0.58	3.1	0.3	0.07	<1	<0.5	<0.2
1384584	Soil Pulp	6	0.34	60	0.011	11	0.33	0.003	0.06	0.2	0.12	1.7	<0.1	<0.05	<1	<0.5	<0.2
1384585	Soil Pulp	7	5.71	60	0.005	3	0.26	0.007	0.04	0.3	0.24	1.2	0.3	<0.05	<1	0.7	<0.2
1384586	Soil Pulp	13	0.28	131	0.009	2	1.07	0.005	0.08	2.7	0.05	3.9	0.2	<0.05	3	<0.5	<0.2
1384587	Soil Pulp	3	8.65	54	0.003	3	0.15	0.007	0.02	<0.1	0.03	0.9	<0.1	<0.05	<1	<0.5	<0.2
1384588	Soil Pulp	36	0.96	93	0.004	<1	2.44	0.006	0.04	<0.1	0.02	2.4	<0.1	<0.05	7	<0.5	<0.2
1384589	Soil Pulp	32	0.70	90	0.011	<1	2.43	0.007	0.06	<0.1	0.03	3.1	0.1	<0.05	6	<0.5	<0.2
1384590	Soil Pulp	6	0.06	113	0.002	2	0.29	0.002	0.05	0.3	0.12	3.0	0.4	<0.05	<1	<0.5	<0.2
1384591	Soil Pulp	7	0.36	102	0.004	4	0.44	0.003	0.06	0.2	0.12	2.0	0.4	0.05	<1	<0.5	<0.2
1384592	Soil Pulp	10	1.81	115	0.007	6	0.71	0.006	0.08	0.2	0.06	2.2	0.3	0.06	1	<0.5	<0.2
1384593	Soil Pulp	8	0.19	63	0.008	2	0.38	0.004	0.06	0.5	0.09	1.3	0.3	<0.05	<1	<0.5	<0.2
1384594	Soil Pulp	5	7.95	113	0.002	2	0.30	0.009	0.03	0.7	0.14	1.3	0.2	<0.05	<1	<0.5	<0.2
1384595	Soil Pulp	14	0.23	63	0.003	2	0.92	0.009	0.07	<0.1	0.20	3.9	0.3	0.17	2	<0.5	<0.2
1384596	Soil Pulp	7	3.41	101	0.004	4	0.36	0.009	0.06	0.2	0.17	2.8	0.2	0.07	<1	<0.5	<0.2
1384597	Soil Pulp	20	0.48	57	0.004	2	1.09	0.006	0.07	<0.1	0.19	6.4	0.1	0.23	2	<0.5	<0.2
1384598	Soil Pulp	18	0.31	41	0.003	<1	0.91	0.006	0.05	<0.1	0.19	4.9	<0.1	<0.05	2	<0.5	<0.2
1384599	Soil Pulp	21	0.60	35	0.004	2	1.24	0.004	0.05	<0.1	0.21	5.6	<0.1	0.10	3	<0.5	<0.2
1384600	Soil Pulp	19	0.47	32	0.003	<1	1.15	0.004	0.05	<0.1	0.29	4.6	<0.1	<0.05	3	<0.5	<0.2
1384952	Soil Pulp	10	0.17	43	0.004	2	0.74	0.003	0.05	<0.1	0.13	3.9	<0.1	<0.05	2	<0.5	<0.2
1384953	Soil Pulp	18	0.27	62	0.004	2	1.25	0.003	0.07	<0.1	0.08	4.2	<0.1	<0.05	3	<0.5	<0.2
1384954	Soil Pulp	18	0.31	54	0.004	2	1.22	0.003	0.07	<0.1	0.12	4.5	<0.1	<0.05	3	<0.5	<0.2
1384955	Soil Pulp	16	0.28	57	0.004	2	1.09	0.004	0.07	<0.1	0.09	4.0	<0.1	<0.05	3	<0.5	<0.2
1384956	Soil Pulp	14	0.29	36	0.007	1	0.98	0.003	0.05	<0.1	0.11	4.4	<0.1	<0.05	2	<0.5	<0.2
1384957	Soil Pulp	16	0.29	42	0.006	<1	0.98	0.003	0.04	<0.1	0.07	3.4	<0.1	<0.05	3	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
1384958	Soil Pulp	2.1	54.6	54.4	113	0.5	37.4	19.0	771	5.20	17.2	5.5	8.1	30	0.3	1.4	0.4	37	0.07	0.129
1385201	Soil Pulp	0.9	29.8	51.8	135	0.4	32.4	11.8	499	4.37	44.7	4.2	2.9	78	0.2	1.4	0.5	21	1.09	0.116
1385202	Soil Pulp	0.9	36.4	51.7	189	0.3	45.0	18.2	700	4.49	124.5	195.7	6.7	98	0.3	3.3	0.4	12	1.04	0.119
1385203	Soil Pulp	0.5	12.0	50.8	213	0.1	13.0	3.9	1481	3.20	28.4	3.3	0.6	54	0.5	3.1	0.1	9	14.18	0.089
1385204	Soil Pulp	0.7	24.9	41.7	279	0.2	22.6	9.6	1209	3.40	142.6	92.7	0.9	69	0.6	12.1	0.2	15	6.32	0.155
1385205	Soil Pulp	0.5	5.9	66.3	254	<0.1	6.9	2.4	1365	2.50	118.2	286.7	0.5	62	0.6	17.2	<0.1	4	18.23	0.089
1385206	Soil Pulp	0.5	15.7	36.8	107	0.1	14.5	7.2	1516	3.27	29.6	7.9	1.0	52	0.4	3.8	0.2	13	9.22	0.139
1385207	Soil Pulp	0.5	26.5	62.0	272	0.2	24.9	13.7	594	3.71	52.4	4.0	3.1	23	0.2	3.8	0.4	18	0.54	0.123
1385208	Soil Pulp	0.9	52.7	37.4	110	<0.1	39.5	40.1	1123	5.00	4.5	1.5	8.5	5	0.1	0.4	0.5	24	0.02	0.055
1385209	Soil Pulp	1.0	74.5	57.6	113	0.1	47.6	62.2	1388	5.31	13.1	3.6	9.6	7	0.1	0.9	0.5	25	0.02	0.059
1185892	Soil Pulp	1.4	95.9	80.7	133	0.2	52.3	89.9	2232	5.34	11.5	1.5	12.4	15	0.1	0.7	0.6	27	0.02	0.069
1185893	Soil Pulp	0.9	56.7	55.8	123	<0.1	50.8	48.3	1926	5.39	10.8	1.9	10.9	14	0.2	0.4	0.5	23	0.02	0.044
1185894	Soil Pulp	1.6	54.8	54.1	127	0.2	43.2	37.7	1734	5.03	17.6	1.0	7.9	17	0.2	0.8	0.6	25	0.05	0.067
1185895	Soil Pulp	0.8	52.5	49.4	119	<0.1	43.8	27.8	1398	4.98	16.3	0.9	8.5	13	0.1	0.5	0.5	19	0.08	0.064
1185896	Soil Pulp	0.6	63.9	64.5	107	<0.1	44.7	22.1	704	4.78	2.1	2.7	10.9	17	<0.1	0.2	0.5	19	0.07	0.035
1185897	Soil Pulp	0.6	53.6	37.5	114	<0.1	47.2	28.5	936	5.14	3.8	1.8	9.4	15	<0.1	0.3	0.4	20	0.05	0.035
1185898	Soil Pulp	0.7	58.3	51.1	117	<0.1	44.7	34.1	1401	5.18	6.8	1.5	11.7	16	<0.1	0.3	0.5	20	0.06	0.057
1185899	Soil Pulp	1.4	55.8	50.5	140	<0.1	42.4	34.5	1371	4.78	23.9	1.6	8.3	22	0.2	0.7	0.4	22	0.15	0.074
1185900	Soil Pulp	0.5	36.1	39.5	100	0.1	42.8	33.7	1373	4.13	387.7	104.8	7.5	23	0.1	1.5	0.3	9	0.16	0.049
1371893	Soil Pulp	0.5	10.4	120.4	1150	0.1	8.5	3.2	1680	3.46	443.2	522.4	1.2	193	2.9	51.4	<0.1	6	18.28	0.103
1371894	Soil Pulp	0.4	9.5	52.3	216	0.1	10.4	3.8	944	1.77	60.9	47.3	1.2	46	0.7	6.6	<0.1	5	15.19	0.071
1371895	Soil Pulp	0.4	11.8	88.8	277	0.1	13.6	5.4	1015	2.16	162.4	57.9	1.6	42	1.0	11.2	0.1	5	14.26	0.079
1371896	Soil Pulp	0.5	16.6	49.7	181	0.3	19.3	7.7	958	3.05	125.3	76.2	1.4	37	0.4	8.9	0.2	7	10.33	0.121
1371897	Soil Pulp	0.6	19.5	54.6	238	0.3	23.2	8.6	990	3.33	158.3	92.1	2.3	39	0.5	16.3	0.2	9	6.50	0.155
1371898	Soil Pulp	0.6	36.1	86.1	288	0.3	40.6	17.5	600	4.79	207.4	128.5	7.5	33	0.6	17.9	0.5	9	1.66	0.100
1371899	Soil Pulp	0.4	25.0	53.8	170	0.2	27.4	11.6	564	3.60	103.5	25.1	5.6	288	0.4	4.2	0.3	5	8.53	0.080
1371900	Soil Pulp	0.6	27.8	46.3	157	0.2	32.9	14.5	559	4.15	63.3	11.3	7.9	295	0.3	2.3	0.4	5	6.58	0.071
1385101	Soil Pulp	0.9	30.3	62.1	308	0.3	28.5	10.8	597	4.41	158.8	55.0	2.8	31	0.7	6.2	0.3	19	1.29	0.111
1385102	Soil Pulp	0.7	20.6	134.9	540	0.4	24.6	8.7	702	3.53	115.9	123.6	3.2	164	1.4	9.2	0.3	7	10.74	0.080
1385103	Soil Pulp	0.7	21.3	68.8	481	0.2	18.2	6.9	792	2.18	159.8	10.0	1.1	348	1.2	7.0	0.2	13	11.43	0.162



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
1384958	Soil Pulp	28	0.32	69	0.032	1	1.55	0.007	0.06	0.2	0.13	3.3	0.1	<0.05	4	0.7	<0.2
1385201	Soil Pulp	16	0.37	63	0.004	1	1.01	0.004	0.05	<0.1	0.19	3.5	0.1	0.06	2	<0.5	<0.2
1385202	Soil Pulp	11	0.17	91	0.004	3	0.67	0.005	0.11	0.3	0.62	3.4	0.9	<0.05	2	<0.5	<0.2
1385203	Soil Pulp	6	8.52	54	0.004	2	0.25	0.009	0.03	0.1	0.08	0.9	0.2	<0.05	<1	0.5	<0.2
1385204	Soil Pulp	11	3.15	163	0.005	3	0.68	0.007	0.05	1.2	0.17	1.6	0.3	<0.05	2	<0.5	<0.2
1385205	Soil Pulp	3	10.72	50	0.003	2	0.14	0.009	0.02	0.1	0.07	0.6	0.3	<0.05	<1	<0.5	<0.2
1385206	Soil Pulp	7	5.44	70	0.007	4	0.45	0.009	0.04	0.1	0.06	2.2	0.1	<0.05	<1	<0.5	<0.2
1385207	Soil Pulp	10	0.14	77	0.005	3	0.70	0.003	0.06	0.3	0.11	3.4	0.3	0.07	1	<0.5	<0.2
1385208	Soil Pulp	33	0.90	33	0.004	<1	2.56	0.004	0.03	<0.1	0.01	2.1	<0.1	<0.05	7	<0.5	<0.2
1385209	Soil Pulp	35	0.90	42	0.005	<1	2.65	0.013	0.06	<0.1	0.01	2.8	<0.1	<0.05	8	<0.5	<0.2
1185892	Soil Pulp	32	0.72	56	0.007	1	2.25	0.007	0.06	<0.1	0.04	3.8	0.1	<0.05	6	<0.5	<0.2
1185893	Soil Pulp	28	0.62	62	0.005	1	1.86	0.006	0.06	<0.1	0.04	3.6	0.1	<0.05	6	<0.5	<0.2
1185894	Soil Pulp	25	0.53	59	0.007	1	1.48	0.008	0.06	<0.1	0.07	3.7	0.1	0.08	4	0.7	<0.2
1185895	Soil Pulp	25	0.61	61	0.001	1	1.72	0.004	0.04	<0.1	0.05	2.5	<0.1	<0.05	5	<0.5	<0.2
1185896	Soil Pulp	36	0.99	137	0.002	<1	2.26	0.005	0.04	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
1185897	Soil Pulp	33	0.92	45	0.002	<1	2.28	0.006	0.03	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
1185898	Soil Pulp	35	0.94	40	0.003	<1	2.32	0.005	0.04	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
1185899	Soil Pulp	25	0.52	70	0.006	<1	1.53	0.005	0.04	<0.1	0.04	2.7	0.1	<0.05	4	<0.5	<0.2
1185900	Soil Pulp	9	0.17	80	0.002	1	0.62	0.007	0.05	1.0	0.06	2.6	<0.1	<0.05	2	<0.5	<0.2
1371893	Soil Pulp	5	6.49	45	0.004	2	0.22	0.007	0.02	12.9	0.83	0.8	0.8	0.11	<1	0.6	<0.2
1371894	Soil Pulp	4	9.46	28	0.003	2	0.16	0.012	0.02	0.1	0.12	0.8	0.2	0.13	<1	<0.5	<0.2
1371895	Soil Pulp	4	8.83	34	0.002	2	0.22	0.012	0.03	0.2	0.09	1.2	0.7	0.11	<1	<0.5	<0.2
1371896	Soil Pulp	6	6.44	33	0.003	3	0.28	0.011	0.04	0.1	0.17	1.5	0.3	0.14	<1	<0.5	<0.2
1371897	Soil Pulp	7	3.73	54	0.003	4	0.37	0.007	0.05	0.2	0.25	1.7	0.3	0.15	<1	<0.5	<0.2
1371898	Soil Pulp	12	1.09	37	0.002	2	0.75	0.003	0.05	0.1	0.21	3.1	0.2	0.07	2	0.5	<0.2
1371899	Soil Pulp	7	2.35	31	0.001	2	0.48	0.005	0.03	0.1	0.11	2.2	0.1	0.09	<1	<0.5	<0.2
1371900	Soil Pulp	9	1.40	27	0.001	3	0.58	0.014	0.04	<0.1	0.11	2.5	0.1	0.11	1	<0.5	<0.2
1385101	Soil Pulp	17	0.86	64	0.006	2	1.21	0.004	0.04	0.2	0.10	3.0	0.3	0.07	3	<0.5	<0.2
1385102	Soil Pulp	7	2.52	90	0.002	1	0.32	0.004	0.04	0.6	0.23	1.3	0.6	0.08	<1	<0.5	<0.2
1385103	Soil Pulp	10	0.47	1456	0.005	4	0.62	0.004	0.05	0.4	0.21	1.5	0.1	0.14	1	0.6	<0.2



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Project: CCJV
Report Date: October 28, 2011

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CERTIFICATE OF ANALYSIS

VAN11004551.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		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
1385104	Soil Pulp	0.4	15.5	159.0	480	0.1	15.2	6.8	1141	3.30	226.2	183.6	1.9	47	1.4	22.5	0.2	6	11.88	0.155
1385105	Soil Pulp	0.5	22.6	51.2	184	0.1	23.3	15.6	1116	2.79	91.9	53.6	2.0	48	0.3	8.9	0.3	8	7.69	0.170
1385106	Soil Pulp	0.7	45.5	46.8	124	0.1	44.2	26.8	1099	5.04	96.8	2.2	8.0	14	<0.1	0.6	0.5	13	0.07	0.048
1385107	Soil Pulp	1.0	79.6	56.6	121	0.1	43.5	57.6	1614	5.07	12.7	4.3	8.4	7	0.1	0.8	0.5	23	0.03	0.072
1385108	Soil Pulp	0.6	58.7	46.5	106	<0.1	45.1	33.2	1080	4.81	6.6	1.0	10.8	9	<0.1	0.4	0.4	17	0.05	0.031
1385109	Soil Pulp	1.5	23.8	19.8	73	<0.1	19.5	7.4	242	2.52	9.8	1.0	0.9	22	0.1	0.8	0.4	24	0.22	0.079
1385110	Soil Pulp	0.6	38.6	37.9	112	0.2	38.1	16.5	413	4.97	14.2	1.1	7.4	65	0.1	0.7	0.4	8	0.82	0.075
1385111	Soil Pulp	0.5	30.1	31.0	108	0.1	30.2	13.0	448	3.93	20.7	5.1	2.4	50	0.1	1.7	0.4	17	0.88	0.090
1385112	Soil Pulp	0.6	45.5	36.9	113	0.2	39.3	17.2	338	4.48	25.1	5.1	7.7	111	0.1	1.8	0.5	8	2.36	0.069
1385113	Soil Pulp	0.7	36.1	39.2	108	0.3	30.8	15.2	419	4.10	14.1	2.1	4.1	56	0.2	1.0	0.4	12	0.68	0.097
1385114	Soil Pulp	0.4	31.1	33.5	89	0.2	31.4	12.3	287	3.45	11.6	1.3	6.4	33	<0.1	0.5	0.4	4	0.26	0.046
1385115	Soil Pulp	0.6	40.6	41.3	117	0.2	35.4	15.5	456	4.55	24.9	2.9	4.4	52	0.1	1.0	0.5	11	0.76	0.070
1385116	Soil Pulp	0.5	23.8	43.4	282	0.2	22.6	9.2	591	3.84	80.7	21.0	1.7	47	0.3	4.8	0.3	13	2.22	0.136
1385117	Soil Pulp	0.6	30.5	52.2	337	0.2	30.9	14.6	804	4.19	77.9	25.3	3.5	41	0.5	5.8	0.4	12	1.95	0.109
1385118	Soil Pulp	0.6	45.7	51.7	152	0.2	35.4	18.2	858	5.73	35.4	8.1	5.4	26	0.2	1.3	0.5	14	0.32	0.098
1384951	Soil Pulp	4.4	41.2	11.0	90	0.2	13.1	5.0	79	1.59	8.9	1.5	0.3	7	0.4	1.9	0.2	63	0.01	0.100



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CERTIFICATE OF ANALYSIS

VAN11004551.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
1385104	Soil Pulp	6	7.29	47	0.004	2	0.31	0.008	0.04	0.5	0.13	1.4	0.2	0.09	<1	<0.5	<0.2
1385105	Soil Pulp	7	3.70	95	0.003	4	0.44	0.005	0.06	0.4	0.07	1.5	0.3	0.10	1	<0.5	<0.2
1385106	Soil Pulp	15	0.24	72	0.003	<1	0.84	0.002	0.04	<0.1	0.04	2.2	0.2	0.06	2	<0.5	<0.2
1385107	Soil Pulp	29	0.75	61	0.005	<1	2.07	0.005	0.04	<0.1	0.03	2.9	<0.1	<0.05	6	<0.5	<0.2
1385108	Soil Pulp	31	0.88	34	0.002	<1	2.20	0.002	0.03	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
1385109	Soil Pulp	11	0.10	46	0.003	<1	0.67	0.003	0.04	<0.1	0.06	0.8	<0.1	0.06	3	<0.5	<0.2
1385110	Soil Pulp	13	0.28	19	0.001	2	0.68	0.002	0.03	<0.1	0.18	3.6	<0.1	0.15	2	<0.5	<0.2
1385111	Soil Pulp	19	0.33	78	0.003	1	1.42	0.003	0.05	<0.1	0.09	2.3	<0.1	0.05	4	<0.5	<0.2
1385112	Soil Pulp	11	0.49	39	0.001	<1	0.80	0.002	0.04	<0.1	0.15	3.2	<0.1	<0.05	2	<0.5	<0.2
1385113	Soil Pulp	15	0.25	55	0.003	1	0.98	0.003	0.06	<0.1	0.14	2.6	<0.1	0.10	2	<0.5	<0.2
1385114	Soil Pulp	7	0.10	32	<0.001	<1	0.50	0.002	0.03	<0.1	0.10	2.6	<0.1	<0.05	1	<0.5	<0.2
1385115	Soil Pulp	15	0.34	54	0.002	2	0.96	0.003	0.04	<0.1	0.14	2.5	<0.1	<0.05	2	<0.5	<0.2
1385116	Soil Pulp	11	0.99	138	0.003	<1	0.90	0.005	0.05	0.4	0.20	1.8	0.2	0.10	2	<0.5	<0.2
1385117	Soil Pulp	11	0.92	152	0.003	3	0.71	0.004	0.06	0.4	0.18	2.3	0.2	0.10	2	0.7	<0.2
1385118	Soil Pulp	18	0.36	46	0.003	<1	1.07	0.002	0.03	0.1	0.09	3.4	0.1	<0.05	3	<0.5	<0.2
1384951	Soil Pulp	14	0.08	99	0.005	3	0.66	0.005	0.08	0.1	0.04	0.3	0.2	<0.05	5	1.0	<0.2



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QUALITY CONTROL REPORT

VAN11004551.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		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																					
1382229	Soil Pulp	0.4	34.6	34.4	101	0.2	30.6	14.6	399	4.22	44.6	9.0	5.2	26	<0.1	1.4	0.4	6	0.36	0.066	23
REP 1382229	QC	0.4	35.5	35.2	106	0.2	32.3	15.0	426	4.55	45.8	11.7	5.4	27	<0.1	1.4	0.4	7	0.39	0.069	25
1382247	Soil Pulp	1.2	35.9	67.3	113	0.1	46.1	18.2	494	5.58	28.3	4.4	4.4	13	0.2	1.4	0.5	22	0.09	0.085	22
REP 1382247	QC	1.1	37.0	68.7	113	<0.1	46.3	18.2	522	5.77	29.5	3.3	4.0	14	0.2	1.4	0.5	23	0.08	0.084	23
1384590	Soil Pulp	0.4	35.0	59.0	110	0.1	32.9	19.8	750	3.89	110.7	4.1	5.8	19	0.1	11.7	0.4	10	0.15	0.036	25
REP 1384590	QC	0.5	35.1	58.4	109	<0.1	32.8	19.8	740	3.78	109.2	4.6	6.1	19	0.1	11.4	0.4	9	0.14	0.036	26
1384954	Soil Pulp	1.2	50.8	57.0	128	0.4	46.1	24.8	955	5.73	18.3	1.2	7.9	50	0.2	1.4	0.6	15	0.47	0.093	28
REP 1384954	QC	1.0	49.5	56.6	126	0.5	44.7	24.6	985	5.83	18.6	1.5	7.7	49	0.1	1.5	0.6	16	0.47	0.093	29
1185899	Soil Pulp	1.4	55.8	50.5	140	<0.1	42.4	34.5	1371	4.78	23.9	1.6	8.3	22	0.2	0.7	0.4	22	0.15	0.074	18
REP 1185899	QC	1.4	54.0	50.6	133	<0.1	40.7	32.8	1267	4.64	22.9	0.7	8.4	22	0.3	0.6	0.4	22	0.15	0.072	19
1385112	Soil Pulp	0.6	45.5	36.9	113	0.2	39.3	17.2	338	4.48	25.1	5.1	7.7	111	0.1	1.8	0.5	8	2.36	0.069	18
REP 1385112	QC	0.5	45.4	36.1	115	0.2	38.8	17.9	355	4.51	25.3	3.5	7.4	102	0.2	1.8	0.4	8	2.35	0.066	17
Reference Materials																					
STD DS8	Standard	13.3	109.2	120.5	317	1.8	36.9	7.7	581	2.42	25.5	112.9	6.9	67	2.2	5.6	6.9	42	0.72	0.081	16
STD DS8	Standard	12.9	106.6	118.0	305	1.6	37.0	7.2	586	2.27	24.7	122.5	6.1	56	2.3	5.4	6.3	40	0.62	0.076	13
STD DS8	Standard	13.4	108.2	125.5	310	1.8	36.9	7.3	590	2.43	23.7	118.4	7.0	73	2.1	5.7	6.9	41	0.69	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	0.02	<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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Project: CCGV

Report Date: October 28, 2011

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QUALITY CONTROL REPORT

VAN11004551.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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																	
1382229	Soil Pulp	9	0.18	32	0.001	<1	0.70	0.002	0.05	<0.1	0.09	2.0	0.1	<0.05	2	<0.5	<0.2
REP 1382229	QC	10	0.18	34	0.001	1	0.70	0.002	0.05	<0.1	0.09	2.3	0.1	<0.05	2	<0.5	<0.2
1382247	Soil Pulp	16	0.20	67	0.005	1	1.24	0.003	0.03	<0.1	0.10	2.2	0.1	<0.05	3	<0.5	<0.2
REP 1382247	QC	17	0.21	69	0.006	<1	1.29	0.003	0.03	<0.1	0.10	2.3	0.1	<0.05	3	0.7	<0.2
1384590	Soil Pulp	6	0.06	113	0.002	2	0.29	0.002	0.05	0.3	0.12	3.0	0.4	<0.05	<1	<0.5	<0.2
REP 1384590	QC	6	0.06	115	0.002	2	0.31	0.002	0.06	0.2	0.13	2.9	0.4	<0.05	<1	<0.5	<0.2
1384954	Soil Pulp	18	0.31	54	0.004	2	1.22	0.003	0.07	<0.1	0.12	4.5	<0.1	<0.05	3	<0.5	<0.2
REP 1384954	QC	18	0.32	54	0.004	2	1.18	0.003	0.07	<0.1	0.12	4.6	<0.1	<0.05	3	<0.5	<0.2
1185899	Soil Pulp	25	0.52	70	0.006	<1	1.53	0.005	0.04	<0.1	0.04	2.7	0.1	<0.05	4	<0.5	<0.2
REP 1185899	QC	24	0.51	69	0.006	1	1.54	0.005	0.04	<0.1	0.04	2.7	0.1	<0.05	4	<0.5	<0.2
1385112	Soil Pulp	11	0.49	39	0.001	<1	0.80	0.002	0.04	<0.1	0.15	3.2	<0.1	<0.05	2	<0.5	<0.2
REP 1385112	QC	11	0.48	39	0.001	<1	0.80	0.002	0.03	<0.1	0.15	3.1	<0.1	0.05	2	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	116	0.61	284	0.118	<1	0.94	0.093	0.42	3.2	0.18	2.1	5.3	0.15	5	5.0	5.1
STD DS8	Standard	114	0.60	270	0.105	3	0.86	0.085	0.38	2.9	0.17	1.9	5.4	0.20	4	4.6	4.6
STD DS8	Standard	116	0.61	292	0.118	3	0.95	0.114	0.44	3.1	0.21	3.0	5.6	0.16	5	5.3	4.6
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



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Submitted By: Confirmation Email List
Receiving Lab: Canada-Whitehorse
Received: September 26, 2011
Report Date: November 07, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI11001507.1

CLIENT JOB INFORMATION

Project: CCJV
Shipment ID:
P.O. Number
Number of Samples: 13

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.

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

CC: Report Email List

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	13	Crush, split and pulverize 250 g rock to 200 mesh			SMI
3B	13	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX	13	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



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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Project: CCJV
Report Date: November 07, 2011

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CERTIFICATE OF ANALYSIS

WHI11001507.1

	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
55242	Rock	0.64	<2	0.3	44.1	31.2	30	<0.1	22.0	15.5	307	6.07	20.0	1.2	8.2	40	<0.1	0.3	0.6	4	0.64
55243	Rock	0.88	4	0.1	11.3	7.1	19	<0.1	7.9	3.6	306	1.31	1.4	1.9	2.9	1657	<0.1	<0.1	<0.1	8	26.81
55353	Rock	0.91	<2	0.4	9.8	8.0	17	<0.1	7.4	2.7	69	0.88	5.8	2.4	3.2	441	<0.1	<0.1	<0.1	<2	12.95
55354	Rock	2.58	26	<0.1	1.5	16.8	237	<0.1	2.7	0.9	476	0.89	121.1	19.8	0.2	89	0.4	5.9	<0.1	<2	24.07
55355	Rock	0.96	<2	0.5	13.3	20.0	7	<0.1	9.7	3.7	54	1.92	12.5	1.5	2.8	5	<0.1	0.3	0.3	3	0.05
55356	Rock	0.68	<2	0.3	19.7	53.5	43	0.1	9.5	4.1	57	3.37	6.4	2.5	9.2	6	<0.1	0.4	0.6	8	0.04
55357	Rock	1.07	3	<0.1	2.2	2.9	3	<0.1	0.7	0.6	143	0.16	85.2	<0.5	0.3	608	<0.1	0.3	<0.1	<2	31.35
55358	Rock	1.25	<2	0.5	18.1	33.1	14	<0.1	18.0	8.5	68	1.76	22.4	2.7	7.9	8	<0.1	1.0	0.3	2	0.19
55359	Rock	1.17	<2	0.3	15.1	26.8	15	<0.1	14.1	6.5	73	1.47	5.4	<0.5	7.2	9	<0.1	0.2	0.3	2	0.10
55360	Rock	1.10	<2	0.4	7.8	23.6	14	<0.1	6.4	2.9	73	1.04	3.2	<0.5	3.8	346	<0.1	0.1	0.3	3	7.17
55361	Rock	0.79	<2	0.8	24.7	29.5	34	<0.1	16.1	5.2	51	2.55	19.7	1.2	9.3	13	<0.1	0.3	0.3	3	0.04
54638	Rock	1.97	<2	0.2	7.6	4.7	17	<0.1	7.5	5.4	289	1.09	2.0	1.3	1.8	98	<0.1	<0.1	<0.1	2	1.87
54639	Rock	1.30	<2	<0.1	1.4	1.1	4	<0.1	1.7	0.6	287	0.71	<0.5	<0.5	0.8	38	<0.1	<0.1	<0.1	<2	1.76



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Project: CCJV
Report Date: November 07, 2011

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CERTIFICATE OF ANALYSIS

WHI11001507.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
55242	Rock	0.055	18	3	0.02	23	<0.001	<20	0.32	0.013	0.19	<0.1	0.03	<0.1	0.07	2.0	<0.5	<1
55243	Rock	0.012	6	4	0.25	15	<0.001	<20	0.16	0.007	0.04	<0.1	0.07	<0.1	0.27	1.5	<0.5	<1
55353	Rock	0.006	6	2	0.12	35	<0.001	<20	0.14	0.003	0.11	<0.1	0.07	0.1	0.70	0.8	<0.5	<1
55354	Rock	0.019	<1	1	6.63	13	<0.001	<20	0.03	0.009	0.01	0.2	0.09	0.1	<0.05	0.2	<0.5	<1
55355	Rock	0.001	4	7	<0.01	56	<0.001	<20	0.26	0.002	0.19	<0.1	0.16	0.3	2.04	0.4	<0.5	<1
55356	Rock	0.018	18	11	0.30	30	<0.001	<20	0.71	0.009	0.17	<0.1	0.14	<0.1	0.56	0.9	<0.5	2
55357	Rock	0.018	1	<1	2.66	7	<0.001	<20	0.02	0.006	0.02	<0.1	0.02	<0.1	0.05	0.3	<0.5	<1
55358	Rock	0.008	11	3	0.05	46	<0.001	<20	0.28	0.011	0.22	<0.1	0.05	0.2	1.28	0.6	<0.5	<1
55359	Rock	0.008	12	3	0.03	47	<0.001	<20	0.26	0.010	0.22	<0.1	0.03	<0.1	0.90	0.5	<0.5	<1
55360	Rock	0.006	7	3	0.07	59	<0.001	<20	0.25	0.033	0.25	<0.1	0.04	<0.1	0.51	0.5	<0.5	<1
55361	Rock	0.017	27	4	0.02	53	<0.001	<20	0.32	0.035	0.24	<0.1	0.03	<0.1	0.10	0.9	<0.5	<1
54638	Rock	0.012	6	20	0.03	17	<0.001	<20	0.13	0.003	0.05	<0.1	<0.01	<0.1	<0.05	1.0	<0.5	<1
54639	Rock	0.006	2	2	0.46	9	<0.001	<20	0.03	0.001	0.02	<0.1	0.02	<0.1	<0.05	0.1	<0.5	<1



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QUALITY CONTROL REPORT

WHI11001507.1

	Method Analyte Unit MDL	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		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
Reference Materials																					
STD DS8	Standard			13.4	107.1	130.6	320	1.7	40.1	7.9	640	2.51	26.0	111.0	7.0	69	2.5	5.3	6.5	43	0.71
STD OREAS45CA	Standard			1.3	509.3	20.7	60	0.3	251.9	91.1	937	16.54	4.9	43.6	7.1	15	<0.1	0.2	0.2	210	0.43
STD OXC88	Standard		203																		
STD OXC88	Standard		194																		
STD OXH82	Standard		1367																		
STD OXH82	Standard		1295																		
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
STD OXC88 Expected			203																		
STD OXH82 Expected			1278																		
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		<2																		
BLK	Blank		<2																		
Prep Wash																					
G1	Prep Blank		4	0.1	13.9	2.7	43	<0.1	3.7	4.0	541	1.90	0.6	37.6	4.7	70	<0.1	<0.1	<0.1	37	0.45
G1	Prep Blank		2	<0.1	13.2	2.9	46	<0.1	2.8	4.2	573	2.09	<0.5	2.7	6.6	69	<0.1	<0.1	0.1	39	0.57



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QUALITY CONTROL REPORT

WHI11001507.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		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
Reference Materials																			
STD DS8	Standard	0.076	15	120	0.62	297	0.117	<20	0.95	0.096	0.43	2.4	0.19	5.7	0.17	2.1	3.3	5	4.5
STD OREAS45CA	Standard	0.036	16	684	0.14	165	0.134	<20	3.66	0.006	0.07	<0.1	0.03	<0.1	<0.05	36.4	<0.5	18	<0.2
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXH82	Standard																		
STD OXH82	Standard																		
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	
STD OXC88 Expected																			
STD OXH82 Expected																			
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																		
BLK	Blank																		
Prep Wash																			
G1	Prep Blank	0.076	11	7	0.52	163	0.122	<20	0.97	0.112	0.53	<0.1	<0.01	0.3	<0.05	1.9	<0.5	4	<0.2
G1	Prep Blank	0.078	14	3	0.55	173	0.136	<20	1.12	0.133	0.54	<0.1	<0.01	0.4	<0.05	1.8	<0.5	5	<0.2

