

GEOCHEMICAL
ASSESSMENT REPORT
for the
YUKON CARLIN GOLD CORPORATION-
CONSTANTINE METAL RESOURCES LTD
JOINT-VENTURE (CCJV) PROJECT

on the

MAYA Property - Group HM02891¹

AZ 67-174	YE28807-YE28914	owned by Carlin Gold Corporation
JG 51-145	YE28971-YE29065	owned by Carlin Gold Corporation

where work was performed in

July, 2011

in the

Mayo Mining District, Yukon
NTS Sheet 105N11

centered at

UTM NAD 83 Zone 8, 598000E 7059000N

May 30, 2012

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SUMMARY

The Maya property is located in east central Yukon approximately 140 km east of the town of Mayo and 150 km north of the town of Faro. The claim group where work was completed consists of 137 contiguous quartz claims, 114 of which are currently active.

Most of the historically documented exploration in the area has taken place adjacent to the east side of the Maya property. Claims were first staked in the early 1990's following the release of government regional geochemical survey (RGS) data for stream sediment samples collected in the area. Work in 1991 and 1992 consisted of prospecting and reconnaissance sampling and mapping. The area was re-staked in 1997 by Viceroy Exploration who conducted geological mapping, geochemical sampling and hand trenching in 1998. NovaGold Resources Inc. acquired 100% of Viceroy's interest in 1999 and carried out additional geological mapping and geochemical sampling.

The Maya property is located in the Selwyn Basin, an epicratonic sedimentary basin that occupies much of central and southeastern Yukon. The region records deposition of marine sedimentary rocks ranging in age from the Upper Proterozoic through Devonian. The oldest rocks in the area, the Upper Proterozoic to Cambrian Hyland Group, are located to the south of the property. Rocks generally young to the north, with the property itself underlain by Paleozoic rocks of the Gull Lake Formation, Elmer Creek Formation, Earn Group, Keno Hill Quartzite, and Mt. Christie Formation. Undeformed, felsic Cretaceous dykes and granitoid stocks of the Tombstone Suite are the most prominent igneous rocks in the region, and include a sizeable pluton 10 km to the north of the property. Past exploration work has identified several felsic dykes on and near the Maya property that are presumed to be part of the Tombstone Suite.

The CCJV carried out a reconnaissance exploration program on the Maya property from July 21 to July 24, 2011. Past work in the area and Yukon RGS data identified the region as geochemically anomalous with gold deposit potential. The objective of the CCJV program was to further evaluate the property's gold potential, and primarily consisted of contour and ridge soil sample traverses, silt sampling and prospecting.

Work by the CCJV identified weak to moderate, gold +/- arsenic mineralization in soils (high of 49.8 ppb gold and 508.3 ppm arsenic) concentrated in the southern portion of the claim group. The presence of mineralized felsic dykes of presumed Cretaceous age supports the potential for intrusive-related gold mineralization that is well documented elsewhere within the Tintina Gold Belt of Yukon and Alaska. Further work to explore this potential is recommended.

¹ Claim list simplified. Refer to Appendix B for full list.

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- B. Claim List
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1. INTRODUCTION

1.1 Location and Access

The Maya property (“Property”) is located in east central Yukon, approximately 140 km east of the town of Mayo and 150 km north of the town of Faro (Figure 1). Access to the property is by air, with helicopter being the most efficient method of transport for exploration work. The Swan Lake air strip, located 2 km southeast of the south eastern corner of the property, provides a convenient staging area for supplies. The Carlin-Constantine Joint Venture (CCJV) accessed the property by helicopter from a base camp on the North Canol Road, approximately 140 km to the southeast.

1.2 Physiography and Vegetation

The property consists of fairly rugged mountains with elevations ranging from 900m to 1560m. Highest elevation is along a NE-SW trending ridge along the southern portion of the property. Highest elevations are characterized by rubblecrop, talus, and abundant outcrop along the ridges. Lower elevations are covered by cordilleran boreal spruce and fir forest, with abundant alder growth. This vegetation grades into stunted conifers and buckbrush towards the tree line. Alpine tundra vegetation covers higher elevations.

1.3 Claim Details and Property Agreements

The Maya property claim group (HM02891) consists of 137 contiguous quartz claims, totalling 28 square kilometres, located in the Mayo Mining District, Yukon. The property is within NTS Map Sheet 105N11, centered at UTM NAD 83 Zone 8, 598000E 7059000N. A claim summary for the Property is provided in Appendix B. Carlin Gold Corporation (“Carlin”) is the owner on record with the Yukon Mining Recorder. Carlin and Constantine Metal Resources Ltd. collectively hold a 100% interest in the Property, pursuant to a 50/50 joint venture agreement between the two parties (“CCJV”).

The Property was originally part of a larger claim package. The CCJV signed an option agreement dated January 20, 2011 with Ron Berdahl to acquire a 100% interest in the 226 quartz claim Aztec property (claims Azt 1-198 and Jag 1-28), which is adjacent to the east side of the Maya property. Berdahl’s original Aztec property was expanded by the CCJV through staking of the AZ and JG claims. The original 226 claim Berdahl property and those AZ and JG claims that fell within the area of interest defined in the Berdahl property agreement comprise a separate claim group, HM02893, for which a separate assessment report was submitted (Green et al., 2012). The AZ and JG claims outside of the Berdahl area of interest constitute group HM02891, for which data is provided in this report. Between the time of completing exploration work and submission of this assessment report the Property was reduced in size from the original group of 137 claims (note that the original group of 137 is represented in the figures herein).

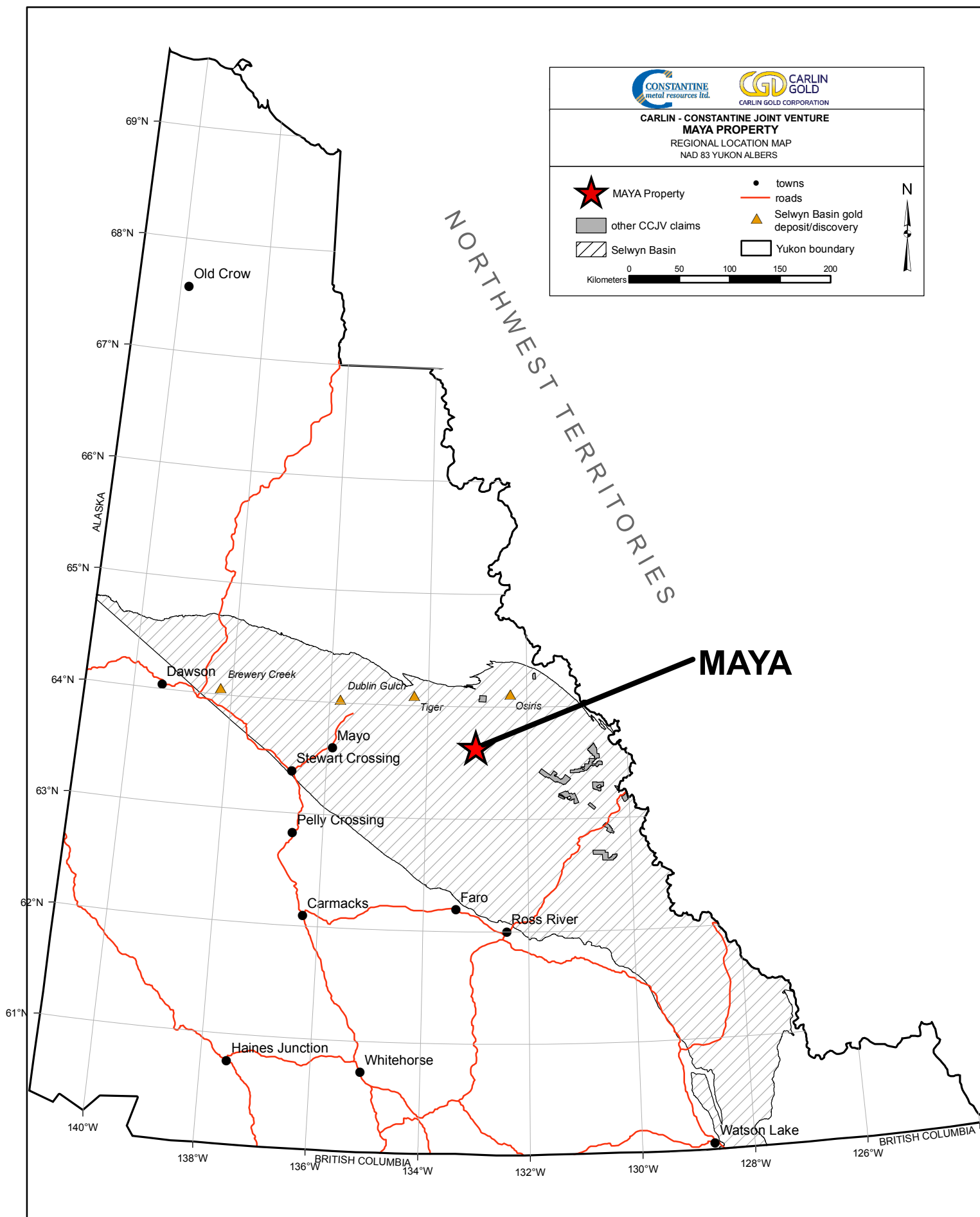
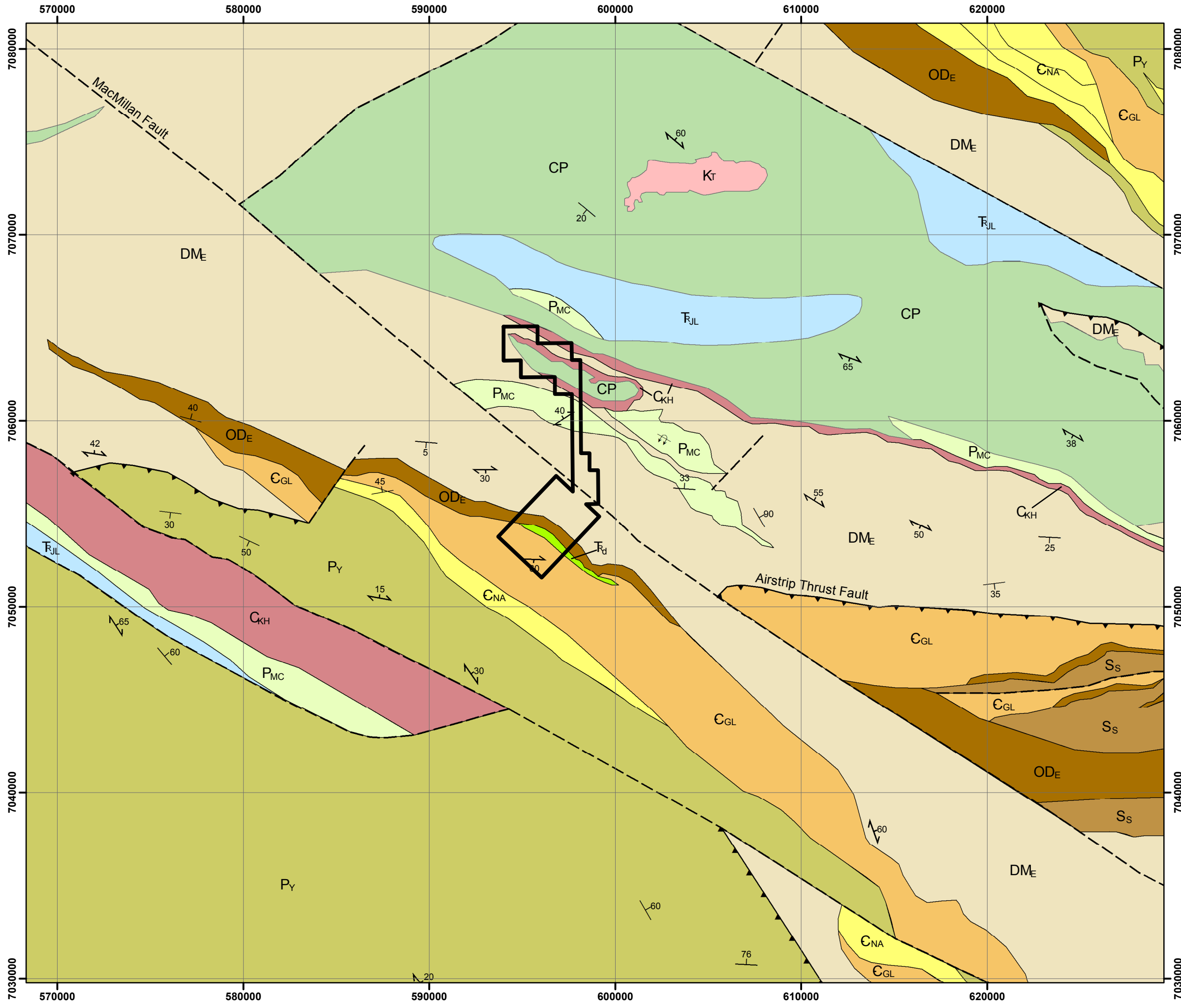


Figure 1. MAYA Property regional location map.





CARLIN - CONSTANTINE JOINT VENTURE
MAYA PROPERTY
REGIONAL GEOLOGY MAP
UTM NAD 83 ZONE 8
1 : 200 000

GEOLOGIC UNITS

K_T

Tombstone Intrusion

T_{rjl}

Jones Lake Formation

T_d

Galena Suite

P_{mc}

Mt. Christie Formation

CP

CP

C_{kh}

Keno Hill Quartzite

EARN GROUP

D_{me}

Earn Group

ROAD RIVER GROUP

S_s

Steel Formation

O_{de}

Elmer Creek Formation

C_{gl}

Gull Lake Formation

HYLAND GROUP

C_{na}

Arrowhead Lake Member

P_y

Yusezyu Formation

OTHER

claim boundary

bedding

fault

foliation

0

5

10

15

Kilometers

Figure 2. Regional Geology of the MAYA property (modified from Roots, 2003).

1.4 Exploration History

The Yukon MINFILE database does not indicate any documented historic exploration on the The Maya property. Exploration has been conducted on the adjacent claims to the east, however. This historic activity is documented in the mineral assessment report by Green et al (2012) and is reproduced here as follows:

“According to the Yukon MINFILE database (Deklerk, 2007), the area was first staked as the Caribou, Candy, Flower, Jane, Red, and Can claims by R. Berdahl, who prospected and sampled the area in 1991 and 1992. These claims lapsed in early 1997, and after a brief period of reconnaissance work a portion of the area was re-staked by Viceroy Exploration as the Lightning and Tempest claims in July 1997. Viceroy conducted geological mapping, geochemical (rock, silt and soil) sampling and hand trenching in 1998. NovaGold Resources Inc. acquired 100% of Viceroy’s interest in the Tempest and Lightning claims in 1999, and carried out additional geological mapping and geochemical (rock, silt and soil) sampling across the central and northwest areas of the claim group.

In early 1998, Prospector International Resources Inc. staked the Got It, Big Time, and Gotcha claims, which were contiguous to the north, south and west sides of Viceroy’s property, and carried out an aeromagnetic survey of the area.”

2. GEOLOGICAL SETTING

2.1 Regional Geology

The Property is located in the Selwyn Basin. The Selwyn Basin lies on the northeast side of the Tintina Trench, within the northwestern Omineca Belt that extends northward from British Columbia, through Yukon and northwest into Alaska. The Selwyn Basin occupies much of central and southeastern Yukon (Fig. 1) and extends east into the southeast edge of the Northwest Territories (Goodfellow, 2007). It comprises the offshore 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 Robert Service thrust is mapped within 12 miles south of the Property.

The Property is located near the eastern edge of the Tintina gold belt (TGB). The TGB follows an arcuate trend of mid- to late- Cretaceous granitoid intrusions extending from eastern Alaska, across central Yukon to the common Yukon-British Columbia-Northwest Territories border, roughly parallel to the accretionary ancestral North American craton boundary. These intrusions are referred to as “Tombstone Suite” intrusions, and also referred to in the Yukon as the Selwyn

Intrusive Suite. In southeast Yukon the 98-92 Ma Tombstone/Selwyn intrusions were emplaced into folded and faulted stratigraphy of the Selwyn Basin. These granitoids were intruded following a period of terrane collision, crustal thickening and lower greenschist-facies metamorphism.

2.2 Property Geology

The CCJV has not conducted geological mapping on the Property. Description of the local geology provided herein (Table 1, Figure 2) is adapted primarily from Bedrock Geology of Lansing Range map area NTS 105N (1:250,000 scale; Roots, 2003). The region records deposition of marine sedimentary rocks from the Upper Proterozoic through to the Triassic. The oldest rocks in the area, the Upper Proterozoic to Cambrian Hyland Group (Yusezyu and Narchilla Formations), are located to the south of the property. Within the Property, rocks generally young to the north. Units include, from oldest to youngest, the Gull Lake Formation, Elmer Creek Formation of the Road River Group, Earn Group, Keno Hill Quartzite, and Mt. Christie Formation (Figure 2). Triassic age rocks of the Jones Lake Formation are located to the north of the property.

Undeformed, felsic Cretaceous dykes and granitoid stocks of the Tombstone Suite are the most prominent igneous rocks in the region, and include a sizeable pluton 10 km to the north of the property. A northwest striking, 6.5 km long by several hundred meter wide dyke has been mapped over the southern portion of the Maya property. Roots (2003) assigned the dyke to the Galena Suite, which is described as metadiorite and metagabbro; however, earlier maps (e.g. Roots et al., 1995) and digital geology files (Gordey and Makepeace, 1999) assign the dyke to the Tombstone Suite. Felsic (rhyolite?) rocks identified during prospecting by the CCJV in the area of the mapped dyke better match descriptions of Tombstone Suite dykes than Galena Suite dykes, which are otherwise confined in the Lansing Map Sheet to an area 50 km to the north-northwest.

Early Cretaceous northeast-southwest contraction resulted in upright folding of upper Paleozoic strata, both high- and low-angle thrusts within Proterozoic and lower Paleozoic rocks and development of slaty cleavage within incompetent units (Roots et al., 1995). The most prominent structure to transect the Maya property is the northwest trending, high-angle regional-scale Macmillan Fault that records south side up displacement. At a more local-scale, low angle thrusts are also documented on the property.

Table 1. Geologic Units of the Maya Property (Roots, 2003).

Unit	Name	Age	Description
KT	Tombstone Intrusion	Cretaceous	Mesocratic granitic plugs and plutons: white-weathering, fine to medium grained, hornblende and/or biotite granodiorite, quartz monzonite and quartz diorite
TJL	Jones Lake Formation	Triassic	Calcareous cross-bedded arenite; slate, sandy slate, limestone, calcareous black shale, micaceous, calcareous siltstone, sandstone; grey, non-calcareous shale
Td	Galena Suite	Triassic	Amphibole-chlorite (rare augite) metagabbro; locally concordant with foliation.
PMC	Mt Christie Formation	Carboniferous to Permian	Green-grey laminated sediments: orange-brown-, buff- and pink-weathering siliceous siltstone, laminated and burrowed with trace fossils on undersides of beds locally abundant grey barite nodules.
CP	Tsichu Group? undifferentiated	Carboniferous to Permian	1. Orange-brown and dark grey weathering, slightly calcareous, bioturbated and micaceous black siltstone and slate interbedded with laminated fine-grained quartz sandstone, green shale and chert; thick bedded fine-grained quartzite, buff green phyllite. 2. Brown weathering, dark grey sandy limestone bed
CKH	Keno Hill Quartzite	Lower Carboniferous	Massive to thick bedded grey-brown weathering, banded grey and black, fine-grained quartzite, thin interbeds of black shale or carbonaceous schist, siliceous argillite and white limestone.
DME	Earn Group undifferentiated	Middle Devonian and Early Carboniferous	Black siliceous shale and chert containing conglomeratic submarine fan and channel deposits, minor mafic and felsic volcanic occurrences. 1. Brown weathering micaceous quartz sandstone, parallel and ripple cross laminated, minor siltstone, 2. Silver- and blue-weathering well-bedded siliceous mudstone, platy and graphitic. 3. Gossanous white and yellow weathering, thin to medium bedded, white, light grey and black chert. Blue and brown weathering siliceous shale; grades upward to thin to medium bedded, white and yellow weathering black chert. 4. Dark blue-grey weathering, siliceous carbonaceous siltstone and mudstone, thin-bedded black chert; conglomerate and grit with chert clasts, minor white weathering limestone. 5. Amygdaloidal flows and breccia east of Fairweather Lake 6. Siliceous slate, carbonaceous schist, meta-chert and meta-conglomerate, north and west of Penape Lake.
SS	Road River Group: Steel Formation	Ordovician to Lower Devonian	Rusty dark green to orange-brown weathering, green siliceous argillite and dolomitic siltstone with members or partings of orange-weathering, thin-bedded beige dolostone, tan-weathering limestone and black calcareous shale and chert

ODE	Road River Group: Elmer Creek Formation	Ordovician to Lower Devonian	Black, gun-blue or silvery weathering black graptolitic shale, and black chert; resistant grey weathering, thin to medium bedded, light grey to black greenish grey or turquoise chert, minor argillaceous limestone
CGL	Gull Lake Formation	Middle Cambrian to Ordovician	Olive and brown siltstone, black argillite and shale; thin interbedded limy shale and argillaceous limestone between Pleasant Creek and Hess River
CNA	Hyland Group: Narchilla Formation - Arrowhead Lake Member	Upper Proterozoic to Middle Cambrian	Maroon and brick-red argillite siltstone and purple/green slate. 1. Brown sandstone and pebble conglomerate with clasts of maroon argillite
PY	Hyland Group: Yusezyu Formation	Upper Proterozoic to Middle Cambrian	Sandstone, grit, psammite, metaconglomerate, chloritic metasiltstone; includes carbonaceous phyllite or graphitic slate near base; grey limestone and marble lenses near top, where not mapped separately. 1. Pale weathering fine-grained chlorite schist with laminar quartz-feldspar segregations, foliated metavolcanic siltstone.

3. WORK PROGRAM

3.1 Work Program Overview

Initial work on the Maya property was completed as part of a larger property package described in Section 1.3 above. This included compilation and digitizing of historic exploration work, government geology and regional silt geochemistry. Based on the initial compilation work, a field program was designed to provide broad-brush reconnaissance level coverage over most of the original property, with the objective of identifying the presence of a large gold system. The work included contour and ridge soil sampling, silt sampling and prospecting, with an emphasis on the large areas of the property that had a low density of historic sampling.

Fieldwork on the Maya property was executed over the course of 3 days from July 21st to July 24th. Fifteen individuals participated in the program. A portion of the field crew established a small fly-camp at Swan Lake airstrip, whereas the remaining crew were transported daily from a base camp on the North Canol road.

3.2 Geochemical Sampling

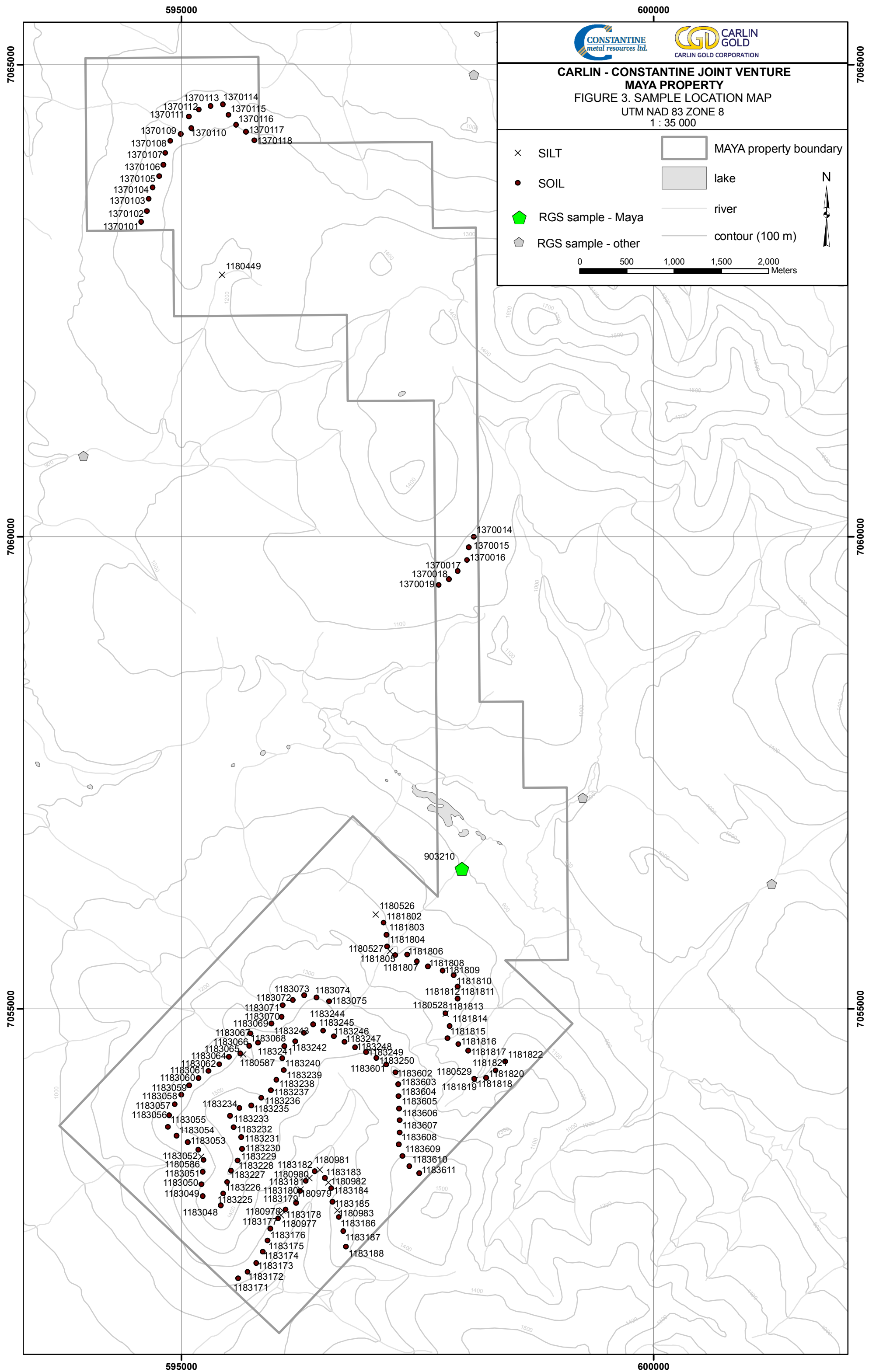
A total of 141 samples were collected at the Maya property; 14 silts, and 127 soils. Contour soil sampling was the principal sampling approach, with nominal sample spacing at 125 m and silt samples collected where soil lines cross drainages. Sample locations are shown on Figure 3.

3.3 Sample Preparation and Procedures

All soils and silt samples collected were dried and sieved on site (North Canol base camp) and analyzed with a portable XRF unit prior to shipping to Acme Analytical Laboratories (“AcmeLabs”) in Vancouver, B.C.

3.3.1 Sampling Procedure

Soils were collected in Kraft Wet Strength 4” by 6” soil bags, and silts in Hubco New Sentry 5” by 8.5” bags. These bags were pre-labeled and inserted with two out 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 any notes and/or descriptions which was then recorded in the database. Each sample type had a unique sample series. Silts, have a 9-digit sample number starting with a “1180XXX”, and the soils have a 9-digit sample number starting with a “118XXXX”. Samples were collected using the blade portion of a Geotul, and dug to depths ranging from 0.15 cm to 0.50 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 is locally present.



3.3.2 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.

3.3.3 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 other part of the 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.

3.3.4 XRF Sample Cup Preparation

A small portion of the -80 mesh sieved sample was placed into a sample cup for analysis by the XRF analyzer. Material was poured into a 32 mm Double-Open Ended with Ventable Reservoir Cap Universal XRF sample cups until 3/4 full, which was then covered with a 0.24 μm thick Polypropylene film. The sample powder was pressed tightly with cotton balls, 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.

3.4 XRF Analysis

3.4.1 XRF Analyzing Procedure

All prepared samples were analyzed with the Thermo Scientific Niton Gold XL3t 500 GOLDDTM 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 analysis and operations with the XRF was 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 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 Acme laboratory in Vancouver, B.C., for further analysis.

3.4.2 XRF Data Analysis

The stand mounted handheld XRF analyzer was mainly used for arsenic determination. Arsenic produced the most consistent and reliable data of the pathfinders 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 (Figure 4). Excellent correlation of the data is demonstrated by a coefficient of determination factor of 0.991 (based on entire CCJV 2011 Yukon dataset).

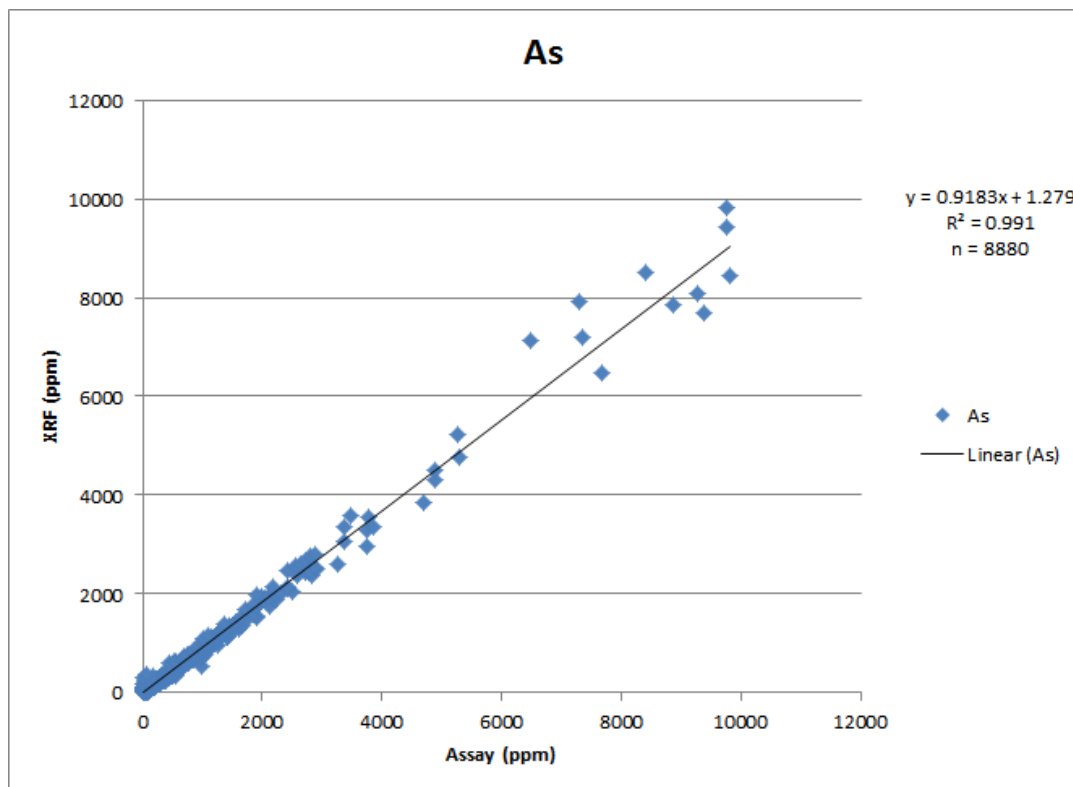


Figure 4. XRF linear regression analysis for Arsenic

3.5 Assay Procedure

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

3.6 Personnel

Exploration work applicable for assessment credit was completed by the following personnel:

Geologists:

Darwin Green
Robert Thomas
K. Wayne Livingstone
Nathan Steeves
Aisyah Abdkahar

Prospectors

Mervin Quinlan
Andy Budden

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

Roy Greig, Crew Chief (Geologist)
Hannah Grimson
Mairi Greig
Brittney Bidlake
Kei Quinn
Kelsey Rufiange
Thomas Sly

Pilot:

Taylor Morrison, Kluane Helicopter

3.7 Expenditures

Expenditures for the 2011 work program on the Maya property are tabulated in Table 2 below.

Table 2. Table of Expenditures for the MAYA Property

Statement of Expenditures - MAYA Property (Group # HM02891)			
July 2011 Reconnaissance Field Program - Soils, Silts, and Prospecting			
LABOUR	UNIT	RATE	TOTAL
Project Manager (R.Thomas)	1	600	600
Crew Chief (R.Greig)	1	400	400
Geologist/Dbase Manager	2	350	700
Sample Crew (C.G Greig and Associates + other)	5	315	1,575
Prospectors	2	400	800
Sample prep crew and XRF analyzer	4	315	1,260
subtotal			5,335
GEOCHEMISTRY	UNIT	RATE	TOTAL
Assay cost (Acme Analytical)			2,648
Shipping			240
subtotal			2,888
CAMP COSTS	UNIT	RATE	TOTAL
Room and Board (all-in camp costs per head)*	15	225	3,375
Field Supplies			440
subtotal			3,815
FIELD TRANSPORTATION	UNIT	RATE	TOTAL
Helicopter + Fuel (Kluane Helicopters)			5,900
Fixed Wing (Alkan Air)			860
subtotal			6,760
REPORT WRITING			2,500
TOTAL			21,298

* 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

The Geological Survey of Canada in conjunction with the Yukon Government conducted a regional stream sediment (silt) and water geochemical survey within map sheet NTS105N in 1990 that analyzed for 39 elements (Friske et al., 1991). The Yukon Geological Survey has made this data (RGS data) available in digital form. The survey identified numerous streams within the original Aztec property region anomalous in gold, arsenic and several other elements (e.g. copper, cadmium, barite, mercury, and antimony). Only one RGS sample is located on the Maya property (Table 3). This sample, #903210, contained 19 ppb gold and 1.4 ppm silver, both in the 95th percentile for the Selwyn Basin portion of the RGS database (8,119 samples).

Table 3. RGS Data for the MAYA 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)
903210	105N	19	30	352	6.8	78	10	15	2300	6.9	0.5	410
	903210											

4.2 Results of 2011 Geochemical Sampling

Soils

A total of 126 soil samples were collected on the Maya property. Gold values ranged from 0.5 to 49.8 ppb. Of these, 10 samples assayed 10 ppb gold or greater, including 2 samples assaying 20 ppb gold or greater. Arsenic values range from 0.5 to 508.3 ppm, with 3 samples assaying 50 ppm arsenic or greater. A widespread and relatively consistent area of weak to moderately anomalous gold (10-49.8 ppb) in soils is present over the southern area of the property (Figure 5). A statistics summary for soils collected in the Maya property is provided in Table 4.

Table 4. Statistics for soil samples in the MAYA Property (126 samples)

	Au (ppb)	As (ppm)	Hg (ppm)	Sb (ppm)	Tl (ppm)	Ag (ppm)	Cu (ppm)	Zn (ppm)	Ni (ppm)	Pb (ppm)	Bi (ppm)
Max	49.8	508	3	22	2	13	316.8	685	277.2	38	0
Mean	5.17	21.47	0.14	3.03	0.07	1.3	45.96	130.9	34.23	12.8	0
Standard Deviation	6.05	45.33	0.43	3.13	0.29	2.13	42.29	119.27	36.84	4.87	0
95th percentile	11.5	39	1	8	1	6	123.2	470	108.1	6	0

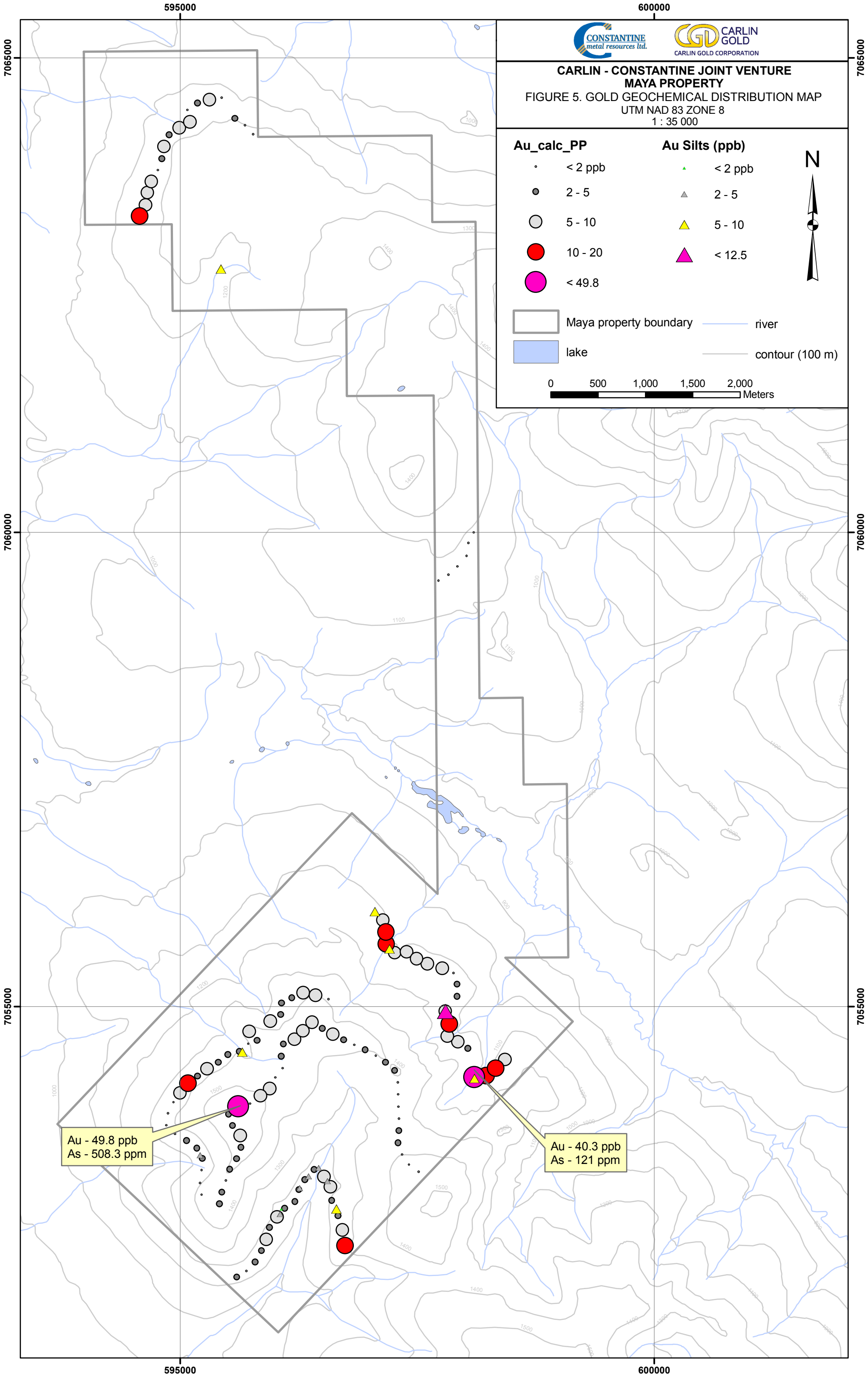
Silts

A total of 14 silt samples were collected on the Maya property. Gold values range from 1.2 to 12.5 ppb gold. The high sample is equivalent to the 90th percentile for the Selwyn Basin subset of the Yukon RGS database. Arsenic values range from 9.3 to 45.2 ppm (equivalent to 90th percentile for the RGS Selwyn Basin subset database).

5. DISCUSSION AND CONCLUSIONS

The CCJV carried out a reconnaissance exploration program on the Maya property from July 21 to July 24, 2011. The program was part of an initial exploration evaluation of a larger property package, called the Aztec property. Past work in the area documented in MINFILE reports and Yukon RGS data identified the region as geochemically anomalous with gold deposit potential. The objective of the CCJV program was to further evaluate the property's gold potential, and primarily consisted of contour and ridge soil sample traverses, silt sampling and prospecting. Work by the CCJV identified areas of weak to moderate, gold +/- arsenic mineralization in soils, mainly clustered on the southern part of the Property, with highest values 49.8 ppb gold and 508.3 ppm arsenic.

One of the original exploration targets in the Property area was Carlin-type mineralization. No evidence for this style of mineralization was identified during the 2011 field program, and the general lack of significant carbonate within the rock units seen suggest low potential for Carlin-type mineralization. The weak to moderately anomalous soil geochemistry encountered on the south portion of the Property may be related to a Cretaceous-age felsic dike which is depicted on the regional published geology maps. Potential therefore exists for intrusive-related gold mineralization, similar to that documented elsewhere within the Tintina Gold Belt of Yukon and Alaska. Such a deposit at Maya would likely be a high-level or distal end member of the intrusive-related class given the apparent absence of a central granitoid pluton, stock or plug.



6. RECOMMENDATIONS

Additional soil sampling, prospecting, rock sampling and mapping is recommended on the south part of the Property where weak to moderately anomalous gold geochemistry has been encountered, particularly in the area of the felsic dikes.

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APPENDIX A

Statement of Qualifications

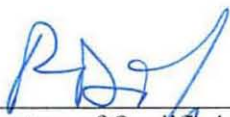
STATEMENT OF QUALIFICATIONS

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 Maya 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 30th Day of May, 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 Maya 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 30th Day of May, 2012.



Signature of Qualified Person

"Darwin Green"
Print name of Qualified Person

APPENDIX B

Claim Details

APPENDIX B. CLAIM DETAILS FOR THE MAYA PROPERTY

CLAIM	GRANT NO.	CLAIM OWNER	RECORDED DATE	EXPIRY DATE	NTS SHEET
AZ 67	YE28807	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 69	YE28809	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 71	YE28811	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 73	YE28813	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 101	YE28841	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 102	YE28842	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 103	YE28843	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 104	YE28844	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 105	YE28845	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 106	YE28846	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 107	YE28847	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 108	YE28848	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 109	YE28849	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 110	YE28850	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 111	YE28851	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 112	YE28852	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 113	YE28853	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 115	YE28855	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 117	YE28857	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 119	YE28859	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 121	YE28861	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 123	YE28863	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 125	YE28865	Carlin Gold Corporation - 100%	15/03/2011	15/03/2012	105N11
AZ 127	YE28867	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 129	YE28869	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 131	YE28871	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 133	YE28873	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 135	YE28875	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 136	YE28876	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 137	YE28877	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 138	YE28878	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 139	YE28879	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 140	YE28880	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 141	YE28881	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 142	YE28882	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 143	YE28883	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 144	YE28884	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 145	YE28885	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 146	YE28886	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 147	YE28887	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 148	YE28888	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 149	YE28889	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 150	YE28890	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 151	YE28891	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 152	YE28892	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 153	YE28893	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 154	YE28894	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 155	YE28895	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 156	YE28896	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 157	YE28897	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 158	YE28898	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 159	YE28899	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 160	YE28900	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11
AZ 161	YE28901	Carlin Gold Corporation - 100%	15/03/2011	15/03/2013	105N11

APPENDIX B. CLAIM DETAILS FOR THE MAYA PROPERTY

[illegible]

APPENDIX B. CLAIM DETAILS FOR THE MAYA PROPERTY

CLAIM	GRANT NO.	CLAIM OWNER	RECORDED DATE	EXPIRY DATE	NTS SHEET
JG 102	YE29022	Carlin Gold Corporation - 100%	15/03/2011	15/03/2014	105N11
JG 113	YE29033	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 114	YE29034	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 115	YE29035	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 116	YE29036	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 117	YE29037	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 118	YE29038	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 119	YE29039	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 120	YE29040	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 121	YE29041	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 122	YE29042	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 123	YE29043	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 124	YE29044	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 125	YE29045	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 126	YE29046	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 132	YE29052	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 133	YE29053	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 134	YE29054	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 135	YE29055	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 136	YE29056	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 137	YE29057	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 138	YE29058	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 139	YE29059	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 140	YE29060	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 141	YE29061	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 142	YE29062	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 143	YE29063	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 144	YE29064	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11
JG 145	YE29065	Carlin Gold Corporation - 100%	15/03/2011	15/03/2015	105N11

APPENDIX C

Assay Certificates



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

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

Submitted By: Confirmation Email List
Receiving Lab: Canada-Vancouver
Received: August 04, 2011
Report Date: September 04, 2011
Page: 1 of 9

CERTIFICATE OF ANALYSIS

VAN11003704.1

CLIENT JOB INFORMATION

Project: CCJV
Shipment ID:
P.O. Number AZ-03
Number of Samples: 231

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
No Prep	231	Sorting of samples on arrival and labeling			VAN
1DX2	230	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.



Acme Analytical Laboratories (Vancouver) Ltd.
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Acme Analytical Laboratories (Vancouver) Ltd.

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

Project: CCJV
Report Date: September 04, 2011

Page: 2 of 9 Part 1

CERTIFICATE OF ANALYSIS

VAN11003704.1

Method	Analyte	Unit	MDL	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
1180522	Soil Pulp		1.8	3.1	3.8	83	0.8	22.8	1.8	3.1	1.88	3.1	3.8	1.8	1.8	3.1	1.8	3.8	2.8	1.24	0.178	1	
1180523	Soil Pulp		3.8	35.8	3.1	187	3.5	38.8	3.7	38.1	1.84	18.8	3.8	3.8	58	1.1	3.8	3.8	3.8	3.54	3.188	13	
1180524	Soil Pulp		3.8	18.8	11.8	117	3.1	38.8	3.8	15.1	3.88	18.1	1.1	3.8	58	3.8	3.8	3.8	3.8	3.58	3.154	13	
1180525	Soil Pulp		3.18	3.18	15.8	187	3.8	15.8	1.8	38	3.87	18.1	3.8	3.8	188	1.8	38.8	3.8	3.8	3.88	3.178	3	
1180526	Soil Pulp		3.8	3.18	18.8	184	1.8	18.8	3.8	17.8	3.88	18.8	18.7	3.8	3.8	1.8	3.1	3.8	3.18	3.188	3		
1180527	Soil Pulp		18.8	18.8	15.5	184	1.8	18.8	3.7	115	1.84	38.8	3.8	1.1	38	1.1	18.1	3.8	1.8	3.84	3.385	7	
1180528	Soil Pulp		7.8	37.5	18.8	357	3.8	55.8	1.7	378	3.18	38.8	3.8	1.1	75	3.8	7.5	3.8	3.8	3.11	3.374	7	
1180529	Soil Pulp		11.5	18.1	18.7	155	3.8	17.1	3.7	188	1.88	38.8	3.5	3.8	3.1	1.8	38.8	3.8	7.1	3.37	3.145	5	
1180530	Soil Pulp		3.1	3.1	18.8	174	3.8	3.18	3.2	288	2.84	38.8	1.8	2.1	1.8	3.8	3.8	3.8	1.8	3.11	3.184	3	
1180531	Soil Pulp		3.7	18.7	18.1	114	1.8	38.8	3.8	5.11	1.88	38.8	18.8	1.1	58	1.8	3.8	3.8	3.7	3.11	3.118	13	
1180532	Soil Pulp		18.7	38.8	11.8	188	1.8	38.7	18.8	1888	3.54	38.8	3.8	1.8	3.8	3.7	3.7	3.8	3.88	3.118	13		
1180533	Soil Pulp		1.8	11.8	18.8	388	3.8	78.7	18.8	388	3.88	11.1	3.8	3.8	78	1.8	3.8	3.1	1.8	3.88	3.188	13	
1180534	Soil Pulp		3.8	38.8	11.2	188	1.8	3.18	18.1	328	3.88	18.2	2.8	1.8	38	18.8	3.8	3.1	3.88	3.212	14		
1180535	Soil Pulp		18.2	38.1	12.1	188	2.7	38.7	11.8	387	3.87	2.18	3.8	1.8	117	1.8	18.2	3.2	11	3.18	3.288	3	
1180536	Soil Pulp		3.1	288.2	2.8	1.8	3.8	3.8	3.8	188	3.188	1.8	3.8	3.8	17	3.1	18.7	3.1	11	3.88	3.888	14	
1180537	Soil Pulp		3.1	18.1	11.8	184	3.8	12.1	3.8	128	2.84	18.8	11.8	3.8	38	3.8	3.8	3.2	2.8	3.11	3.388	3	
1180526	Soil Pulp		25.2	88.2	10.2	542	1.0	90.8	8.2	304	2.32	27.8	6.0	3.1	92	6.0	11.4	0.1	113	1.93	0.117	14	
1180527	Soil Pulp		10.5	69.1	10.2	375	1.3	68.4	14.1	610	2.84	37.9	9.8	1.7	58	3.6	6.0	0.2	56	0.74	0.129	13	
1180528	Soil Pulp		23.1	73.5	10.1	628	1.3	96.2	9.9	504	2.14	41.8	12.5	1.9	51	5.2	12.6	0.2	61	0.64	0.108	16	
1180529	Soil Pulp		12.5	66.8	10.4	551	2.0	139.8	14.9	1670	2.61	27.8	6.0	1.2	86	5.2	5.5	0.1	59	0.56	0.165	10	
1180538	Soil Pulp		3.8	38.8	11.7	188	1.8	2.18	3.8	287	2.18	3.12	11.8	1.8	38	3.1	1.8	3.1	1.8	3.11	3.888	1	
1180539	Soil Pulp		2.8	3.18	12.1	3.8	3.8	17.1	3.8	248	3.18	22.2	3.1	1.1	38	3.1	2.8	3.2	1.8	3.11	3.387	1	
1180540	Soil Pulp		3.1	18.8	11.8	117	1.8	3.18	1.7	348	2.88	18.8	3.1	188	3.1	1.8	3.2	38	3.88	3.288	3		
1180586	Soil Pulp		2.8	40.8	12.6	83	0.3	26.5	10.7	277	2.61	9.3	2.4	1.6	56	0.4	1.2	0.1	19	0.92	0.153	14	
1180587	Soil Pulp		11.2	116.8	12.2	2895	4.4	328.2	8.9	372	2.71	32.7	6.3	0.6	69	33.6	10.4	0.2	92	0.59	0.238	14	
1180530	Soil Pulp		1.8	11.7	18.1	38	1.1	22.1	12.7	348	1.17	28.1	3.1	2.1	114	3.2	3.8	3.2	1.8	3.87	3.884	18	
1180533	Soil Pulp		1.8	18.1	1.8	18.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
1180535	Soil Pulp		3.8	38.8	12.8	3.11	3.8	118.8	38.1	7248	3.88	2.18	3.8	1.7	38	1.8	3.7	3.8	2.8	3.87	3.877	3	
1180584	Soil Pulp		3.8	18.1	11.8	384	3.8	38.8	3.8	188	1.84	18.8	11.8	3.7	178	3.8	7.8	3.8	17	3.84	3.118	7	
1180585	Soil Pulp		3.1	318.5	11.8	358	3.8	188.1	38.1	18888	1.78	11.1	3.8	1.5	3.1	3.1	1.8	3.8	1.5	3.85	3.888	3	

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.



Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **Carlin Gold Corporation**
320 - 800 West Pender Street
Vancouver BC V6C 2V6 Canada

Project: CCJV
Report Date: September 04, 2011

Page: 2 of 9 Part 2

CERTIFICATE OF ANALYSIS

VAN11003704.1

Method	Analyte	Unit	MDL	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
1180502	Soil Pulp	14	0.88	292	0.003	2	0.79	0.003	0.08	0.1	0.12	1.1	0.1	0.03	2	0.1	0.2		
1180503	Soil Pulp	18	0.87	334	0.003	3	0.83	0.005	0.13	0.1	0.15	1.7	0.1	0.13	3	1.3	0.3		
1180504	Soil Pulp	19	0.44	535	0.007	3	0.73	0.004	0.07	0.3	0.13	0.1	0.1	0.03	3	1.3	0.3		
1180505	Soil Pulp	11	0.33	314	0.005	3	0.52	0.003	0.03	0.1	0.13	1.5	1.3	0.05	3	15.7	0.3		
1180506	Soil Pulp	11	0.32	1743	0.003	1	0.32	0.001	0.03	0.1	0.02	1.1	0.2	0.03	2	1.1	0.3		
1180514	Soil Pulp	7	0.31	377	0.003	1	0.53	0.004	0.05	0.1	0.74	1.4	0.3	0.13	1	7.4	0.3		
1180515	Soil Pulp	13	0.45	1334	0.003	1	0.33	0.003	0.05	0.1	0.53	1.5	0.3	0.14	3	5.3	0.3		
1180516	Soil Pulp	13	0.43	133	0.007	1	0.43	0.003	0.07	0.1	0.33	1.3	0.3	0.03	3	15.3	0.3		
1180517	Soil Pulp	14	0.23	334	0.011	1	0.34	0.003	0.03	0.1	0.03	2.3	0.3	0.14	3	2.4	0.2		
1180518	Soil Pulp	13	0.33	333	0.004	3	0.35	0.003	0.07	0.1	0.33	0.1	0.3	0.03	3	1.3	0.3		
1180519	Soil Pulp	13	0.47	334	0.003	3	0.33	0.003	0.03	0.1	0.03	0.1	0.3	0.03	1	1.1	0.3		
1180521	Soil Pulp	3	0.14	337	0.004	1	0.33	0.003	0.04	0.1	0.03	1.3	0.1	0.03	1	1.7	0.3		
1180523	Soil Pulp	14	0.33	334	0.002	1	0.43	0.002	0.04	0.1	0.03	2.3	0.1	0.03	1	0.1	0.2		
1180524	Soil Pulp	13	0.14	1333	0.003	1	0.33	0.003	0.03	0.1	0.23	1.7	0.3	0.12	2	7.4	0.3		
1180525	Soil Pulp	13	0.32	33	0.002	1	0.37	0.002	0.03	0.1	0.14	2.3	0.1	0.02	1	13.4	0.3		
1180526	Soil Pulp	14	0.43	1333	0.003	1	0.43	0.002	0.03	0.1	0.13	1.3	0.1	0.12	2	2.3	0.2		
1180526	Soil Pulp	14	1.00	360	0.005	<1	0.48	0.003	0.11	<0.1	0.30	2.6	0.5	0.11	1	5.4	<0.2		
1180527	Soil Pulp	18	0.28	574	0.003	3	0.79	0.002	0.08	<0.1	0.48	3.3	0.2	0.10	2	3.6	<0.2		
1180528	Soil Pulp	9	0.12	330	0.002	<1	0.38	0.002	0.05	<0.1	0.62	2.1	0.3	0.10	1	3.5	<0.2		
1180529	Soil Pulp	16	0.18	459	0.003	1	0.54	0.002	0.06	0.1	0.42	2.2	0.2	0.10	2	4.7	<0.2		
1180530	Soil Pulp	3	0.13	1444	0.003	1	0.33	0.003	0.03	0.1	0.03	1.3	0.2	0.12	1	0.3	0.2		
1180531	Soil Pulp	3	0.14	1433	0.002	1	0.33	0.002	0.02	0.1	0.02	1.4	0.1	0.13	1	2.2	0.2		
1180532	Soil Pulp	3	0.14	1433	0.004	2	0.34	0.003	0.03	0.1	0.02	1.4	0.3	0.13	1	0.3	0.2		
1180586	Soil Pulp	12	0.50	168	0.004	2	0.79	0.002	0.06	<0.1	0.12	1.9	<0.1	0.07	2	0.9	<0.2		
1180587	Soil Pulp	24	0.22	594	0.004	2	0.75	0.003	0.08	0.2	0.81	1.5	0.6	0.14	2	7.9	<0.2		
1180588	Soil Pulp	14	0.33	333	0.003	1	0.33	0.003	0.14	0.1	0.12	1.2	0.3	0.24	2	0.3	0.2		
1180589	Soil Pulp	13	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31		
1180590	Soil Pulp	13	0.43	333	0.003	1	0.33	0.003	0.04	0.1	0.03	2.3	0.2	0.13	2	3.7	0.3		
1180594	Soil Pulp	13	0.45	1333	0.005	1	0.73	0.003	0.07	0.2	1.33	0.3	0.7	0.13	3	1.3	0.3		
1180595	Soil Pulp	13	0.43	53	0.003	1	7.73	0.003	0.03	0.1	0.47	0.4	0.4	1.34	3	0.3	0.3		

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Project: CCJV
Report Date: September 04, 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	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
1180969	Soil Pulp			2.8	36.7	12.1	182	3.8	27.1	7.8	118	2.22	18.8	1.8	82	8.1	2.8	8.2	28	8.18	8.881	8		
1180970	Soil Pulp			8.8	18.1	18.8	112	8.1	8.1	18.8	188	2.11	18.1	8.8	82	8.8	8.1	8.1	88	8.12	8.118	18		
1180971	Soil Pulp			88.8	88.8	18.8	888	1.8	188.8	18.8	888	8.18	88.8	8.8	188	18.8	88.8	8.8	188	8.88	8.188	8		
1180972	Soil Pulp			17.8	88.8	8.8	888	1.8	18.8	1.1	88	18.88	88.8	1.8	88	1.8	81.8	8.1	181	8.88	8.888	88		
1180973	Soil Pulp			8.8	88.8	17.1	188	8.8	88.8	18.8	888	8.81	88.8	8.1	1.8	88	1.8	8.8	8.1	18	1.18	8.188	18	
1180978	Soil Pulp			2.8	40.8	11.8	95	0.3	29.9	11.4	334	2.70	13.6	1.2	3.0	41	0.5	1.8	0.1	23	0.63	0.146	15	
1181088	Soil Pulp			1.1	88.1	12.8	78	8.1	18.1	1.8	18	188	8.8	18.8	8.2	188	1.8	1.1	8.8	88	8.88	8.118	8	
1181089	Soil Pulp			8.8	8.8	8.1	88	8.1	18.8	8.8	88	188	8.8	8.8	8.1	78	8.1	1.1	8.8	128	8.18	8.821	11	
1181090	Soil Pulp			8.8	88.8	8.8	118	8.8	88.8	88.1	888	8.88	8.8	8.8	1.8	88	8.8	1.8	8.1	8.1	8.88	8.188	18	
1181091	Soil Pulp			15.8	88.1	15.8	188	8.8	18.8	8.8	18	8.88	88.8	15.8	8.1	888	8.8	88.8	8.8	81.8	8.88	8.888	18	
1181091	Soil Pulp			18.8	88.8	88.8	88	1.8	8.1	1.8	88	1.88	81.8	1.1	8.8	88	8.8	1.1.8	8.8	188	8.81	8.888	18	
1181092	Soil Pulp			11.8	18.8	18.8	88	1.1	8.8	1.8	81	1.18	18.1	18.1	8.8	88	8.8	8.8	8.8	188	8.81	8.888	11	
1181093	Soil Pulp			8.1	81.8	11.8	11	1.8	18.8	1.8	18	1.88	18.8	18.8	8.8	88	8.1	8.8	8.8	18	8.88	8.888	18	
1181094	Soil Pulp			17.8	8.8	8.8	88	1.8	1.8	8.8	8	8.81	18.8	8.8	8.8	18	8.1	1.1.8	8.1	18	8.81	8.888	88	
1181095	Soil Pulp			11.1	81.8	17.8	88	8.1	11.8	8.8	88	8.81	88.1	18.8	8.1	88	8.8	8.8	8.8	188	8.88	8.181	11	
1181098	Soil Pulp			8.1	81.8	18.1	88	1.8	18.1	1.1	81	1.18	8.8	18.8	8.1	11	8.8	8.8	8.8	188	8.88	8.181	8	
1181097	Soil Pulp			2.1	18.2	18.1	88	8.8	8.8	2.2	188	2.81	18.8	2.8	12	8.1	2.8	8.1	88	8.82	8.811	11		
1181098	Soil Pulp			8.1	2.18	1.18	78	1.8	18.2	2.8	88	8.88	28.1	1.1	8.1	22	8.2							
1181099	Soil Pulp			8.8	88.8	8.8	81	8.8	18.8	1.8	11	8.88	88.8	18.1	1.1	11	8.1	1.8	8.8	18	8.81	8.881	8	
1181099	Soil Pulp			2.8	27.8	8.8	88	8.8	8.8	1.8	88	1.18	11.8	8.8	8.2	8	8.8	1.8	8.8	18	8.88	8.881	8	
1181099	Soil Pulp			1.1	28.8	18.1	11	8.8	8.1	2.2	22	1.11	8.8	8.8	8.8	18	8.1	1.1	8.1	88	8.81	8.888	88	
1181099	Soil Pulp			2.8	28.8	11.8	82	8.8	18.8	2.8	188	2.88	18.8	18.8	1.8	28	8.8	1.1	8.2	87	8.82	8.818	18	
1181099	Soil Pulp			1.8	11.8	11.1	78	1.1	18.8	8.8	122	2.18	11.8	8.8	28	8.2	2.1	8.2	18	8.88	8.881	18		
1181099	Soil Pulp			1.8	81.8	11.8	88	1.1	18.1	8.8	181	8.88	11.1	8.8	8.8	18	8.1	1.8	8.8	88	8.88	8.888	18	
1181099	Soil Pulp			8.8	18.8	18.8	88	8.1	18.1	8.8	88	8.88	18.1	8.1	8.1	88	8.8	8.8	8.8	88	8.88	8.188	11	
1181099	Soil Pulp			8.8	18.8	8.8	88	8.8	8.8	1.8	88	1.88	8.8	8.8	8.1	8	8.1	1.8	8.8	18	8.81	8.881	18	
1181099	Soil Pulp			8.8	18.1	11.8	88	8.8	8.8	1.8	81	8.88	81.8	11.8	8.8	88	8.8	8.8	8.8	88	8.88	8.181	18	

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Report Date: September 04, 2011

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CERTIFICATE OF ANALYSIS

VAN11003704.1

	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	0.1	0.05	1	0.5	
1180969	Soil Pulp	11	0.10	100	0.000	1	0.00	0.000	0.00	0.1	0.10	1E	0.1	0.00	2	2.0	0.0	
1180970	Soil Pulp	10	0.07	0E0	0.007	1	0.10	0.000	0.00	0.1E	0.10	2E	0.1	0.00	2	1.0	0.0	
1180971	Soil Pulp	0.1	0.05	1000	0.010	1	0.00	0.005	0.11	0.0	0.10	1.0	1.0	0.00	1	10.0	0.0	
1180972	Soil Pulp	0	0.00	00	0.000	1	0.00	0.000	0.07	0.1	0.10	1.0	0.0	1.00	1	10.0	0.0	
1180973	Soil Pulp	11	0.10	000	0.000	0	0.00	0.001	0.10	0.1	0.01	0.1	0.1	0.10	2	1.0	0.0	
1180978	Soil Pulp	16	0.54	187	0.010	<1	0.80	0.004	0.07	<0.1	0.14	2.3	<0.1	<0.05	2	0.8	<0.2	
1181000	Soil Pulp	10	0.10	0000	0.000	0	0.10	0.000	0.01	0.0	0.00	0.1	0.0	0.00	2	0.1	0.0	
1181000	Soil Pulp	10	0.10	271	0.011	2	0.0E	0.000	0.0E	0.1	0.0E	1.0	0.1	0.00	0	0.0	0.0	
1181000	Soil Pulp	05	0.07	1101	0.007	0	1.01	0.001	0.11	0.1	0.00	0.1	0.1	0.00	5	0.0	0.0	
1181000	Soil Pulp	00	0.10	051	0.010	0	1.00	0.000	0.00	0.1	0.07	0.0	0.0	0.10	5	11.0	0.0	
1181001	Soil Pulp	0	0.01	000	0.007	1	0.00	0.000	0.00	0.1	0.00	0.0	0.1	0.00	0	7.1	0.0	
1181000	Soil Pulp	0	0.00	001	0.000	1	0.00	0.000	0.01	0.1	0.01	0.1	0.1	0.00	0	0.1	0.0	
1181000	Soil Pulp	11	0.01	0010	0.007	0	0.11	0.001	0.01	0.1	0.00	1.0	0.0	0.10	0	0.0	0.0	
1181001	Soil Pulp	5	0.01	000	0.001	0	0.00	0.001	0.01	0.1	0.00	0.1	0.0	0.05	0	5.0	0.0	
1181000	Soil Pulp	00	0.01	1000	0.010	0	0.00	0.001	0.05	0.0	0.07	0.0	0.0	0.11	0	0.0	0.0	
1181000	Soil Pulp	01	0.00	0500	0.007	1	0.00	0.000	0.00	0.1	0.07	0.0	0.0	0.00	5	1.1	0.0	
1181007	Soil Pulp	11	0.00	011	0.000	1	0.0E	0.000	0.00	0.1E	0.00	1.0	0.1	0.00	1	0.0	0.0	
1181000	Soil Pulp	10	0.07	0.1E	0.010	2	1.00	0.001	0.01	0.1E	0.10	0.0	0.1	0.07	0	0.1	0.0	
1181000	Soil Pulp	10	0.00	000	0.010	1	0.10	0.000	0.01	0.1	0.01	0.0	0.1	0.00	0	1.0	0.0	
1181000	Soil Pulp	11	0.01	010	0.000	0	0.00	0.000	0.00	0.1	0.00	0.0	0.1	0.07	0	0.0	0.0	
1181071	Soil Pulp	7	0.01	001	0.000	1	0.10	0.000	0.0E	0.1	0.01	0.1	0.1	0.07	0	0.0	0.0	
1181070	Soil Pulp	10	0.00	1111	0.010	1	0.00	0.000	0.01	0.1	0.00	0.1	0.1	0.10	0	0.0	0.0	
1181070	Soil Pulp	10	0.1E	0.10	0.000	1	0.0E	0.000	0.00	0.1	0.01	0.1	0.1	0.00	0	1.0	0.0	
1181071	Soil Pulp	0.1	0.10	170	0.011	1	1.01	0.000	0.05	0.0	0.00	1.0	0.1	0.07	5	0.0	0.0	
1181070	Soil Pulp	0.1	0.11	101	0.000	1	1.11	0.000	0.05	0.0	0.11	1.0	0.1	0.00	1	1.0	0.0	
1181070	Soil Pulp	00	0.01	0105	0.000	0	0.10	0.005	0.07	0.0	0.10	0.0	0.0	0.15	0	0.7	0.0	
1181077	Soil Pulp	10	0.00	707	0.000	0	0.10	0.000	0.00	0.1	0.01	0.0	0.0	0.11	0	0.0	0.0	
1181070	Soil Pulp	10	0.07	001	0.000	0	0.00	0.010	0.00	0.1	0.00	0.0	0.1	0.11	1	1.0	0.0	
1181070	Soil Pulp	0	0.00	050	0.001	1	0.10	0.000	0.00	0.1	0.00	0.0	0.1	0.05	0	0.5	0.0	
1181000	Soil Pulp	0.1	0.10	701	0.010	1	1.10	0.001	0.00	0.0	0.05	1.0	0.1	0.00	5	0.0	0.0	

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Project: CCJV
Report Date: September 04, 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			
				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	%	%	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	1
1101001	Soil Pulp			0.0	10.0	10.0	0.1	2.0	11.0	2.0	1.0	10.0	21.0	10.0	2.0	1.0	0.1	0.0	0.0	0.02	0.100	1.0		
1101002	Soil Pulp			0.0	1.0	0.1	1.1	1.0	0.1	1.0	0.2	11.0	12.0	0.0	1.2	1.0	0.0	0.0	0.02	0.00	0.021			
1101003	Soil Pulp			0.0	0.0	10.0	0.0	0.0	1.0	1.1	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	0.0	0.00	0.000			
1101004	Soil Pulp			00.0	00.0	00.1	0.0	0.0	10.0	1.0	1.0	00.0	00.0	0.0	0.0	0.0	0.0	0.0	0.01	0.001	0.100			
1101005	Soil Pulp			21.0	10.0	00.0	0.0	0.0	21.0	0.0	0.0	20.1	0.00	17.0	00.0	0.0	0.0	0.0	0.0	0.00	0.100			
1101006	Soil Pulp			1.0	21.1	10.0	0.1	2.0	0.0	0.0	10.1	21.0	21.0	1.0	1.0	0.0	0.0	0.0	0.00	0.011	0.111			
1101007	Soil Pulp			11.1	20.1	10.1	0.1	1.1	10.1	2.0	1.0	0.00	21.0	10.0	0.0	0.1	0.0	0.1	0.0	0.01	0.021			
1101008	Soil Pulp			11	0.2	10.0	0.0	1.1	0.0	1.0	0.0	10.0	10.0	0.1	2.1	0.0	1.2	0.0	0.1	0.00	0.100			
1101009	Soil Pulp			0.0	10.0	0.0	0.0	1.1	10.0	1.0	0.0	1.01	00.0	10.0	1.0	0.0	0.0	1.0	0.0	0.00	0.000			
1101010	Soil Pulp			0.0	00.0	10.0	0.0	1.0	11.1	0.0	10.0	0.00	00.1	10.0	0.0	0.0	0.0	0.0	0.00	0.100	0.0			
1101011	Soil Pulp			10.0	00.0	00.0	1.0	0.0	0.1	0.1	10.0	0.00	00.0	11.0	0.0	1.1	0.0	0.0	0.00	0.100	0.0			
1101012	Soil Pulp			1.0	10.0	10.0	0.0	1.0	10.0	2.0	0.0	0.02	10.0	10.0	0.0	1.0	0.0	0.0	0.00	0.100	1.0			
1101013	Soil Pulp			0.0	00.0	10.0	0.0	0.0	10.0	1.0	1.0	0.00	00.0	0.1	0.0	1.0	0.0	0.0	0.01	0.010	1.0			
1101014	Soil Pulp			1.0	0.0	0.1	1.0	0.1	1.0	1.1	1.00	0.0	0.0	0.0	0	0.1	0.0	0.0	1.0	0.00	0.010			
1101015	Soil Pulp			0.1	10.1	10.1	1.0	0.0	10.0	1.0	10.0	0.01	10.0	0.0	0.1	0	0.1	1.0	0.1	0.00	0.001			
1101016	Soil Pulp			0.0	11.0	11.0	0.0	0.0	10.0	1.1	10.0	0.00	11.0	1.0	0.0	0	0.1	1.1	0.0	0.00	0.000			
1101017	Soil Pulp			2.0	20.1	11.0	1.1	0.2	0.0	2.1	1.0	20.0	10.1	1.1	1.0	0	0.1	1.2	0.2	1.1	0.000			
1101018	Soil Pulp			2.0	10.0	0.0	0.1	0.2	0.0	1.0	1.0	0.00	10.0	1.0	1.0	0	0.1	1.0	0.0	0.00	0.010			
1101019	Soil Pulp			2.0	10.0	10.0	0.1	0.1	10.0	1.0	0	0.00	10.0	1.0	1.0	0	0.1	1.0	0.0	0.00	0.000			
1101020	Soil Pulp			1.0	00.0	10.1	0.1	0.1	00.0	0.0	11.0	0.00	11.0	1.0	0.0	1.1	0.1	0.0	0.0	0.00	0.000			
1101021	Soil Pulp			0.0	10.0	10.1	0.0	0.0	10.0	1.1	0.0	0.01	20.0	1.0	0.0	0.0	0.0	0.0	0.00	0.001	0.001			
1101022	Soil Pulp			1.0	11.0	11.1	0.0	0.0	11.1	0.2	0.0	20.0	20.0	0.0	0.0	0	0.1	2.0	0.2	2.0	0.010			
1101023	Soil Pulp			0.0	00.0	11.0	0.0	0.0	10.1	0.0	10.0	0.01	00.0	0.0	1.0	1.0	0.1	0.0	0.00	0.000	0.0			
1101024	Soil Pulp			0.1	00.0	10.1	0.1	0.0	10.0	0.1	10.0	0.00	10.0	1.0	0.0	1.1	0.0	1.0	0.00	0.001	0.001			

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CERTIFICATE OF ANALYSIS

VAN11003704.1

Method	Analyte	Unit	MDL	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
1181001	Self-Disp		10	0.11	0.10	0.024	1	0.01	0.001	0.00	0.0	0.24	1.2	0.0	0.0	0	2.0	0.2	
1181002	Self-Disp		0	0.01	0.00	0.021	1	0.10	0.000	0.00	0.2	0.01	0.0	0.00	0	0.0	0.2		
1181000	Self-Disp		11	0.00	1.00	0.000	1	0.00	0.000	0.00	0.0	0.00	0.0	0.00	0	0.0	0.0		
1181004	Self-Disp		10	0.00	0.00	0.000	1	0.00	0.000	0.00	0.0	0.10	0.0	0.00	0	0.0	0.0		
1181005	Self-Disp		10	0.11	1.004	0.004	2	0.01	0.000	0.11	0.0	0.11	0.0	1.0	0.11	1	0.1	0.0	
1181006	Self-Disp		10	0.10	0.01	0.000	1	0.00	0.000	0.00	0.0	0.10	1.0	0.2	0.00	0	1.0	0.0	
1181007	Self-Disp		21	0.00	2.100	0.010	1	0.00	0.000	0.00	0.0	0.20	1.1	0.2	0.01	0	0.1	0.0	
1181008	Self-Disp		10	0.01	0.10	0.011	1	1.00	0.002	0.01	0.2	0.00	1.1	0.0	0.00	0	1.1	0.2	
1181009	Self-Disp		10	0.00	1.01	0.000	1	0.00	0.000	0.00	0.0	0.00	0.0	0.0	0.00	0	0.0	0.0	
1181000	Self-Disp		00	0.10	0.00	0.010	1	1.01	0.001	0.00	0.0	0.00	1.0	0.0	0.00	0	0.0	0.0	
1181004	Self-Disp		00	0.10	0.01	0.010	1	1.00	0.000	0.00	0.0	1.00	1.0	0.1	0.00	0	0.0	0.0	
1181002	Self-Disp		00	0.10	0.00	0.010	1	1.00	0.000	0.00	0.0	0.10	1.1	0.2	0.00	0	1.0	0.0	
1181000	Self-Disp		01	0.10	0.00	0.000	0	1.00	0.000	0.00	0.0	0.00	1.0	0.0	0.00	1	0.0	0.0	
1181001	Self-Disp		0	0.01	1.00	0.010	1	0.00	0.000	0.00	0.1	0.01	0.0	0.1	0.00	0	0.0	0.0	
1181005	Self-Disp		00	0.10	1.00	0.004	1	1.01	0.001	0.01	0.0	0.01	1.0	0.1	0.00	0	0.0	0.0	
1181000	Self-Disp		00	0.00	1.00	0.000	1	1.10	0.001	0.01	0.0	0.01	1.1	0.1	0.00	0	0.0	0.0	
1181001	Self-Disp		10	0.00	0.10	0.000	1	0.10	0.000	0.00	0.1	0.01	0.0	0.1	0.00	0	0.0	0.2	
1181000	Self-Disp		20	0.10	0.11	0.001	1	1.01	0.000	0.01	0.1	0.00	1.2	0.1	0.00	0	0.0	0.2	
1181000	Self-Disp		10	0.10	0.00	0.000	1	0.01	0.000	0.00	0.0	0.00	1.1	0.0	0.00	0	0.0	0.0	
1181100	Self-Disp		21	0.00	0.11	0.000	1	1.10	0.000	0.00	0.1	0.01	1.0	0.1	0.00	1	0.0	0.0	
1181101	Self-Disp		00	0.01	0.00	0.000	1	1.00	0.001	0.00	0.2	0.00	2.0	0.1	0.00	0	0.0	0.0	
1181102	Self-Disp		10	0.10	0.11	0.001	1	1.00	0.001	0.01	0.1	0.00	1.0	0.1	0.00	0	0.0	0.2	
1181100	Self-Disp		11	0.10	0.01	0.001	1	1.00	0.001	0.00	0.1	0.02	1.0	0.1	0.00	0	0.0	0.2	
1181101	Self-Disp		10	0.10	0.00	0.000	1	1.00	0.001	0.00	0.0	0.00	1.0	0.1	0.00	0	0.0	0.0	
1181105	Self-Disp		10	0.10	0.00	0.011	1	0.00	0.001	0.01	0.0	0.01	0.0	0.1	0.00	0	0.0	0.0	
1181100	Self-Disp		00	0.10	1.00	0.004	1	1.10	0.000	0.01	1.0	0.00	1.0	0.1	0.00	1	0.0	0.0	
1181107	Self-Disp		0	0.00	0.10	0.000	1	0.00	0.000	0.00	0.1	0.00	0.0	0.1	0.00	0	0.0	0.0	
1181100	Self-Disp		0	0.00	0.00	0.000	1	0.01	0.001	0.01	0.1	0.02	0.0	0.1	0.00	0	1.0	0.0	
1181100	Self-Disp		10	0.10	1.00	0.011	1	0.00	0.000	0.00	0.0	0.00	1.0	0.1	0.00	0	0.0	0.0	
1181110	Self-Disp		10	0.00	0.00	0.000	1	0.00	0.000	0.00	0.1	0.01	1.0	0.1	0.00	1	0.0	0.0	

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Project: CCJV
Report Date: September 04, 2011

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CERTIFICATE OF ANALYSIS

VAN11003704.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
118111	Soil Pulp	2.8	3.7	12.8	88	1.1	1.18	8.8	188	2.81	12.1	1.1	1.1	18	8.8	1.8	8.8	1.1	8.82	8.812
118112	Soil Pulp	2.8	3.8	18.8	181	8.8	28.1	1.1	8.8	8.88	18.8	1.8	8.8	18	8.8	2.8	8.8	18	8.81	8.888
118113	Soil Pulp	8.1	8.18	18.8	118	8.8	88.8	11.8	888	8.87	11.8	1.1	1.8	1.1	8.8	8.8	8.1	8.88	8.888	18
118114	Soil Pulp	8.8	8.88	18.1	88	8.8	18.1	1.8	888	8.88	18.8	1.8	8.8	8	8.1	1.1	8.8	88	8.88	8.888
118115	Soil Pulp	8.1	1.18	18.8	18	8.1	8.1	8.8	181	8.11	18.8	1.8	8.1	8	8.1	1.1	8.8	18	8.88	8.811
118116	Soil Pulp	2.8	3.8	18.8	88	8.1	28.8	1.8	188	8.81	18.8	8.8	1.8	18	8.1	1.8	8.1	18	8.88	8.881
118117	Soil Pulp	2.8	8.12	18.8	88	8.8	18.8	8.8	188	8.88	18.8	8.8	2.8	1.1	8.12	1.8	8.8	18	8.88	8.818
118118	Soil Pulp	1.1	2.88	8.8	18	8.12	1.1	2.8	181	2.88	8.8	8.8	1.8	1.1	8.1	1.8	8.12	18	8.88	8.888
118119	Soil Pulp	1.8	88.8	18.8	88	8.1	8.8	8.8	188	8.87	8.8	1.8	8.8	1.1	8.8	1.8	8.8	18	8.88	8.888
118120	Soil Pulp	8.8	18.1	18.8	88	8.8	18.8	8.8	181	8.88	18.8	8.1	8.8	88	8.8	1.8	8.8	8.1	8.81	8.881
118121	Soil Pulp	1.8	18.8	18.8	81	8.8	88.8	8.8	888	8.88	18.8	11.8	1.1	18	8.8	1.8	8.8	88	8.88	8.881
118122	Soil Pulp	1.8	88.8	8.8	81	8.8	8.8	1.1	18	8.81	8.1	1.8	8.8	8	8.1	8.8	88	8.81	8.818	18
118123	Soil Pulp	2.8	88.8	11.8	88	8.8	18.8	8.1	181	8.88	18.8	1.8	1.8	1.1	8.1	1.8	8.8	88	8.81	8.888
118124	Soil Pulp	8.8	18.1	18.1	88	8.8	11.8	1.8	888	8.88	11.8	1.8	1.8	8	8.1	8.8	8.8	8.1	8.81	8.881
118125	Soil Pulp	8.8	88.8	18.8	118	8.8	81.1	8.8	888	8.88	18.1	8.8	8.8	88	8.8	1.8	8.8	88	8.88	8.881
118126	Soil Pulp	8.8	81.8	11.8	88	8.8	81.1	8.8	188	8.18	18.1	18.8	1.1	88	8.1	8.1	8.8	88	8.81	8.811
118127	Soil Pulp	2.8	2.88	1.11	12	8.8	1.8	2.8	188	2.82	18.8	1.8	1.8	1.1	8.1	1.2	8.8	18	8.82	8.888
118128	Soil Pulp	2.8	2.88	1.12	88	8.12	8.8	2.8	81	2.88	18.8	2.8	2.8	12	8.1	1.8	8.8	81	8.82	8.818
118129	Soil Pulp	8.8	88.8	18.8	81	8.1	81.8	8.8	888	8.81	8.8	8.8	18	8.8	8.8	8.8	8.1	8.81	8.881	18
1181802	Soil Pulp	11.2	69.3	11.6	354	1.3	53.4	10.7	398	2.47	21.8	8.4	2.0	48	5.5	5.0	0.4	91	0.54	0.089
1181803	Soil Pulp	6.2	38.9	13.2	103	1.8	21.8	7.4	354	2.52	20.4	10.2	2.4	39	0.6	2.3	0.4	51	0.21	0.091
1181804	Soil Pulp	23.7	123.2	13.7	685	2.2	127.3	14.3	380	3.08	47.5	10.5	3.0	55	5.0	8.0	0.4	120	0.22	0.081
1181805	Soil Pulp	6.5	66.6	8.4	271	1.3	61.7	13.7	415	3.23	23.0	7.2	2.1	70	2.3	4.8	0.3	70	0.73	0.134
1181806	Soil Pulp	3.3	29.9	9.2	94	0.7	26.5	11.1	351	3.10	17.0	6.7	3.0	31	0.6	1.8	0.3	47	0.27	0.106
1181807	Soil Pulp	2.8	30.8	7.1	171	1.0	39.0	14.4	926	2.96	12.1	6.6	2.1	58	1.0	1.6	0.2	51	0.60	0.122
1181808	Soil Pulp	5.4	50.4	8.8	175	0.8	44.1	9.9	269	2.70	26.4	8.4	2.9	44	0.9	3.5	0.2	50	0.29	0.118
1181809	Soil Pulp	1.8	36.4	6.4	94	0.8	38.9	17.6	873	3.76	13.0	5.7	0.7	138	0.6	0.9	0.2	43	1.63	0.133
1181810	Soil Pulp	1.6	23.1	4.6	89	0.1	66.9	38.0	2322	7.82	2.8	1.6	1.0	56	0.4	0.5	0.2	76	1.19	0.158
1181811	Soil Pulp	2.2	29.9	17.0	77	0.2	28.3	12.2	450	5.19	7.5	3.3	2.4	58	0.6	1.1	0.3	46	0.60	0.101
1181812	Soil Pulp	3.2	35.4	10.6	44	0.9	15.1	5.5	118	2.35	5.3	3.7	1.1	117	0.3	0.9	0.3	38	1.49	0.061



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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		
				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
118111	Soil Pulp	11	0.03	674	0.003	1	0.13	0.003	0.03	0.1	0.03	1.1	0.1	0.03	1	0.3	0.2		
118112	Soil Pulp	22	0.23	234	0.013	1	1.03	0.004	0.03	0.1	0.04	1.2	0.1	0.03	1	1.2	0.2		
118113	Soil Pulp	23	0.27	1343	0.004	3	1.33	0.004	0.05	0.1	0.07	1.3	0.1	0.05	1	0.7	0.3		
118114	Soil Pulp	13	0.13	343	0.013	1	1.31	0.003	0.05	0.2	0.04	1.1	0.1	0.05	3	0.5	0.3		
118115	Soil Pulp	23	0.13	337	0.003	1	1.13	0.004	0.03	0.2	0.04	1.1	0.2	0.05	1	0.3	0.3		
118116	Soil Pulp	23	0.23	334	0.007	2	0.03	0.004	0.03	0.1	0.03	1.3	0.1	0.03	3	0.3	0.2		
118117	Soil Pulp	23	0.23	333	0.012	1	1.13	0.003	0.03	0.1	0.04	1.3	0.1	0.03	3	0.7	0.2		
118118	Soil Pulp	12	0.03	333	0.013	1	0.03	0.003	0.03	0.1	0.02	0.3	0.1	0.03	1	0.3	0.2		
118119	Soil Pulp	14	0.07	133	0.011	1	0.03	0.003	0.04	0.1	0.04	0.3	0.1	0.05	5	0.5	0.3		
118120	Soil Pulp	13	0.04	333	0.005	1	0.07	0.004	0.04	0.1	0.04	0.3	0.1	0.05	3	0.5	0.3		
118121	Soil Pulp	23	0.04	333	0.013	1	1.07	0.003	0.03	0.2	0.03	1.1	0.1	0.03	1	0.3	0.3		
118122	Soil Pulp	3	0.03	133	0.003	1	0.13	0.003	0.03	0.1	0.03	0.1	0.1	0.03	3	0.3	0.3		
118123	Soil Pulp	14	0.03	343	0.003	1	0.07	0.003	0.03	0.1	0.04	1.3	0.1	0.03	3	0.3	0.3		
118124	Soil Pulp	24	0.03	147	0.003	1	1.05	0.003	0.03	0.2	0.03	1.1	0.1	0.05	3	0.5	0.3		
118125	Soil Pulp	13	0.03	333	0.003	1	0.03	0.003	0.03	0.1	0.04	1.5	0.1	0.05	3	0.5	0.3		
118126	Soil Pulp	13	0.03	334	0.003	3	0.73	0.004	0.05	0.1	0.05	1.3	0.1	0.05	3	0.3	0.3		
118127	Soil Pulp	14	0.03	344	0.003	1	0.14	0.002	0.04	0.1	0.04	0.3	0.1	0.03	3	0.7	0.2		
118128	Soil Pulp	13	0.03	233	0.013	1	0.03	0.003	0.04	0.1	0.04	0.3	0.1	0.03	3	1.3	0.2		
118129	Soil Pulp	23	0.27	1333	0.004	3	0.03	0.003	0.03	0.1	0.03	1.1	0.1	0.03	1	0.3	0.3		
1181802	Soil Pulp	20	0.30	709	0.003	3	0.83	0.003	0.09	<0.1	0.48	2.8	0.2	<0.05	3	2.4	<0.2		
1181803	Soil Pulp	18	0.19	443	0.003	2	0.83	0.003	0.07	<0.1	0.46	1.7	0.2	<0.05	3	2.3	<0.2		
1181804	Soil Pulp	19	0.20	872	0.002	2	0.77	0.002	0.09	<0.1	1.66	2.9	0.3	<0.05	2	6.6	<0.2		
1181805	Soil Pulp	28	0.46	1189	0.004	3	1.03	0.003	0.10	<0.1	0.47	3.8	0.2	<0.05	3	4.5	<0.2		
1181806	Soil Pulp	26	0.37	704	0.003	2	0.99	0.003	0.09	<0.1	0.22	2.8	0.1	<0.05	3	1.7	<0.2		
1181807	Soil Pulp	31	0.47	717	0.004	2	1.09	0.003	0.09	<0.1	0.29	4.1	0.1	<0.05	3	1.7	<0.2		
1181808	Soil Pulp	19	0.23	500	0.006	2	0.74	0.002	0.08	<0.1	0.19	2.6	0.1	<0.05	3	2.8	<0.2		
1181809	Soil Pulp	30	0.47	789	0.004	3	1.38	0.005	0.07	<0.1	0.20	4.9	<0.1	0.05	4	1.3	<0.2		
1181810	Soil Pulp	71	0.73	910	0.007	4	2.08	0.005	0.11	<0.1	0.09	13.9	<0.1	<0.05	8	<0.5	<0.2		
1181811	Soil Pulp	18	0.19	479	0.004	2	0.78	0.003	0.05	<0.1	0.05	2.0	<0.1	<0.05	3	1.0	<0.2		
1181812	Soil Pulp	10	0.16	953	0.006	1	0.80	0.003	0.05	<0.1	0.10	1.6	<0.1	0.07	3	1.3	<0.2		

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Project: CCJV
Report Date: September 04, 2011

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VAN11003704.1

	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
1181813	Soil Pulp	10.7	90.1	10.1	518	7.1	96.0	11.9	361	2.59	19.9	9.9	1.7	55	3.1	6.7	0.3	65	0.40	0.118	20
1181814	Soil Pulp	8.9	41.4	17.0	399	2.5	70.1	7.0	61	2.28	57.7	19.0	0.2	38	1.4	22.0	0.3	98	0.26	0.073	19
1181815	Soil Pulp	13.4	101.2	11.2	602	3.7	117.6	12.8	1573	2.60	16.8	8.2	0.9	81	12.5	5.9	0.2	96	0.89	0.163	15
1181816	Soil Pulp	7.4	56.1	9.6	206	4.0	50.5	8.3	296	2.32	16.7	8.3	1.8	73	1.7	5.7	0.2	67	0.37	0.147	15
1181817	Soil Pulp	4.4	18.5	5.9	135	8.9	17.1	1.4	21	0.82	5.8	3.2	<0.1	7	0.4	1.8	0.2	68	0.04	0.035	18
1181818	Soil Pulp	9.4	24.7	13.1	120	4.3	23.7	3.0	72	2.10	26.9	8.5	0.4	38	0.3	4.6	0.2	101	0.03	0.187	13
1181819	Soil Pulp	22.7	252.7	22.1	222	2.7	17.1	7.2	221	2.21	121.2	12.2	2.1	222	2.1	17.1	2.1	211	2.15	1.121	22
1181820	Soil Pulp	12.1	34.0	10.2	43	5.9	9.4	1.3	30	1.55	25.6	11.5	1.1	55	0.5	8.7	0.2	109	0.07	0.306	16
1181821	Soil Pulp	10.6	52.0	12.5	133	3.0	33.4	5.1	147	2.46	26.6	10.7	0.3	61	0.8	7.3	0.2	126	0.07	0.222	18
1181822	Soil Pulp	6.7	49.2	10.7	156	3.5	31.1	5.9	227	2.87	24.4	7.9	0.6	35	1.4	4.0	0.2	92	0.09	0.161	14
1181823	Soil Pulp	27.2	22.2	22.1	121	22.2	22.2	2.2	22	2.22	22.2	2.2	2.1	22	2.2	22.2	2.2	112	2.22	2.121	11
1181824	Soil Pulp	2.2	2.2	12.2	12	1.2	2.2	1.2	22	1.22	12.2	2.2	1.2	12	2.2	1.1	2.2	22	2.22	2.222	12
1181825	Soil Pulp	12.2	22.2	12.2	222	2.2	22.2	2.2	22	1.12	22.2	2.2	2.2	22	2.2	2.2	2.2	22	2.22	2.222	12
1181826	Soil Pulp	27.2	22.2	11.2	122	2.2	15.2	1.2	21	2.22	25.2	2.2	1.5	12	2.2	12.2	2.2	112	2.22	2.222	12
1181827	Soil Pulp	12.2	12.2	12.1	22	1.1	12.2	2.2	22	2.22	21.2	1.1	2.1	21	2.2	2.2	2.2	112	2.22	2.221	11
1181828	Soil Pulp	1.2	12.2	2.1	22	2.2	2.2	1.2	22	1.12	12.1	2.2	1.1	22	2.2	2.2	2.2	11	2.22	2.221	11
1181829	Soil Pulp	1.2	22.1	12.1	121	2.1	22.2	2.2	22	1.11	22.2	1.2	1.2	21	2.2	1.2	2.1	22	2.21	2.221	11
1181830	Soil Pulp	2.1	2.2	12.2	22	2.2	2.2	2.1	121	2.12	12.1	2.2	1.2	11	2.2	1.2	2.2	22	2.22	2.212	12
1181831	Soil Pulp	2.2	12.2	1.2	11	1.1	2.2	2.2	22	2.22	22.2	2.2	2.2	22	2.2	2.2	2.2	21	2.22	2.222	11
1181832	Soil Pulp	1.2	12.2	1.2	12	2.2	12.1	2.2	122	2.22	21.2	2.1	2.2	22	2.1	2.2	2.2	21	2.22	2.222	11
1181833	Soil Pulp	2.2	21.1	22.2	12	1.2	11.1	1.2	122	2.22	12.2	2.1	2.1	22	2.2	1.1	2.2	12	2.22	2.111	12
1181834	Soil Pulp	2.2	12.2	12.2	22	2.2	12.2	2.1	22	2.22	22.2	2.2	2.2	21	2.2	1.2	2.2	12	2.22	2.222	11
1181835	Soil Pulp	1.2	12.1	12.2	11	2.1	1.2	2.1	12	2.12	22.2	2.2	2.1	22	2.2	1.1	2.2	22	2.21	2.222	12
1181836	Soil Pulp	1.2	21.1	12.2	22	2.2	12.2	2.2	22	2.12	22.1	2.2	1.1	121	2.2	2.1	2.2	12	2.22	2.122	12
1181837	Soil Pulp	12.1	22.2	12.1	21	1.2	22.1	2.2	21	2.22	22.2	2.1	2.2	21	2.1	2.1	2.2	12	2.22	2.112	12
1181838	Soil Pulp	12.2	12.2	12.2	12	1.2	2.2	2.2	21	1.21	21.2	2.2	1.2	22	2.1	2.2	2.2	22	2.21	2.122	12
1181839	Soil Pulp	12.2	22.2	2.2	22	2.2	12.1	1.2	22	1.11	22.2	2.1	1.2	22	2.1	2.1	2.2	22	2.21	2.222	11
1181840	Soil Pulp	12.2	21.1	11.1	22	2.2	12.2	1.2	22	1.12	12.2	2.2	2.2	22	2.2	2.2	2.2	12	2.22	2.222	11
1181841	Soil Pulp	2.2	22.2	12.1	21	2.2	1.2	1.2	22	2.22	2.1	2.2	2.2	11	2.2	2.2	2.2	21	2.22	2.222	12
1181842	Soil Pulp	11.1	12.2	12.2	21	1.2	12.2	2.2	112	2.22	22.2	2.2	1.2	22	1.1	2.2	2.2	22	2.22	2.151	11

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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	0.1	0.05	1	0.5
1181813	Soil Pulp	19	0.16	288	0.005	3	0.81	0.003	0.09	0.1	0.42	2.9	0.3	<0.05	2	3.6	<0.2
1181814	Soil Pulp	16	0.09	325	0.006	2	0.63	0.003	0.07	0.1	0.14	0.6	0.2	<0.05	5	3.4	<0.2
1181815	Soil Pulp	21	0.12	1000	0.003	2	0.85	0.003	0.08	0.1	0.85	2.7	0.4	<0.05	2	6.0	<0.2
1181816	Soil Pulp	22	0.15	722	0.004	3	0.56	0.003	0.09	<0.1	0.64	3.0	0.2	<0.05	2	6.6	<0.2
1181817	Soil Pulp	26	0.02	160	0.004	2	0.33	0.002	0.03	<0.1	0.06	0.1	<0.1	<0.05	4	2.0	<0.2
1181818	Soil Pulp	18	0.04	215	0.005	2	0.41	0.002	0.07	0.2	0.12	0.9	0.3	0.05	4	8.0	<0.2
1181819	Soil Pulp	27	0.07	127	0.012	2	0.61	0.003	0.22	0.2	1.24	3.2	0.2	0.03	1	22.1	0.2
1181820	Soil Pulp	25	0.04	332	0.005	2	0.37	0.002	0.10	0.3	0.81	2.0	0.5	0.12	3	19.5	0.4
1181821	Soil Pulp	33	0.14	443	0.007	3	0.74	0.003	0.12	0.2	0.41	1.3	0.4	0.11	3	10.4	0.3
1181822	Soil Pulp	29	0.19	319	0.011	2	1.16	0.003	0.07	0.1	0.59	1.6	0.3	<0.05	4	4.5	<0.2
1181823	Soil Pulp	24	0.07	227	0.003	2	0.51	0.003	0.24	0.2	1.27	2.2	1.2	0.11	2	11.1	0.2
1181824	Soil Pulp	12	0.03	242	0.002	1	0.72	0.002	0.24	0.2	0.27	2.2	0.1	0.03	2	1.2	0.2
1181825	Soil Pulp	22	0.03	1242	0.012	1	1.22	0.007	0.22	0.2	0.12	1.2	0.2	0.07	2	2.2	0.2
1181826	Soil Pulp	15	0.05	232	0.012	2	0.52	0.004	0.22	0.2	0.12	1.2	0.2	0.03	1	11.5	0.2
1181827	Soil Pulp	22	0.03	211	0.012	1	1.22	0.007	0.22	0.2	0.11	1.1	0.2	0.11	1	2.2	0.2
1181828	Soil Pulp	11	0.03	222	0.003	2	0.62	0.003	0.22	0.2	0.22	2.2	0.1	0.07	2	2.2	0.2
1181829	Soil Pulp	12	0.03	221	0.002	2	0.11	0.004	0.24	0.1	0.12	1.2	0.1	0.07	2	1.2	0.2
1181830	Soil Pulp	12	0.11	242	0.003	1	1.24	0.003	0.24	0.2	0.22	1.1	0.2	0.05	2	1.2	0.2
1181831	Soil Pulp	11	0.11	242	0.012	2	0.62	0.003	0.22	0.2	0.22	1.2	0.2	0.03	2	1.1	0.2
1181832	Soil Pulp	12	0.22	242	0.011	1	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181833	Soil Pulp	12	0.12	242	0.012	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181834	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181835	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181836	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181837	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181838	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181839	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181840	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181841	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181842	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181843	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181844	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181845	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181846	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181847	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181848	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181849	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181850	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181851	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181852	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181853	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181854	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181855	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181856	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181857	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181858	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181859	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181860	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181861	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181862	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181863	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181864	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181865	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181866	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181867	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181868	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181869	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181870	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181871	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181872	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181873	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181874	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181875	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181876	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181877	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181878	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2
1181879	Soil Pulp	12	0.12	242	0.003	2	0.62	0.003	0.22	0.2	0.22	1.2	0.1	0.03	1	1.2	0.2



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Report Date: September 04, 2011

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CERTIFICATE OF ANALYSIS

VAN11003704.1

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	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
1181016	Soil Pulp		0.0	11.0	11.0	50	1.0	0.1	0.0	105	0.30	00.5	0.0	0.0	0.0	0.0	0.0	107	0.05	0.100	11		
1181017	Soil Pulp		00.7	00.0	11.5	101	0.0	00.0	5.0	150	1.00	00.5	1.5	0.7	0.1	1.1	0.0	0.0	0.01	0.050	10		
1181018	Soil Pulp		10.0	07.0	05.7	10	0.0	0.5	1.7	10	0.01	05.0	7.0	0.1	0.0	0.0	0.0	105	0.00	0.150	11		
1181019	Soil Pulp		1.0	7.0	11.0	0	1.0	0.5	0.0	10	0.01	11.0	10.0	0.0	10	0.1	1.0	0.0	10	0.01	0.000	10	
1181020	Soil Pulp		1.0	0.0	10.0	10	0.0	0.0	1.0	0.0	0.01	10.0	0.0	0.0	0	0.1	0.0	70	0.00	0.000	00		
1181001	Soil Pulp		01.0	01.0	00.0	50	10.1	10.1	0.0	0.0	0.10	00.0	11.0	0.0	17	0.0	15.7	0.1	171	0.05	0.000	03	
1181002	Soil Pulp		0.5	71.1	0.5	101	0.0	117.0	10.0	1001	0.00	7.0	0.0	0.0	10	0.7	0.0	0.0	50	0.00	0.107	11	
1181003	Soil Pulp		10.1	07.0	07.0	150	0.5	11.0	10.0	000	0.01	00.0	1.5	0.0	05	0.0	5.0	0.5	0.0	0.00	0.070	01	
1181004	Soil Pulp		0.0	00.0	10.0	150	0.1	17.0	10.0	000	0.00	50.1	7.0	1.0	0.0	0.0	0.0	0.0	50	0.10	0.101	01	
1181005	Soil Pulp		0.0	50.0	10.1	101	0.0	51.1	10.1	700	0.00	00.0	0.0	5.0	10	0.7	0.0	0.0	10	0.10	0.101	00	
1181006	Soil Pulp		0.1	00.1	00.0	110	0.1	00.0	11.0	100	0.00	10.0	0.0	1.0	0.0	0.1	0.0	0.0	07	0.01	0.010	00	
1181007	Soil Pulp		0.0	11.0	10.1	10	0.1	0.0	0.0	101	10.1	10.0	0.0	1.0	0	0.1	1.0	0.0	0.0	0.01	0.010	10	
1181008	Soil Pulp		1.0	100.1	20.0	121	0.1	01.1	22.0	2012	0.01	0.0	1.1	0.1	0.0	0.1	1.0	0.0	20	0.00	0.201	02	
1181009	Soil Pulp		0.7	00.0	10.0	00	0.1	17.0	0.0	101	0.01	11.1	0.0	0.0	0.0	0.1	1.0	0.0	0.00	0.100	0.100	10	
1181010	Soil Pulp		0.1	00.0	10.1	10	0.0	10.0	10.0	000	0.00	20.0	0.0	0.0	17	0.1	1.0	0.0	0.0	0.10	0.100	10	
1181001	Soil Pulp		1.0	20.0	10.0	00	0.1	10.0	0.0	100	20.1	0.10	0.1	0.1	11	0.1	1.0	0.0	10	0.10	0.101	10	
1181002	Soil Pulp		0.1	07.0	15.0	105	0.1	01.5	10.1	511	0.00	00.0	5.0	0.0	10	0.5	1.0	0.0	17	0.00	0.110	00	
1181000	Soil Pulp		2.0	11.1	10.1	110	0.1	02.0	10.0	0.1	0.00	11.1	2.0	2.0	10	0.0	0.0	0.0	0.11	0.111	0.111	22	
1181001	Soil Pulp		2.0	20.0	10.1	10	0.0	10.0	0.0	001	0.10	10.0	1.0	0.0	0	0.1	1.0	0.0	0.00	0.100	0.111	10	
1181000	Soil Pulp		1.1	20.0	12.1	01	0.0	11.0	0.1	010	2.00	0.0	2.0	0.1	10	0.1	0.1	0.0	0.1	0.01	0.110	11	
1181000	Soil Pulp		0.1	00.0	10.0	00	0.0	10.0	1.0	000	0.00	1.0	1.0	0.0	0.1	0.1	1.0	0.0	0.00	0.100	0.101	10	
1181001	Soil Pulp		0.1	00.0	10.1	17	0.0	20.0	11.0	117	0.00	10.0	1.1	0.0	10	0.0	1.0	0.0	0.0	0.10	0.110	11	
1181000	Soil Pulp		1.0	20.0	11.0	01	0.1	20.0	11.1	000	11.0	0.0	1.1	2.0	20	0.0	0.0	0.0	0.1	0.01	0.001	01	
1182101	Soil Pulp		10.0	100.0	10.0	100	0.0	100.0	10.1	000	10.1	00.0	1.0	2.1	110	0.0	11.0	0.0	101	0.00	0.200	11	
1180100	Soil Pulp		07.1	111.1	10.5	711	0.5	170.0	10.0	105	0.10	07.0	5.0	0.0	100	0.0	10.5	0.0	0.0	1.00	0.170	10	
1180100	Soil Pulp		0.0	00.0	10.0	000	0.5	11.0	10.0	101	0.00	10.1	0.0	1.0	0.0	1.7	0.0	0.0	10	0.00	0.101	00	
1180101	Soil Pulp		0.0	00.1	10.0	101	0.1	01.0	10.0	000	0.01	00.0	1.0	0.1	0.1	0.0	0.0	0.0	07	0.00	0.010	01	
1180100	Soil Pulp		0.1	10.0	10.0	170	0.0	10.0	10.0	000	0.00	17.0	0.0	2.0	10	0.0	0.0	0.0	11	0.01	0.100	10	
1180100	Soil Pulp		1.1	50.7	10.0	170	0.7	10.0	11.1	110	0.00	00.0	0.0	0.7	50	1.1	1.7	0.0	11	0.05	0.010	00	
1183048	Soil Pulp		1.2	12.8	7.2	28	0.2	7.7	3.2	137	1.36	4.0	0.9	0.1	10	0.1	0.5	0.2	37	0.10	0.103	11	

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CERTIFICATE OF ANALYSIS

VAN11003704.1

	Method	Analyte	Unit	MDL	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
1181612	Soil Pulp			21	0.15	557	0.216	<1	1.24	0.000	0.05	0.2	0.20	1.5	0.2	0.25	0	1.2	0.2	
1181627	Soil Pulp			12	0.00	479	0.000	<1	1.24	0.000	0.00	0.2	0.05	0.4	0.4	0.05	4	5.0	0.2	
1181670	Soil Pulp			12	0.00	000	0.000	<1	0.00	0.000	0.00	0.0	0.00	0.4	0.0	0.40	0	7.0	0.2	
1181675	Soil Pulp			44	0.00	454	0.000	0	0.00	0.000	0.00	0.4	0.47	0.4	0.0	0.00	0	7.0	0.2	
1181680	Soil Pulp			44	0.00	00	0.000	<1	0.44	0.000	0.00	0.4	0.00	0.0	0.4	0.00	<1	4.0	0.2	
1181694	Soil Pulp			22	0.00	046	0.004	<1	0.40	0.000	0.40	0.2	0.75	0.2	0.5	0.05	4	0.4	0.4	
1181699	Soil Pulp			24	0.50	500	0.004	<1	4.57	0.000	0.00	0.4	0.40	44.0	0.4	0.05	0	0.4	0.2	
1181699	Soil Pulp			22	0.00	400	0.005	<1	0.00	0.005	0.40	0.4	0.40	4.0	0.0	0.40	0	0.0	0.4	
1181694	Soil Pulp			22	0.50	404	0.007	0	4.04	0.004	0.40	0.4	0.00	0.0	0.0	0.05	4	4.0	0.2	
1181695	Soil Pulp			24	0.40	440	0.005	<1	0.00	0.004	0.44	0.4	0.40	0.0	0.0	0.05	4	4.0	0.2	
1181690	Soil Pulp			22	4.44	404	0.007	0	4.00	0.000	0.00	0.4	0.00	4.0	0.0	0.05	0	4.0	0.2	
1181697	Soil Pulp			12	0.40	440	0.040	<1	0.40	0.000	0.40	0.0	0.00	4.0	0.4	0.40	0	0.0	0.2	
1181690	Soil Pulp			12	0.00	440	0.000	<1	4.00	0.000	0.40	0.4	0.42	4.0	0.4	0.00	0	0.4	0.2	
1181690	Soil Pulp			12	0.40	070	0.000	<1	4.44	0.004	0.44	0.4	0.04	0.0	0.4	0.00	0	0.0	0.2	
1181690	Soil Pulp			22	0.00	007	0.000	<1	4.00	0.004	0.44	0.4	0.00	0.4	0.4	0.00	0	0.0	0.2	
1181694	Soil Pulp			24	0.20	402	0.000	<1	4.00	0.000	0.44	0.4	0.04	0.0	0.4	0.40	0	0.0	0.2	
1181690	Soil Pulp			24	0.50	004	0.007	<1	4.00	0.004	0.40	0.4	0.04	0.0	0.0	0.05	4	4.0	0.2	
1181690	Soil Pulp			24	0.00	244	0.007	2	4.44	0.004	0.40	0.4	0.00	2.4	0.4	0.00	0	4.2	0.2	
1181694	Soil Pulp			20	0.20	440	0.000	<1	4.00	0.000	0.00	0.4	0.00	0.4	0.42	0.00	0	0.0	0.2	
1181690	Soil Pulp			12	0.20	420	0.000	<1	0.00	0.004	0.44	0.4	0.00	0.0	0.4	0.00	0	0.0	0.2	
1181690	Soil Pulp			22	0.40	270	0.000	<1	4.00	0.007	0.40	0.4	0.00	0.4	0.4	0.00	0	0.0	0.2	
1181697	Soil Pulp			44	0.00	200	0.004	<1	0.04	0.004	0.00	0.4	0.00	4.4	0.4	0.00	0	4.4	0.2	
1181690	Soil Pulp			20	0.40	040	0.040	<1	4.00	0.004	0.44	0.4	0.00	0.0	0.4	0.00	4	0.0	0.2	
1182404	Soil Pulp			00	0.27	044	0.000	<1	0.40	0.000	0.44	0.4	0.44	0.0	0.0	0.20	0	0.4	0.2	
1182400	Soil Pulp			00	0.00	700	0.000	0	0.04	0.000	0.00	0.4	0.00	0.7	0.0	0.00	4	0.0	0.2	
1182400	Soil Pulp			40	0.00	000	0.000	0	0.04	0.000	0.40	0.4	0.40	4.0	0.0	0.00	0	4.0	0.2	
1182404	Soil Pulp			40	0.00	000	0.000	<1	0.00	0.040	0.40	0.4	0.40	0.7	0.4	0.00	0	4.0	0.2	
1182400	Soil Pulp			40	0.40	040	0.000	0	0.04	0.004	0.44	0.4	0.40	0.0	0.4	0.00	0	0.0	0.2	
1182400	Soil Pulp			40	0.40	000	0.000	0	0.00	0.004	0.40	0.4	0.40	0.5	0.4	0.05	0	4.7	0.2	
1183048	Soil Pulp			17	0.14	134	0.002	<1	0.83	0.004	0.05	<0.1	0.05	0.3	<0.1	0.09	4	<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
1183049	Soil Pulp	2.5	14.6	7.6	35	0.1	9.5	3.2	43	1.38	5.6	0.8	0.3	5	0.1	0.6	0.1	33	0.02	0.086
1183050	Soil Pulp	1.9	32.2	11.3	62	0.3	17.7	7.9	310	2.50	6.0	1.9	1.3	47	0.1	0.8	0.2	33	0.56	0.152
1183051	Soil Pulp	2.4	39.9	11.5	68	0.5	20.9	7.8	233	2.42	8.9	3.8	0.9	98	0.2	1.2	0.2	20	1.76	0.136
1183052	Soil Pulp	4.3	49.3	16.7	72	0.5	32.4	13.7	349	3.34	11.6	4.3	1.8	45	0.4	1.5	0.2	22	0.84	0.157
1183053	Soil Pulp	2.9	44.0	13.8	92	0.2	23.9	11.1	407	2.99	9.5	2.5	1.3	51	0.7	1.0	0.1	23	0.94	0.110
1183054	Soil Pulp	2.1	40.5	20.1	47	0.4	14.7	6.6	172	1.70	5.2	0.9	0.7	46	1.1	0.7	0.2	24	0.53	0.105
1183055	Soil Pulp	1.9	27.2	17.6	72	<0.1	21.5	14.2	795	3.60	8.0	<0.5	4.3	23	0.1	0.6	0.3	37	0.25	0.048
1183056	Soil Pulp	1.7	15.1	11.8	68	0.2	14.4	10.2	540	3.56	9.2	2.0	2.3	17	0.2	0.7	0.2	74	0.20	0.054
1183057	Soil Pulp	6.7	55.4	24.5	192	0.5	39.9	11.5	838	3.83	13.0	1.3	3.1	11	1.1	2.4	0.3	32	0.16	0.113
1183058	Soil Pulp	1.4	28.9	8.2	65	0.3	17.1	6.5	203	2.12	5.0	6.8	1.1	39	0.2	0.7	0.2	31	0.63	0.156
1183059	Soil Pulp	2.0	46.6	10.8	95	0.5	25.6	9.9	361	2.74	6.7	13.3	2.0	50	0.5	1.2	0.2	33	0.79	0.155
1183060	Soil Pulp	2.3	39.4	9.5	101	0.3	24.7	7.2	277	2.48	14.8	4.2	1.3	33	0.4	1.8	0.2	39	0.48	0.174
1183061	Soil Pulp	2.9	50.2	11.4	137	0.5	28.8	9.1	291	2.91	12.8	5.5	2.0	34	0.8	1.9	0.2	36	0.53	0.156
1183062	Soil Pulp	4.5	46.9	11.6	153	0.7	32.9	9.9	353	2.68	20.1	4.4	1.8	38	0.8	3.4	0.2	49	0.43	0.178
1183064	Soil Pulp	4.0	24.6	7.8	96	0.9	20.0	4.2	133	1.72	13.0	2.4	0.3	25	0.4	2.2	0.2	55	0.20	0.149
1183065	Soil Pulp	6.0	39.6	10.7	128	2.6	27.2	4.4	91	1.98	16.8	4.4	0.2	26	0.6	3.6	0.2	67	0.06	0.159
1183066	Soil Pulp	5.6	16.3	14.2	80	0.5	16.7	2.6	99	1.31	15.6	0.6	0.3	11	0.2	2.6	0.2	80	0.02	0.049
1183067	Soil Pulp	11.6	68.8	13.6	279	2.9	67.4	10.1	347	3.61	27.3	8.6	2.1	33	0.8	6.8	0.2	84	0.05	0.188
1183068	Soil Pulp	9.1	123.6	6.0	314	3.8	277.2	32.9	462	6.46	38.9	4.6	1.1	53	1.5	5.0	<0.1	77	0.78	0.202
1183069	Soil Pulp	23.0	110.1	9.1	539	3.7	220.8	28.5	600	4.97	28.3	9.4	1.1	52	6.6	15.4	0.1	172	0.43	0.195
1183070	Soil Pulp	6.3	27.1	16.4	85	3.2	16.8	2.2	50	1.77	17.3	4.2	0.2	58	0.3	3.0	0.3	54	0.03	0.120
1183071	Soil Pulp	10.8	38.5	14.2	217	1.2	42.3	6.0	81	2.96	21.5	3.1	2.1	53	0.4	5.0	0.2	99	0.01	0.089
1183072	Soil Pulp	2.9	51.6	4.2	173	0.5	77.0	32.2	572	9.65	9.5	3.9	1.0	180	0.6	3.9	<0.1	50	0.13	0.177
1183073	Soil Pulp	4.5	17.9	14.4	72	1.7	13.8	2.7	69	1.75	12.3	7.2	0.2	19	0.3	2.1	0.3	67	0.04	0.073
1183074	Soil Pulp	12.2	44.0	10.5	240	1.8	38.1	2.5	27	1.52	17.8	5.4	0.8	25	0.4	5.2	0.2	56	0.02	0.056
1183075	Soil Pulp	8.7	37.1	3.0	149	<0.1	21.3	4.2	59	1.42	11.5	1.1	1.1	3	0.2	2.3	0.1	61	0.02	0.034
1183076	Soil Pulp	19.3	56.7	43.4	58	4.7	8.2	1.7	94	6.23	54.4	8.4	4.1	294	0.1	9.8	0.4	95	0.05	0.212
1183077	Soil Pulp	8.1	13.3	22.3	83	1.3	1.3	3.3	32	1.33	12.2	2.1	3.1	13	3.1	3.3	3.3	3.1	3.33	3.333
1183078	Soil Pulp	3.3	11.3	23.3	123	1.3	13.1	3.3	31	1.32	33.1	2.3	3.2	32	3.2	3.1	3.3	73	3.33	3.133
1183079	Soil Pulp	3.3	13.3	23.3	83	3.3	13.1	3.3	33	3.33	13.3	3.3	3.3	33	3.1	3.3	3.3	53	3.31	3.333

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Project: CCJV
Report Date: September 04, 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	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
1183049	Soil Pulp	14	0.10	96	0.003	1	0.77	0.003	0.07	<0.1	0.05	0.3	0.1	0.05	4	<0.5	<0.2
1183050	Soil Pulp	19	0.45	403	0.004	2	1.21	0.005	0.10	<0.1	0.14	2.1	0.1	0.09	4	<0.5	<0.2
1183051	Soil Pulp	12	0.50	198	0.003	2	0.88	0.004	0.06	<0.1	0.21	1.5	0.1	0.18	2	1.9	<0.2
1183052	Soil Pulp	15	0.58	161	0.004	2	1.00	0.003	0.08	<0.1	0.14	2.5	0.1	0.09	2	0.9	<0.2
1183053	Soil Pulp	13	0.47	129	0.003	2	1.01	0.003	0.06	<0.1	0.13	2.0	<0.1	0.13	3	0.7	<0.2
1183054	Soil Pulp	13	0.19	217	0.005	1	0.79	0.004	0.07	<0.1	0.10	1.0	<0.1	0.11	3	<0.5	<0.2
1183055	Soil Pulp	24	0.53	180	0.005	1	1.70	0.003	0.13	<0.1	0.03	1.9	<0.1	<0.05	5	0.6	<0.2
1183056	Soil Pulp	25	0.36	169	0.009	<1	1.81	0.004	0.06	0.2	0.04	2.5	0.1	<0.05	7	<0.5	<0.2
1183057	Soil Pulp	21	0.99	76	0.002	1	1.61	0.002	0.05	<0.1	0.09	1.5	0.1	0.06	4	1.1	<0.2
1183058	Soil Pulp	18	0.44	355	0.004	1	1.34	0.004	0.09	<0.1	0.12	1.9	0.1	0.09	4	<0.5	<0.2
1183059	Soil Pulp	20	0.57	314	0.006	2	1.41	0.004	0.10	<0.1	0.16	3.1	0.1	0.09	4	0.9	<0.2
1183060	Soil Pulp	19	0.54	434	0.007	2	1.35	0.006	0.11	0.1	0.12	2.2	0.1	0.06	4	0.6	<0.2
1183061	Soil Pulp	19	0.58	361	0.009	2	1.26	0.005	0.11	0.1	0.18	3.0	0.1	<0.05	4	1.1	<0.2
1183062	Soil Pulp	21	0.52	330	0.010	2	1.07	0.005	0.12	0.2	0.16	2.2	0.2	<0.05	3	1.0	<0.2
1183064	Soil Pulp	18	0.24	684	0.003	1	0.92	0.003	0.09	0.1	0.16	0.5	0.2	<0.05	4	0.9	<0.2
1183065	Soil Pulp	21	0.15	389	0.003	1	0.82	0.003	0.08	0.1	0.48	0.6	0.2	0.08	3	1.9	<0.2
1183066	Soil Pulp	14	0.06	88	0.008	1	0.57	0.002	0.05	0.2	0.04	0.6	0.2	<0.05	5	1.5	<0.2
1183067	Soil Pulp	23	0.14	223	0.004	2	0.84	0.005	0.10	<0.1	0.22	1.6	0.3	0.06	2	4.0	<0.2
1183068	Soil Pulp	98	0.17	1610	0.002	3	1.13	0.002	0.09	<0.1	0.54	11.6	0.3	0.08	3	8.6	<0.2
1183069	Soil Pulp	44	0.13	649	0.003	2	0.54	0.002	0.11	0.2	0.73	4.6	0.5	0.11	2	9.8	<0.2
1183070	Soil Pulp	16	0.07	234	0.003	2	0.56	0.006	0.11	<0.1	0.17	0.3	0.3	0.24	3	4.2	<0.2
1183071	Soil Pulp	16	0.05	268	0.003	1	0.67	0.003	0.10	<0.1	0.09	1.5	0.2	0.14	3	3.3	<0.2
1183072	Soil Pulp	29	0.07	823	0.002	3	0.73	0.002	0.17	<0.1	0.10	9.7	0.2	0.36	2	1.6	<0.2
1183073	Soil Pulp	18	0.14	133	0.008	<1	0.96	0.005	0.05	0.1	0.13	0.5	0.3	0.06	4	2.3	<0.2
1183074	Soil Pulp	11	0.03	110	0.002	2	0.40	0.001	0.05	<0.1	0.21	0.6	0.4	<0.05	2	6.9	<0.2
1183075	Soil Pulp	8	0.03	57	0.003	3	0.33	0.001	0.05	0.1	0.03	0.9	0.2	<0.05	4	1.2	<0.2
1183076	Soil Pulp	24	0.05	567	0.004	1	0.72	0.007	0.33	<0.1	0.34	1.2	0.9	0.48	5	11.1	0.5
1183077	Soil Pulp	8	0.03	112	0.003	1	0.83	0.003	0.23	0.1	0.07	0.3	0.3	0.03	1	0.3	0.2
1183078	Soil Pulp	17	0.03	132	0.004	1	0.83	0.003	0.17	0.1	0.03	1.1	0.1	0.17	3	0.3	0.2
1183079	Soil Pulp	8	0.03	232	0.003	1	0.53	0.003	0.03	0.1	0.03	0.2	0.2	0.03	2	0.3	0.2

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Project: CCJV
Report Date: September 04, 2011

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CERTIFICATE OF ANALYSIS

VAN11003704.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1100000	0.0	0.1	0.2	0.2	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.02	0.022	0.0
1100001	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.002	0.0
1100002	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.001	0.0
1100003	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.001	0.0
1100004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.001	0.0
1100005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.001	0.0
1100006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.001	0.0
1100007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.001	0.0
1100008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.001	0.0
1100009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.001	0.0
1100010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.001	0.0
1100011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.001	0.0
1100012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.001	0.0
1100013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.001	0.0
1100014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.001	0.0
1100015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.001	0.0
1100016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.001	0.0
1100017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.001	0.0
1100018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.001	0.0
1100019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.001	0.0
1100020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.001	0.0



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CERTIFICATE OF ANALYSIS

VAN11003704.1

	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	0.1	0.05	1	0.5
1100000	Soil-Pip	0	0.02	000	0.001	2	0.01	0.002	0.00	0.1	0.02	0.0	0.2	0.00	0	0.0	0.2
1100001	Soil-Pip	10	0.00	010	0.000	2	0.00	0.000	0.00	0.1	0.11	1E	0.0	0.10	1	1.0	0.2
1100002	Soil-Pip	0	0.00	000	0.000	0	0.00	0.000	0.10	0.1	0.00	0.0	0.0	0.10	0	1.0	0.0
1100003	Soil-Pip	10	0.00	001	0.000	0	0.00	0.001	0.00	0.1	0.00	1E	0.1	0.00	0	1.0	0.0
1100004	Soil-Pip	0	0.00	101	0.001	2	0.10	0.000	0.10	0.1	0.00	0.0	0.2	0.10	2	1.0	0.2
1100005	Soil-Pip	11	0.00	000	0.007	1	0.01	0.002	0.00	0.1	0.01	1.0	0.1	0.00	1	0.0	0.2
1100006	Soil-Pip	10	0.01	007	0.000	1	0.00	0.000	0.00	0.1	0.10	0.0	0.1	0.00	0	1.0	0.0
1100007	Soil-Pip	15	0.00	1000	0.000	0	0.00	0.000	0.00	0.0	0.00	0.0	0.0	0.10	1	0.1	0.0
1100008	Soil-Pip	0	0.02	000	0.000	1	0.02	0.000	0.01	0.1	0.00	0.0	0.1	0.00	0	1.1	0.2
1100009	Soil-Pip	20	0.20	1002	0.000	0	1.00	0.001	0.1E	0.1	0.00	2E	0.0	0.10	0	1.10	0.2
1100010	Soil-Pip	20	0.20	010	0.000	1	0.01	0.000	0.00	0.1	0.01	1E	0.1	0.00	0	1.1	0.2
1100011	Soil-Pip	10	0.11	100	0.000	1	0.00	0.000	0.00	0.1	0.00	0.0	0.1	0.00	0	0.0	0.2
1100012	Soil-Pip	10	0.00	000	0.011	0	0.00	0.000	0.00	0.1	0.00	0.0	0.1	0.00	0	0.0	0.2
1100013	Soil-Pip	00	0.10	001	0.001	1	1.00	0.000	0.00	0.0	0.11	0.0	0.1	0.00	0	0.1	0.0
1100014	Soil-Pip	10	0.10	000	0.000	1	1.00	0.002	0.00	0.1	0.01	1.0	0.1	0.00	0	0.0	0.0
1100015	Soil-Pip	15	0.10	000	0.000	1	0.00	0.000	0.01	0.1	0.00	1.1	0.1	0.00	1	0.0	0.0
1100016	Soil-Pip	10	0.10	101	0.001	0	0.00	0.000	0.00	0.1	0.10	1.1	0.0	0.00	0	1.0	0.0
1100017	Soil-Pip	10	0.10	001	0.010	1	0.00	0.000	0.00	0.2	0.00	1.0	0.1	0.00	0	0.0	0.2
1100018	Soil-Pip	11	0.10	000	0.001	1	0.00	0.000	0.01	0.1	0.00	1.0	0.1	0.00	1	0.0	0.0
1100019	Soil-Pip	10	0.00	000	0.000	1	0.00	0.000	0.01	0.1	0.00	1.0	0.1	0.00	0	1.1	0.0
1100100	Soil-Pip	0	0.02	00	0.000	1	0.00	0.002	0.02	0.1	0.01	0.0	0.1	0.00	0	1.1	0.2

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Project: CCJV
Report Date: September 04, 2011

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QUALITY CONTROL REPORT

VAN11003704.1

	Method	Analyte	Unit	MDL	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																								
1180474	Soil Pulp	4.3	41.2	10.9	203	0.6	72.7	13.5	692	2.90	14.4	0.8	2.3	75	1.2	3.5	0.1	13	0.89	0.180	18			
REP 1180474	QC	4.5	43.5	11.0	214	0.7	75.5	14.2	728	3.05	14.7	2.2	2.5	79	1.6	3.8	0.1	13	0.92	0.185	18			
1180978	Soil Pulp	2.8	40.8	11.8	95	0.3	29.9	11.4	334	2.70	13.6	1.2	3.0	41	0.5	1.8	0.1	23	0.63	0.146	15			
REP 1180978	QC	2.7	40.8	11.8	94	0.3	29.2	11.0	330	2.65	13.3	2.9	2.8	39	0.5	1.9	0.1	22	0.64	0.150	15			
1181071	Soil Pulp	1.4	20.3	10.4	41	0.6	9.1	2.2	22	1.11	8.0	8.3	0.5	17	<0.1	1.1	0.1	36	<0.01	0.035	20			
REP 1181071	QC	1.4	20.2	10.1	38	0.5	8.0	1.8	22	1.09	7.3	8.5	0.5	16	<0.1	1.3	0.2	34	<0.01	0.036	17			
1181080	Soil Pulp	8.3	18.1	14.7	58	3.0	9.9	1.8	51	3.92	21.2	11.0	3.0	23	0.3	5.0	0.2	63	0.02	0.124	12			
REP 1181080	QC	8.1	17.4	13.9	60	2.8	10.1	1.6	53	3.91	21.5	13.7	2.7	22	0.2	5.0	0.2	62	0.03	0.111	11			
1181104	Soil Pulp	2.4	16.7	13.3	63	0.3	11.7	3.5	155	3.20	12.4	2.1	2.6	12	<0.1	1.0	0.3	48	0.03	0.043	9			
REP 1181104	QC	2.4	17.2	13.0	65	0.4	13.2	3.9	164	3.39	13.3	1.0	2.4	12	0.1	1.0	0.3	51	0.03	0.045	9			
1181120	Soil Pulp	2.6	49.4	13.0	87	0.5	19.8	5.2	174	2.75	12.5	2.4	0.5	20	0.2	1.5	0.3	34	0.04	0.054	9			
REP 1181120	QC	2.6	52.7	13.7	92	0.5	22.3	5.6	181	2.97	14.0	4.3	0.6	21	0.2	1.5	0.3	35	0.04	0.057	9			
1181808	Soil Pulp	5.4	50.4	8.8	175	0.8	44.1	9.9	269	2.70	26.4	8.4	2.9	44	0.9	3.5	0.2	50	0.29	0.118	21			
REP 1181808	QC	5.3	49.7	8.7	173	0.7	41.8	9.2	262	2.57	25.0	9.0	2.8	42	1.0	3.4	0.2	48	0.28	0.116	20			
1181824	Soil Pulp	6.9	7.8	13.9	45	1.3	6.7	1.6	57	1.98	17.5	2.6	1.9	10	0.3	4.1	0.3	99	0.02	0.039	13			
REP 1181824	QC	6.6	7.4	13.6	42	1.1	6.3	1.5	53	1.88	16.5	1.6	1.6	10	0.2	4.0	0.3	91	0.02	0.037	12			
1181843	Soil Pulp	6.6	14.2	14.0	56	1.3	9.4	2.8	135	2.73	22.5	3.0	2.6	29	0.3	2.9	0.3	127	0.05	0.160	11			
REP 1181843	QC	7.0	17.2	14.1	59	1.4	10.5	2.9	130	2.69	22.7	4.1	2.6	34	0.5	3.3	0.3	120	0.05	0.155	11			
1182451	Soil Pulp	16.0	129.9	13.8	465	6.2	136.3	18.4	325	4.01	55.8	7.2	2.1	178	5.3	11.9	0.2	197	0.80	0.266	11			
REP 1182451	QC	15.5	132.8	12.9	438	6.2	138.9	18.5	320	3.91	54.5	7.8	2.0	178	5.2	11.9	0.2	200	0.80	0.250	11			
1183067	Soil Pulp	11.6	68.8	13.6	279	2.9	67.4	10.1	347	3.61	27.3	8.6	2.1	33	0.8	6.8	0.2	84	0.05	0.188	24			
REP 1183067	QC	12.0	69.1	13.6	282	2.9	66.5	9.9	351	3.61	27.4	9.0	2.2	33	0.8	6.6	0.2	76	0.05	0.179	22			
1183075	Soil Pulp	8.7	37.1	3.0	149	<0.1	21.3	4.2	59	1.42	11.5	1.1	1.1	3	0.2	2.3	0.1	61	0.02	0.034	23			
REP 1183075	QC	8.7	37.3	2.9	147	<0.1	21.5	4.1	57	1.38	11.6	3.7	1.1	4	0.2	2.4	0.1	59	0.01	0.033	22			
1183087	Soil Pulp	11.6	22.9	23.8	79	2.5	16.5	2.3	68	2.66	26.0	1.7	0.3	41	0.2	4.3	0.3	118	0.01	0.140	11			
REP 1183087	QC	11.9	22.9	23.3	77	2.6	16.2	2.3	70	2.68	26.1	2.4	0.2	42	0.1	4.5	0.3	117	0.01	0.129	11			
Reference Materials																								
STD DS8	Standard	13.5	109.3	130.5	317	1.9	37.6	7.2	610	2.50	24.5	118.3	6.7	62	2.3	5.8	6.6	41	0.68	0.078	15			

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



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Project: CCJV
Report Date: September 04, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

VAN11003704.1

	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																	
1180474	Soil Pulp	6	0.11	257	0.001	<1	0.35	0.002	0.04	<0.1	0.35	1.9	<0.1	<0.05	<1	1.7	<0.2
REP 1180474	QC	6	0.11	263	0.001	<1	0.36	0.002	0.04	<0.1	0.35	1.9	<0.1	<0.05	<1	1.7	<0.2
1180978	Soil Pulp	16	0.54	187	0.010	<1	0.80	0.004	0.07	<0.1	0.14	2.3	<0.1	<0.05	2	0.8	<0.2
REP 1180978	QC	15	0.53	184	0.009	<1	0.75	0.004	0.07	<0.1	0.13	2.2	<0.1	<0.05	2	0.5	<0.2
1181071	Soil Pulp	7	0.01	221	0.002	<1	0.40	0.003	0.02	<0.1	<0.01	0.4	<0.1	0.07	3	0.8	<0.2
REP 1181071	QC	6	0.01	195	0.002	1	0.37	0.003	0.02	<0.1	<0.01	0.3	<0.1	0.07	3	0.6	<0.2
1181080	Soil Pulp	21	0.12	701	0.010	<1	1.13	0.004	0.06	0.2	0.25	1.3	0.4	0.09	5	3.2	<0.2
REP 1181080	QC	20	0.11	672	0.011	2	1.04	0.004	0.06	0.2	0.24	1.2	0.3	0.10	4	2.7	<0.2
1181104	Soil Pulp	18	0.19	262	0.008	<1	1.09	0.004	0.05	0.2	0.02	1.2	0.1	<0.05	6	<0.5	<0.2
REP 1181104	QC	19	0.18	266	0.008	<1	1.07	0.004	0.05	0.2	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
1181120	Soil Pulp	18	0.21	520	0.005	1	0.87	0.004	0.04	<0.1	0.04	0.8	<0.1	<0.05	3	0.5	<0.2
REP 1181120	QC	19	0.23	544	0.006	2	0.91	0.004	0.05	<0.1	0.05	0.9	<0.1	<0.05	3	0.7	<0.2
1181808	Soil Pulp	19	0.23	500	0.006	2	0.74	0.002	0.08	<0.1	0.19	2.6	0.1	<0.05	3	2.8	<0.2
REP 1181808	QC	19	0.23	484	0.006	2	0.72	0.002	0.08	<0.1	0.18	2.5	0.1	<0.05	2	2.4	<0.2
1181824	Soil Pulp	13	0.05	248	0.022	<1	0.72	0.002	0.04	0.2	0.07	0.9	0.4	<0.05	5	1.5	<0.2
REP 1181824	QC	11	0.04	231	0.020	<1	0.65	0.002	0.04	0.2	0.06	0.8	0.3	<0.05	5	1.0	<0.2
1181843	Soil Pulp	21	0.15	557	0.016	<1	1.31	0.003	0.05	0.3	0.29	1.5	0.2	<0.05	6	1.8	<0.2
REP 1181843	QC	21	0.15	707	0.012	<1	1.31	0.003	0.05	0.2	0.37	1.3	0.3	<0.05	6	1.8	<0.2
1182451	Soil Pulp	53	0.27	644	0.002	1	0.78	0.003	0.11	<0.1	0.74	5.8	0.5	0.25	3	9.7	0.3
REP 1182451	QC	53	0.26	635	0.002	1	0.73	0.003	0.11	<0.1	0.74	5.9	0.5	0.25	3	8.2	0.3
1183067	Soil Pulp	23	0.14	223	0.004	2	0.84	0.005	0.10	<0.1	0.22	1.6	0.3	0.06	2	4.0	<0.2
REP 1183067	QC	22	0.13	200	0.003	1	0.76	0.004	0.08	0.1	0.21	1.6	0.3	0.06	2	4.0	<0.2
1183075	Soil Pulp	8	0.03	57	0.003	3	0.33	0.001	0.05	0.1	0.03	0.9	0.2	<0.05	4	1.2	<0.2
REP 1183075	QC	8	0.03	54	0.003	3	0.32	0.001	0.05	0.2	0.03	0.8	0.2	<0.05	4	1.2	<0.2
1183087	Soil Pulp	15	0.05	1358	0.008	2	0.68	0.003	0.08	0.2	0.36	0.5	0.6	0.13	4	3.4	<0.2
REP 1183087	QC	15	0.05	1331	0.008	2	0.68	0.003	0.08	0.2	0.37	0.4	0.6	0.12	4	3.4	<0.2
Reference Materials																	
STD DS8	Standard	120	0.61	277	0.107	2	0.91	0.086	0.41	3.1	0.21	2.0	5.7	0.17	5	4.7	5.1

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Project: CCJV

Report Date: September 04, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

VAN11003704.1

			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
STD DS8	Standard		11.2	99.8	122.3	291	1.7	34.7	6.8	561	2.38	24.2	112.4	5.8	57	2.2	4.6	6.3	38	0.62	0.077	12
STD DS8	Standard		13.0	114.4	130.1	340	1.9	40.5	7.8	637	2.64	27.1	135.9	6.6	65	2.5	5.3	6.6	44	0.70	0.083	14
STD DS8	Standard		13.1	105.2	122.8	316	1.7	36.2	7.4	602	2.76	25.0	111.8	7.1	62	2.4	5.1	5.8	42	0.68	0.073	15
STD DS8	Standard		10.9	104.1	116.1	298	1.6	34.3	7.0	562	2.29	23.2	105.8	5.6	58	2.4	4.7	5.9	37	0.61	0.077	11
STD DS8	Standard		12.4	98.4	116.6	289	1.7	35.9	7.1	576	2.31	23.9	104.2	6.6	60	2.2	5.1	6.1	40	0.64	0.077	15
STD DS8	Standard		12.9	117.0	120.0	311	1.7	37.8	7.6	603	2.35	24.7	116.7	6.6	63	2.4	5.4	6.9	41	0.66	0.087	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



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Project: CCJV

Report Date: September 04, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

VAN11003704.1

		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
STD DS8	Standard	107	0.58	240	0.094	2	0.84	0.077	0.38	2.6	0.19	1.9	5.3	0.16	4	5.2	5.3
STD DS8	Standard	117	0.64	281	0.113	4	0.92	0.086	0.43	3.2	0.21	2.1	6.1	0.17	5	5.1	5.7
STD DS8	Standard	117	0.59	272	0.115	3	0.90	0.086	0.42	3.0	0.20	2.0	5.4	0.15	5	6.1	4.9
STD DS8	Standard	105	0.56	237	0.095	1	0.81	0.073	0.38	2.6	0.20	1.9	5.1	0.14	4	5.4	4.6
STD DS8	Standard	108	0.58	264	0.106	3	0.87	0.078	0.38	2.8	0.21	2.1	5.2	0.13	5	5.4	4.7
STD DS8	Standard	112	0.61	263	0.113	3	0.86	0.082	0.39	2.7	0.19	2.1	4.9	0.16	5	5.4	4.5
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



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Submitted By: Confirmation Email List
Receiving Lab: Canada-Vancouver
Received: August 04, 2011
Report Date: September 03, 2011
Page: 1 of 8

CERTIFICATE OF ANALYSIS

VAN11003705.1

CLIENT JOB INFORMATION

Project: CCJV
Shipment ID:
P.O. Number AZ-03
Number of Samples: 189

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
No Prep	189	Sorting of samples on arrival and labeling			VAN
1DX2	189	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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Canada

CC: Report Email List



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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 03, 2011

Page: 2 of 8 Part 1

CERTIFICATE OF ANALYSIS

VAN11003705.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1100410	Soil Pulp	1.0	0.1	10.0	100	1.2	10.1	1.1	0.1	1.22	1.0	1.1	0.0	2.0	0.1	2.1	0.0	0.1	0.00	0.000
1100411	Soil Pulp	1.0	1.0	10.0	1.1	0.1	0.0	0.0	1.0	0.01	1.1	0.1	1.0	1.1	0.1	2.0	0.1	0.0	0.02	0.002
1100412	Soil Pulp	0.0	10.0	0.0	0.0	0.0	100.0	10.0	0.0	0.11	10.0	0.0	0.1	1.0	0.1	0.0	0.0	0.0	0.0	0.100
1100413	Soil Pulp	0.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0	1.01	0.0	0.0	0.0	0.0	0.1	1.0	0.0	0.1	0.01	0.100
1100414	Soil Pulp	10.0	0.0	0.0	1.1	10.1	0.0	0.0	1.1	0.00	0.10	0.0	0.0	0.1	0.1	10.1	0.0	0.1	0.00	0.000
1100415	Soil Pulp	10.0	100.0	10.0	0.0	0.0	10.0	10.0	0.0	0.02	10.0	0.1	1.0	10.1	10.1	10.0	0.0	0.0	0.00	0.100
1100416	Soil Pulp	00.1	01.1	15.5	000	1.1	110.0	10.1	000	0.15	00.0	0.0	1.0	100	1.0	11.0	0.0	0.0	0.10	0.110
1100417	Soil Pulp	10.0	00.0	01.0	000	1.1	00.0	11.0	0.11	0.10	00.0	10.0	0.0	0.0	0.0	0.0	10	1.00	0.101	00
1100418	Soil Pulp	10.0	00.2	11.0	100	1.1	10.11	0.0	10.1	2.10	11.0	1.0	1.0	100	1.0	20.0	0.2	0.1	0.00	0.112
1100419	Soil Pulp	1.0	1.2	2.1	100	0.0	00.1	20.0	100	2.11	10.1	10.1	0.0	1.0	0.1	1.0	0.1	1.0	0.00	0.201
1100420	Soil Pulp	0.0	100.0	00.0	100	0.1	10.1	20.0	0.1	10.1	0.0	0.1	1.0	0.0	0.0	0.0	2.1	2.01	0.220	20
1100421	Soil Pulp	0.0	00.0	10.1	00	0.0	00.0	10.1	10.0	0.00	10.0	0.0	1.0	100	0.0	1.0	0.0	0.00	0.100	10
1100422	Soil Pulp	1.0	00.0	10.0	0.1	0.0	10.0	11.0	0.00	0.00	0.0	1.1	1.0	0.1	0.0	1.0	0.0	0.1	1.10	0.110
1100423	Soil Pulp	1.0	00.0	10.0	100	1.0	10.0	1.0	10.0	2.10	20.0	10.0	1.0	0.0	1.0	0.0	0.0	1.00	0.100	10
1100424	Soil Pulp	0.0	1.0	10.0	100	0.0	00.0	10.0	0.00	0.11	10.0	0.0	0.0	1.0	0.0	0.0	0.0	0.01	0.111	00
1100425	Soil Pulp	1.0	10.0	15.0	150	0.1	01.0	11.0	10.0	0.01	00.0	0.1	1.0	0.1	0.0	0.0	0.0	1.00	0.110	10
1100426	Soil Pulp	5.0	00.0	15.0	010	0.0	00.0	10.0	000	0.01	01.0	0.0	0.0	1.0	1.1	1.0	0.0	1.0	0.00	0.100
1100427	Soil Pulp	0.0	0.10	10.0	22.1	0.0	00.2	12.1	002	2.00	10.1	0.2	1.1	00	0.0	0.0	0.1	0.2	0.10	0.101
1100428	Soil Pulp	0.0	00.0	10.1	100	0.1	00.0	0.1	100	0.01	10.1	0.0	0.0	0.0	0.0	0.1	0.0	0.00	0.100	00
1100429	Soil Pulp	0.0	01.0	00.1	10.0	0.1	00.0	0.0	00.1	0.11	10.1	10.0	1.1	1.1	0.1	0.0	0.0	0.00	0.000	10
1100430	Soil Pulp	2.0	1.0	10.1	0.1	0.0	1.12	0.0	100	2.11	10.0	0.1	1.0	2.0	0.2	1.1	0.1	0.01	0.000	1.1
1100431	Soil Pulp	0.0	00.0	2.0	00	0.0	2.11	0.0	000	1.11	2.10	0.0	0.0	0.1	0.1	2.1	0.1	0.01	0.002	1.1
1100432	Soil Pulp	0.0	00.0	10.0	10	0.0	10.0	0.0	110	0.00	11.0	0.0	1.0	0	0.0	1.0	0.0	0.0	0.00	0.000
1100433	Soil Pulp	0.1	00.0	00.1	100	0.0	00.0	10.0	10.0	0.00	10.0	0.1	0.0	0.0	0.0	0.0	0.0	1.0	0.00	0.000
1100434	Soil Pulp	2.0	00.1	10.1	0.1	0.1	10.1	1.0	000	2.00	0.1	1.0	1.0	1.2	0.2	1.0	0.1	0.0	0.01	0.000
1100435	Soil Pulp	0.0	00.0	10.0	0.1	0.0	00.0	0.0	100	0.10	10.0	1.0	1.0	00	0.1	0.0	0.0	0.1	0.00	0.010
1100436	Soil Pulp	0.0	00.0	10.0	00	0.0	00.1	10.0	1000	0.00	0.0	0.0	1.1	00	0.0	0.0	0.0	0.00	0.001	10
1100437	Soil Pulp	1.0	00.0	0.0	1.1	0.2	20.0	1.2	10.1	2.00	2.0	1.0	0.0	1.0	0.1	0.0	0.1	0.02	0.010	2
1100438	Soil Pulp	0.0	000.0	00.0	00	0.1	00.0	0.0	000	0.15	10.0	0.1	0.0	0.1	0.0	1.1	0.0	1.0	0.00	0.000
1100439	Soil Pulp	10.0	100.0	00.1	100	0.1	2.10	10.0	100	1.00	1.0	0.2	2.0	1.1	0.1	0.0	0.0	2.0	0.01	0.000

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Report Date: September 03, 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		
				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
1100410	Soil Pulp	11	0.02	221	0.002	1	0.02	0.002	0.01	0.1	0.20	0.0	0.02	2	2.0	0.2			
1100411	Soil Pulp	8	0.02	100	0.000	2	0.00	0.000	0.11	0.2	0.01	0.0	0.11	2	10.0	0.1			
1100412	Soil Pulp	04	0.01	004	0.000	0	1.00	0.000	0.00	0.1	0.00	0.0	0.00	1	1.0	0.0			
1100413	Soil Pulp	10	0.00	010	0.000	1	0.00	0.000	0.10	0.0	0.00	0.1	0.00	1	1.0	0.0			
1100414	Soil Pulp	00	0.00	100	0.000	0	0.00	0.001	0.00	0.0	0.10	1.0	0.00	0	10.1	0.0			
1100415	Soil Pulp	07	0.00	100	0.000	1	0.01	0.001	0.07	0.1	0.10	1.0	0.00	0	10.0	0.0			
1100416	Soil Pulp	10	0.00	001	0.000	1	0.10	0.000	0.07	0.1	0.00	0.0	0.00	1	0.1	0.0			
1100417	Soil Pulp	10	0.00	000	0.000	1	0.00	0.000	0.00	0.1	0.10	0.0	0.00	1	0.1	0.0			
1100418	Soil Pulp	10	0.00	120	0.001	0	0.00	0.001	0.10	0.1	0.00	0.1	0.00	2	0.1	0.2			
1100419	Soil Pulp	0	0.00	111	0.002	1	0.10	0.001	0.11	0.1	0.20	0.1	0.11	1	1.1	0.2			
1100420	Soil Pulp	12	0.10	201	0.000	2	1.00	0.001	0.11	0.1	0.21	1.2	0.1	0.00	2	1.0	0.2		
1100421	Soil Pulp	10	0.01	000	0.000	0	0.07	0.000	0.11	0.1	0.01	0.0	0.10	2	1.0	0.0			
1100422	Soil Pulp	11	0.00	100	0.000	1	0.10	0.000	0.07	0.1	0.00	0.0	0.10	2	0.0	0.0			
1100423	Soil Pulp	00	0.01	007	0.000	0	1.07	0.001	0.10	0.1	0.00	0.0	0.00	0	0.1	0.0			
1100424	Soil Pulp	21	0.11	100	0.001	2	1.01	0.001	0.10	0.1	0.21	0.1	0.00	1	1.0	0.0			
1100425	Soil Pulp	00	0.00	001	0.000	0	1.00	0.001	0.10	0.1	0.00	0.0	0.00	0	1.0	0.0			
1100426	Soil Pulp	00	0.00	000	0.010	1	0.01	0.000	0.10	0.1	0.00	0.0	0.00	0	1.1	0.0			
1100427	Soil Pulp	21	0.10	100	0.000	2	1.10	0.000	0.11	0.1	0.20	1.1	0.0	1	1.1	0.2			
1100428	Soil Pulp	10	0.10	001	0.000	1	0.00	0.000	0.11	0.1	0.07	0.1	0.00	1	1.0	0.0			
1100429	Soil Pulp	00	0.10	000	0.000	1	1.00	0.000	0.07	0.1	0.10	1.0	0.00	0	0.0	0.0			
1100430	Soil Pulp	10	0.00	001	0.010	1	0.01	0.002	0.00	0.2	0.00	1.0	0.1	0.00	0	0.0	0.2		
1100431	Soil Pulp	00	0.00	010	0.010	1	1.00	0.000	0.00	0.1	0.00	0.0	0.00	0	1.1	0.0			
1100432	Soil Pulp	15	0.00	010	0.011	1	0.01	0.000	0.05	0.1	0.05	1.0	0.1	0.05	1	1.1	0.0		
1100433	Soil Pulp	05	0.00	010	0.001	0	0.00	0.001	0.00	0.1	0.10	1.0	0.1	0.05	5	0.0	0.0		
1100434	Soil Pulp	00	0.01	100	0.010	1	1.01	0.000	0.00	0.2	0.11	1.1	0.1	0.00	0	0.1	0.2		
1100435	Soil Pulp	10	0.10	1010	0.000	1	0.00	0.000	0.00	0.1	0.00	1.0	0.1	0.00	0	1.1	0.0		
1100436	Soil Pulp	00	0.07	1007	0.000	1	1.10	0.001	0.07	0.1	0.00	1.1	0.1	0.00	1	0.0	0.0		
1100437	Soil Pulp	21	0.00	100	0.000	1	1.10	0.001	0.01	0.1	0.00	1.2	0.1	0.00	1	0.0	0.2		
1100438	Soil Pulp	00	0.02	100	0.011	1	1.00	0.000	0.00	0.1	0.00	1.0	0.1	0.00	1	1.1	0.0		
1100439	Soil Pulp	00	0.01	210	0.001	1	0.11	0.000	0.01	0.1	0.01	0.0	0.00	0	0.0	0.2			

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Project: CCJV
Report Date: September 03, 2011

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CERTIFICATE OF ANALYSIS

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1183116 Soil Pulp	1.8	183.0	24.5	143	0.0	10.0	22.0	1157	0.10	1.7	1.1	0.1	20	0.0	0.1	0.0	20	0.00	0.000	0
1183117 Soil Pulp	1.0	62.2	17.2	80	0.2	10.0	17.1	100	27.2	0.0	1.0	0.2	10	0.1	0.0	0.1	00	0.02	0.000	1
1183118 Soil Pulp	1.1	220.1	27.0	70	0.0	20.1	20.0	2001	0.11	10.5	55.0	1.0	20	0.1	1.0	1.0	20	0.00	0.151	0
1183119 Soil Pulp	0.0	200.0	21.0	01	0.0	20.0	0.0	277	1.10	21.0	20.0	0.5	00	0.1	0.1	0.1	10	0.00	0.100	0
1183111 Soil Pulp	0.5	20.0	10.5	71	0.0	10.0	5.0	170	0.00	10.7	0.0	0.1	10	0.1	0.0	0.0	00	0.05	0.007	11
1183115 Soil Pulp	1.0	0.10	14.0	00	0.0	0.0	1.0	00	1.00	0.2	0.1	0.1	10	0.1	0.1	0.0	21	0.00	0.001	1
1183116 Soil Pulp	1.0	20.0	15.7	100	0.0	25.0	1.7	100	1.01	0.0	20.1	1.0	20	0.1	1.0	0.0	11	0.10	0.100	5
1183117 Soil Pulp	0.0	70.0	10.0	00	0.0	1.0	0.1	11	0.51	1.7	20.1	0.0	11	0.1	1.1	0.0	1	0.01	0.071	11
1183119 Soil Pulp	17.1	177.0	10.0	1102	0.0	112.7	10.0	1000	0.01	10.7	0.0	2.0	200	17.0	10.2	0.2	100	0.00	0.100	10
1183119 Soil Pulp	0.0	01.0	11.1	50	0.0	11.0	0.5	00	0.07	27.5	0.0	0.0	01	0.1	0.0	0.0	00	0.00	0.000	10
1183100 Soil Pulp	0.0	01.1	10.0	00	1.1	10.0	0.0	00	0.00	01.1	1.0	1.0	10	0.1	0.1	0.1	17	0.01	0.000	0
1183171 Soil Pulp	8.2	63.9	29.3	166	0.2	41.1	25.4	509	5.92	33.1	2.6	2.8	21	0.2	7.0	0.3	35	0.17	0.085	17
1183172 Soil Pulp	2.7	39.8	15.0	84	0.2	25.9	11.4	518	3.42	10.7	1.9	5.0	15	0.3	1.3	0.2	38	0.09	0.058	22
1183173 Soil Pulp	3.2	48.5	18.3	88	0.3	28.2	15.9	622	3.25	10.1	4.4	2.6	43	0.4	1.5	0.2	32	0.49	0.089	17
1183174 Soil Pulp	2.8	48.4	20.5	71	0.4	27.3	15.0	688	2.76	14.1	2.9	2.0	70	0.3	1.4	0.2	26	1.39	0.096	15
1183175 Soil Pulp	3.1	46.6	15.4	113	0.3	33.3	13.4	376	3.33	12.1	6.5	5.8	41	0.3	1.9	0.3	32	0.51	0.103	22
1183176 Soil Pulp	2.2	36.9	14.0	57	0.4	25.2	11.2	362	2.65	9.7	4.2	1.5	62	0.2	1.4	0.1	21	1.32	0.122	18
1183177 Soil Pulp	1.9	44.7	10.9	58	0.4	25.1	8.0	411	2.32	8.0	7.2	1.0	83	0.3	1.1	0.2	18	1.90	0.129	14
1183178 Soil Pulp	2.0	28.0	10.7	81	<0.1	23.2	11.1	487	2.54	16.4	2.1	3.1	27	0.5	1.5	0.1	35	0.34	0.120	18
1183179 Soil Pulp	1.3	27.5	9.8	67	0.3	17.9	8.4	396	1.94	7.8	3.9	1.9	66	0.3	1.0	0.1	28	1.27	0.123	15
1183180 Soil Pulp	1.1	26.1	10.2	70	0.4	20.0	8.8	417	2.02	9.6	3.9	1.1	87	0.6	1.4	0.2	23	1.59	0.103	12
1183181 Soil Pulp	3.0	36.3	13.4	101	0.3	22.0	11.8	321	2.74	38.5	3.8	1.8	55	0.5	3.9	0.2	30	0.94	0.110	15
1183183 Soil Pulp	2.6	34.9	10.7	117	0.5	25.0	9.0	628	2.68	29.2	6.9	2.3	51	0.7	2.2	0.2	37	0.78	0.151	18
1183184 Soil Pulp	2.1	33.6	8.9	88	0.4	22.1	8.7	452	2.37	22.1	5.4	1.6	61	0.4	2.0	0.2	34	1.14	0.144	14
1183185 Soil Pulp	1.3	21.0	10.3	66	0.3	14.3	8.3	479	2.01	18.1	3.5	0.9	65	0.4	1.2	0.1	28	1.29	0.105	11
1183186 Soil Pulp	1.5	28.9	10.1	83	0.4	22.0	8.7	329	2.15	21.8	5.0	1.3	67	0.3	1.6	0.1	33	1.22	0.116	15
1183187 Soil Pulp	1.9	44.4	11.3	93	0.3	25.6	10.8	496	2.33	23.8	8.1	1.9	70	0.5	1.9	0.1	33	1.12	0.131	17
1183188 Soil Pulp	1.8	38.7	9.6	80	0.5	24.1	8.9	328	2.16	37.2	10.8	1.2	77	0.5	2.3	0.1	31	1.52	0.092	14
1183100 Soil Pulp	0.5	20.0	11.1	00	0.0	20.5	10.5	115	0.05	01.7	1.5	0.1	10	0.5	1.7	0.0	15	0.00	0.000	10
1183100 Soil Pulp	1.0	55.0	11.1	00	0.0	20.5	15.5	010	0.50	11.0	0.0	1.0	07	0.7	1.7	0.0	01	0.07	0.100	01

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		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
1183170	Soil Pulp	25	0.81	1512	0.003	1	1.81	0.003	0.04	0.1	0.03	1.1	0.1	0.01	1	0.3	<0.2
1183171	Soil Pulp	13	0.11	334	0.004	1	0.35	0.004	0.04	<0.1	0.07	0.4	<0.1	0.03	4	0.3	<0.2
1183172	Soil Pulp	19	0.81	1533	0.003	2	1.21	0.003	0.03	0.1	0.13	2.1	0.1	0.13	3	1.3	<0.2
1183173	Soil Pulp	15	0.39	1533	0.004	1	1.02	0.013	0.03	0.1	0.03	0.3	0.3	0.11	2	1.3	<0.2
1183174	Soil Pulp	24	0.33	133	0.003	1	1.33	0.001	0.03	0.1	0.01	1.3	0.1	0.03	3	0.3	<0.2
1183175	Soil Pulp	18	0.33	212	0.004	1	0.33	0.003	0.04	0.1	0.07	0.1	0.1	0.03	2	1.2	<0.2
1183176	Soil Pulp	3	0.33	1332	0.003	2	0.33	0.013	0.04	0.1	0.03	2.1	0.1	0.11	1	1.3	<0.2
1183177	Soil Pulp	1	0.81	333	0.003	1	0.22	0.002	0.02	0.1	0.12	0.3	0.1	0.13	1	0.3	<0.2
1183178	Soil Pulp	23	1.13	3133	0.013	2	2.33	0.001	0.03	0.2	0.03	1.13	0.1	0.03	4	1.3	<0.2
1183179	Soil Pulp	12	0.13	133	0.011	1	0.31	0.003	0.03	0.1	0.03	1.2	0.1	0.03	3	2.1	<0.2
1183180	Soil Pulp	3	0.81	113	0.011	1	0.12	0.002	0.03	0.2	0.04	1.3	0.1	0.03	1	0.3	<0.2
1183171	Soil Pulp	13	0.12	148	0.002	2	0.85	0.004	0.09	<0.1	0.18	2.6	0.1	<0.05	2	1.6	<0.2
1183172	Soil Pulp	19	0.48	206	0.003	1	1.64	0.005	0.09	<0.1	0.05	2.4	0.1	<0.05	4	<0.5	<0.2
1183173	Soil Pulp	15	0.39	288	0.004	2	1.10	0.006	0.10	<0.1	0.14	2.5	<0.1	<0.05	3	0.7	<0.2
1183174	Soil Pulp	16	0.49	266	0.005	3	1.07	0.006	0.09	<0.1	0.17	2.4	0.1	0.07	3	0.8	<0.2
1183175	Soil Pulp	18	0.57	218	0.007	2	1.22	0.006	0.09	<0.1	0.13	2.8	<0.1	<0.05	4	<0.5	<0.2
1183176	Soil Pulp	13	0.40	406	0.005	3	0.85	0.004	0.10	<0.1	0.23	2.6	0.1	0.05	2	0.8	<0.2
1183177	Soil Pulp	13	0.44	291	0.004	4	0.78	0.004	0.09	<0.1	0.19	1.9	<0.1	0.12	2	1.3	<0.2
1183178	Soil Pulp	18	0.46	299	0.014	2	1.07	0.007	0.10	0.1	0.05	2.1	<0.1	<0.05	3	0.5	<0.2
1183179	Soil Pulp	14	0.55	234	0.011	3	0.96	0.005	0.12	<0.1	0.14	2.4	0.1	0.06	3	0.7	<0.2
1183180	Soil Pulp	14	0.45	353	0.006	3	0.86	0.005	0.08	<0.1	0.16	1.9	0.1	0.08	2	1.2	<0.2
1183181	Soil Pulp	15	0.38	330	0.005	2	1.00	0.005	0.11	<0.1	0.13	2.6	0.1	0.06	3	0.7	<0.2
1183183	Soil Pulp	19	0.48	375	0.010	3	1.14	0.006	0.12	<0.1	0.19	2.9	0.1	<0.05	3	1.1	<0.2
1183184	Soil Pulp	17	0.44	409	0.009	3	1.00	0.005	0.10	<0.1	0.14	2.6	<0.1	0.06	3	0.7	<0.2
1183185	Soil Pulp	14	0.41	278	0.006	3	0.88	0.004	0.08	<0.1	0.13	1.8	<0.1	0.09	3	1.1	<0.2
1183186	Soil Pulp	15	0.46	321	0.009	3	1.01	0.006	0.11	<0.1	0.13	2.2	<0.1	0.08	3	0.6	<0.2
1183187	Soil Pulp	16	0.48	267	0.009	2	0.99	0.007	0.10	<0.1	0.15	2.5	0.1	0.09	3	1.0	<0.2
1183188	Soil Pulp	16	0.44	299	0.008	4	0.99	0.007	0.10	<0.1	0.18	2.6	<0.1	0.09	3	1.2	<0.2
1183189	Soil Pulp	22	0.12	331	0.003	2	1.12	0.003	0.11	0.1	0.03	2.1	0.1	0.03	1	0.3	<0.2
1183190	Soil Pulp	21	0.81	331	0.001	3	1.23	0.001	0.13	0.1	0.11	2.3	0.2	0.03	3	0.3	<0.2

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1183199	Soil Pulp	0.1	17.0	10.0	81	0.1	22.0	0.0	100	0.70	10.7	1.5	0.0	50	0.5	0.0	0.0	0.5	0.70	0.100
1183199	Soil Pulp	2.0	30.0	14.0	80	0.1	0.0	2.0	7.0	2.11	1.12	1.0	0.0	0	0.1	0.0	0.1	0.00	0.002	0
1183199	Soil Pulp	1.7	35.1	14.0	80	0.1	17.0	0.0	0.71	0.04	14.0	1.0	0.0	0	0.0	1.0	0.0	0.00	0.000	14
1183199	Soil Pulp	0.1	21.1	20.0	00	0.1	20.1	10.0	7.10	0.10	10.0	1.0	0.0	10	0.0	1.1	0.0	0.10	0.000	10
1183199	Soil Pulp	0.1	20.0	14.0	01	0.1	01.0	7.1	707	0.01	14.0	1.0	0.0	7	0.1	0.0	0.0	0.00	0.001	0
1183199	Soil Pulp	0.1	12.10	20.0	100	0.0	00.0	10.1	1000	0.00	0.1	0.0	1.1	10	0.1	1.0	0.1	0.00	0.000	0
1183199	Soil Pulp	1.7	20.0	20.0	101	0.0	01.0	00.1	1070	0.01	10.0	7.0	0.0	17	0.0	0.0	0.1	0.00	0.000	10
1183199	Soil Pulp	0.0	00.0	10.0	00	0.1	11.0	0.0	0.70	0.01	0.0	0.1	0.0	0	0.1	1.1	0.0	1.00	0.000	10
1183199	Soil Pulp	1.0	00.0	10.1	100	0.0	01.0	10.0	1.10	0.00	0.0	1.1	0.0	20	0.0	0.0	0.1	0.00	0.100	0
1183225	Soil Pulp	2.5	40.2	16.0	81	0.1	28.4	15.0	434	3.46	11.2	2.7	3.5	14	0.4	1.2	0.2	41	0.16	0.084
1183226	Soil Pulp	2.3	32.6	15.2	68	0.2	22.2	13.5	444	3.68	11.2	2.4	3.3	14	0.3	1.2	0.2	47	0.13	0.110
1183227	Soil Pulp	1.7	17.0	11.2	49	0.1	14.3	6.3	398	2.61	9.8	1.2	0.5	9	0.2	0.9	0.2	49	0.09	0.096
1183228	Soil Pulp	2.2	16.1	12.5	56	<0.1	16.4	7.2	297	2.73	10.7	3.0	3.2	6	0.1	0.8	0.2	49	0.05	0.050
1183229	Soil Pulp	2.5	16.2	14.7	67	0.5	13.6	10.5	799	3.72	24.6	5.0	0.4	7	0.3	1.2	0.2	53	0.06	0.109
1183230	Soil Pulp	2.2	18.4	11.2	71	0.1	20.8	6.7	245	2.68	21.7	4.5	0.4	10	0.4	1.3	0.2	44	0.10	0.085
1183231	Soil Pulp	3.2	44.7	12.9	102	0.4	33.1	12.7	558	2.81	18.5	5.1	2.2	26	0.7	2.5	0.2	35	0.35	0.174
1183232	Soil Pulp	2.0	12.6	11.3	46	0.5	11.8	3.7	114	2.11	11.9	3.1	0.3	7	0.6	0.7	0.2	49	0.07	0.057
1183233	Soil Pulp	2.6	20.0	11.3	73	0.3	22.4	7.3	326	2.80	25.1	4.6	0.3	11	0.5	1.5	0.2	47	0.11	0.084
1183234	Soil Pulp	0.0	00.0	10.0	100	0.0	00.0	11.0	100	0.00	0.00	10.0	1.0	11	0.1	0.0	0.0	0.00	0.100	04
1183235	Soil Pulp	4.4	33.4	12.2	170	0.2	34.2	9.7	628	2.92	30.8	1.9	0.4	14	0.5	2.6	0.2	49	0.10	0.069
1183236	Soil Pulp	4.8	105.3	12.7	291	1.6	146.1	33.6	883	5.80	26.5	5.6	3.1	29	2.2	5.0	0.2	69	0.20	0.142
1183237	Soil Pulp	4.7	23.9	13.5	122	0.8	31.1	12.1	635	3.24	14.2	6.1	0.9	16	0.5	2.1	0.2	60	0.17	0.106
1183238	Soil Pulp	1.1	3.9	2.9	9	2.0	2.9	0.5	8	0.17	0.9	1.7	0.3	3	<0.1	1.0	0.1	13	0.03	0.031
1183239	Soil Pulp	3.2	13.9	8.9	55	0.8	11.2	2.1	80	1.07	6.5	1.5	0.1	9	0.3	0.9	0.2	42	0.06	0.078
1183240	Soil Pulp	23.9	53.1	11.7	491	1.1	108.1	9.0	569	3.27	36.4	3.3	1.0	45	3.9	7.8	0.2	314	0.88	0.168
1183241	Soil Pulp	4.5	22.6	9.8	108	0.5	25.7	3.7	114	2.08	14.8	3.2	0.6	10	0.7	2.5	0.2	56	0.05	0.066
1183242	Soil Pulp	12.7	46.9	10.5	329	3.2	67.6	7.5	182	2.29	29.9	7.6	1.1	49	1.2	6.8	0.2	110	0.65	0.151
1183243	Soil Pulp	10.7	35.1	10.2	109	2.0	20.6	3.0	52	1.67	13.6	5.6	1.6	36	0.5	4.4	0.1	49	0.04	0.070
1183244	Soil Pulp	5.5	40.8	14.1	109	2.1	30.6	11.9	250	3.10	15.0	5.6	4.0	33	0.6	2.1	0.2	64	0.09	0.099
1183245	Soil Pulp	6.7	30.2	12.0	118	1.7	25.8	6.5	195	2.77	15.1	4.2	1.8	27	0.4	1.9	0.2	70	0.04	0.097

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1183199 Soil Pulp	17	0.10	225	0.000	0	1.10	0.007	0.10	0.1	0.00	1.7	0.1	0.07	0	0.7	0.0
1183199 Soil Pulp	18	0.00	204	0.011	1	0.07	0.007	0.02	0.1	0.00	1.1	0.1	0.00	0	0.0	0.2
1183199 Soil Pulp	20	0.01	140	0.005	1	1.07	0.005	0.05	0.0	0.01	1.7	0.1	0.05	0	0.5	0.0
1183199 Soil Pulp	10	0.00	070	0.001	1	1.11	0.003	0.00	0.1	0.00	0.0	0.1	0.00	1	0.0	0.0
1183199 Soil Pulp	10	0.01	150	0.001	1	0.05	0.001	0.01	0.1	0.00	1.0	0.0	0.05	0	1.1	0.0
1183199 Soil Pulp	01	0.00	070	0.000	1	1.17	0.000	0.01	0.1	0.00	0.0	0.1	0.00	1	0.0	0.0
1183199 Soil Pulp	00	0.00	045	0.010	0	1.00	0.000	0.00	0.1	0.00	1.0	0.1	0.00	1	0.0	0.0
1183199 Soil Pulp	00	0.10	140	0.011	0	0.00	0.000	0.01	0.1	0.07	0.7	0.1	0.00	5	0.7	0.0
1183200 Soil Pulp	10	0.10	220	0.000	2	1.01	0.001	0.00	0.1	0.00	0.0	0.1	0.00	0	0.0	0.2
1183225 Soil Pulp	22	0.66	249	0.004	3	1.82	0.004	0.16	<0.1	0.04	2.3	0.1	<0.05	4	<0.5	<0.2
1183226 Soil Pulp	22	0.52	339	0.005	1	1.80	0.004	0.13	<0.1	0.05	2.6	0.1	<0.05	5	<0.5	<0.2
1183227 Soil Pulp	22	0.33	211	0.008	2	1.40	0.003	0.07	<0.1	0.05	0.8	0.1	<0.05	5	<0.5	<0.2
1183228 Soil Pulp	22	0.35	125	0.012	1	1.60	0.003	0.05	0.2	0.02	1.8	0.2	<0.05	5	<0.5	<0.2
1183229 Soil Pulp	23	0.20	146	0.009	1	1.30	0.003	0.05	0.2	0.07	0.9	0.1	<0.05	5	0.6	<0.2
1183230 Soil Pulp	21	0.30	191	0.007	2	1.36	0.003	0.05	0.1	0.03	0.6	0.1	<0.05	4	0.7	<0.2
1183231 Soil Pulp	19	0.48	482	0.011	2	1.02	0.004	0.08	<0.1	0.16	1.8	0.1	<0.05	3	0.9	<0.2
1183232 Soil Pulp	18	0.18	218	0.009	<1	1.04	0.003	0.04	0.2	0.06	0.6	0.1	<0.05	5	0.7	<0.2
1183233 Soil Pulp	18	0.19	242	0.008	<1	0.96	0.003	0.05	0.2	0.06	0.8	0.1	<0.05	4	0.8	<0.2
1183234 Soil Pulp	00	0.00	044	0.001	0	1.11	0.000	0.10	0.0	0.07	0.0	0.0	0.10	1	0.0	0.0
1183235 Soil Pulp	19	0.24	297	0.007	1	0.92	0.003	0.07	0.2	0.07	0.9	0.1	<0.05	3	1.1	<0.2
1183236 Soil Pulp	42	0.36	572	0.003	1	1.04	0.005	0.09	<0.1	0.90	10.9	0.2	<0.05	3	3.1	<0.2
1183237 Soil Pulp	26	0.41	392	0.008	1	1.42	0.003	0.08	0.1	0.46	1.2	0.2	<0.05	4	1.6	<0.2
1183238 Soil Pulp	5	0.01	69	0.003	1	0.16	0.002	0.03	<0.1	0.05	0.4	<0.1	<0.05	1	<0.5	<0.2
1183239 Soil Pulp	18	0.05	121	0.004	1	0.52	0.003	0.04	0.1	0.10	0.2	0.2	<0.05	5	1.2	<0.2
1183240 Soil Pulp	40	0.23	943	0.003	2	1.24	0.003	0.11	0.1	0.68	2.1	0.7	<0.05	4	6.6	<0.2
1183241 Soil Pulp	15	0.09	232	0.006	1	0.62	0.002	0.07	0.1	0.05	0.8	0.2	<0.05	3	1.9	<0.2
1183242 Soil Pulp	24	0.20	1197	0.003	2	0.82	0.003	0.08	0.1	0.98	1.4	0.3	<0.05	2	4.4	<0.2
1183243 Soil Pulp	11	0.06	319	0.004	1	0.33	0.001	0.07	<0.1	0.29	1.0	0.3	0.11	1	9.2	<0.2
1183244 Soil Pulp	27	0.25	254	0.008	1	1.44	0.004	0.08	0.2	0.30	2.7	0.2	<0.05	4	3.6	<0.2
1183245 Soil Pulp	21	0.15	208	0.006	<1	1.25	0.002	0.06	0.2	0.19	1.6	0.3	<0.05	4	2.7	<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
1183246	Soil Pulp	14.7	4.6	11.7	8	10.0	2.0	0.2	4	0.91	<0.5	6.2	0.2	15	<0.1	4.7	0.2	37	<0.01	0.053	18
1183247	Soil Pulp	26.2	48.1	20.4	206	0.9	27.0	4.0	45	2.86	39.7	2.5	2.9	75	0.3	4.7	0.3	77	0.01	0.069	29
1183248	Soil Pulp	14.7	37.5	17.8	209	0.5	38.1	5.3	63	2.12	16.5	1.2	0.2	35	0.3	3.9	0.2	103	0.02	0.069	22
1183249	Soil Pulp	4.9	20.8	15.0	111	0.4	21.6	6.3	288	3.07	14.7	2.7	1.1	14	0.4	1.5	0.2	68	0.04	0.081	13
1183250	Soil Pulp	5.8	32.4	14.5	160	1.1	27.1	4.4	50	1.78	10.0	0.9	0.2	17	0.2	1.7	0.2	66	0.01	0.055	14
1183251	Soil Pulp	2.3	21.3	13.7	87	3.3	11.3	3.1	113	3.11	33.3	1.3	3.3	33	3.1	1.3	3.3	33	3.33	3.333	11
1183252	Soil Pulp	3.3	33.3	13.1	31	3.3	13.3	3.3	33	3.33	13.1	1.3	3.3	13	3.1	1.3	3.3	33	3.33	3.313	13
1183253	Soil Pulp	3.1	13.1	13.5	31	1.3	13.3	1.1	135	3.31	35.5	5.3	1.3	33	3.1	1.3	3.3	15	3.33	3.331	13
1183254	Soil Pulp	3.5	53.3	13.1	73	1.3	13.3	1.1	111	3.33	13.3	13.3	1.3	13	3.1	1.3	3.3	33	3.33	3.353	13
1183255	Soil Pulp	2.1	13.3	13.3	31	1.1	23.3	3.3	233	3.11	23.1	3.3	2.3	13	3.1	1.3	3.3	33	3.33	3.333	3
1183256	Soil Pulp	1.3	31.3	13.3	33	3.3	33.3	3.1	131	3.33	13.3	3.3	1.1	13	3.3	1.3	3.3	33	3.33	3.331	3
1183257	Soil Pulp	3.1	13.3	3.3	31	3.1	3.3	1.1	37	1.33	3.3	1.3	3.1	3	3.1	1.3	3.3	33	3.31	3.333	3
1183258	Soil Pulp	3.3	11.1	11.1	33	3.1	11.1	2.3	113	3.13	13.1	2.3	1.3	13	3.1	2.3	3.3	31	3.33	3.311	3
1183259	Soil Pulp	1.3	33.3	13.3	33	1.3	11.3	3.1	132	3.33	23.3	1.3	2.1	13	3.1	2.3	3.3	73	3.33	3.333	13
1183260	Soil Pulp	3.3	31.5	13.3	13	3.1	13.3	3.3	33	3.33	35.3	3.3	3.3	11	3.1	1.3	3.1	53	3.33	3.313	3
1183261	Soil Pulp	3.1	13.3	3.3	35	3.3	3.3	1.1	13	1.31	11.3	3.1	3.1	3	3.1	1.3	3.1	37	3.33	3.333	13
1183262	Soil Pulp	5.3	13.5	13.3	53	3.3	3.3	3.5	133	3.53	33.1	3.1	3.1	31	3.1	3.3	3.3	33	3.33	3.355	11
1183263	Soil Pulp	3.3	32.3	13.3	33	1.3	23.3	1.3	33	2.33	13.3	3.3	1.1	11	3.3	1.3	3.1	13	3.31	3.333	13
1183264	Soil Pulp	3.3	33.3	3.3	133	1.1	33.3	3.3	133	3.33	31.3	3.3	3.3	31	3.3	3.3	3.3	13	3.33	3.333	13
1183265	Soil Pulp	3.3	11.3	13.3	33	1.3	13.3	2.3	33	1.33	13.3	11.3	1.1	33	3.1	3.3	3.3	13	3.33	3.333	13
1183266	Soil Pulp	3.3	13.1	13.3	133	3.3	13.3	3.3	13	1.11	31.3	13.3	3.1	37	3.3	1.1	3.3	31	3.33	3.313	11
1183267	Soil Pulp	3.3	31.5	13.1	113	1.3	33.3	1.1	111	3.13	31.3	3.1	3.3	13	3.3	1.3	3.3	33	3.31	3.333	13
1183268	Soil Pulp	3.5	3.3	11.1	35	1.3	3.5	3.3	13	3.33	1.3	1.3	3.1	33	3.3	1.3	3.3	53	3.33	3.313	13
1183269	Soil Pulp	13.1	23.3	13.1	31	3.3	3.3	1.3	11	2.13	33.1	1.1	3.1	133	3.1	3.1	3.3	121	3.33	3.133	13
1183270	Soil Pulp	3.3	13.3	13.3	33	1.3	11.3	3.3	35	3.35	31.1	1.1	3.3	33	3.3	3.3	3.3	133	3.35	3.313	13
1183271	Soil Pulp	3.3	33.3	13.3	33	3.1	3.3	3.3	33	1.33	31.3	1.1	3.3	33	3.1	3.3	3.3	33	3.33	3.333	11
1183272	Soil Pulp	1.3	33.3	11.3	37	1.3	13.3	3.1	33	3.13	31.1	13.3	3.3	13	3.3	3.3	3.3	33	3.33	3.333	3
1183273	Soil Pulp	1.3	33.3	11.3	37	3.3	11.1	2.1	71	3.33	33.3	1.1	3.3	33	3.3	3.3	3.3	33	3.31	3.313	13
1183274	Soil Pulp	1.3	23.3	13.3	31	3.3	3.3	2.3	31	2.11	32.3	2.3	1.3	17	3.1	2.3	3.3	31	3.33	3.333	13
1183275	Soil Pulp	1.3	13.3	13.3	32	1.3	11.3	2.1	33	3.31	12.3	3.1	1.3	33	3.1	1.3	3.3	31	3.33	3.131	13

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Project: CCJV
Report Date: September 03, 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
		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
1183246	Soil Pulp	13	<0.01	412	0.003	1	0.16	0.001	0.11	0.3	0.60	0.2	0.7	0.23	1	42.7	<0.2
1183247	Soil Pulp	21	0.02	425	0.002	2	0.35	0.002	0.13	<0.1	2.70	1.3	1.5	0.36	5	19.1	<0.2
1183248	Soil Pulp	11	0.03	151	0.004	2	0.47	0.002	0.08	0.1	0.04	0.4	0.3	<0.05	3	3.1	<0.2
1183249	Soil Pulp	26	0.21	138	0.014	1	1.22	0.003	0.07	0.2	0.06	1.3	0.2	<0.05	5	1.7	<0.2
1183250	Soil Pulp	10	0.03	104	0.005	<1	0.49	0.002	0.05	0.1	0.03	0.3	0.2	<0.05	4	1.7	<0.2
1183251	Soil Pulp	13	0.03	173	0.013	1	0.33	0.003	0.33	0.1	0.33	0.1	0.1	0.33	3	1.1	0.2
1183252	Soil Pulp	13	0.13	373	0.013	1	0.33	0.003	0.33	0.1	0.33	0.1	0.1	0.33	5	1.1	0.2
1183253	Soil Pulp	13	0.13	373	0.011	1	0.33	0.005	0.31	0.1	0.31	1.3	0.1	0.33	1	1.5	0.2
1183254	Soil Pulp	33	0.13	131	0.003	1	0.31	0.003	0.33	0.1	0.33	1.3	0.1	0.33	3	0.7	0.2
1183255	Soil Pulp	22	0.21	131	0.022	1	0.33	0.003	0.33	0.1	0.31	1.3	0.1	0.33	1	1.3	0.2
1183256	Soil Pulp	37	0.33	333	0.003	1	1.13	0.001	0.33	0.1	0.33	1.3	0.1	0.33	1	1.3	0.2
1183257	Soil Pulp	3	0.33	333	0.003	1	0.17	0.003	0.33	0.1	0.33	1.3	0.1	0.33	3	0.3	0.2
1183258	Soil Pulp	13	0.13	133	0.003	1	0.33	0.003	0.31	0.2	0.33	1.3	0.1	0.33	1	1.1	0.2
1183259	Soil Pulp	23	0.13	337	0.003	1	0.33	0.001	0.33	0.2	0.33	1.3	0.2	0.33	3	1.1	0.2
1183260	Soil Pulp	33	0.33	133	0.005	1	0.33	0.003	0.33	0.3	0.33	1.1	0.1	0.33	3	1.3	0.2
1183261	Soil Pulp	11	0.31	351	0.005	3	0.17	0.003	0.31	0.1	0.31	0.3	0.1	0.33	3	0.5	0.2
1183262	Soil Pulp	15	0.33	373	0.015	1	0.33	0.003	0.31	0.3	0.33	0.3	0.3	0.33	3	1.7	0.2
1183263	Soil Pulp	13	0.22	1113	0.011	2	0.31	0.001	0.33	0.1	0.23	1.1	0.2	0.33	3	2.1	0.2
1183264	Soil Pulp	13	0.33	1333	0.013	3	0.33	0.003	0.33	0.1	0.33	1.3	0.2	0.33	3	0.3	0.2
1183265	Soil Pulp	13	0.17	3131	0.003	3	0.33	0.003	0.33	0.2	0.11	1.3	0.3	0.33	3	0.7	0.2
1183266	Soil Pulp	17	0.33	313	0.007	3	0.33	0.003	0.33	0.1	0.11	0.3	0.3	0.33	3	0.1	0.2
1183267	Soil Pulp	31	0.33	137	0.011	3	1.11	0.001	0.33	0.1	0.33	1.3	0.3	0.33	1	1.7	0.2
1183268	Soil Pulp	3	0.31	131	0.003	3	0.33	0.003	0.31	0.1	0.33	0.1	0.3	0.33	3	1.3	0.2
1183269	Soil Pulp	13	0.31	1323	0.003	2	0.31	0.001	0.33	0.2	0.13	0.2	0.1	0.12	3	0.3	0.2
1183270	Soil Pulp	33	0.33	3331	0.013	3	0.33	0.003	0.33	0.3	0.33	1.3	0.3	0.33	5	0.3	0.2
1183271	Soil Pulp	11	0.33	337	0.013	3	0.15	0.003	0.33	0.1	0.33	0.7	0.3	0.33	3	1.5	0.2
1183272	Soil Pulp	13	0.37	1331	0.001	3	0.33	0.001	0.31	0.1	0.33	0.3	0.3	0.33	3	0.3	0.2
1183273	Soil Pulp	13	0.33	333	0.003	1	0.33	0.001	0.33	0.1	0.33	1.3	0.1	0.33	1	1.3	0.2
1183274	Soil Pulp	13	0.33	331	0.013	2	0.33	0.003	0.33	0.2	0.33	0.3	0.2	0.33	3	1.1	0.2
1183275	Soil Pulp	13	0.33	133	0.012	2	0.31	0.001	0.33	0.2	0.13	1.1	0.3	0.33	3	2.3	0.2

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Project: CCJV
Report Date: September 03, 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	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
1100070	Self-Rep		10	10.0	10.0	00	0.0	11.0	0.1	00	2.00	10.0	0.0	10	10	0.1	0.0	0.02	0.1	0.01	0.000	0		
1100077	Self-Rep		0.1	10.0	10.0	15	1.0	10.1	0.5	07	1.00	10.0	11.1	0.0	10	0.1	1.0	0.0	07	0.01	0.070	0		
1100080	Self-Rep		0.0	00.0	10.0	00	1.1	0.0	0.0	10	1.00	00.1	0.1	0.1	00	0.0	1.0	0.0	00	0.00	0.000	0		
1100083	Self-Rep		0.0	00.0	11.0	01	0.7	10.0	0.0	117	0.00	11.1	0.0	0.1	10	0.1	0.1	0.0	00	0.00	0.000	10		
1100086	Self-Rep		0.1	00.0	11.0	01	1.0	10.1	0.1	100	0.00	00.0	0.0	0.0	11	0.1	0.7	0.0	00	0.00	0.000	0		
1100091	Self-Rep		0.1	10.1	10.7	01	1.0	11.0	0.1	100	0.00	10.1	1.0	0.0	0	0.1	1.1	0.0	71	0.01	0.001	10		
1100098	Self-Rep		5.1	00.0	15.0	05	0.5	11.0	0.1	00	0.10	11.0	0.5	0.0	01	0.1	0.0	0.0	00	0.00	0.000	11		
1100151	Self-Rep		0.7	101.7	00.7	110	0.5	07.1	10.0	000	1.00	00.0	00.0	0.7	00	0.0	0.0	0.0	00	0.01	0.000	0		
1100150	Self-Rep		0.0	00.1	10.0	00	0.0	17.0	5.0	000	0.01	10.0	0.0	0.0	0	0.0	1.0	0.0	07	0.00	0.015	11		
1100100	Self-Rep		0.02	10.02	11.1	70	0.0	00.02	1.1	011	0.01	10.1	0.0	0.11	0	0.02	1.0	0.0	00	0.00	0.000	70		
1100101	Self-Rep		0.0	00.0	10.0	00	0.0	10.0	1.0	100	0.00	10.7	0.7	0.0	0	0.0	1.1	0.0	01	0.01	0.007	0		
1100100	Self-Rep		0.1	00.7	10.0	10	0.0	11.0	0.7	100	0.07	10.0	0.0	0.1	10	0.1	0.0	0.0	00	0.00	0.000	10		
1100100	Self-Rep		1.0	10.0	10.0	00	0.1	00.0	0.1	100	0.00	01.0	0.0	0.0	10	0.1	1.0	0.0	01	0.01	0.000	10		
1100107	Self-Rep		0.0	01.0	11.0	00	0.1	10.0	0.0	010	0.01	10.0	0.0	1.1	0	0.1	1.0	0.0	77	0.01	0.010	10		
1100100	Self-Rep		0.1	01.0	10.7	77	0.0	01.0	5.1	100	0.00	10.0	5.0	1.0	00	0.1	1.1	0.0	01	0.00	0.071	0		
1100100	Self-Rep		1.0	01.0	10.0	101	0.1	00.0	10.7	1010	0.01	07.0	00.0	0.7	0	0.0	1.0	0.0	10	0.05	0.070	10		
1100100	Self-Rep		1.0	11.0	10.0	01	0.0	00.1	0.0	107	0.17	107.7	0.0	0.0	0	0.1	1.0	0.0	00	0.00	0.000	10		
1100101	Self-Rep		0.1	002.1	01.0	100	0.0	10.0	00.0	0100	10.1	10.1	10.0	0.1	00	0.02	0.1	0.0	00	01.0	0.101	10		
1100100	Self-Rep		00.7	000.0	00.0	110	0.0	00.7	11.0	0000	1.00	01.1	00.7	1.0	00	0.0	0.0	0.1	00	0.11	0.110	10		
1100100	Self-Rep		1.7	100.0	00.0	110	0.0	00.1	00.0	1011	11.0	10.7	0.0	0.7	00	0.1	0.0	0.0	01	0.00	0.110	7		
1100101	Self-Rep		1.0	00.0	11.1	00	0.0	0.7	1.0	17	10.1	11.0	1.0	0.0	10	0.1	0.7	0.0	00	0.01	0.000	0		
1100105	Self-Rep		0.0	00.0	17.0	00	0.0	10.0	1.5	105	0.07	15.0	0.0	0.5	11	0.0	1.7	0.0	17	0.05	0.000	0		
1100100	Self-Rep		0.0	07.0	0.5	11	0.5	11.1	0.0	51	1.00	0.0	1.0	0.0	0	0.1	1.0	0.0	10	0.00	0.051	0		
1100101	Self-Rep		0.0	00.0	11.0	00	0.0	10.0	0.1	210	0.01	10.0	1.0	1.1	10	0.1	1.0	0.0	10	0.00	0.110	10		
1100100	Self-Rep		10.0	01.7	11.0	00	0.0	00.0	0.0	01	0.07	07.0	0.0	0.0	00	0.7	1.0	0.0	07	0.00	0.107	10		
1100100	Self-Rep		0.7	07.0	17.1	111	1.0	00.0	0.1	111	0.07	01.0	0.0	0.0	00	0.0	0.0	0.0	00	0.01	0.001	0		
1100170	Self-Rep		0.0	10.1	11.1	01	0.7	00.1	0.0	00	0.10	10.1	1.0	1.1	10	0.1	0.7	0.0	10	0.01	0.100	11		
1100171	Self-Rep		1.0	00.0	10.0	77	0.7	10.0	1.0	101	0.00	10.0	0.1	0.1	10	0.1	0.1	0.0	10	0.00	0.000	10		
1100170	Self-Rep		1.0	00.1	10.0	00	1.0	10.0	0.0	00	0.00	10.0	1.7	0.0	10	0.0	0.1	0.0	101	0.00	0.000	10		
1100170	Self-Rep		1.0	11.1	11.0	01	10.0	10.1	0.0	110	0.00	22.0	1.0	21.0	10	0.0	1.7	0.0	100	0.01	0.100	10		

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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
1100070	Soil Pulp	11	0.01	0.00	0.000	2	0.00	0.000	0.01	0.1	0.00	1.0	0.1	0.00	1	1.0	0.1		
1100071	Soil Pulp	11	0.10	1.00	0.001	0	0.00	0.000	0.01	0.1	0.15	0.1	0.05	0	1.5	0.0			
1100072	Soil Pulp	10	0.00	0.11	0.001	0	0.00	0.000	0.00	0.1	0.00	0.1	0.00	0	1.0	0.0			
1100073	Soil Pulp	10	0.11	0.00	0.001	1	0.01	0.000	0.00	0.0	0.00	1.0	0.1	0.00	0	1.0	0.0		
1100074	Soil Pulp	00	0.10	0.00	0.010	0	0.00	0.000	0.00	0.1	0.00	1.0	0.1	0.00	1	0.0	0.0		
1100075	Soil Pulp	01	0.10	1.00	0.010	1	1.01	0.000	0.01	0.0	0.00	1.1	0.1	0.00	0	1.1	0.0		
1100076	Soil Pulp	10	0.10	1.00	0.000	0	0.00	0.001	0.11	0.1	0.00	1.1	0.0	0.00	1	0.0	0.0		
1100151	Soil Pulp	00	0.01	1.01	0.010	0	1.10	0.000	0.05	0.1	0.11	0.0	0.0	0.00	0	0.0	0.0		
1100152	Soil Pulp	01	0.10	0.00	0.010	1	1.00	0.001	0.05	0.0	0.01	1.0	0.0	0.05	5	0.0	0.0		
1100153	Soil Pulp	00	0.10	1.11	0.000	2	0.00	0.000	0.00	0.1	0.00	1.1	0.1	0.00	0	0.0	0.0		
1100154	Soil Pulp	00	0.10	1.00	0.001	0	1.00	0.001	0.00	0.0	0.00	1.1	0.1	0.00	0	0.0	0.0		
1100155	Soil Pulp	00	0.10	0.0	0.010	1	1.01	0.000	0.01	0.1	0.00	0.0	0.1	0.00	0	1.0	0.0		
1100156	Soil Pulp	10	0.10	1.0	0.010	2	0.00	0.001	0.01	0.0	0.00	1.0	0.1	0.00	0	0.0	0.0		
1100157	Soil Pulp	10	0.10	1.0	0.010	2	0.00	0.001	0.01	0.0	0.00	1.0	0.1	0.00	0	0.0	0.0		
1100158	Soil Pulp	05	0.00	0.01	0.000	0	1.01	0.001	0.00	0.1	0.00	1.0	0.1	0.05	1	0.5	0.0		
1100159	Soil Pulp	05	0.00	0.00	0.010	0	1.00	0.001	0.00	0.1	0.00	1.0	0.0	0.05	1	0.5	0.0		
1100160	Soil Pulp	10	0.10	0.01	0.001	0	0.00	0.000	0.05	0.1	0.00	1.0	0.1	0.05	0	0.5	0.0		
1100161	Soil Pulp	00	0.01	1.00	0.000	2	1.01	0.001	0.00	0.1	0.10	0.0	0.1	0.00	1	1.1	0.0		
1100162	Soil Pulp	01	0.10	0.00	0.010	0	0.10	0.000	0.00	0.1	0.10	0.0	0.1	0.00	0	1.0	0.0		
1100163	Soil Pulp	00	0.00	0.00	0.000	0	1.00	0.000	0.00	0.1	0.10	1.1	0.0	0.00	1	0.0	0.0		
1100164	Soil Pulp	01	0.00	1.11	0.000	1	0.01	0.000	0.01	0.1	0.00	0.0	0.1	0.00	0	1.1	0.0		
1100165	Soil Pulp	00	0.10	0.00	0.010	1	0.00	0.001	0.05	0.0	0.15	1.1	0.1	0.05	1	0.0	0.0		
1100166	Soil Pulp	10	0.01	0.00	0.011	1	0.01	0.000	0.01	0.1	0.05	0.5	0.1	0.05	0	0.0	0.0		
1100167	Soil Pulp	00	0.00	1.00	0.001	2	0.00	0.001	0.00	0.0	0.00	1.1	0.0	0.00	0	0.0	0.0		
1100168	Soil Pulp	00	0.10	1.01	0.000	0	1.10	0.000	0.00	0.1	0.00	1.1	0.5	0.10	1	0.0	0.0		
1100169	Soil Pulp	10	0.00	0.00	0.000	0	0.00	0.001	0.00	0.1	0.10	0.0	0.1	0.00	0	0.0	0.0		
1100170	Soil Pulp	10	0.00	1.00	0.000	1	0.00	0.000	0.00	0.1	0.10	1.0	0.0	0.00	0	0.1	0.0		
1100171	Soil Pulp	10	0.10	0.00	0.000	1	0.00	0.000	0.01	0.1	0.00	1.0	0.1	0.00	0	1.0	0.0		
1100172	Soil Pulp	00	0.11	0.00	0.011	1	1.00	0.000	0.01	0.0	0.00	1.0	0.0	0.00	0	0.1	0.0		
1100173	Soil Pulp	01	0.00	0.01	0.000	1	1.00	0.000	0.00	0.0	0.00	1.1	0.0	0.00	0	1.0	0.0		



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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1188474	Soil Pulp	0.4	0.0	11.0	111	5.7	05.0	0.0	50	0.01	00.7	1.5	0.0	07	0.1	1.5	0.0	101	0.05	0.000
1188475	Soil Pulp	0.4	07.5	11.1	101	1.0	00.0	0.0	01	0.00	10.0	0.0	1.1	00	0.1	5.0	0.0	51	0.00	0.000
1188476	Soil Pulp	10.0	20.0	11.0	110	1.2	22.0	0.2	01	2.00	27.1	0.1	1.1	10	0.2	0.1	0.0	0.01	0.001	1.1
1188477	Soil Pulp	1.0	10.0	0.7	10	1.0	11.0	1.0	10	0.01	0.0	0.1	1.0	00	0.1	0.0	0.1	10	0.11	0.007
1188478	Soil Pulp	0.0	07.0	11.0	10	1.0	00.0	0.1	00	1.10	1.0	0.0	1.0	10	0.7	0.0	0.0	00	0.00	0.001
1188479	Soil Pulp	0.0	00.0	17.0	11	1.0	10.1	1.1	01	1.00	10.0	0.0	0.7	00	0.0	0.0	0.0	00	0.00	0.070
1188480	Soil Pulp	1.7	00.0	11.0	07	0.0	10.0	2.0	101	1.01	10.0	0.0	0.7	01	0.0	0.0	0.0	01	0.00	0.001
1188481	Soil Pulp	0.0	07.0	11.7	100	0.0	22.0	0.0	70	0.01	20.0	0.0	2.1	10	0.0	1.1	0.0	01	0.00	0.000
1188482	Soil Pulp	1.0	11.0	10.0	00	0.0	10.0	2.1	00	0.00	00.0	2.1	1.1	00	0.0	1.1	0.0	00	0.01	0.170
1188483	Soil Pulp	1.0	11.0	17.0	50	1.1	15.1	1.0	110	0.00	01.0	0.0	0.0	10	0.0	0.1	0.0	00	0.01	0.000
1188484	Soil Pulp	10.0	10.1	0.0	110	0.0	10.0	0.0	00	0.00	00.0	0.0	0.1	10	1.0	0.0	0.0	00	0.00	0.010
1188485	Soil Pulp	0.7	00.1	0.0	00	0.0	10.0	0.7	111	0.00	10.1	0.0	0.0	11	0.0	1.0	0.0	00	0.00	0.001
1188486	Soil Pulp	0.0	00.0	0.0	00	1.0	0.0	1.7	10	11.00	7.10	1.0	0.0	10	0.1	0.1	0.0	00	0.01	0.000
1188487	Soil Pulp	0.0	10.0	10.0	01	0.1	10.1	0.1	010	0.01	01.1	0.0	0.1	10	0.1	0.0	0.0	01	0.00	0.100
1188488	Soil Pulp	0.0	00.0	11.0	00	1.1	11.0	0.0	100	0.11	00.0	1.0	1.0	00	0.0	1.1	0.0	00	0.00	0.001
1183601	Soil Pulp	21.8	80.1	20.1	470	1.3	81.3	6.6	104	3.52	36.0	4.6	0.6	62	1.2	8.2	0.2	179	0.05	0.216
1183602	Soil Pulp	6.1	28.6	14.5	124	2.7	29.3	5.1	163	3.17	21.4	2.6	1.6	23	0.3	2.6	0.2	95	0.03	0.084
1183603	Soil Pulp	4.5	13.8	13.7	87	12.9	14.6	5.1	278	3.35	14.6	1.2	3.1	12	0.5	1.5	0.3	90	0.06	0.119
1183604	Soil Pulp	7.7	18.4	14.3	89	2.3	17.0	3.6	192	2.66	18.1	0.8	0.8	13	0.2	2.5	0.3	85	0.03	0.070
1183605	Soil Pulp	8.6	27.9	12.1	135	1.9	36.8	5.3	81	1.77	18.0	<0.5	0.1	15	0.4	3.3	0.2	95	0.01	0.086
1183606	Soil Pulp	9.3	57.6	13.6	208	0.3	98.8	15.8	692	3.88	23.8	1.8	0.9	15	1.6	3.6	0.2	79	0.06	0.111
1183607	Soil Pulp	8.8	67.7	14.2	193	0.2	40.9	8.8	407	2.70	16.4	4.2	1.7	42	0.6	3.4	0.2	76	0.23	0.162
1183608	Soil Pulp	18.3	33.6	12.3	232	0.4	45.0	4.3	160	1.94	21.3	2.7	0.2	14	0.7	4.9	0.2	98	0.09	0.079
1183609	Soil Pulp	5.1	27.0	11.7	108	0.2	22.5	5.8	270	2.58	22.3	0.8	0.4	17	0.3	2.2	0.2	67	0.04	0.076
1183610	Soil Pulp	4.3	43.5	12.8	141	0.1	24.6	7.9	293	3.15	20.0	1.4	0.4	10	0.4	2.2	0.2	69	0.05	0.115
1183611	Soil Pulp	3.8	18.6	10.3	81	0.1	16.5	3.6	143	1.95	12.3	<0.5	0.1	9	0.1	1.7	0.2	71	0.03	0.086
1180010	Soil Pulp	0.1	11.1	0.0	00	0.0	0.1	0.0	00	1.00	11.1	0.0	0.1	11	0.0	0.0	0.0	00	0.10	0.100
1180010	Soil Pulp	0.1	01.0	11.0	00	0.0	01.0	0.0	017	0.01	11.0	0.0	1.0	11	0.0	1.0	0.0	70	0.10	0.111
1180011	Soil Pulp	0.0	10.0	10.0	00	0.1	10.1	0.0	100	0.01	10.0	0.7	0.1	10	0.0	1.1	0.0	70	0.07	0.000
1180010	Soil Pulp	0.0	00.0	11.7	100	0.7	01.0	0.1	000	2.00	10.0	2.1	1.0	00	0.0	2.0	0.0	0.10	0.100	10

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



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Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1188474	Soil Pulp	25	0.15	169	0.003	1	1.16	0.002	0.08	0.1	0.08	1.5	0.2	4	2.9	<0.2
1188475	Soil Pulp	19	0.08	218	0.002	1	1.03	0.002	0.05	0.2	0.25	1.3	0.2	4	1.9	<0.2
1188476	Soil Pulp	18	0.14	275	0.007	1	0.91	0.003	0.08	0.1	0.16	0.5	0.5	5	3.3	<0.2
1188477	Soil Pulp	18	0.14	372	0.010	2	0.87	0.003	0.08	0.1	0.16	0.5	0.5	5	1.2	<0.2
1188478	Soil Pulp	19	0.11	107	0.017	1	0.81	0.003	0.06	0.2	0.08	1.0	0.2	6	1.6	<0.2
1188479	Soil Pulp	16	0.05	160	0.002	<1	0.61	0.002	0.05	0.1	0.35	0.2	0.2	4	2.7	<0.2
1188480	Soil Pulp	19	0.08	218	0.002	1	1.03	0.002	0.05	<0.1	0.25	1.3	0.2	4	1.9	<0.2
1188481	Soil Pulp	24	0.42	694	0.005	4	1.20	0.008	0.18	<0.1	0.09	1.9	0.3	4	1.3	<0.2
1188482	Soil Pulp	18	0.14	275	0.007	1	0.91	0.003	0.08	0.1	0.16	0.5	0.5	5	3.3	<0.2
1188483	Soil Pulp	18	0.14	372	0.010	2	0.87	0.003	0.08	0.1	0.16	0.5	0.5	5	1.2	<0.2
1188484	Soil Pulp	23	0.40	279	0.005	1	1.35	0.002	0.13	<0.1	0.06	0.7	0.2	5	1.2	<0.2
1188485	Soil Pulp	18	0.12	209	0.004	1	1.09	0.002	0.09	<0.1	0.04	0.1	0.3	6	1.4	<0.2
1188486	Soil Pulp	19	0.08	218	0.002	1	1.03	0.002	0.05	0.2	0.25	1.3	0.2	4	1.9	<0.2
1188487	Soil Pulp	25	0.15	169	0.003	1	1.16	0.002	0.08	0.1	0.08	1.5	0.2	4	2.9	<0.2
1188488	Soil Pulp	19	0.08	218	0.002	1	1.03	0.002	0.05	0.2	0.25	1.3	0.2	4	1.9	<0.2
1188489	Soil Pulp	26	0.20	128	0.025	<1	1.22	0.003	0.07	0.2	0.14	1.7	0.2	7	2.2	<0.2
1188490	Soil Pulp	19	0.11	107	0.017	1	0.81	0.003	0.06	0.2	0.08	1.0	0.2	6	1.6	<0.2
1188491	Soil Pulp	16	0.05	160	0.002	<1	0.61	0.002	0.05	0.1	0.35	0.2	0.2	4	2.7	<0.2
1188492	Soil Pulp	19	0.08	218	0.002	1	1.03	0.002	0.05	<0.1	0.25	1.3	0.2	4	1.9	<0.2
1188493	Soil Pulp	24	0.42	694	0.005	4	1.20	0.008	0.18	<0.1	0.09	1.9	0.3	4	1.3	<0.2
1188494	Soil Pulp	18	0.14	275	0.007	1	0.91	0.003	0.08	0.1	0.16	0.5	0.5	5	3.3	<0.2
1188495	Soil Pulp	18	0.14	372	0.010	2	0.87	0.003	0.08	0.1	0.16	0.5	0.5	5	1.2	<0.2
1188496	Soil Pulp	23	0.40	279	0.005	1	1.35	0.002	0.13	<0.1	0.06	0.7	0.2	5	1.2	<0.2
1188497	Soil Pulp	18	0.12	209	0.004	1	1.09	0.002	0.09	<0.1	0.04	0.1	0.3	6	1.4	<0.2
1188498	Soil Pulp	19	0.08	218	0.002	1	1.03	0.002	0.05	0.2	0.25	1.3	0.2	4	1.9	<0.2
1188499	Soil Pulp	25	0.15	169	0.003	1	1.16	0.002	0.08	0.1	0.08	1.5	0.2	4	2.9	<0.2
1188500	Soil Pulp	19	0.08	218	0.002	1	1.03	0.002	0.05	0.2	0.25	1.3	0.2	4	1.9	<0.2



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Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1100010	0.0	15.1	11.0	0.10	0.7	55.1	11.0	500	0.00	00.7	1.0	1.0	0.1	1.0	0.7	0.0	10	0.10	0.100	10
1100015	1.0	0.10	10.0	17.1	0.0	00.5	0.0	00.1	1.01	00.0	1.7	1.1	10	0.7	0.0	0.0	55	0.05	0.000	10
1100010	1.0	00.0	0.7	107	0.0	0.15	5.1	007	1.00	15.0	1.0	0.0	15	0.1	0.1	0.0	00	0.00	0.000	10
1100010	0.1	00.0	11.0	70	0.1	11.7	7.0	000	0.00	00.0	0.1	0.0	10	0.0	0.0	0.0	07	0.10	0.101	10
1100000	1.0	10.0	10.1	0.1	0.0	10.0	0.0	000	0.01	0.1	0.0	0.0	00	0.0	0.0	0.0	00	1.10	0.100	10
1100001	1.0	10.0	10.1	00	0.1	00.0	00.0	1000	0.01	7.0	1.0	0.1	10	0.0	0.0	0.0	0.1	0.01	0.111	00
1100002	0.7	11.7	10.0	00	0.1	07.0	12.0	000	11.1	00.0	0.0	0.0	00	0.0	0.1	0.0	0.1	0.11	0.110	10
1100000	0.0	00.0	11.1	00	0.0	00.0	7.0	001	0.00	00.1	1.0	0.0	10	0.0	0.0	0.0	00	0.10	0.100	10
1100001	0.0	00.7	10.7	70	0.0	10.1	5.0	075	0.10	10.1	0.0	0.0	7	0.0	1.0	0.0	50	0.00	0.001	10



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	Method	Analyte	Unit	MDL	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
1100010	Soil Pulp	20	0.12	22	0.000	1	0.00	0.000	0.00	0.1	0.12	1.1	0.1	0.00	0	0.12	0.1			
1100011	Soil Pulp	20	0.12	200	0.000	1	0.00	0.000	0.00	0.12	0.11	1.0	0.12	0.00	1	1.0	0.12			
1100012	Soil Pulp	12	0.10	101	0.000	1	0.01	0.002	0.00	0.1	0.02	0.1	0.1	0.00	0	0.0	0.12			
1100013	Soil Pulp	10	0.00	101	0.000	1	1.11	0.000	0.00	0.1	0.00	0.0	0.12	0.00	1	0.0	0.12			
1100020	Soil Pulp	11	0.12	101	0.001	1	1.22	0.001	0.00	0.1	0.21	2.1	0.1	0.01	0	1.0	0.12			
1100021	Soil Pulp	21	0.11	201	0.000	1	2.10	0.001	0.12	0.1	0.01	0.0	0.1	0.00	1	1.1	0.12			
1100022	Soil Pulp	11	0.10	220	0.001	1	1.00	0.010	0.10	0.1	0.00	2.0	0.1	0.10	0	1.0	0.12			
1100023	Soil Pulp	10	0.01	000	0.000	2	1.04	0.000	0.10	0.1	0.00	1.0	0.1	0.00	0	0.0	0.12			
1100024	Soil Pulp	11	0.10	101	0.000	1	1.00	0.002	0.01	0.1	0.01	0.0	0.12	0.00	0	1.0	0.12			



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Project: CCJV
Report Date: September 03, 2011

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QUALITY CONTROL REPORT

VAN11003705.1

	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																					
1183125	Soil Pulp	4.0	48.9	15.0	156	2.1	34.6	11.9	1042	2.74	20.0	8.4	1.6	74	0.8	3.7	0.3	56	1.06	0.146	16
REP 1183125	QC	3.8	49.2	14.3	150	2.0	33.9	11.7	1022	2.71	19.6	6.7	1.5	73	0.7	3.5	0.2	58	1.07	0.139	16
1183131	Soil Pulp	3.8	70.9	27.3	93	0.3	24.4	6.6	268	4.44	24.3	5.7	3.5	51	0.1	2.4	0.4	61	0.04	0.082	17
REP 1183131	QC	3.7	69.3	27.5	93	0.3	23.7	6.8	265	4.40	24.0	7.4	3.4	52	0.2	2.4	0.4	61	0.04	0.081	17
1183172	Soil Pulp	2.7	39.8	15.0	84	0.2	25.9	11.4	518	3.42	10.7	1.9	5.0	15	0.3	1.3	0.2	38	0.09	0.058	22
REP 1183172	QC	3.0	41.7	15.5	86	0.2	27.2	12.0	523	3.50	11.2	2.8	5.0	17	0.3	1.4	0.2	39	0.12	0.064	24
1183225	Soil Pulp	2.5	40.2	16.0	81	0.1	28.4	15.0	434	3.46	11.2	2.7	3.5	14	0.4	1.2	0.2	41	0.16	0.084	20
REP 1183225	QC	2.4	40.5	16.3	82	0.1	28.3	15.5	450	3.41	11.3	3.7	3.4	14	0.4	1.3	0.2	43	0.17	0.087	21
1183245	Soil Pulp	6.7	30.2	12.0	118	1.7	25.8	6.5	195	2.77	15.1	4.2	1.8	27	0.4	1.9	0.2	70	0.04	0.097	14
REP 1183245	QC	6.7	30.7	12.0	116	1.7	26.2	6.6	201	2.75	15.2	4.7	1.7	27	0.4	2.1	0.2	71	0.04	0.091	14
1183356	Soil Pulp	4.3	61.3	18.8	95	0.3	27.9	9.1	421	3.87	19.7	7.6	1.1	12	0.2	1.8	0.3	28	0.02	0.074	7
REP 1183356	QC	4.3	60.1	18.3	96	0.3	28.5	9.3	388	3.78	19.6	6.0	1.1	12	0.2	1.7	0.3	27	0.02	0.073	7
1183380	Soil Pulp	3.4	30.8	14.9	54	1.8	12.1	3.1	92	3.23	35.8	6.2	2.9	14	<0.1	2.7	0.3	59	0.02	0.059	9
REP 1183380	QC	3.7	30.0	14.6	53	1.8	11.7	3.1	90	3.19	35.5	5.9	2.7	14	<0.1	2.8	0.3	58	0.02	0.061	9
1183382	Soil Pulp	5.1	33.6	15.3	65	0.5	14.0	3.1	82	3.12	44.9	6.5	2.2	21	<0.1	3.6	0.2	62	0.02	0.063	11
REP 1183382	QC	5.1	33.3	14.7	62	0.5	13.5	3.1	83	3.16	43.6	6.5	2.1	21	<0.1	3.6	0.2	61	0.02	0.059	10
1183469	Soil Pulp	7.7	67.3	17.4	114	1.0	29.6	5.4	111	3.37	24.8	6.6	3.0	62	0.2	6.5	0.3	38	0.01	0.094	7
REP 1183469	QC	7.7	67.6	17.2	114	1.0	28.9	5.3	109	3.28	24.7	5.7	2.9	59	0.2	5.8	0.3	36	<0.01	0.091	7
1183604	Soil Pulp	7.7	18.4	14.3	89	2.3	17.0	3.6	192	2.66	18.1	0.8	0.8	13	0.2	2.5	0.3	85	0.03	0.070	14
REP 1183604	QC	7.7	18.3	14.6	89	2.3	17.3	3.6	193	2.68	18.4	1.0	0.8	13	0.3	2.5	0.3	87	0.03	0.073	13
1183617	Soil Pulp	4.9	34.3	13.0	174	0.6	36.5	8.6	281	4.01	20.3	4.7	1.4	16	0.7	2.6	0.2	55	0.05	0.088	12
REP 1183617	QC	4.3	35.3	13.3	175	0.6	37.4	8.5	290	4.05	19.8	4.1	1.4	16	0.7	2.7	0.3	53	0.06	0.094	12
Reference Materials																					
STD DS8	Standard	12.1	105.1	120.0	295	1.7	35.8	7.4	571	2.36	23.8	104.8	6.8	65	2.3	5.4	6.5	40	0.66	0.078	14
STD DS8	Standard	15.2	109.3	123.6	312	1.8	37.5	7.5	616	2.52	24.4	102.4	7.8	76	2.2	6.1	6.9	43	0.69	0.077	18
STD DS8	Standard	11.8	100.2	121.2	303	1.8	34.0	7.1	561	2.33	23.9	119.1	6.2	57	2.0	5.4	5.3	39	0.62	0.078	13
STD DS8	Standard	14.2	101.9	133.3	318	1.9	40.2	8.0	630	2.53	22.5	129.9	7.1	62	2.1	4.8	5.8	44	0.73	0.081	15
STD DS8	Standard	13.3	111.9	126.7	342	1.8	39.2	7.8	660	2.59	26.1	127.9	6.5	68	2.3	5.7	6.1	43	0.74	0.078	16

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Project: CCJV
Report Date: September 03, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

VAN11003705.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
1183125	Soil Pulp	22	0.26	521	0.005	2	1.08	0.004	0.10	<0.1	0.29	3.7	0.2	<0.05	3	1.9	<0.2
REP 1183125	QC	22	0.26	506	0.006	1	1.10	0.004	0.11	<0.1	0.29	3.6	0.2	0.06	4	1.6	<0.2
1183131	Soil Pulp	25	0.28	342	0.013	<1	1.29	0.003	0.08	0.1	0.05	2.0	0.2	<0.05	6	1.4	<0.2
REP 1183131	QC	25	0.28	332	0.013	1	1.30	0.003	0.08	0.2	0.05	1.9	0.2	<0.05	6	0.9	<0.2
1183172	Soil Pulp	19	0.48	206	0.003	1	1.64	0.005	0.09	<0.1	0.05	2.4	0.1	<0.05	4	<0.5	<0.2
REP 1183172	QC	20	0.51	222	0.005	2	1.73	0.005	0.10	<0.1	0.05	2.6	0.1	<0.05	5	<0.5	<0.2
1183225	Soil Pulp	22	0.66	249	0.004	3	1.82	0.004	0.16	<0.1	0.04	2.3	0.1	<0.05	4	<0.5	<0.2
REP 1183225	QC	24	0.68	258	0.005	2	1.89	0.004	0.18	<0.1	0.04	2.3	0.1	<0.05	5	<0.5	<0.2
1183245	Soil Pulp	21	0.15	208	0.006	<1	1.25	0.002	0.06	0.2	0.19	1.6	0.3	<0.05	4	2.7	<0.2
REP 1183245	QC	21	0.15	205	0.006	1	1.18	0.002	0.06	0.1	0.18	1.6	0.3	<0.05	4	2.8	<0.2
1183356	Soil Pulp	27	0.30	208	0.008	<1	1.16	0.004	0.03	<0.1	0.05	1.3	0.1	<0.05	4	1.2	<0.2
REP 1183356	QC	26	0.30	201	0.008	<1	1.14	0.004	0.03	<0.1	0.05	1.3	0.1	<0.05	4	1.1	<0.2
1183380	Soil Pulp	20	0.10	289	0.015	2	0.83	0.003	0.06	0.1	0.07	1.3	0.1	<0.05	4	2.5	<0.2
REP 1183380	QC	19	0.10	286	0.015	2	0.86	0.003	0.06	0.1	0.08	1.4	0.2	<0.05	4	2.0	<0.2
1183382	Soil Pulp	18	0.13	1127	0.008	3	0.89	0.004	0.11	0.1	0.03	1.4	0.2	0.06	4	2.9	<0.2
REP 1183382	QC	19	0.12	1059	0.009	3	0.87	0.004	0.10	0.1	0.03	1.4	0.2	0.06	4	3.2	<0.2
1183469	Soil Pulp	18	0.22	1600	0.003	3	0.95	0.004	0.08	<0.1	0.45	2.6	0.4	0.09	2	6.2	<0.2
REP 1183469	QC	18	0.21	1226	0.003	2	0.90	0.004	0.08	<0.1	0.48	2.6	0.4	0.07	2	6.7	<0.2
1183604	Soil Pulp	19	0.11	107	0.017	1	0.81	0.003	0.06	0.2	0.08	1.0	0.2	<0.05	6	1.6	<0.2
REP 1183604	QC	19	0.11	105	0.016	<1	0.86	0.002	0.05	0.2	0.07	0.9	0.2	<0.05	6	2.0	<0.2
1183617	Soil Pulp	23	0.24	263	0.006	<1	1.39	0.003	0.06	0.2	0.11	1.6	0.2	<0.05	4	1.9	<0.2
REP 1183617	QC	23	0.24	263	0.007	2	1.34	0.003	0.06	0.2	0.08	1.6	0.2	<0.05	4	1.4	<0.2
Reference Materials																	
STD DS8	Standard	110	0.60	273	0.107	3	0.92	0.105	0.41	2.8	0.18	2.4	5.2	0.15	5	5.3	4.7
STD DS8	Standard	119	0.62	282	0.121	3	0.94	0.092	0.41	3.0	0.19	2.1	5.4	0.11	5	4.9	5.5
STD DS8	Standard	105	0.53	264	0.099	1	0.85	0.074	0.38	2.8	0.20	1.8	5.3	0.14	4	4.9	4.4
STD DS8	Standard	130	0.65	281	0.116	3	0.96	0.087	0.44	3.2	0.21	2.1	5.7	0.17	5	5.5	5.3
STD DS8	Standard	123	0.63	286	0.117	3	0.98	0.092	0.47	3.1	0.19	2.7	5.5	0.17	5	6.1	5.3

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Project: CCJV

Report Date: September 03, 2011

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QUALITY CONTROL REPORT

VAN11003705.1

		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
STD DS8	Standard	14.7	117.9	124.3	323	1.7	40.9	8.2	618	2.50	26.0	111.0	6.7	61	2.3	5.2	6.7	45	0.70	0.083
STD DS8	Standard	14.7	116.6	123.0	318	1.7	40.3	8.0	620	2.53	24.9	110.3	7.0	65	2.3	5.2	6.5	45	0.71	0.077
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
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
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
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
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
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
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
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



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Report Date: September 03, 2011

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QUALITY CONTROL REPORT

VAN11003705.1

		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
		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
STD DS8	Standard	126	0.62	269	0.116	3	0.92	0.086	0.40	3.3	0.18	2.1	5.2	0.17	5	5.4
STD DS8	Standard	125	0.60	278	0.119	3	0.91	0.084	0.40	3.1	0.19	2.2	5.3	0.16	5	5.2
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
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
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
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
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
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
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
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
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



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Submitted By: Confirmation Email List
Receiving Lab: Canada-Vancouver
Received: August 04, 2011
Report Date: August 23, 2011
Page: 1 of 10

CERTIFICATE OF ANALYSIS

VAN11003706.1

CLIENT JOB INFORMATION

Project: CCJV
Shipment ID:
P.O. Number AZ-03
Number of Samples: 255

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
No Prep	255	Sorting of samples on arrival and labeling			VAN
1DX2	251	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

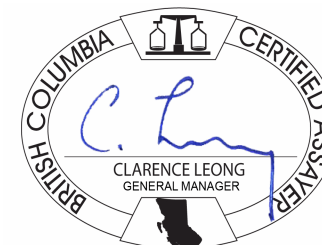
STOR-PLP Store After 90 days Invoice for Storage

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.

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Project: CCJV
Report Date: August 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11003706.1

Method	Analyte	Unit	MDL	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
1100000	0.0	10.0	11.5	0.0	0.0	10.0	0.7	500	0.01	17.7	0.1	0.0	0.7	0.1	1.1	0.0	1.1	0.10	0.000	1.0			
1100007	1.0	00.0	10.0	0.0	0.0	15.1	0.0	000	0.70	00.1	0.7	1.1	7	0.0	0.0	0.0	1.1	0.05	0.001	1.0			
1100008	1.0	10.1	0.0	0.0	0.0	0.1	0.0	1.11	1.00	17.0	0.0	0.0	7	0.0	1.0	0.0	0.0	0.00	0.110	1.1			
1100009	1.0	00.0	0.1	1.0	0.0	11.0	1.0	100	1.00	00.1	0.0	0.0	1.0	0.1	0.1	0.0	0.0	0.10	0.000	1.1			
1100010	0.0	01.0	10.0	0.0	0.0	10.0	0.0	101	0.10	00.1	0.0	1.0	7	0.0	0.0	0.0	1.0	0.01	0.000	1.0			
1100011	0.1	01.0	10.1	0.0	0.0	01.0	10.0	100	0.10	01.0	0.1	0.0	0.0	0.0	1.0	0.0	1.0	0.00	0.100	0.1			
1100012	0.0	00.1	10.0	0.0	0.0	10.0	1.0	100	0.01	00.0	0.1	0.0	1.0	0.0	1.0	0.0	0.0	0.10	0.110	1.0			
1100013	0.0	01.1	11.1	1.0	0.1	00.1	0.0	000	0.01	01.1	1.0	0.0	1.0	0.0	0.1	0.0	1.0	0.00	0.000	1.0			
1100014	0.1	00.0	10.0	7.0	0.1	10.7	0.0	005	0.00	10.1	1.0	0.0	1.1	0.0	1.0	0.0	0.7	0.17	0.110	1.0			
1100015	0.0	10.0	11.0	7.0	0.1	00.0	1.1	000	0.10	00.0	0.0	0.0	1.1	0.1	0.1	0.0	0.0	0.10	0.110	0.0			
1100016	0.0	00.1	10.0	0.0	0.0	10.0	0.0	010	0.00	00.0	0.0	0.0	1.0	0.0	1.0	0.0	1.1	0.00	0.100	0.0			
1100017	1.0	10.0	10.0	0.1	0.0	11.1	0.0	010	0.00	00.0	1.0	0.0	0	0.1	1.1	0.0	0.0	0.01	0.000	1.0			
1100018	1.0	00.0	11.0	0.0	0.1	17.0	1.0	000	0.10	10.0	0.1	0.1	0	0.0	1.0	0.0	1.0	0.00	0.010	1.0			
1100019	1.0	0.0	10.0	0.0	0.0	1.1	0.0	1.1	1.00	00.0	0.0	1.0	1.1	1.0	1.0	0.0	0.0	0.00	0.011	1.0			
1100010	0.0	1.0	0.1	0.1	0.0	1.1	1.1	1.1	1.01	10.0	1.0	0.1	7	0.1	0.0	0.1	0.0	0.01	0.000	1.0			
1100011	1.1	10.0	11.0	0.1	0.0	0.0	1.1	0.0	10.1	10.0	1.0	0.0	1.0	0.1	0.0	0.0	1.0	0.01	0.000	1.0			
1100012	0.0	11.0	11.1	1.0	0.1	0.0	1.0	0.1	10.0	10.0	0.1	1.0	0.1	0.1	10.0	0.0	0.0	0.01	0.000	1.1			
1100013	0.1	10.1	10.0	0.1	1.0	0.1	1.7	1.1	1.01	01.1	1.0	0.0	1.7	0.1	1.0	0.0	0.0	0.01	0.010	1.1			
1100014	1.0	10.0	10.0	1.0	1.0	0.0	0.0	100	0.01	01.1	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.00	0.000	1.1			
1100015	1.0	10.0	10.1	1.1	1.0	0.0	0.7	101	0.00	01.0	1.0	0.0	1.0	0.1	1.0	0.0	0.1	0.00	0.000	1.0			
1100016	0.0	10.1	11.0	1.0	1.1	0.0	1.0	0.0	1.01	11.1	1.1	0.0	0.0	0.1	1.1	0.0	1.0	0.01	0.000	0			
1100017	0.0	10.0	11.0	1.0	1.1	0.0	0.1	110	0.01	00.0	1.0	1.0	1.0	0.1	0.0	0.0	0.0	0.01	0.001	1.1			
1100018	0.0	01.1	10.0	1.0	1.0	10.0	0.0	0.1	01.1	11.0	1.0	0.0	0.0	0.0	1.0	0.0	1.0	0.01	0.001	0			
1100019	1.0	10.0	11.1	1.0	1.1	10.0	0.0	000	01.1	00.0	0.0	1.1	1.0	0.1	0.0	0.0	1.0	0.01	0.010	1.1			
1100000	0.0	11.1	10.0	0.0	0.0	0.1	1.0	1.1	1.01	10.0	0.0	0.1	1.1	0.1	0.0	0.0	0.1	0.00	0.001	1.0			
1100001	0.1	01.0	10.1	0.1	0.0	10.0	0.0	1.1	0.00	00.0	0.0	0.1	0.0	0.0	0.0	0.0	1.1	0.00	0.100	0			
1100002	0.0	00.0	10.0	0.0	0.0	0.0	1.0	0.0	1.00	00.0	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.00	0.001	0			
1100003	0.0	10.0	10.0	0.0	1.0	0.0	1.0	0.0	1.00	17.1	1.0	0.0	0.1	1.1	0.0	1.0	0.00	0.110	0				
1100004	0.0	00.0	00.0	1.1	0.0	10.0	0.0	0.1	0.01	00.0	0.0	0.0	0.1	0.0	0.0	1.1	0.01	0.110	0				
1100005	0.1	11.0	10.0	0.0	0.0	0.1	1.0	0.0	1.00	10.1	0.0	0.0	0.0	0.1	0.0	0.0	7.1	0.01	0.010	1.1			

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1100000	0.05	0.05	0.05	0.005	1	0.05	0.005	0.05	0.1	0.05	0.5	0.1	0.10	1	0.5	0.0
1100007	0.05	0.05	0.05	0.005	0	0.05	0.005	0.05	0.1	0.05	0.1	0.1	0.05	1	0.5	0.0
1100008	0.05	0.05	0.05	0.005	1	0.05	0.005	0.05	0.1	0.05	0.5	0.1	0.10	1	0.5	0.0
1100009	0.05	0.05	0.05	0.005	1	0.05	0.005	0.05	0.1	0.05	0.5	0.1	0.10	1	0.5	0.0
1100010	0.05	0.05	0.05	0.005	1	0.05	0.005	0.05	0.1	0.05	0.5	0.1	0.10	1	0.5	0.0
1100011	0.05	0.05	0.05	0.005	1	0.05	0.005	0.05	0.1	0.05	0.5	0.1	0.10	1	0.5	0.0
1100012	0.05	0.05	0.05	0.005	1	0.05	0.005	0.05	0.1	0.05	0.5	0.1	0.10	1	0.5	0.0
1100013	0.05	0.05	0.05	0.005	1	0.05	0.005	0.05	0.1	0.05	0.5	0.1	0.10	1	0.5	0.0
1100014	0.05	0.05	0.05	0.005	1	0.05	0.005	0.05	0.1	0.05	0.5	0.1	0.10	1	0.5	0.0
1100015	0.05	0.05	0.05	0.005	1	0.05	0.005	0.05	0.1	0.05	0.5	0.1	0.10	1	0.5	0.0
1100016	0.05	0.05	0.05	0.005	1	0.05	0.005	0.05	0.1	0.05	0.5	0.1	0.10	1	0.5	0.0
1100017	0.05	0.05	0.05	0.005	1	0.05	0.005	0.05	0.1	0.05	0.5	0.1	0.10	1	0.5	0.0
1100018	0.05	0.05	0.05	0.005	1	0.05	0.005	0.05	0.1	0.05	0.5	0.1	0.10	1	0.5	0.0
1100019	0.05	0.05	0.05	0.005	1	0.05	0.005	0.05	0.1	0.05	0.5	0.1	0.10	1	0.5	0.0
1100020	0.05	0.05	0.05	0.005	1	0.05	0.005	0.05	0.1	0.05	0.5	0.1	0.10	1	0.5	0.0
1100021	0.05	0.05	0.05	0.005	1	0.05	0.005	0.05	0.1	0.05	0.5	0.1	0.10	1	0.5	0.0
1100022	0.05	0.05	0.05	0.005	1	0.05	0.005	0.05	0.1	0.05	0.5	0.1	0.10	1	0.5	0.0
1100023	0.05	0.05	0.05	0.005	1	0.05	0.005	0.05	0.1	0.05	0.5	0.1	0.10	1	0.5	0.0
1100024	0.05	0.05	0.05	0.005	1	0.05	0.005	0.05	0.1	0.05	0.5	0.1	0.10	1	0.5	0.0
1100025	0.05	0.05	0.05	0.005	1	0.05	0.005	0.05	0.1	0.05	0.5	0.1	0.10	1	0.5	0.0

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CERTIFICATE OF ANALYSIS

VAN11003706.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
11000000	0.0	15.5	0.0	0.1	1.5	10.0	1.0	150	0.01	0.01	0.0	1.0	0.0	0.0	0.0	0.0	50	0.00	0.000	0
11000001	0.1	10.5	0.1	0.0	1.0	10.1	0.0	70	1.07	07.0	1.0	0.0	0.0	0.0	1.1	0.0	11	0.00	0.005	10
11000002	0.5	10.5	10.0	0.1	0.5	10.0	0.0	0.0	1.01	15.1	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.00	0.000	10
11000003	0.0	00.7	10.0	0.0	1.0	0.5	1.0	0.0	1.01	10.0	10.0	0.0	0.0	0.0	1.0	0.0	0.0	0.00	0.110	11
11000004	0.0	00.1	11.0	0.0	1.0	10.0	0.0	0.0	0.00	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.000	0
11000005	0.0	01.0	10.0	0.0	1.0	11.0	1.1	111	0.01	00.0	1.0	0.0	0.0	0.1	1.0	0.0	10	0.00	0.000	10
11000006	0.1	00.0	10.0	10.1	0.0	00.0	0.0	00.0	0.00	00.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.01	0.000	1
11000007	0.0	10.2	11.0	0.0	1.0	00.0	0.0	11.0	0.10	00.1	0.1	1.1	1.0	0.0	0.0	0.0	0.0	0.00	0.000	1
11000008	0.1	00.0	01.1	110	0.5	15.0	0.5	100	0.01	07.0	0.0	0.0	1.1	0.1	5.0	0.1	0.0	0.00	0.070	0
11000009	0.0	10.5	10.0	0.0	0.1	0.5	0.1	70	0.00	10.0	1.0	1.0	1.0	0.1	5.1	0.0	50	0.01	0.011	0
11000010	0.0	00.0	10.1	0.1	1.1	01.0	0.0	10.0	0.10	01.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.00	0.100	0
11000011	0.1	00.0	10.0	110	0.0	00.0	0.0	110	0.00	10.0	0.0	1.0	0.0	0.0	1.0	0.0	10	0.00	0.000	1
11000012	0.0	00.0	10.0	0.0	0.0	00.0	0.0	00.0	0.11	00.0	0.1	1.0	1.0	0.0	0.0	0.0	0.0	0.00	0.111	0
11000013	0.0	00.0	10.0	0.1	1.0	10.1	0.0	0.1	0.01	10.0	0.0	1.1	0.0	0.1	0.0	0.0	10	0.00	0.000	0
11000014	1.0	00.0	11.0	1.1	1.1	01.0	1.0	10.0	0.00	00.0	1.1	1.0	1.0	0.1	0.0	0.0	0.1	0.00	0.000	1
11000015	1.0	10.0	11.1	110	1.1	00.1	1.0	10.0	0.01	10.0	0.0	1.0	1.0	0.0	0.0	0.0	10	0.01	0.070	0
11000016	0.0	10.1	10.1	0.0	0.0	00.0	0.0	0.1	0.01	0.10	0.0	1.1	1.0	0.0	0.0	0.0	0.1	0.01	0.000	0
11000017	0.0	11.1	0.1	0.1	0.0	00.0	0.0	0.0	0.01	10.1	0.0	1.0	1.1	0.0	0.0	0.0	0.0	0.00	0.000	0
11000018	0.1	00.0	11.1	1.1	0.0	00.0	0.0	0.0	0.00	10.0	1.0	0.1	1.0	0.0	0.0	0.0	0.0	0.00	0.111	0
11000019	0.0	00.0	10.0	0.0	0.1	10.1	0.0	110	0.00	10.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.00	0.000	0
11000020	0.0	00.0	11.0	0.0	0.0	10.0	0.0	10	0.00	00.0	1.0	0.0	1.0	0.1	0.0	0.0	11	0.01	0.000	0
11000021	1.0	00.0	00.1	0.0	1.0	01.0	0.0	00.0	11.0	00.0	0.0	0.0	0.0	1.0	0.0	0.1	10	0.00	0.000	1
11000022	0.1	01.1	10.0	0.0	0.1	10.0	0.0	1.1	0.01	0.10	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.01	0.000	1
11000023	0.0	10.0	11.0	10.1	0.0	01.0	1.1	00.1	0.00	00.0	0.1	0.0	1.0	0.0	0.0	0.0	10	0.00	0.001	0
11000024	0.1	01.0	10.0	0.0	0.0	00.0	1.0	100	0.00	10.0	1.0	1.0	0.0	0.1	1.1	0.0	0.1	0.10	0.000	0
11000025	0.0	10.0	10.1	1.1	0.1	10.0	0.0	10.0	1.00	10.1	0.0	1.1	0	0.1	0.0	0.0	0.0	0.00	0.001	0
11000026	0.0	01.1	10.0	0.0	0.0	10.1	0.0	00.0	0.10	10.0	1.0	1.0	0	0.1	1.0	0.1	10	0.01	0.000	0
11000027	0.0	00.0	11.0	10.1	0.1	00.1	0.0	01.0	1.00	01.0	1.1	0.0	0	0.0	1.0	0.0	11	0.00	0.010	1
11000028	0.0	00.0	10.0	0.1	0.0	11.0	0.0	1.1	0.00	01.0	1.1	1.0	0.0	0.0	0.0	0.0	0.0	0.01	0.000	0
11000029	0.0	00.1	10.0	0.0	0.0	01.0	1.5	100	0.07	07.0	5.0	0.1	1.1	0.0	0.0	0.0	0.0	0.01	0.071	0

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	Method	Analyte	Unit	MDL	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	0.1	0.05	1	0.5
1100050	Self-Pulp		20	0.00	204	0.015	1	0.00	0.000	0.00	0.0	0.07	1.0	0.0	0.07	5	0.0	0.0		
1100051	Self-Pulp		14	0.04	207	0.005	0	0.10	0.000	0.00	0.1	0.10	0.0	0.1	0.15	0	0.1	0.0		
1100052	Self-Pulp		14	0.14	207	0.040	1	0.10	0.000	0.07	0.1	0.04	1.0	0.0	0.00	0	0.0	0.0		
1100053	Self-Pulp		14	0.07	200	0.000	0	0.00	0.000	0.00	0.1	0.00	0.0	0.0	0.00	0	1.0	0.0		
1100054	Self-Pulp		17	0.04	204	0.000	0	0.00	0.004	0.00	0.1	0.00	1.1	0.0	0.00	0	1.0	0.0		
1100054	Self-Pulp		10	0.00	200	0.000	0	0.04	0.000	0.00	0.1	0.00	0.0	0.1	0.10	0	1.1	0.0		
1100055	Self-Pulp		17	0.00	207	0.000	1	0.01	0.000	0.00	0.1	0.01	1.1	0.0	0.00	0	1.0	0.0		
1100056	Self-Pulp		10	0.00	042	0.000	1	0.00	0.000	0.00	0.1	0.00	1.0	0.0	0.00	0	0.0	0.0		
1100057	Self-Pulp		17	0.14	107	0.000	1	0.00	0.000	0.00	0.1	0.04	1.7	0.1	0.05	5	0.0	0.0		
1100058	Self-Pulp		10	0.00	207	0.007	1	0.04	0.000	0.04	0.1	0.04	0.7	0.0	0.05	1	0.0	0.0		
1100059	Self-Pulp		10	0.04	700	0.000	1	0.04	0.000	0.00	0.1	0.00	1.0	0.0	0.00	0	0.0	0.0		
1100059	Self-Pulp		10	0.00	700	0.011	1	0.00	0.000	0.04	0.1	0.00	1.1	0.0	0.00	0	0.1	0.0		
1100060	Self-Pulp		00	0.00	000	0.010	1	1.00	0.004	0.04	0.0	0.04	1.0	0.1	0.00	1	0.1	0.0		
1100060	Self-Pulp		10	0.10	000	0.007	1	0.00	0.004	0.00	0.1	0.00	1.0	0.1	0.00	0	1.1	0.0		
1100060	Self-Pulp		10	0.07	1702	0.004	1	0.00	0.000	0.00	0.1	0.00	1.0	0.1	0.00	0	0.0	0.0		
1100061	Self-Pulp		17	0.00	040	0.004	1	0.00	0.004	0.00	0.1	0.10	1.1	0.1	0.00	0	1.0	0.0		
1100062	Self-Pulp		10	0.04	1004	0.000	1	0.00	0.004	0.00	0.1	0.04	1.1	0.1	0.00	0	0.1	0.0		
1100062	Self-Pulp		10	0.04	1000	0.000	1	0.04	0.000	0.00	0.1	0.10	1.0	0.1	0.00	0	0.0	0.0		
1100064	Self-Pulp		14	0.10	000	0.000	1	0.04	0.000	0.00	0.1	0.10	0.0	0.1	0.00	0	1.0	0.0		
1100065	Self-Pulp		10	0.04	700	0.000	1	0.00	0.004	0.00	0.1	0.10	1.0	0.1	0.00	0	0.0	0.0		
1100066	Self-Pulp		10	0.10	204	0.000	1	0.00	0.000	0.04	0.1	0.00	1.0	0.1	0.00	0	0.0	0.0		
1100067	Self-Pulp		27	0.04	007	0.011	1	1.14	0.000	0.00	0.0	0.11	1.0	0.1	0.00	0	0.1	0.0		
1100068	Self-Pulp		10	0.00	1004	0.000	1	0.01	0.000	0.01	0.1	0.10	1.0	0.1	0.00	0	0.1	0.0		
1100068	Self-Pulp		10	0.00	2040	0.000	1	0.01	0.000	0.01	0.1	0.10	1.1	0.1	0.00	0	1.0	0.0		
1100069	Self-Pulp		20	0.00	1004	0.000	1	1.10	0.000	0.00	0.1	0.10	1.0	0.1	0.00	0	0.0	0.0		
1100069	Self-Pulp		10	0.14	000	0.000	1	1.10	0.000	0.00	0.1	0.00	1.1	0.1	0.00	1	0.0	0.0		
1100069	Self-Pulp		00	0.04	110	0.011	1	1.00	0.000	0.00	0.1	0.00	1.0	0.1	0.00	0	0.0	0.0		
1100069	Self-Pulp		00	0.04	100	0.010	1	1.10	0.000	0.01	0.0	0.00	1.0	0.1	0.00	0	1.0	0.0		
1100069	Self-Pulp		10	0.10	000	0.000	1	0.00	0.000	0.04	0.1	0.01	0.0	0.1	0.00	0	1.0	0.0		
1100069	Self-Pulp		14	0.00	1000	0.004	1	0.00	0.000	0.04	0.1	0.10	1.5	0.1	0.05	0	0.7	0.0		

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Project: CCJV
Report Date: August 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11003706.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1100000	0.7	15.1	11.0	85	0.1	7.1	1.0	10	1.70	0.10	1.0	1.1	10	0.1	0.1	0.0	50	0.01	0.007	11
1100007	11.0	0.10	15.1	80	1.1	17.0	0.1	11	0.01	07.0	11.1	0.5	0.1	0.0	10.0	0.0	0.0	0.00	0.100	10
1100008	0.0	0.1	15.0	70	1.0	15.0	0.5	115	0.00	11.0	0.5	0.0	10	0.0	0.0	0.0	0.0	0.00	0.110	0
1100009	7.0	11.0	10.0	100	1.0	10.1	0.0	00	0.00	00.0	0.0	1.0	00	0.0	0.1	0.0	70	0.00	0.107	0
1100010	0.0	10.0	10.0	0.1	1.0	11.0	0.0	100	0.00	10.0	0.0	0.0	10	0.0	0.0	0.0	70	0.00	0.110	0
1100011	7.1	11.0	10.0	70	1.0	10.0	0.0	100	1.00	10.0	0.0	1.0	00	0.0	0.0	0.0	0.0	0.01	0.100	10
1100012	0.0	0.1	10.0	10.1	1.0	00.0	0.1	0.1	0.00	0.17	10.0	0.0	0.1	1.0	0.0	0.0	100	0.11	0.110	11
1100111	0.0	70.1	10.0	110	0.0	00.0	10.0	000	0.10	00.0	10.1	1.0	00	0.0	0.0	0.0	0.0	1.00	0.100	11
1100110	1.0	00.0	00.0	00	0.0	01.0	10.0	000	0.00	10.0	1.0	0.1	00	0.5	0.5	0.0	10	1.10	0.010	10
1100110	7.0	00.0	00.0	00	1.0	10.0	00.0	111	1.10	05.0	0.0	0.0	0.1	0.5	0.0	0.0	0.1	1.10	0.100	10
1100111	0.0	100.1	00.0	100	0.0	01.0	00.1	000	1.01	00.0	10.0	0.1	111	0.1	0.0	0.0	11	0.10	0.000	10
1100110	0.0	07.0	00.0	00	0.0	00.1	07.0	000	0.00	10.0	0.0	0.0	00	0.1	1.0	0.0	00	0.00	0.071	10
1100110	1.0	07.0	00.0	00	0.1	00.0	0.1	000	1.00	11.1	0.0	1.1	00	0.0	1.0	0.0	00	1.00	0.100	10
1100117	0.0	10.0	10.0	00	0.0	00.0	10.1	700	0.11	10.0	0.0	1.0	07	0.0	0.0	0.0	10	1.00	0.000	10
1100110	1.0	00.0	10.0	11	0.0	00.1	0.1	110	1.00	01.0	0.0	0.1	07	0.1	0.0	0.0	00	1.10	0.000	11
1100110	0.1	11.0	10.1	110	0.0	00.0	00.0	0.10	0.00	11.0	0.1	0.0	00	0.0	1.1	1.1	0.1	0.00	0.100	10
1100100	0.1	00.1	00.1	00	1.0	10.0	1.0	100	0.00	0.0	0.0	0.0	00	0.1	0.0	0.0	0.1	0.00	0.000	0
1100101	0.1	10.1	10.1	11	1.0	0.0	1.0	10	0.00	00.0	0.0	1.0	10	0.0	0.0	0.0	0.1	0.01	0.001	0
1100100	0.0	00.0	10.0	00	0.0	10.0	0.0	110	0.10	01.0	0.0	1.0	00	0.0	0.0	0.1	00	0.00	0.000	0
1100100	0.0	00.0	10.0	00	0.0	0.0	1.0	07	1.00	10.0	0.0	0.0	00	0.0	1.0	0.0	10	0.01	0.000	0
1100101	0.0	00.0	10.1	00	1.0	10.0	1.0	110	0.00	11.0	0.1	0.0	00	0.1	0.1	0.0	10	0.00	0.100	0
1100100	1.0	10.0	11.0	00	0.0	0.0	0.0	000	0.10	10.0	10.0	0.0	71	0.0	0.0	0.0	0.1	0.01	0.110	0
1100100	10.0	00.0	11.0	00	0.0	11.1	0.0	00	0.11	10.0	1.0	0.1	00	0.1	0.1	0.1	10	0.00	0.100	10
1100107	0.0	00.1	11.0	00	0.0	11.0	0.0	00	11.0	10.1	0.0	0.1	00	0.0	1.0	0.0	00	0.01	0.111	0
1100100	10.0	10.0	11.0	10.1	0.0	0.11	1.0	001	10.0	00.0	0.1	0.0	00	0.1	10.0	0.0	100	0.00	0.001	10
1100100	11.0	00.0	11.1	10.1	1.1	10.1	1.0	010	0.10	07.0	0.0	0.0	00	0.1	10.0	0.0	11	0.00	0.010	10
1100000	0.0	11.0	11.0	00	0.0	00.0	11.0	100	0.07	0.0	0.0	0.0	00	0.1	1.0	0.0	11	0.00	0.100	10
1100007	0.1	00.1	10.1	10.1	0.0	00.0	11.0	070	0.10	0.0	0.0	1.1	100	0.0	1.1	0.1	10	0.10	0.100	11
1100000	0.0	07.0	10.0	110	0.1	00.0	10.1	010	0.00	0.0	0.0	1.0	101	0.0	1.0	0.0	0.1	0.00	0.100	00
1100000	0.0	00.0	00.0	110	0.5	07.0	10.0	1000	0.01	11.0	1.0	1.1	11	0.7	1.0	0.0	10	0.10	0.070	00

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Project: CCJV
Report Date: August 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11003706.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
11000000 Soil Pul	0	0.07	0.00	0.045	1	0.50	0.000	0.00	0.0	0.05	0.7	0.1	0.05	1	1.5	0.0
11000007 Soil Pul	11	0.07	1140	0.004	1	0.57	0.000	0.00	0.0	0.11	1.1	0.1	0.10	0	5.0	0.0
11000008 Soil Pul	10	0.10	0.01	0.000	1	1.10	0.000	0.01	0.1	0.11	1.0	0.0	0.05	0	0.7	0.0
11000009 Soil Pul	11	0.10	1000	0.000	1	0.70	0.000	0.00	0.0	0.00	1.0	0.0	0.00	0	0.0	0.0
11000009 Soil Pul	10	0.11	0.00	0.000	1	1.17	0.000	0.01	0.0	0.10	1.0	0.0	0.00	1	1.0	0.0
11000001 Soil Pul	10	0.10	0.00	0.011	1	0.00	0.000	0.00	0.0	0.10	0.0	0.0	0.00	1	0.0	0.0
11000002 Soil Pul	20	0.10	2047	0.004	0	10.1	0.004	0.11	0.0	0.00	1.0	0.0	0.00	1	0.1	0.0
11000011 Soil Pul	10	0.01	1.10	0.000	0	0.00	0.004	0.00	0.1	0.11	0.0	0.1	0.00	0	1.0	0.0
11000010 Soil Pul	10	0.51	0.17	0.000	1	0.01	0.000	0.00	0.1	0.10	0.1	0.1	0.00	1	1.0	0.0
11000010 Soil Pul	10	0.50	0.11	0.000	1	0.71	0.004	0.00	0.1	0.15	0.1	0.0	0.00	0	1.0	0.0
11000011 Soil Pul	0	1.00	0.00	0.004	1	0.00	0.000	0.10	0.1	0.10	0.0	0.1	0.10	0	0.1	0.0
11000010 Soil Pul	00	0.00	0.01	0.000	1	1.00	0.004	0.10	0.1	0.07	0.1	0.0	0.00	0	0.0	0.0
11000010 Soil Pul	11	0.10	0.00	0.000	0	0.00	0.000	0.07	0.1	0.10	1.0	0.1	0.00	0	0.0	0.0
11000017 Soil Pul	10	0.00	0.01	0.000	0	0.01	0.004	0.07	0.0	0.10	0.1	0.1	0.00	0	0.0	0.0
11000010 Soil Pul	10	0.00	0.000	0.000	0	0.00	0.004	0.00	0.1	0.10	1.0	0.1	0.00	0	0.0	0.0
11000010 Soil Pul	00	0.01	1000	0.000	1	1.00	0.000	0.01	0.1	0.07	1.0	0.1	0.00	0	1.0	0.0
11000000 Soil Pul	00	0.10	1.00	0.000	1	0.10	0.000	0.00	0.1	0.00	0.0	0.1	0.00	0	0.1	0.0
11000001 Soil Pul	00	0.00	0.01	0.011	1	0.10	0.000	0.01	0.1	0.07	0.7	0.1	0.00	0	0.7	0.0
11000002 Soil Pul	10	0.11	0.00	0.000	1	0.00	0.000	0.00	0.0	0.00	1.0	0.1	0.00	0	1.1	0.0
11000000 Soil Pul	0	0.00	0.10	0.000	1	0.10	0.000	0.01	0.1	0.01	0.0	0.1	0.00	1	0.0	0.0
11000001 Soil Pul	10	0.00	1.00	0.000	1	0.00	0.000	0.00	0.1	0.11	0.0	0.0	0.00	0	1.1	0.0
11000000 Soil Pul	11	0.07	1.00	0.004	1	0.10	0.000	0.00	0.1	0.00	0.1	0.1	0.00	0	1.0	0.0
11000000 Soil Pul	10	0.00	0.00	0.001	1	0.11	0.004	0.00	0.0	0.00	0.0	0.0	0.10	0	1.0	0.0
11000007 Soil Pul	11	0.00	10.10	0.004	1	0.00	0.004	0.00	0.1	0.11	0.1	0.0	0.01	1	0.1	0.0
11000000 Soil Pul	07	0.00	1000	0.011	1	1.10	0.004	0.00	0.0	0.01	0.0	0.1	0.00	0	0.0	0.0
11000000 Soil Pul	00	0.00	0.01	0.010	1	1.00	0.000	0.01	0.0	0.10	0.1	0.1	0.00	1	0.0	0.0
11000007 Soil Pul	10	0.10	0.10	0.000	1	0.00	0.000	0.00	0.1	0.00	1.0	0.1	0.10	0	1.0	0.0
11000000 Soil Pul	11	0.01	0.10	0.000	0	0.00	0.000	0.11	0.1	0.10	0.1	0.1	0.10	0	1.1	0.0
11000000 Soil Pul	05	0.50	0.10	0.000	0	1.70	0.005	0.10	0.1	0.07	0.1	0.1	0.05	0	0.5	0.0

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Project: CCJV
Report Date: August 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11003706.1

		Method	Analyte	Unit	MDL	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
1100010	Soil	Paq			1.1	22.2	12.2	122	2.5	12.2	12.2	2.15	2.22	12.5	5.5	2.2	12	2.2	2.2	17	2.22	2.117	22		
1100010	Soil	Paq			2.2	15.2	12.2	12.1	2.5	21.5	15.2	122	2.22	12.2	2.1	2.2	2.2	2.2	22	2.22	2.122	22			
1100011	Soil	Paq			1.1	12.2	12.2	122	2.2	22.2	12.2	2.22	2.11	12.2	1.2	2.2	1.1	1.5	2.2	12	2.12	2.122	2.1		
1100012	Soil	Paq			2.2	22.1	21.2	11.1	2.1	15.2	22.2	222	1.22	12.2	1.2	2.2	2.2	2.2	22	2.22	2.222	2.1			
1100013	Soil	Paq			2.1	22.2	21.2	12.1	2.1	22.2	22.2	1222	2.22	12.2	2.2	2.2	2.2	2.1	22	2.11	2.122	22			
1100014	Soil	Paq			2.2	21.2	2.2	22	2.2	12.2	12.2	2.12	1.12	2.2	2.2	2.2	2.2	2.1	22	2.22	2.122	2.122	2.2		
1100015	Soil	Paq			1.2	21.2	11.2	22	2.2	12.2	12.2	2.12	1.22	2.2	2.1	2.2	2.2	2.2	22	1.22	2.112	12			
1100016	Soil	Paq			1.2	22.1	12.1	22	2.2	22.1	12.2	222	2.12	2.11	2.2	2.1	2.2	1.2	2.2	2.1	2.22	22			
1100017	Soil	Paq			2.2	12.2	15.1	2.1	2.1	12.1	2.1	152	2.22	12.2	2.5	2.1	2.2	2.2	22	2.21	2.112	12			
1100018	Soil	Paq			2.2	15.2	21.2	22	2.5	12.2	2.2	222	2.22	15.2	2.5	2.2	2.2	2.1	22	2.22	2.222	15			
1100019	Soil	Paq			2.1	15.2	22.2	122	2.2	22.2	12.2	122.1	2.22	12.2	2.2	2.2	1.2	2.2	22	2.22	2.222	12			
1100020	Soil	Paq			1.2	22.1	11.2	22	2.1	21.2	12.2	122.1	2.22	21.2	2.1	2.1	2.1	1.2	2.2	22	1.222	2.222	12		
1100021	Soil	Paq			2.2	21.2	11.1	22	2.2	22.2	12.2	122.1	2.22	2.2	2.1	1.2	2.2	1.2	2.2	1.2	2.122	12			
1100022	Soil	Paq			2.2	22.1	22.2	22	2.1	12.1	22.2	222	2.11	12.2	1.2	2.2	2.2	2.2	22	2.21	2.122	12			
1100023	Soil	Paq			12.2	11.12	22.1	122	1.1	22.2	22.1	122.1	2.22	12.2	1.1	1.2	2.2	2.1	2.2	2.1	2.12	12			
1100024	Soil	Paq			2.12	22.2	11.2	22	2.1	21.2	22	222	2.22	12.1	2.2	1.2	2.2	1.2	22	1.12	2.222	12			
1100025	Soil	Paq			1.2	22.1	12.1	1.1	2.1	22.1	12.1	122	2.22	12.1	1.2	1.2	1.2	2.2	22	2.12	2.222	12			
1100026	Soil	Paq			1.2	22.2	12.2	2.1	2.2	22.2	12.2	12.1	2.22	1.2	2.2	1.2	2.2	2.2	22	2.12	2.111	12			
1100027	Soil	Paq			2.																				
1100028	Soil	Paq			2.2	22.1	12.1	1.1	2.1	22.1	12.1	122	2.22	12.1	1.2	1.2	1.2	2.2	22	2.12	2.222	12			
1100029	Soil	Paq			2.1	22.2	12.2	22	2.2	22.2	12.2	12.1	2.22	1.2	2.2	1.2	2.2	2.2	22	2.12	2.111	12			
1100030	Soil	Paq			2.1	21.2	12.2	22	2.2	22.2	12.2	12.1	2.22	1.2	2.2	1.2	2.2	2.2	22	2.12	2.111	12			
1100031	Soil	Paq			2.2	22.1	12.1	1.1	2.1	22.1	12.1	122	2.22	12.1	1.2	1.2	1.2	2.2	22	2.12	2.222	12			
1100032	Soil	Paq			11.2	21.2	12.2	22	2.2	12.2	2.1	12.1	2.12	22.2	2.2	2.2	2.2	2.2	22	2.12	2.12.1	12			
1100033	Soil	Paq			2.2	22.2	12.2	22	1.1	12.2	1.2	12	1.12	12.2	2.2	2.1	2.1	2.2	2.1	2.22	2.122	12			
1100034	Soil	Paq			2.2	22.2	12.2	22	1.2	12.2	1.2	12.1	1.12	12.2	2.2	2.1	2.1	2.2	2.1	2.22	2.122	12			
1100035	Soil	Paq			2.2	22.2	12.2	22	1.2	12.2	1.2	12.1	1.12	12.2	2.2	2.1	2.1	2.2	2.1	2.22	2.122	12			
1100036	Soil	Paq			2.2	22.2	12.2	22	1.2	12.2	1.2	12.1	1.12	12.2	2.2	2.1	2.1	2.2	2.1	2.22	2.122	12			
1100037	Soil	Paq			1.1	21.2	11.2	12	2.2	2.1	2.2	22	1.22	2.1	1.2	2.2	2.2	1.2	2.2	2.2	2.2	12			

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Project: CCJV
Report Date: August 23, 2011

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
11255010 Soil Pul	20	0.00	200	0.007	0	1.10	0.000	0.17	0.1	0.10	0.0	0.1	0.05	1	0.7	0.0
11255010 Soil Pul	20	0.75	200	0.000	1	1.00	0.000	0.10	0.1	0.11	0.0	0.1	0.05	1	0.7	0.0
11255011 Soil Pul	21	0.00	201	0.000	1	1.10	0.000	0.10	0.1	0.10	1.7	0.1	0.05	1	0.5	0.0
11255015 Soil Pul	10	0.00	200	0.000	1	1.11	0.007	0.11	0.1	0.11	0.1	0.1	0.00	1	0.0	0.0
11255016 Soil Pul	27	0.00	201	0.000	1	0.00	0.007	0.10	0.1	0.01	0.0	0.1	0.00	0	0.0	0.0
11255017 Soil Pul	11	0.00	200	0.007	0	0.71	0.000	0.07	0.1	0.11	1.0	0.1	0.00	2	0.7	0.0
11255018 Soil Pul	10	0.01	210	0.000	2	0.00	0.000	0.10	0.1	0.10	0.0	0.1	0.00	0	0.0	0.0
11255018 Soil Pul	20	0.01	110	0.000	2	1.11	0.000	0.11	0.1	0.12	0.0	0.2	0.00	1	0.0	0.0
11255020 Soil Pul	21	0.01	100	0.010	1	1.00	0.000	0.00	0.1	0.05	1.5	0.1	0.05	5	0.5	0.0
11255021 Soil Pul	20	0.00	110	0.010	1	1.07	0.001	0.00	0.1	0.01	1.0	0.1	0.05	0	0.5	0.0
11255022 Soil Pul	10	0.11	000	0.001	1	1.10	0.001	0.10	0.1	0.01	0.1	0.1	0.00	0	0.0	0.0
11255023 Soil Pul	10	0.00	711	0.010	0	1.07	0.011	0.11	0.1	0.01	1.0	0.1	0.00	0	0.1	0.0
11255024 Soil Pul	21	0.00	000	0.007	2	1.00	0.001	0.07	0.1	0.00	0.1	0.1	0.00	1	0.0	0.0
11255025 Soil Pul	00	0.00	000	0.000	1	0.00	0.000	0.10	0.1	0.00	1.1	0.1	0.00	0	0.0	0.0
11255026 Soil Pul	11	0.07	000	0.000	2	1.10	0.007	0.10	0.1	0.10	0.0	0.0	0.00	2	1.0	0.0
11255027 Soil Pul	11	0.10	100	0.000	1	1.11	0.000	0.00	0.1	0.11	0.0	0.1	0.00	0	0.0	0.0
11255028 Soil Pul	20	0.10	001	0.000	1	1.00	0.000	0.00	0.1	0.00	1.1	0.1	0.00	1	0.0	0.0
11255029 Soil Pul	20	0.01	001	0.010	1	1.00	0.000	0.00	0.1	0.05	0.0	0.1	0.00	5	0.5	0.0
11255030 Soil Pul	21	0.00	000	0.007	1	1.10	0.001	0.00	0.0	0.00	1.0	0.1	0.00	1	0.0	0.0
11255031 Soil Pul	20	0.11	100	0.000	2	1.00	0.001	0.11	0.1	0.00	0.0	0.0	0.00	1	0.0	0.0
11255032 Soil Pul	10	0.11	000	0.000	2	0.00	0.011	0.00	0.1	0.00	0.0	0.1	0.10	1	0.1	0.0
11255033 Soil Pul	10	0.00	000	0.000	2	0.11	0.007	0.00	0.1	0.00	0.1	0.0	0.10	1	0.0	0.0
11255034 Soil Pul	10	0.10	100	0.010	2	0.07	0.000	0.10	0.2	0.11	0.0	0.2	0.00	2	0.0	0.0
11255035 Soil Pul	22	0.10	200	0.020	2	0.00	0.007	0.00	0.2	0.10	1.1	0.1	0.00	1	1.0	0.0
11255036 Soil Pul	1	0.01	210	0.000	2	0.10	0.007	0.00	0.1	0.00	0.0	0.1	0.10	1	0.0	0.0
11255037 Soil Pul	10	0.00	000	0.000	1	0.07	0.007	0.00	0.1	0.01	0.0	0.2	0.00	0	0.0	0.0
11255038 Soil Pul	10	0.00	010	0.000	1	0.00	0.007	0.00	0.1	0.10	0.0	0.0	0.11	0	0.1	0.0
11255039 Soil Pul	0	0.01	001	0.000	2	0.10	0.000	0.00	0.1	0.00	1.0	0.2	0.10	2	0.0	0.0
11255040 Soil Pul	22	0.00	010	0.010	2	1.01	0.000	0.07	0.1	0.02	1.1	0.2	0.10	0	0.1	0.0
11255041 Soil Pul	5	0.00	001	0.000	1	0.01	0.000	0.00	0.1	0.00	0.0	0.1	0.05	1	0.5	0.0

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Project: CCJV
Report Date: August 23, 2011

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CERTIFICATE OF ANALYSIS

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1105070	54.9	70.0	0.4	00	10.0	0.5	0.0	0.1	0.07	11.0	7.0	0.7	11.1	0.1	10.0	0.1	0.1	0.00	0.000	0
1105070	15.4	10.0	0.4	07	0.0	10.4	7.0	005	0.00	10.7	4.0	4.0	00	0.0	10.0	0.1	100	0.07	0.004	1
1105074	0.7	00.0	10.4	00	0.4	00.4	4.0	10	0.00	0.4	0.4	0.0	00	4.4	0.4	0.0	00	0.00	0.100	0
1105075	00.0	10.0	00.0	0	1.0	1.0	0.0	11	0.00	00.0	0.0	1.0	10	0.1	00.0	0.0	100	0.01	0.000	0
1100010	10.0	00.0	10.0	100	1.0	00.0	0.1	00	0.00	00.0	0.7	1.0	00	1.1	00.0	0.0	00	0.01	0.000	0
1100017	00.7	00.0	00.0	100	0.0	10.0	1.0	07	0.04	00.0	7.1	0.1	100	0.7	00.4	0.0	100	0.00	0.100	10
1100010	10.0	17.0	10.0	10	1.0	7.0	1.0	00	1.00	00.0	7.1	0.1	00	0.0	10.1	0.0	100	0.01	0.010	10
1100001	10.7	10.0	01.0	00	0.0	10.1	0.0	00	0.07	00.7	0.0	0.0	00	0.1	10.0	0.0	10.1	0.00	0.110	10
1105000	04.5	11.0	05.0	11	0.0	0.0	1.0	10	0.04	00.0	0.0	1.0	00	0.1	10.1	0.0	111	0.00	0.005	11
1105000	11.5	0.1	15.0	10	0.5	0.5	1.0	00	1.00	10.5	1.0	1.1	10	0.1	0.1	0.0	05	0.01	0.000	10
1100000	04.0	10.0	00.0	00	1.0	0.1	1.1	00	0.10	00.0	0.4	0.0	0.1	0.1	00.0	0.1	100	0.01	0.010	10
1100004	7.0	11.0	10.0	07	0.0	0.0	1.0	00	1.07	11.0	0.0	0.0	10	0.0	1.7	0.0	70	0.00	0.000	11
1100000	11.0	10.0	10.1	70	0.1	10.7	0.0	10	0.00	01.1	0.0	0.1	107	0.0	0.0	0.0	000	0.01	0.100	10
1100000	0.0	10.0	10.1	10	0.0	11.1	1.0	00	1.07	17.0	1.0	0.0	00	0.0	0.0	0.0	00	0.07	0.110	10
1100004	0.0	01.0	11.0	00	1.0	0.0	1.1	00	1.10	11.0	1.0	0.0	07	0.0	0.7	0.0	10	0.00	0.101	0
1100000	10.0	00.0	00.1	00	0.1	00.0	1.0	17	1.00	11.0	1.0	0.0	111	0.1	00.0	0.1	70	0.00	0.000	0
1100000	10.1	00.1	11.0	100	0.0	01.0	0.0	100	01.0	10.0	1.1	0.0	00	0.0	11.1	0.0	70	0.00	0.000	10
1100007	0.0	10.0	10.0	00	0.1	10.0	1.0	00	1.10	10.7	0.0	0.0	11	0.0	7.5	0.0	07	0.00	0.070	11
1100000	10.4	00.0	10.0	01	1.7	10.0	1.1	04	1.00	14.0	0.0	0.0	100	0.0	10.0	0.0	70	0.00	0.100	11
1100000	0.0	11.1	10.0	00	1.0	0.0	1.0	07	0.00	0.1	0.0	0.0	00	0.0	0.1	0.0	00	0.01	0.000	00
1100000	11.0	17.0	10.0	00	0.0	0.0	1.0	01	1.07	00.0	0.0	0.0	110	0.1	10.0	0.0	01	0.00	0.110	10
1070001	0.7	70.0	10.0	100	0.1	07.1	10.1	001	0.00	10.0	0.1	0.0	00	0.0	0.0	0.0	00	0.00	0.000	1
1070000	0.1	01.0	00.0	00	0.1	00.0	0.0	000	0.00	10.0	0.0	1.0	00	0.0	0.0	0.1	00	0.00	0.001	0
1070000	1.0	10.0	17.0	00	0.0	11.1	0.0	70	0.00	01.0	1.0	0.1	00	0.0	0.0	0.0	10	0.00	0.070	1
1070001	0.0	00.1	11.0	01	0.7	11.0	0.0	01	01.0	00.1	0.0	1.7	70	0.1	0.1	0.0	01	0.00	0.001	0
1070000	0.0	01.1	10.1	00	1.1	01.0	0.0	00	0.00	17.0	10.0	1.0	01	0.0	0.7	0.0	01	0.00	0.001	0
1070000	0.0	00.7	00.0	71	1.0	01.0	0.0	100	0.10	10.0	10.1	1.0	01	0.1	0.0	0.0	01	0.01	0.000	0
1070007	0.0	00.7	01.0	70	1.0	11.1	1.0	000	0.04	17.0	1.1	0.0	17	0.1	1.0	0.1	00	0.00	0.001	0
1070000	0.0	00.0	00.0	71	0.0	00.0	0.0	71	01.0	10.0	0.0	1.0	00	0.0	1.7	0.0	01	0.00	0.001	0
1070000	0.7	10.0	11.1	10	0.0	0.0	0.0	100	0.10	11.1	1.0	0.0	0	0.0	1.1	0.0	51	0.00	0.001	10

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Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1105070	0.1	0.00	0.00	0.000	1	0.10	0.005	0.00	0.0	0.70	1.0	1.0	0.70	0	10.0	0.0
1105070	0.0	0.00	0.00	0.010	1	1.50	0.000	0.00	0.0	0.10	1.0	0.5	0.05	0	0.1	0.0
1105071	10	0.10	0.01	0.001	0	0.00	0.007	0.00	0.1	0.01	0.0	0.0	0.10	0	0.0	0.0
1105075	0	0.00	0.70	0.000	0	0.01	0.010	0.10	0.1	0.10	0.0	0.0	0.00	1	10.1	0.0
1100010	10	0.00	0.11	0.001	1	0.01	0.000	0.11	0.1	0.11	0.0	0.0	0.00	0	11.1	0.0
1100017	11	0.10	0.01	0.000	0	0.10	0.000	0.10	0.1	0.00	0.0	0.0	0.00	0	10.1	0.0
1100018	10	0.00	0.00	0.000	1	0.00	0.002	0.00	0.1	0.07	0.0	0.0	0.00	0	0.1	0.0
1100007	17	0.10	0.11	0.010	0	0.10	0.001	0.00	0.1	0.10	1.0	0.0	0.10	1	1.0	0.0
1105000	15	0.00	0.10	0.010	0	0.77	0.005	0.10	0.1	0.11	0.0	0.0	0.10	1	0.5	0.0
1105000	0	0.01	0.10	0.007	0	0.10	0.000	0.07	0.1	0.01	0.0	0.0	0.07	0	0.0	0.0
1100000	10	0.10	1.00	0.000	0	0.00	0.000	0.00	0.1	0.01	1.0	0.0	0.00	1	0.0	0.0
1100001	11	0.01	0.00	0.000	0	0.10	0.000	0.07	0.1	0.01	0.0	0.0	0.07	1	0.0	0.0
1100002	10	0.00	0.10	0.010	1	0.00	0.001	0.00	0.0	0.07	0.0	0.0	0.00	0	0.0	0.0
1100000	17	0.11	0.00	0.000	1	0.77	0.000	0.01	0.1	0.01	0.0	0.1	0.00	1	0.1	0.0
1100001	10	0.00	1.10	0.000	1	0.07	0.000	0.00	0.1	0.10	0.1	0.0	0.11	0	0.0	0.0
1100000	10	0.00	0.000	0.000	0	0.00	0.001	0.07	0.1	0.10	0.0	0.0	0.11	0	10.0	0.0
1100000	0	0.00	1.00	0.000	0	1.00	0.000	0.00	0.0	0.10	0.0	0.1	0.00	0	1.0	0.0
1100000	0	0.00	1.000	0.000	0	0.00	0.000	0.00	0.1	0.10	0.0	0.0	0.00	0	0.0	0.0
1100000	10	0.07	0.01	0.010	0	0.01	0.000	0.00	0.1	0.01	0.0	0.0	0.00	0	1.0	0.0
1100000	0	0.00	10.11	0.000	0	0.10	0.000	0.07	0.1	0.00	0.0	0.0	0.11	0	0.1	0.0
1010001	10	0.00	0.100	0.001	1	0.00	0.001	0.00	0.1	0.00	0.0	0.1	0.00	0	1.1	0.0
1010002	0.1	0.00	0.00	0.010	1	0.00	0.000	0.01	0.1	0.01	1.0	0.1	0.00	0	1.0	0.0
1010000	10	0.00	0.10	0.000	1	0.10	0.000	0.00	0.1	0.00	0.0	0.1	0.00	0	0.1	0.0
1010001	17	0.11	1.00	0.011	0	0.10	0.000	0.01	0.0	0.01	1.0	0.1	0.00	0	1.0	0.0
1010000	10	0.11	0.00	0.001	0	0.01	0.000	0.01	0.1	0.01	1.0	0.1	0.00	0	0.0	0.0
1010000	10	0.00	0.01	0.001	0	1.00	0.000	0.00	0.1	0.00	0.0	0.0	0.00	0	0.0	0.0
1010007	0.0	0.00	1.00	0.000	0	1.01	0.000	0.00	0.0	0.11	1.0	0.1	0.00	0	0.1	0.0
1010000	17	0.01	0.07	0.000	0	0.00	0.001	0.00	0.1	0.10	1.1	0.0	0.00	0	1.0	0.0
1010000	10	0.10	0.00	0.000	0	0.50	0.000	0.01	0.0	0.00	1.0	0.1	0.05	1	0.5	0.0

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Project: CCJV
Report Date: August 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11003706.1

Method	Analyte	Unit	MDL	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
1370013	Soil Pulp		3.4	33.3	15.4	73	0.3	13.3	1.3	113	0.77	13.3	3.4	0.4	14	0.3	0.3	0.3	33	0.33	0.313	13	
1370014	Soil Pulp		3.3	33.3	15.3	57	0.3	13.3	3.3	133	0.73	14.4	4.5	1.3	13	0.4	1.3	0.3	53	0.33	0.374	14	
1370015	Soil Pulp		3.3	33.4	13.3	34	0.7	13.3	3.4	73	4.33	5.4	3.4	33	0.3	0.3	0.3	14	0.43	0.344	3		
1370016	Soil Pulp		3.1	33.3	13.4	33	0.3	14.3	3.3	133	0.47	17.3	1.3	33	0.4	0.3	0.3	33	0.33	0.373	13		
1370017	Soil Pulp		3.0	34.1	12.0	53	0.3	9.9	2.9	120	1.98	10.6	1.5	2.9	14	0.1	1.4	0.3	57	0.03	0.025	12	
1370018	Soil Pulp		3.0	53.8	17.1	44	0.5	9.9	2.9	103	1.99	10.9	1.3	1.5	19	0.1	1.2	0.3	56	0.04	0.035	11	
1370019	Soil Pulp		2.4	199.2	20.7	30	2.9	19.9	1.9	31	0.95	3.3	1.4	0.1	98	0.5	0.4	0.2	30	0.25	0.040	8	
1370020	Soil Pulp		2.6	49.9	13.6	61	0.4	10.9	3.6	130	1.72	8.3	1.8	2.5	31	0.2	0.6	0.3	49	0.09	0.015	10	
1370021	Soil Pulp		1.6	45.7	17.0	43	0.4	8.5	4.6	259	1.84	5.2	0.5	1.7	9	<0.1	0.5	0.3	42	0.03	0.033	10	
1370022	Soil Pulp		3.1	41.7	15.7	33	0.2	9.3	3.5	114	1.44	21.6	1.4	2.1	11	<0.1	0.9	0.3	51	0.03	0.015	10	
1370101	Soil Pulp		2.2	30.8	13.9	48	0.9	12.6	2.9	91	3.12	18.8	6.2	1.9	9	0.1	2.1	0.3	42	0.01	0.038	6	
1370102	Soil Pulp		1.2	316.8	26.3	113	0.8	38.6	8.1	363	1.88	7.0	7.7	0.6	494	0.5	0.9	0.3	24	1.07	0.095	10	
1370103	Soil Pulp		2.3	170.8	14.7	86	1.2	29.8	6.5	416	1.82	10.1	6.9	1.0	488	0.2	1.2	0.3	25	0.91	0.095	8	
1370104	Soil Pulp		1.8	18.6	9.4	37	<0.1	7.0	2.7	120	2.28	11.7	1.5	2.4	7	<0.1	0.7	0.3	56	0.04	0.034	11	
1370105	Soil Pulp		3.2	33.6	13.1	51	0.2	12.0	3.7	168	2.59	17.5	2.1	1.7	11	<0.1	1.3	0.3	39	0.02	0.062	9	
1370106	Soil Pulp		4.3	76.5	12.4	77	0.3	27.0	15.2	605	2.17	14.1	6.6	2.6	10	0.1	1.3	0.2	19	0.02	0.030	8	
1370107	Soil Pulp		1.7	48.6	10.0	61	<0.1	16.5	5.2	291	2.13	15.7	4.5	1.3	10	<0.1	1.5	0.2	24	0.02	0.033	7	
1370108	Soil Pulp		1.6	65.8	9.8	127	1.5	36.8	5.2	248	2.12	12.0	9.6	1.9	68	0.3	1.5	0.3	25	0.17	0.058	6	
1370109	Soil Pulp		1.3	54.3	10.4	67	0.7	29.9	5.8	521	1.67	9.4	6.1	0.7	179	0.3	2.6	0.2	20	1.39	0.082	4	
1370110	Soil Pulp		3.0	28.1	13.0	49	0.4	11.3	2.7	87	2.91	21.6	1.4	2.1	12	<0.1	3.3	0.3	39	0.01	0.039	6	
1370111	Soil Pulp		1.8	24.4	13.1	66	0.4	14.2	5.4	278	2.65	16.0	4.0	1.9	29	0.2	1.9	0.3	44	0.13	0.041	9	
1370112	Soil Pulp		2.9	25.1	23.4	46	0.4	11.7	3.2	119	1.79	26.2	9.4	2.0	20	0.1	9.0	0.3	35	0.03	0.025	8	
1370113	Soil Pulp		2.1	15.2	10.1	34	0.4	7.0	2.2	114	1.51	13.3	1.0	0.2	10	0.1	1.2	0.2	42	0.03	0.038	9	
1370114	Soil Pulp		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.		
1370115	Soil Pulp		2.3	33.9	12.2	57	0.3	33.6	4.1	152	2.76	13.4	3.4	1.8	8	0.1	1.6	0.2	30	0.01	0.041	5	
1370116	Soil Pulp		2.1	20.0	10.6	47	<0.1	10.6	3.1	143	2.33	16.5	1.9	1.4	8	<0.1	1.7	0.2	42	0.02	0.037	8	
1370117	Soil Pulp		2.0	14.5	12.4	39	<0.1	8.0	2.2	107	2.65	13.2	0.7	2.2	7	<0.1	1.4	0.3	70	0.02	0.030	10	
1370201	Soil Pulp		23.3	24.3	13.4	137	1.3	0.3	1.3	33	2.32	13.3	1.3	0.3	12	0.3	17.3	0.2	37	0.33	0.134	13	
1370202	Soil Pulp		1.3	13.3	14.3	13	0.3	1.3	1.3	14	1.33	12.2	1.3	0.3	27	0.3	2.2	0.3	33	0.34	0.332	3	



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Report Date: August 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11003706.1

Method	Analyte	Unit	MDL	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
1370013	Soil Pulp		24	0.22	227	0.042	<1	1.22	0.004	0.05	0.2	0.04	1.3	0.4	0.05	5	1.1	<0.2	
1370014	Soil Pulp		18	0.24	244	0.042	<1	1.22	0.003	0.05	0.2	0.02	1.4	0.4	0.05	5	0.5	<0.2	
1370015	Soil Pulp		13	0.44	1253	0.037	<1	0.83	0.004	0.05	0.4	0.02	0.2	0.4	0.05	4	0.5	<0.2	
1370016	Soil Pulp		24	0.15	133	0.022	<1	0.83	0.003	0.04	0.2	0.02	1.2	0.1	0.05	5	1.0	<0.2	
1370017	Soil Pulp		15	0.15	478	0.022	<1	0.83	0.003	0.04	0.2	0.02	1.2	0.1	0.05	5	0.7	<0.2	
1370018	Soil Pulp		13	0.12	806	0.016	<1	0.83	0.003	0.04	0.2	0.02	1.2	0.1	<0.05	4	0.6	<0.2	
1370019	Soil Pulp		12	0.13	1734	0.006	1	0.71	0.005	0.10	0.1	0.04	0.5	0.1	<0.05	3	<0.5	<0.2	
1370020	Soil Pulp		15	0.28	714	0.027	1	0.84	0.004	0.04	0.2	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2	
1370021	Soil Pulp		15	0.16	581	0.012	<1	1.17	0.004	0.03	0.2	0.04	1.2	<0.1	<0.05	4	<0.5	<0.2	
1370022	Soil Pulp		12	0.17	394	0.023	1	0.70	0.003	0.02	0.2	0.01	1.0	0.1	<0.05	4	<0.5	<0.2	
1370101	Soil Pulp		24	0.22	1433	0.032	<1	1.12	0.004	0.07	0.4	0.22	2.2	0.4	0.05	2	1.2	<0.2	
1370102	Soil Pulp		18	0.18	116	0.015	<1	0.80	0.002	0.03	0.1	0.06	1.2	<0.1	<0.05	4	1.0	<0.2	
1370103	Soil Pulp		17	0.41	1072	0.010	3	1.14	0.005	0.05	0.1	0.22	2.0	<0.1	0.06	3	2.2	<0.2	
1370104	Soil Pulp		15	0.37	3027	0.005	2	1.12	0.005	0.06	<0.1	0.19	2.5	0.1	0.08	3	1.6	<0.2	
1370105	Soil Pulp		15	0.13	241	0.033	<1	0.74	0.003	0.04	0.3	0.01	1.1	0.1	<0.05	6	<0.5	<0.2	
1370106	Soil Pulp		14	0.21	312	0.012	<1	0.72	0.003	0.04	0.1	0.02	1.0	0.1	<0.05	4	0.8	<0.2	
1370107	Soil Pulp		16	0.23	669	0.005	1	0.75	0.002	0.03	<0.1	0.08	1.5	<0.1	<0.05	2	1.0	<0.2	
1370108	Soil Pulp		14	0.20	393	0.006	2	0.60	0.002	0.04	<0.1	0.03	1.2	<0.1	<0.05	2	1.0	<0.2	
1370109	Soil Pulp		21	0.29	1948	0.003	2	1.02	0.004	0.08	<0.1	0.34	2.9	<0.1	<0.05	3	2.0	<0.2	
1370110	Soil Pulp		15	0.31	1587	0.005	5	0.91	0.006	0.05	<0.1	0.27	2.1	<0.1	0.14	2	3.5	<0.2	
1370111	Soil Pulp		14	0.16	289	0.010	1	0.74	0.002	0.04	<0.1	0.03	1.1	<0.1	<0.05	4	1.6	<0.2	
1370112	Soil Pulp		19	0.28	811	0.014	2	1.08	0.004	0.05	0.2	0.07	1.6	0.1	<0.05	4	0.9	<0.2	
1370113	Soil Pulp		18	0.11	392	0.005	4	0.58	0.003	0.05	<0.1	0.11	1.3	<0.1	<0.05	3	1.7	<0.2	
1370114	Soil Pulp		12	0.09	264	0.009	<1	0.64	0.004	0.04	0.1	0.05	0.5	0.1	<0.05	4	0.8	<0.2	
1370115	Soil Pulp		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
1370116	Soil Pulp		45	0.20	149	0.004	1	1.17	0.002	0.03	<0.1	0.08	1.3	<0.1	<0.05	3	1.2	<0.2	
1370117	Soil Pulp		15	0.14	211	0.011	1	0.70	0.002	0.04	0.1	0.03	1.1	<0.1	<0.05	4	1.1	<0.2	
1370118	Soil Pulp		15	0.08	121	0.030	<1	0.78	0.002	0.03	0.1	0.02	1.1	0.1	<0.05	6	<0.5	<0.2	
1370201	Soil Pulp		2	0.03	222	0.011	<1	0.12	0.003	0.03	0.1	0.12	0.2	0.1	0.03	2	0.2	<0.2	
1370202	Soil Pulp		22	0.07	1272	0.011	<1	0.82	0.003	0.03	0.2	0.12	0.2	0.2	0.03	2	2.2	<0.2	

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1070000	0.5	10.5	15.0	00	1.0	0.0	0.1	00	1.00	10.0	0.5	1.5	00	0.0	1.0	0.0	11.1	0.05	0.100	10
1070001	0.1	10.1	0.5	11	1.5	0.5	0.0	0	0.00	0.5	0.0	0.1	00	0.0	0.1	0.0	00	0.00	0.007	0
1070005	0.1	00.0	10.1	11	1.5	10.0	0.0	00	0.00	07.1	0.0	1.0	00	0.1	1.0	0.1	10	0.00	0.100	10
1070009	0.0	00.0	11.0	10	1.0	0.0	0.1	00	0.00	11.0	0.0	1.0	0	0.1	1.0	0.0	01	0.00	0.000	10
1070007	0.1	00.7	10.0	00	0.0	10.0	0.0	00	0.01	10.0	0.0	0.0	10	0.0	0.0	0.0	00	0.00	0.000	10
1070003	1.0	01.0	10.0	00	1.1	11.0	0.0	10	0.01	00.0	0.0	0.0	10	0.1	0.0	0.0	10	0.01	0.000	10
1070006	0.0	00.0	11.0	10	1.0	10.1	0.0	00	0.01	10.0	0.0	0.0	11	0.1	0.1	0.0	11	0.00	0.017	10
1070010	0.0	11.0	10.1	00	0.0	0.0	1.0	00	11.0	11.0	0.0	0.0	11	0.1	11	0.0	11	0.00	0.010	11
1070011	0.1	01.0	15.5	00	1.5	15.1	0.0	000	0.00	15.0	0.0	1.0	00	0.0	1.1	0.0	00	0.00	0.000	10
1070013	0.1	10.0	10.0	00	1.0	11.0	0.0	01	0.00	00.5	0.0	1.0	00	0.0	0.1	0.0	01	0.01	0.100	10
1070016	0.0	11.0	11.1	00	0.0	0.0	1.0	10	1.00	10.0	0.0	0.1	00	0.0	1.0	0.0	110	0.00	0.100	10
1070014	0.0	00.0	10.0	00	0.0	0.0	1.0	00	1.00	11.0	0.1	0.0	00	0.1	1.0	0.0	10	0.00	0.000	10
1070015	0.0	10.0	11.1	11	0.0	0.0	0.1	00	0.00	10.0	1.0	0.0	11	0.1	1.0	0.1	00	0.00	0.017	10
1070019	0.0	00.0	10.0	00	0.1	10.0	0.0	100	0.00	10.1	11	11	10	0.1	0.0	0.0	01	0.00	0.000	10
1070017	0.0	10.0	10.1	00	0.0	11.0	0.0	110	0.01	11.0	11	0.0	10	0.0	1.0	0.0	00	0.00	0.000	10
1070018	0.0	00.0	11.0	11	0.1	10.0	0.0	000	0.10	11.0	0.0	0.1	01	0.0	1.0	0.0	01	0.10	0.010	11
1070010	0.0	00.0	11.0	01	1.0	11.0	1.0	00	1.00	11.1	1.0	0.0	10	0.0	1.1	0.0	00	0.00	0.010	0
1070000	0.0	00.0	10.0	01	1.1	11.0	0.0	100	0.00	00.1	0.1	1.0	10	0.0	0.0	0.0	00	0.00	0.100	10
1070004	0.0	101.0	10.1	100	1.0	01.0	0.0	1100	1.10	00.0	0.0	0.0	00	0.0	0.1	0.0	00	0.00	0.100	10
1070002	0.0	00.0	10.1	10	0.0	0.0	0.0	100	1.00	01.0	0.0	1.0	01	0.1	0.1	0.1	00	0.01	0.001	10
1070006	0.0	00.0	11.0	00	1.1	10.1	0.0	100	0.00	00.0	0.1	0.0	01	0.1	0.0	0.0	00	0.01	0.010	10
1070001	0.0	10.0	0.0	00	1.1	0.0	0.0	000	1.10	10.0	1.0	0.0	01	0.1	1.0	0.0	00	0.00	0.000	11
1070000	1.0	01.0	0.0	00	1.0	0.0	0.1	00	1.00	0.0	0.0	0.0	10	0.1	0.0	0.0	00	0.01	0.000	10
1070000	1.0	10.0	10.0	10	0.0	0.1	0.1	100	0.00	1.0	0.1	1.0	1	0.1	0.1	0.0	00	0.01	0.011	10
1070007	0.0	11.0	10.1	01	0.1	10.0	0.0	00	1.01	10.0	0.1	0.1	00	0.0	1.0	0.0	11	0.00	0.010	11
1070000	0.0	00.0	10.1	10	0.0	11.0	1.0	110	0.00	10.1	0.0	0.0	11	0.0	1.1	0.0	00	0.00	0.010	0
1070000	1.0	00.0	0.0	11	0.0	0.0	1.0	00	1.00	0.1	0.0	0.0	10	0.1	0.0	0.0	10	0.00	0.000	10
1070000	0.0	100.0	10.0	110	1.0	01.0	1.0	110	0.00	11.0	1.0	1.0	110	0.0	1.0	0.0	00	0.10	0.010	0
1070004	0.0	10.0	10.1	00	0.0	10.0	0.0	110	0.01	10.0	0.0	1.0	11	0.1	1.1	0.0	10	0.00	0.000	0
1070000	0.1	01.1	00.0	00	1.5	00.1	00.0	000	0.11	10.0	10.0	1.0	100	0.1	1.0	0.0	01	0.01	0.000	1

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Project: CCJV
Report Date: August 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11003706.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1070000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070026	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070027	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070028	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070029	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070031	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070032	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070033	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070034	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1070035	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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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
1180976	Soil Pulp	0.0	105.0	0.0	0.0	0.1	00.5	0.1	0.0	1.00	7.5	0.1	0.0	0.5	0.7	1.0	0.0	10	0.11	0.000
1180981	Soil Pulp	0.1	50.1	0.0	0.0	0.5	10.0	0.0	5.5	0.10	10.0	0.0	1.0	0.0	0.1	1.0	0.0	0.0	0.01	0.001
1180985	Soil Pulp	0.0	10.0	10.0	0.1	0.0	11.0	1.0	10.7	0.10	0.5	0.0	0.1	0	0.1	1.0	0.1	0.0	0.05	0.000
1180986	Soil Pulp	1.0	10.0	0.1	0.1	0.1	0.0	0.0	10.0	1.00	0.0	0.0	0.1	0	0.1	1.1	0.0	0.0	0.01	0.000
1180987	Soil Pulp	0.0	110.1	10.0	0.0	0.0	00.0	11.0	10.0	0.00	10.1	1.0	1.0	10.0	0.0	1.0	0.0	0.0	0.01	0.000
1180988	Soil Pulp	0.0	00.1	11.0	0.0	1.0	10.0	1.0	0.0	0.11	11.1	0.0	1.0	0.0	0.1	1.1	0.0	0.0	0.11	0.110
1180989	Soil Pulp	2.1	10.0	10.0	0.1	0.1	00.1	0.0	0.0	0.10	11.0	0.0	0.0	1.0	0.1	1.1	0.0	0.1	0.01	0.001
1180990	Soil Pulp	1.0	10.1	10.0	0.0	0.0	10.0	0.0	0.0	0.11	10.1	0.0	1.0	0.0	0.1	1.0	0.0	1.0	0.02	0.002
1180991	Soil Pulp	5.7	07.5	11.0	10.1	0.0	01.0	7.1	00.0	0.05	00.0	0.0	0.0	5.7	0.0	0.5	0.0	10	0.07	0.000
1180992	Soil Pulp	5.7	50.0	11.0	10.0	0.0	00.0	7.0	10.7	0.00	10.7	1.1	1.0	0.0	0.7	0.0	0.0	11	0.10	0.007
1180994	Soil Pulp	0.0	10.0	10.0	11.0	0.1	00.0	10.0	0.0	0.00	00.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	1.10	0.100
1180995	Soil Pulp	1.0	01.0	0.0	0.1	0.0	00.0	0.0	10.0	0.00	0.1	0.1	0.0	1.0	0.0	1.0	0.1	0.0	0.00	0.100
1180996	Soil Pulp	00.0	10.0	11.1	10.0	1.0	00.0	0.1	01.0	0.01	11.0	0.0	0.0	0.7	10.0	00.0	0.0	11.0	0.10	0.000
1180977	Soil Pulp	3.1	56.8	13.9	95	0.3	33.7	15.1	331	3.20	10.5	4.0	3.3	55	0.4	1.8	0.2	23	0.94	0.158
1180979	Soil Pulp	1.4	33.2	9.0	72	0.2	23.9	9.5	356	2.10	11.4	2.7	2.6	63	0.4	1.6	0.1	31	0.95	0.124
1180980	Soil Pulp	2.4	50.2	12.1	96	0.3	28.9	11.8	412	2.55	21.8	4.6	4.0	42	0.5	2.7	0.1	34	0.63	0.134
1180981	Soil Pulp	6.3	67.6	13.2	356	0.6	63.2	11.8	448	2.82	24.8	4.9	2.9	61	3.2	4.5	0.2	49	0.70	0.175
1180982	Soil Pulp	2.8	40.9	11.6	118	0.3	29.3	11.0	416	2.66	23.2	4.3	3.1	51	0.7	2.3	0.2	37	0.70	0.175
1180985	Soil Pulp	0.1	00.0	11.0	10.0	0.0	01.0	0.0	00.0	0.00	10.0	1.0	0.0	1.0	0.1	0.0	0.0	0.0	0.00	0.000
1180983	Soil Pulp	2.6	46.0	11.1	106	0.3	30.5	10.9	277	2.57	45.2	7.0	3.6	54	0.5	3.4	0.1	29	0.89	0.182
1180987	Soil Pulp	0.0	01.0	10.0	0.0	1.0	00.0	0.0	0.0	0.00	10.0	0.0	1.0	10.1	0.0	1.1	0.0	11	0.00	0.101
1180991	Soil Pulp	1.0	01.1	10.1	00.0	1.1	01.0	0.0	00.1	0.00	00.0	0.1	0.0	0.0	0.0	1.1	0.0	10	0.00	0.000
1180990	Soil Pulp	0.0	00.1	10.0	11.0	1.1	10.1	10.0	00.0	0.00	10.0	1.1	0.0	10.1	1.1	1.0	0.0	0.0	0.00	0.100
1180988	Soil Pulp	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
1180987	Soil Pulp	0.1	00.0	10.0	10.1	1.0	01.0	10.1	00.0	0.00	00.1	0.0	1.1	0.1	1.0	1.0	0.0	0.0	11.0	0.110
1180986	Soil Pulp	10.0	00.1	10.0	01.0	1.0	10.0	11.1	00.0	0.00	01.1	0.0	0.1	0.1	1.0	0.1	0.0	11	0.00	0.000
1180985	Soil Pulp	0.0	01.0	10.0	1.0	0.0	11.0	1.0	0.0	0.00	1.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.01	0.000
1180983	Soil Pulp	10.0	11.0	11.0	10.0	1.0	10.0	0.0	10.0	10.1	10.0	0.0	1.0	0	0.0	0.0	0.0	11	0.00	0.110
1180981	Soil Pulp	0.0	10.1	10.0	10.1	0.0	00.0	0.0	10.7	0.00	00.0	1.0	1.0	11	0.0	0.0	0.0	0.0	0.01	0.001
1180980	Soil Pulp	01.0	00.0	10.0	00.0	0.1	00.1	1.1	05	1.01	11.0	0.1	1.1	70	1.0	1.5	0.0	0.0	0.01	0.110

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CERTIFICATE OF ANALYSIS

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1070000	Soil Pulp	15	0.67	1000	0.001	0	0.00	0.007	0.00	0.1	0.10	0.0	0.1	0.07	0	0.0
1070001	Soil Pulp	10	0.40	0000	0.001	1	0.07	0.000	0.01	0.1	0.01	0.1	0.07	0	0.0	0.0
1070005	Soil Pulp	00	0.00	000	0.001	1	0.00	0.001	0.00	0.0	0.00	0.1	0.00	0	0.0	0.0
1070000	Soil Pulp	10	0.00	100	0.000	1	0.00	0.001	0.00	0.0	0.00	0.0	0.1	0.00	0	0.0
1070007	Soil Pulp	01	0.00	0000	0.000	0	0.11	0.007	0.11	0.1	0.00	0.1	0.00	0	0.0	0.0
1070000	Soil Pulp	10	0.00	0000	0.000	0	0.00	0.000	0.00	0.1	0.00	0.0	0.1	0.00	0	0.0
1070000	Soil Pulp	10	0.00	0110	0.000	0	0.01	0.000	0.01	0.1	0.10	0.0	0.1	0.00	0	0.0
1070010	Soil Pulp	10	0.11	000	0.001	1	0.00	0.001	0.00	0.0	0.00	0.0	0.1	0.00	1	0.0
1070011	Soil Pulp	00	0.00	0000	0.000	0	0.01	0.001	0.00	0.1	0.00	0.1	0.00	0	0.0	0.0
1070010	Soil Pulp	00	0.00	1000	0.000	0	0.00	0.007	0.07	0.0	0.00	0.0	0.00	0	0.0	0.0
1100011	Soil Pulp	10	0.00	100	0.001	0	0.00	0.000	0.10	0.1	0.10	0.0	0.1	0.00	0	0.1
1100010	Soil Pulp	10	0.10	000	0.010	1	0.00	0.007	0.00	0.1	0.00	0.0	0.1	0.00	0	0.0
1100010	Soil Pulp	0	0.00	001	0.000	1	0.00	0.000	0.10	0.1	0.00	0.1	0.00	1	0.0	0.0
1180977	Soil Pulp	15	0.56	190	0.006	1	0.95	0.005	0.12	<0.1	0.20	2.9	0.1	0.05	3	0.8
1180979	Soil Pulp	17	0.54	301	0.016	2	0.89	0.008	0.11	<0.1	0.11	2.4	<0.1	<0.05	3	0.9
1180980	Soil Pulp	16	0.44	269	0.018	13	0.92	0.007	0.10	0.1	0.16	3.1	<0.1	<0.05	3	0.6
1180981	Soil Pulp	17	0.50	378	0.007	2	0.94	0.004	0.13	<0.1	0.26	2.6	0.2	<0.05	3	1.5
1180982	Soil Pulp	16	0.51	286	0.008	2	1.01	0.004	0.12	<0.1	0.12	2.5	0.1	<0.05	3	1.0
1180980	Soil Pulp	17	0.07	1010	0.000	1	0.00	0.000	0.00	0.1	0.00	0.0	0.1	0.00	0	0.1
1180983	Soil Pulp	15	0.53	237	0.008	2	0.86	0.004	0.12	<0.1	0.13	2.7	<0.1	<0.05	2	1.1
1100007	Soil Pulp	11	0.00	1001	0.000	1	0.00	0.000	0.00	0.1	0.10	0.0	0.1	0.10	0	0.0
1101001	Soil Pulp	7	0.10	010	0.001	0	0.10	0.000	0.00	0.1	0.01	0.1	0.00	1	0.0	0.0
1101000	Soil Pulp	0	0.11	000	0.001	0	0.10	0.001	0.00	0.1	0.10	0.1	0.00	1	0.0	0.0
1101000	Soil Pulp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1101007	Soil Pulp	10	0.01	001	0.000	1	0.00	0.001	0.00	0.1	0.00	0.0	0.00	0	0.0	0.0
1101000	Soil Pulp	10	0.01	000	0.000	1	0.00	0.000	0.00	0.1	0.10	0.0	0.00	0	0.0	0.0
1101000	Soil Pulp	11	0.00	001	0.001	1	0.01	0.001	0.00	0.1	0.00	0.0	0.1	0.00	0	0.0
1101010	Soil Pulp	10	0.10	000	0.010	1	0.00	0.000	0.07	0.1	0.10	0.0	0.00	0	0.0	0.0
1101011	Soil Pulp	10	0.10	011	0.000	1	0.01	0.001	0.00	0.1	0.07	0.0	0.00	1	0.0	0.0
1101010	Soil Pulp	10	0.00	007	0.000	1	0.01	0.000	0.00	0.1	0.01	0.0	0.00	0	0.1	0.0

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Project: CCJV

Report Date: August 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11003706.1

Method	Analyte	Unit	MDL	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
1181812	Soil-Pul		28.4	28.2	47.3	284	2.2	122.2	44.2	522	2.42	12.2	12.2	4.2	35	5.7	2.2	2.2	22	2.22	2.172	44	
1181814	Soil-Pul		4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2		
1181815	Soil-Pul		7.2	22.4	42.4	224	2.2	54.7	42.2	224	2.22	22.5	2.2	4.7	22	4.5	2.2	2.2	22	2.42	2.422	44	
1181812	Soil-Pul		22.4	122.7	42.4	225	2.2	122.2	42.2	222	2.22	12.2	2.2	4.2	27	2.2	2.2	2.2	22	4.44	2.444	2	
1181817	Soil-Pul		22.2	144.2	12.2	1272	4.2	127.4	12.7	222	2.22	24.2	2.2	4.2	24	7.2	12.4	2.2	122	2.22	2.442	2	
1181813	Soil-Pul		2.2	2.42	12.2	222	4.2	22.2	12.2	222	2.22	12.2	2.2	2.2	47	4.2	2.2	2.2	22	2.22	2.422	12	
1181816	Soil-Pul		42.7	24.4	44.4	722	2.7	422.2	42.4	222	2.72	42.5	7.7	4.2	44	5.2	4.2	2.2	22	2.22	2.422	44	
1181852	Soil-Pul		2.5	27.4	42.2	427	2.2	22.2	2.2	472	2.24	44.4	4.2	4.2	42	4.2	2.2	2.2	52	2.42	2.272	42	
1181851	Soil-Pul		2.4	22.4	44.2	227	4.2	22.2	2.4	224	2.22	22.2	7.2	2.2	422	2.4	2.5	2.2	22	4.22	2.445	2	
1181853	Soil-Pul		2.7	44.2	42.2	425	4.2	24.2	2.7	52	4.24	2.2	2.2	4.2	27	2.2	2.2	2.2	42	2.22	2.242	44	
1181822	Soil-Pul		4.4	42.2	42.2	22	2.2	42.4	2.2	2.2	4.22	2.2	4.2	2.4	22	2.2	4.4	2.2	2.4	2.42	2.222	12	
1181821	Soil-Pul		4.2	42.2	4.2	42.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	
1181823	Soil-Pul		7.4	12.2	2.2	422	2.2	22.2	7.7	222	4.22	12.4	2.2	4.7	22	2.2	2.2	2.4	422	2.22	2.424	42	
1181824	Soil-Pul		2.2	2.42	2.4	42	4.4	22.2	4.2	42	2.42	2.2	4.4	2.4	22	4.4	2.2	2.2	422	2.22	2.422	22	
1181827	Soil-Pul		44.2	42.2	2.4	222	4.4	24.4	22.2	244	2.44	4.2	4.2	4.2	424	2.4	2.4	2.4	424	4.22	2.424	42	

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CERTIFICATE OF ANALYSIS

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1101010	0.15	0.15	0.15	0.000	1	0.00	0.000	0.00	0.1	0.10	0.0	0.0	0.00	0	0.0	0.0
1101011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1101015	0.0	0.10	0.01	0.000	1	0.01	0.000	0.00	0.1	0.10	0.1	0.0	0.00	0	0.0	0.0
1101016	0.0	0.00	0.00	0.000	1	0.00	0.001	0.00	0.1	0.10	0.0	0.1	0.00	1	0.0	0.0
1101017	0.0	0.10	0.0	0.000	1	0.10	0.000	0.00	0.1	0.00	0.0	0.0	0.00	1	0.0	0.0
1101018	0.1	0.00	0.00	0.000	0	0.00	0.001	0.00	0.1	0.00	0.0	0.1	0.00	0	0.0	0.0
1101019	0.0	0.10	0.00	0.000	0	0.01	0.000	0.00	0.1	0.00	0.0	0.1	0.00	0	0.0	0.0
1101020	0.0	0.10	0.00	0.000	0	0.01	0.000	0.00	0.1	0.00	0.0	0.1	0.00	0	0.0	0.0
1101021	0.0	0.10	0.00	0.000	0	0.00	0.000	0.00	0.1	0.01	0.1	0.1	0.00	0	0.0	0.0
1101022	0.0	0.00	0.00	0.000	0	0.10	0.001	0.00	0.1	0.00	0.0	0.1	0.10	1	0.0	0.0
1101023	0	0.00	0.00	0.000	1	0.00	0.000	0.01	0.1	0.01	0.1	0.1	0.00	1	0.0	0.0
1101024	0.1	0.10	0.00	0.000	1	0.00	0.000	0.00	0.1	0.10	0.1	0.1	0.00	0	0.0	0.0
1101025	0.0	0.10	0.00	0.000	0	0.00	0.000	0.00	0.1	0.00	0.0	0.1	0.00	0	0.0	0.0
1101026	0.0	0.10	0.00	0.000	0	0.00	0.000	0.00	0.1	0.00	0.0	0.1	0.00	0	0.0	0.0
1101027	0.0	0.10	0.00	0.000	0	0.00	0.000	0.00	0.1	0.00	0.0	0.1	0.00	0	0.0	0.0
1101028	0.0	0.10	0.00	0.000	0	0.00	0.000	0.00	0.1	0.00	0.0	0.1	0.00	0	0.0	0.0
1101029	0.0	0.10	0.00	0.000	0	0.00	0.000	0.00	0.1	0.00	0.0	0.1	0.00	0	0.0	0.0
1101030	0.0	0.10	0.00	0.000	0	0.00	0.000	0.00	0.1	0.00	0.0	0.1	0.00	0	0.0	0.0
1101031	0.0	0.10	0.00	0.000	0	0.00	0.000	0.00	0.1	0.00	0.0	0.1	0.00	0	0.0	0.0
1101032	0.0	0.10	0.00	0.000	0	0.00	0.000	0.00	0.1	0.00	0.0	0.1	0.00	0	0.0	0.0
1101033	0.0	0.10	0.00	0.000	0	0.00	0.000	0.00	0.1	0.00	0.0	0.1	0.00	0	0.0	0.0
1101034	0.0	0.10	0.00	0.000	0	0.00	0.000	0.00	0.1	0.00	0.0	0.1	0.00	0	0.0	0.0



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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	2	0.01	0.001	1
Pulp Duplicates																					
1183634	Soil Pulp	2.4	29.8	13.9	73	0.1	18.7	9.0	285	3.23	19.1	1.5	3.0	14	0.3	1.5	0.2	37	0.17	0.119	18
REP 1183634	QC	2.5	29.5	13.7	66	0.1	18.7	8.5	276	2.99	18.5	2.1	2.8	14	0.3	1.5	0.2	35	0.16	0.114	17
1183654	Soil Pulp	5.3	53.3	25.9	44	2.2	16.8	2.5	54	2.27	25.6	26.9	0.3	29	0.4	9.0	0.3	41	0.04	0.142	8
REP 1183654	QC	5.2	56.2	25.1	44	2.3	16.1	2.4	54	2.38	26.6	23.3	0.4	29	0.5	9.5	0.3	39	0.04	0.143	9
1183676	Soil Pulp	3.6	33.9	14.5	55	0.8	13.9	2.7	72	2.96	22.5	4.2	2.2	13	<0.1	2.6	0.3	41	0.01	0.065	8
REP 1183676	QC	3.1	32.1	14.5	54	0.8	13.6	2.3	72	2.83	21.7	3.3	2.1	12	<0.1	2.7	0.2	38	<0.01	0.065	7
1183683	Soil Pulp	5.6	26.0	17.9	121	0.4	20.1	5.7	248	4.26	21.7	1.4	2.6	7	0.2	1.9	0.3	77	0.02	0.073	7
REP 1183683	QC	5.3	25.4	18.8	119	0.4	20.1	6.2	247	4.22	21.2	1.3	2.6	7	0.3	1.9	0.3	77	0.02	0.076	7
1185746	Soil Pulp	1.7	37.7	30.2	66	0.4	22.7	9.4	556	1.85	11.4	3.8	1.1	92	0.6	4.5	0.2	25	1.65	0.103	10
REP 1185746	QC	1.6	39.5	29.4	66	0.4	21.9	9.0	538	1.78	10.6	4.2	1.1	90	0.6	4.5	0.2	26	1.56	0.102	11
1185843	Soil Pulp	3.2	45.3	13.3	124	0.7	34.5	15.3	463	2.97	17.9	3.1	3.8	64	0.6	2.2	0.2	36	0.95	0.100	22
REP 1185843	QC	3.4	43.1	13.5	122	0.8	35.2	15.5	459	2.95	17.6	3.6	3.9	63	0.6	2.1	0.2	36	0.95	0.102	21
1185871	Soil Pulp	1.4	31.6	11.3	18	0.2	2.1	0.6	38	1.35	9.4	14.5	0.5	27	<0.1	1.8	0.3	13	<0.01	0.042	2
REP 1185871	QC	1.2	32.7	11.9	18	0.2	2.1	0.6	39	1.36	9.7	15.1	0.5	28	<0.1	1.8	0.3	14	<0.01	0.046	2
1185877	Soil Pulp	22.7	33.9	22.8	138	3.6	16.2	1.6	57	2.04	28.5	7.1	0.4	106	0.7	38.4	0.3	123	0.03	0.135	10
REP 1185877	QC	24.1	37.7	22.5	147	3.9	18.0	1.7	61	2.21	30.9	5.5	0.4	108	0.8	39.8	0.3	131	0.03	0.136	10
1370007	Soil Pulp	2.9	29.7	21.2	73	1.2	14.4	4.2	200	5.04	17.0	4.4	2.3	17	0.1	1.8	0.4	59	0.05	0.061	8
REP 1370007	QC	2.8	27.5	21.1	69	1.2	13.5	4.0	190	4.91	16.7	4.5	2.4	16	0.2	1.7	0.4	56	0.04	0.056	7
1370110	Soil Pulp	1.3	54.3	10.4	67	0.7	29.9	5.8	521	1.67	9.4	6.1	0.7	179	0.3	2.6	0.2	20	1.39	0.082	4
REP 1370110	QC	1.1	57.1	10.8	72	0.7	30.5	6.1	534	1.72	9.2	9.0	0.7	177	0.3	2.6	0.2	19	1.50	0.086	4
1370206	Soil Pulp	2.6	28.9	11.9	46	1.3	9.0	2.4	63	2.82	14.3	2.3	1.5	9	<0.1	1.8	0.3	54	0.03	0.063	12
REP 1370206	QC	2.5	29.8	11.9	45	1.3	9.5	2.3	66	2.83	13.8	3.5	1.6	10	<0.1	1.9	0.3	57	0.03	0.063	13
1370230	Soil Pulp	2.7	120.5	16.6	110	1.2	37.8	4.5	112	2.90	14.7	10.8	1.9	110	0.3	1.7	0.3	35	0.16	0.070	6
REP 1370230	QC	2.9	117.7	16.3	105	1.3	38.8	4.4	112	2.92	14.1	11.4	1.8	105	0.6	1.7	0.3	32	0.14	0.067	6
1180980	Soil Pulp	2.4	50.2	12.1	96	0.3	28.9	11.8	412	2.55	21.8	4.6	4.0	42	0.5	2.7	0.1	34	0.63	0.134	22
REP 1180980	QC	2.6	50.5	12.3	96	0.4	30.4	12.4	440	2.61	22.2	6.7	4.1	43	0.5	2.8	0.2	35	0.61	0.140	22
1181048	Soil Pulp	6.6	64.2	10.5	295	1.0	56.5	10.7	388	2.65	15.3	6.2	3.0	47	1.8	3.4	0.2	56	0.33	0.133	16
REP 1181048	QC	6.9	68.0	11.1	323	1.1	59.7	11.4	421	2.85	15.9	5.7	3.1	48	1.9	3.5	0.2	55	0.33	0.138	15

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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
		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	0.1	0.05	1	0.5
Pulp Duplicates																	
1183634	Soil Pulp	17	0.49	174	0.006	3	1.29	0.003	0.11	<0.1	0.05	2.0	0.1	0.05	4	0.7	<0.2
REP 1183634	QC	16	0.48	169	0.006	2	1.24	0.003	0.11	<0.1	0.05	2.0	0.1	0.06	4	0.7	<0.2
1183654	Soil Pulp	17	0.19	437	0.006	3	1.09	0.003	0.06	0.1	1.20	0.8	0.6	0.07	4	5.5	<0.2
REP 1183654	QC	15	0.20	438	0.007	2	1.11	0.003	0.06	0.1	1.16	0.9	0.6	0.09	4	5.5	<0.2
1183676	Soil Pulp	15	0.15	294	0.009	<1	0.76	0.002	0.04	0.1	0.06	1.0	0.1	<0.05	3	2.6	<0.2
REP 1183676	QC	14	0.15	277	0.008	<1	0.72	0.002	0.03	0.1	0.04	1.0	0.1	<0.05	3	2.0	<0.2
1183683	Soil Pulp	26	0.24	185	0.012	<1	1.46	0.002	0.04	0.3	0.03	1.5	0.1	<0.05	5	1.2	<0.2
REP 1183683	QC	27	0.24	188	0.011	<1	1.50	0.003	0.04	0.3	0.03	1.4	0.1	<0.05	5	1.3	<0.2
1185746	Soil Pulp	14	0.47	396	0.008	3	0.80	0.005	0.07	<0.1	0.13	1.6	<0.1	<0.05	2	0.9	<0.2
REP 1185746	QC	14	0.43	397	0.009	2	0.80	0.005	0.07	<0.1	0.10	1.7	<0.1	<0.05	2	1.2	<0.2
1185843	Soil Pulp	22	0.75	258	0.006	1	1.38	0.005	0.10	<0.1	0.14	3.0	0.1	<0.05	4	0.7	<0.2
REP 1185843	QC	21	0.75	254	0.005	1	1.37	0.005	0.10	<0.1	0.14	3.1	0.1	<0.05	4	0.6	<0.2
1185871	Soil Pulp	5	0.02	301	0.003	<1	0.21	0.002	0.03	<0.1	0.02	0.6	<0.1	0.05	1	<0.5	0.3
REP 1185871	QC	5	0.02	318	0.003	1	0.22	0.002	0.04	<0.1	0.03	0.6	<0.1	0.07	1	0.5	<0.2
1185877	Soil Pulp	11	0.15	737	0.003	2	0.49	0.003	0.10	<0.1	0.33	0.6	0.9	0.22	2	13.4	0.2
REP 1185877	QC	11	0.16	794	0.004	2	0.50	0.003	0.11	<0.1	0.34	0.6	0.9	0.22	2	13.9	<0.2
1370007	Soil Pulp	29	0.22	198	0.026	2	1.24	0.003	0.06	0.2	0.11	1.6	0.1	<0.05	6	2.1	<0.2
REP 1370007	QC	27	0.22	186	0.024	<1	1.18	0.003	0.05	0.2	0.10	1.5	0.1	<0.05	6	2.2	<0.2
1370110	Soil Pulp	15	0.31	1587	0.005	5	0.91	0.006	0.05	<0.1	0.27	2.1	<0.1	0.14	2	3.5	<0.2
REP 1370110	QC	16	0.32	1607	0.005	4	0.88	0.006	0.05	<0.1	0.30	2.1	<0.1	0.17	2	4.2	<0.2
1370206	Soil Pulp	14	0.07	213	0.016	3	0.70	0.005	0.04	0.2	0.07	0.9	0.1	<0.05	5	2.6	<0.2
REP 1370206	QC	15	0.08	248	0.016	3	0.73	0.004	0.05	0.2	0.06	1.0	0.1	<0.05	5	1.4	<0.2
1370230	Soil Pulp	24	0.39	2994	0.003	5	1.46	0.006	0.12	<0.1	0.26	3.3	0.2	0.08	4	2.0	<0.2
REP 1370230	QC	23	0.38	2773	0.003	5	1.46	0.006	0.11	<0.1	0.27	3.4	0.2	0.10	4	2.2	0.3
1180980	Soil Pulp	16	0.44	269	0.018	13	0.92	0.007	0.10	0.1	0.16	3.1	<0.1	<0.05	3	0.6	<0.2
REP 1180980	QC	17	0.46	269	0.017	1	0.91	0.007	0.10	0.1	0.16	3.3	<0.1	<0.05	3	0.8	<0.2
1181048	Soil Pulp	24	0.30	669	0.007	2	0.97	0.004	0.09	<0.1	0.33	3.3	0.1	<0.05	3	2.6	<0.2
REP 1181048	QC	24	0.31	674	0.005	<1	0.96	0.004	0.08	<0.1	0.36	3.2	0.1	<0.05	3	2.9	<0.2

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



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Project: CCJV
Report Date: August 23, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

VAN11003706.1

		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
1181055	Soil Pulp	7.4	43.8	8.5	480	3.5	90.6	7.7	208	1.99	15.1	3.9	1.7	86	3.2	3.8	0.1	170	0.93	0.164
REP 1181055	QC	8.1	44.9	8.6	489	3.4	92.6	7.9	209	2.01	15.1	4.5	1.7	87	3.2	3.9	0.2	165	0.93	0.168
Reference Materials																				
STD DS8	Standard	14.5	111.8	126.2	312	1.8	39.4	7.6	608	2.43	26.0	98.1	7.1	68	2.3	4.6	6.8	44	0.70	0.083
STD DS8	Standard	12.9	110.1	124.8	303	1.7	37.3	7.6	601	2.40	24.7	130.3	6.9	70	2.1	5.6	6.6	41	0.72	0.079
STD DS8	Standard	14.8	117.9	140.3	326	1.8	42.5	8.5	650	2.68	26.5	114.2	7.7	80	2.4	6.4	7.6	47	0.74	0.078
STD DS8	Standard	14.6	113.8	133.6	328	2.0	41.1	7.6	666	2.65	26.6	118.6	7.6	81	2.5	6.2	7.2	43	0.81	0.081
STD DS8	Standard	14.4	114.8	131.6	316	1.8	42.2	8.1	635	2.53	25.6	109.8	7.7	74	2.4	6.3	7.7	45	0.72	0.079
STD DS8	Standard	11.9	96.7	120.1	286	1.8	33.1	6.6	533	2.12	23.4	102.6	6.6	56	2.3	5.1	6.4	37	0.63	0.069
STD DS8	Standard	11.7	97.0	110.2	266	1.6	31.9	6.5	522	2.14	22.4	100.4	6.4	61	2.1	5.0	5.8	34	0.59	0.068
STD DS8	Standard	13.9	121.0	127.5	330	1.8	40.3	7.8	636	2.53	25.7	115.7	7.4	68	2.7	5.8	7.2	43	0.67	0.080
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
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
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
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
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
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
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
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
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



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Project: CCJV
Report Date: August 23, 2011

Page: 2 of 2 **Part** 2

QUALITY CONTROL REPORT

VAN11003706.1

		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
		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
1181055	Soil Pulp	37	0.47	527	0.048	3	0.89	0.003	0.10	<0.1	0.37	3.3	0.4	<0.05	3	5.5
REP 1181055	QC	37	0.46	539	0.048	4	0.89	0.003	0.10	<0.1	0.38	3.3	0.3	<0.05	3	5.0
Reference Materials																
STD DS8	Standard	123	0.60	271	0.127	2	0.92	0.084	0.41	2.8	0.19	2.5	5.2	0.14	5	5.0
STD DS8	Standard	116	0.60	275	0.113	2	0.91	0.088	0.42	3.0	0.21	2.2	5.4	0.15	5	4.6
STD DS8	Standard	130	0.65	309	0.130	2	0.95	0.099	0.43	3.2	0.21	2.6	5.6	0.16	5	4.9
STD DS8	Standard	125	0.68	308	0.127	3	1.05	0.113	0.47	3.1	0.21	3.3	5.6	0.14	5	6.2
STD DS8	Standard	131	0.62	280	0.129	2	0.89	0.084	0.43	3.3	0.22	2.3	5.6	0.11	5	5.3
STD DS8	Standard	101	0.52	256	0.104	2	0.79	0.078	0.38	2.8	0.19	2.0	5.0	0.13	4	5.2
STD DS8	Standard	96	0.52	242	0.103	2	0.78	0.089	0.37	2.7	0.18	2.1	5.0	0.15	4	5.5
STD DS8	Standard	122	0.65	283	0.122	2	0.91	0.093	0.43	2.9	0.19	2.2	5.7	0.17	5	4.7
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
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
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
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
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
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
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
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
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



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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

VAN11004071.1

CLIENT JOB INFORMATION

Project: CCJV
Shipment ID:
P.O. Number AZ-05
Number of Samples: 22

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
No Prep	22	Sorting of samples on arrival and labeling			VAN
1DX2	22	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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 20, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN11004071.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1180000	Soil Pulp	2.0	0.10	10.0	200	0.0	0.10	10.0	0.00	2.00	10.0	1.0	2.0	0.1	1.1	1.1	0.0	20	0.00	0.011
1180001	Soil Pulp	0.12	2.00	0.0	1.1	1.1	0.10	0.00	0.00	10.0	2.00	10.0	1.0	1.0	0.0	0.12	20	0.12	0.101	0
1180002	Soil Pulp	0.0	1.00	1.0	200	0.0	0.00	2.00	0.00	10.0	0.1	2.1	0.1	1.1	2.0	0.12	0.1	0.12	0.000	0
1180110	Soil Pulp	0.0	0.02	10.0	2.1	0.1	0.11	1.12	0.00	2.00	1.11	2.1	0.0	1.1	2.0	0.12	20	0.11	0.000	0
1180110	Soil Pulp	0.0	10.0	2.12	2.0	1.2	0.12	1.11	1.00	10.0	0.11	2.11	1.0	1.01	0.0	0.11	10	0.10	0.100	0
1180111	Soil Pulp	0.0	0.11	1.11	1.01	2.12	10.0	2.0	1.0	2.01	10.1	10.0	1.1	0.1	0.0	2.0	0.12	10	0.10	0.112
1180110	Soil Pulp	0.0	0.0	10.1	1.0	0.1	1.1	10.0	0.11	10.0	0.0	1.0	1.0	0.0	1.0	0.0	0.1	0.10	0.000	0
1180449	Soil Pulp	2.4	51.8	11.8	149	0.4	30.6	7.5	513	2.28	14.6	6.8	1.7	55	0.9	1.9	0.2	24	0.15	0.058
1180470	Soil Pulp	1.0	0.0	10.0	0.0	0.1	0.0	10.0	0.00	0.00	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.10	0.101	0.0
1180501	Soil Pulp	0.0	100.0	10.0	0.0	0.1	0.00	0.01	1.00	0.10	10.1	0.0	0.0	0.1	1.0	0.0	0.0	0.10	0.000	0
1180500	Soil Pulp	0.1	100.0	11.0	100	1.0	0.0	0.0	0.00	0.00	10.0	1.0	0.1	0.0	0.0	0.0	0.0	0.00	0.000	0
1180500	Soil Pulp	1.0	0.10	10.0	10.1	1.1	10.0	10.0	0.10	0.10	0.0	0.0	0.0	1.0	0.0	0.0	10	0.00	0.100	0
1180500	Soil Pulp	0.0	100.0	10.1	100	0.0	0.00	10.0	0.10	0.00	10.0	0.0	0.1	0.0	1.1	0.0	10	0.00	0.000	0
1180500	Soil Pulp	0.1	0.01	10.0	10.1	0.0	0.10	10.1	0.10	10.00	0.10	0.10	1.1	0.1	0.1	0.0	20	0.10	0.000	0
1180001	Soil Pulp	0.0	10.0	10.0	10.1	0.0	0.00	0.0	0.10	0.01	0.00	1.1	0.0	1.0	0.0	0.0	10	0.00	0.100	10
1180000	Soil Pulp	1.0	0.0	10.1	0.00	0.0	0.11	0.00	0.00	10.0	1.0	0.0	0.1	1.0	0.0	0.0	0.0	0.10	0.000	0
1180107	Soil Pulp	0.0	0.00	10.0	100	0.0	10.1	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.000	0
1180100	Soil Pulp	0.0	110.0	10.0	100	0.0	10.1	11.0	0.11	0.00	10.0	0.0	0.0	0.0	0.0	0.1	0.0	0.00	0.000	0
1180100	Soil Pulp	0.1	0.0	10.0	100	0.0	0.10	0.0	0.01	0.10	10.1	0.0	1.0	0.0	1.1	0.0	0.0	0.11	0.000	0
1180100	Soil Pulp	0.1	0.1	11.0	0.0	0.0	10.0	1.0	0.00	0.11	10.0	1.0	1.1	1.0	0.0	0.0	0.0	0.00	0.101	0
1183182	Soil Pulp	4.2	28.9	15.4	103	0.2	25.1	8.5	218	2.98	16.5	3.0	3.8	34	0.4	2.1	0.2	34	0.30	0.136
1180000	Soil Pulp	0.0	0.00	10.1	0.0	0.0	10.0	0.0	0.00	0.10	10.0	1.1	0.0	1.1	0.0	1.0	0.0	10	0.00	0.110



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Project: CCJV

Report Date: September 20, 2011

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Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN11004071.1

	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	0.1	0.05	1	0.5
1180000	Soil Pulp	10	0.01	1100	0.002	1	0.01	0.001	0.01	0.1	0.10	1.0	0.1	0.00	2	1.0	<0.2
1180001	Soil Pulp	10	0.00	1112	0.000	0	1112	0.001	0.12	0.1	0.11	1.0	0.12	0.00	0	0.1	<0.2
1180000	Soil Pulp	10	0.00	0.12	0.010	1	1.11	0.001	0.00	0.1	0.10	1.0	0.1	0.00	2	2.11	<0.2
1180110	Soil Pulp	11	0.00	0.01	0.001	1	0.01	0.000	0.01	0.1	0.10	1.0	0.1	0.00	2	2.11	<0.2
1180110	Soil Pulp	20	0.00	1000	0.000	2	1.02	0.000	0.00	0.1	1.01	1.0	0.12	0.11	0	0.0	<0.2
1180111	Soil Pulp	11	0.11	2100	0.000	2	0.01	0.000	0.00	0.1	0.00	2.11	0.12	0.00	2	0.1	<0.2
1180110	Soil Pulp	00	0.05	0.00	0.000	1	0.01	0.001	0.05	0.1	0.10	1.0	0.1	0.05	0	1.1	<0.2
1180449	Soil Pulp	15	0.26	974	0.005	1	0.72	0.004	0.04	<0.1	0.17	1.8	<0.1	<0.05	2	1.3	<0.2
1180100	Soil Pulp	00	0.00	100	0.000	1	1.01	0.000	0.00	0.1	0.00	0.0	0.00	0.00	0	0.0	<0.2
1180001	Soil Pulp	00	0.00	0.00	0.001	1	0.10	0.000	0.01	0.1	0.10	0.1	0.0	0.00	0	0.1	<0.2
1180000	Soil Pulp	10	0.11	1000	0.000	0	1.00	0.000	0.01	0.1	0.00	0.0	0.1	0.00	0	0.0	<0.2
1180000	Soil Pulp	10	0.01	0.00	0.000	0	1.00	0.001	0.00	0.1	0.00	0.1	0.0	0.00	0	0.0	<0.2
1180000	Soil Pulp	01	0.10	0.00	0.001	1	1.01	0.000	0.00	0.1	0.00	0.1	0.1	0.10	0	1.0	<0.2
1180100	Soil Pulp	00	0.10	100	0.000	0	0.00	0.000	0.00	0.1	0.00	10.0	0.1	0.01	0	1.0	<0.2
1180001	Soil Pulp	00	0.00	1101	0.000	0	1.00	0.000	0.00	0.1	0.01	1.0	0.0	0.00	0	0.0	<0.2
1180000	Soil Pulp	10	0.00	1001	0.000	1	1.00	0.000	0.00	0.1	0.00	0.0	0.0	0.00	0	0.0	<0.2
1180100	Soil Pulp	01	0.10	0.00	0.000	0	1.11	0.001	0.00	0.1	0.00	1.1	0.1	0.00	0	0.0	<0.2
1180100	Soil Pulp	01	0.10	1000	0.000	1	1.10	0.001	0.01	0.1	0.11	0.0	0.1	0.00	0	1.1	<0.2
1180100	Soil Pulp	11	0.00	0.10	0.000	1	0.00	0.000	0.01	0.1	0.11	1.0	0.0	0.00	0	0.0	<0.2
1180100	Soil Pulp	10	0.10	0.00	0.000	1	1.00	0.000	0.00	0.1	0.00	1.0	0.0	0.00	0	1.1	<0.2
1183182	Soil Pulp	16	0.53	128	0.008	2	1.03	0.004	0.10	<0.1	0.07	1.7	<0.1	<0.05	3	0.7	<0.2
1180000	Soil Pulp	15	0.10	100	0.001	1	0.00	0.000	0.00	0.1	0.01	0.0	0.0	0.00	1	0.0	<0.2

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



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Project: CCJV

Report Date: September 20, 2011

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QUALITY CONTROL REPORT

VAN11004071.1

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																					
1180339	Soil Pulp	3.9	113.6	11.0	258	0.5	56.5	21.0	896	2.90	15.4	3.1	2.7	54	1.7	2.9	0.2	31	0.12	0.069	8
REP 1180339	QC	4.3	122.8	12.1	272	0.5	60.2	22.9	970	3.17	16.6	3.4	3.0	59	1.7	3.2	0.2	32	0.13	0.079	9
Reference Materials																					
STD DS8	Standard	12.1	103.5	118.5	296	1.7	35.1	7.0	574	2.32	23.9	120.6	6.6	59	2.1	5.3	6.8	40	0.64	0.077	14
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
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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Report Date: September 20, 2011

Page: 1 of 1 **Part** 2

QUALITY CONTROL REPORT

VAN11004071.1

	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																	
1180339	Soil Pulp	16	0.29	912	0.010	1	1.14	0.004	0.05	<0.1	0.16	1.8	0.1	<0.05	2	2.7	<0.2
REP 1180339	QC	17	0.32	1053	0.011	2	1.24	0.004	0.05	0.1	0.18	2.0	0.1	0.06	2	3.0	<0.2
Reference Materials																	
STD DS8	Standard	108	0.57	254	0.105	3	0.83	0.077	0.40	2.8	0.18	1.8	5.3	0.15	4	4.6	4.7
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
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