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**ASSESSMENT REPORT**

describing

**GEOCHEMICAL SAMPLING, PROSPECTING AND GEOPHYSICAL SURVEYS**

at the

**BBB PROPERTY**

BBB 1-96	YD56331-YD56426
97-152	YD58527-YD58582
153-172	YD62853-YD62872
173-255	YD113413-YD113495

NTS 115I/03 and 04

Latitude 62°11'N; Longitude 137°31'W

located in the

Whitehorse Mining District  
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

**WOLVERINE MINERALS CORP.**  
and  
**STRATEGIC METALS LTD.**

by

H. Smith, B.Sc., P.Geo.

March 2012

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## **INTRODUCTION**

The BBB property was staked to cover creeks that yielded strongly anomalous gold values from historical stream sediment sampling. The property lies within the Dawson Range Gold Belt of western Yukon. Wolverine Minerals Corp. can earn a 100% interest in the property subject to an option agreement with Strategic Metals Ltd.

This report describes an exploration program that was conducted in summer 2011 by Archer, Cathro & Associates (1981) Limited on behalf of Wolverine. The 2011 work program comprised soil and sieve silt sampling, prospecting and a helicopter-borne magnetic and radiometric survey. The author participated in and directed this project and her Statement of Qualifications appears in Appendix I.

## **PROPERTY LOCATION, CLAIM DATA AND ACCESS**

The BBB property consists of 255 contiguous mineral claims, which are located on NTS map sheets 115I/03 and 04, and are centred at latitude 62°11' north and longitude 137°31' west (Figure 1). The property covers an area of approximately 5164 ha (52 sq km). The claims are registered with the Whitehorse Mining Recorder in the name of Archer Cathro, which holds them in trust for Strategic. Specifics concerning claim registration are tabulated below, while the locations of individual claims are shown on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
BBB 1-96	YD56331-YD56424	April 15, 2017
97-152	YD58527-YD58582	April 15, 2017
153-172	YD62853-YD62872	April 15, 2016
172-255	YD113413-YD113495	April 15, 2016

\* Expiry dates include 2011 work that has been filed for assessment credit.

In 2011, access to the property involved daily set outs and pick ups with a Bell 206B helicopter owned and operated by Capital Helicopters (1995) Inc. of Whitehorse, from a temporary base at Rockhaven Resources Ltd.'s Klaza property located near the former Mount Nansen Mine. The Klaza property lies about 13 km to the southeast of the BBB property and 70 km by road west of the community of Carmacks.

## **HISTORY AND PREVIOUS WORK**

In 1969, Archer Cathro performed regional exploration in the Dawson Range for the Dawson Range Joint Venture. During that program, 18 stream sediment samples were collected from what is now the BBB property. Those samples returned up to 10 ppm copper, up to 51 ppm lead and nil molybdenum (Cathro and Culbert, 1969).

In 1974, Archer Cathro again conducted regional exploration in the Dawson Range for the Klotassin Joint Venture (KJV). KJV was made up of Newconex Canadian Exploration Ltd., Marietta Resources International Ltd., and Molybdenum Corporation of America. Work performed included 1:50,000 scale reconnaissance-style prospecting, mapping and geochemical



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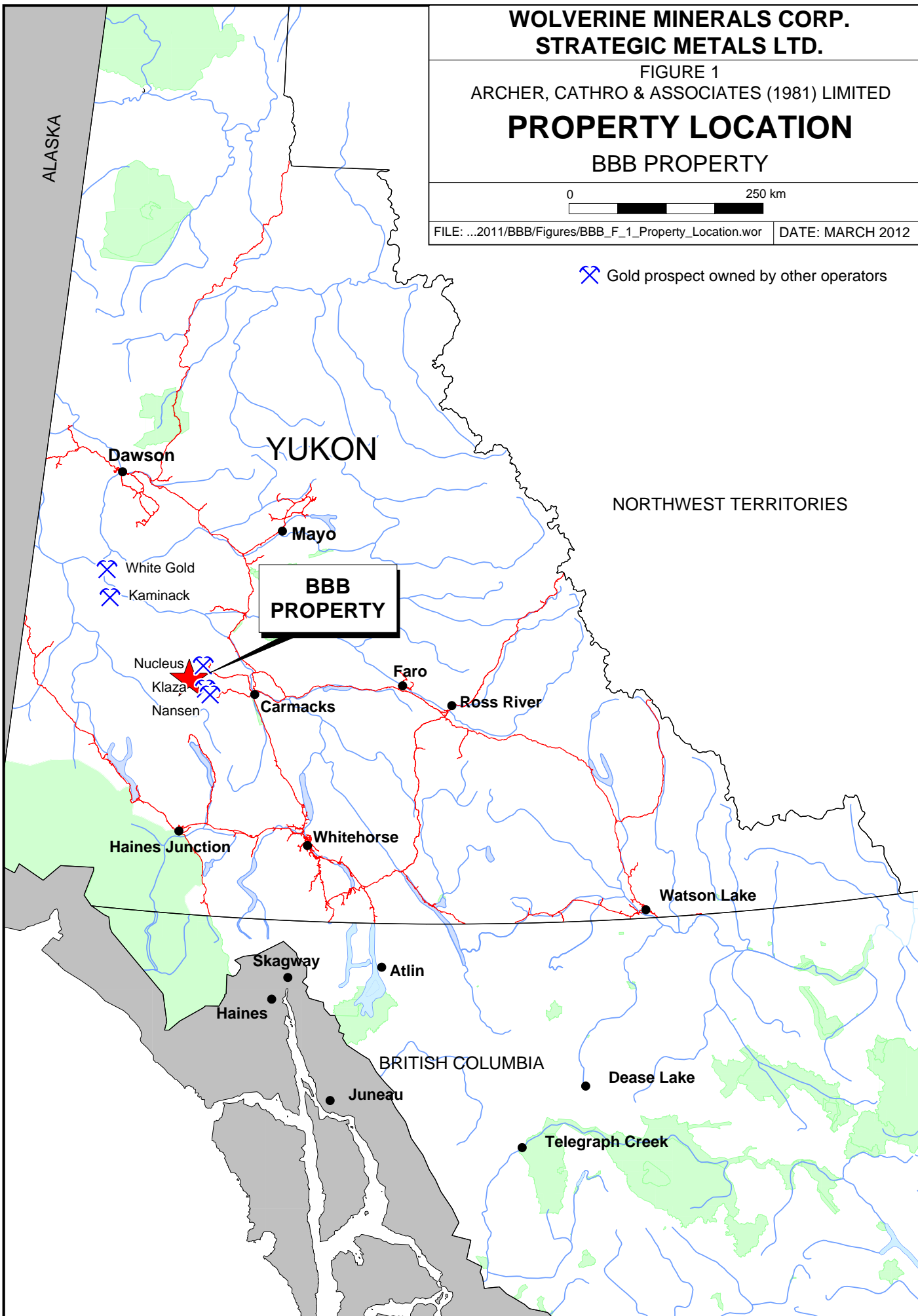
FIGURE 1  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

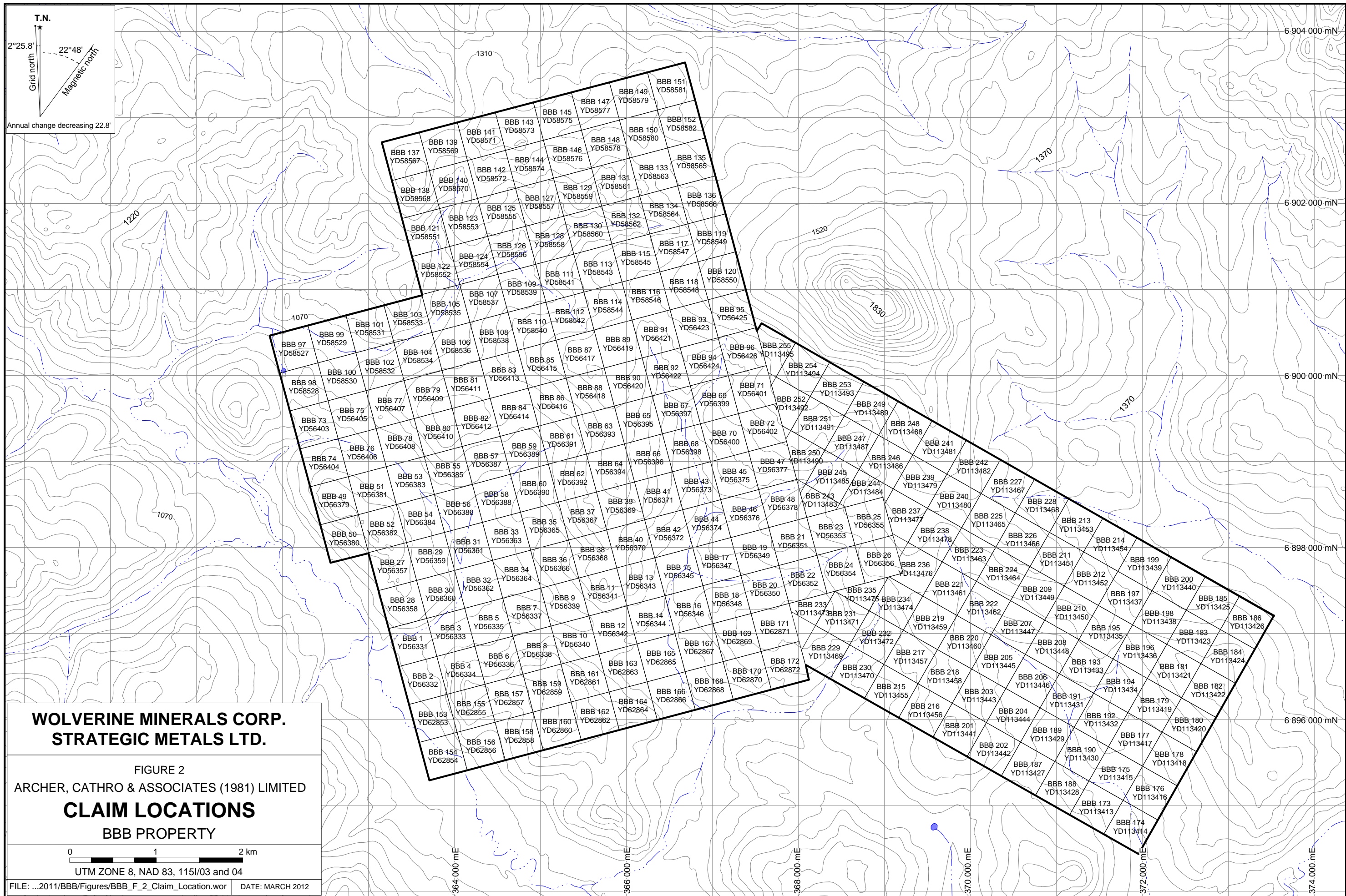
**PROPERTY LOCATION  
BBB PROPERTY**



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Gold prospect owned by other operators





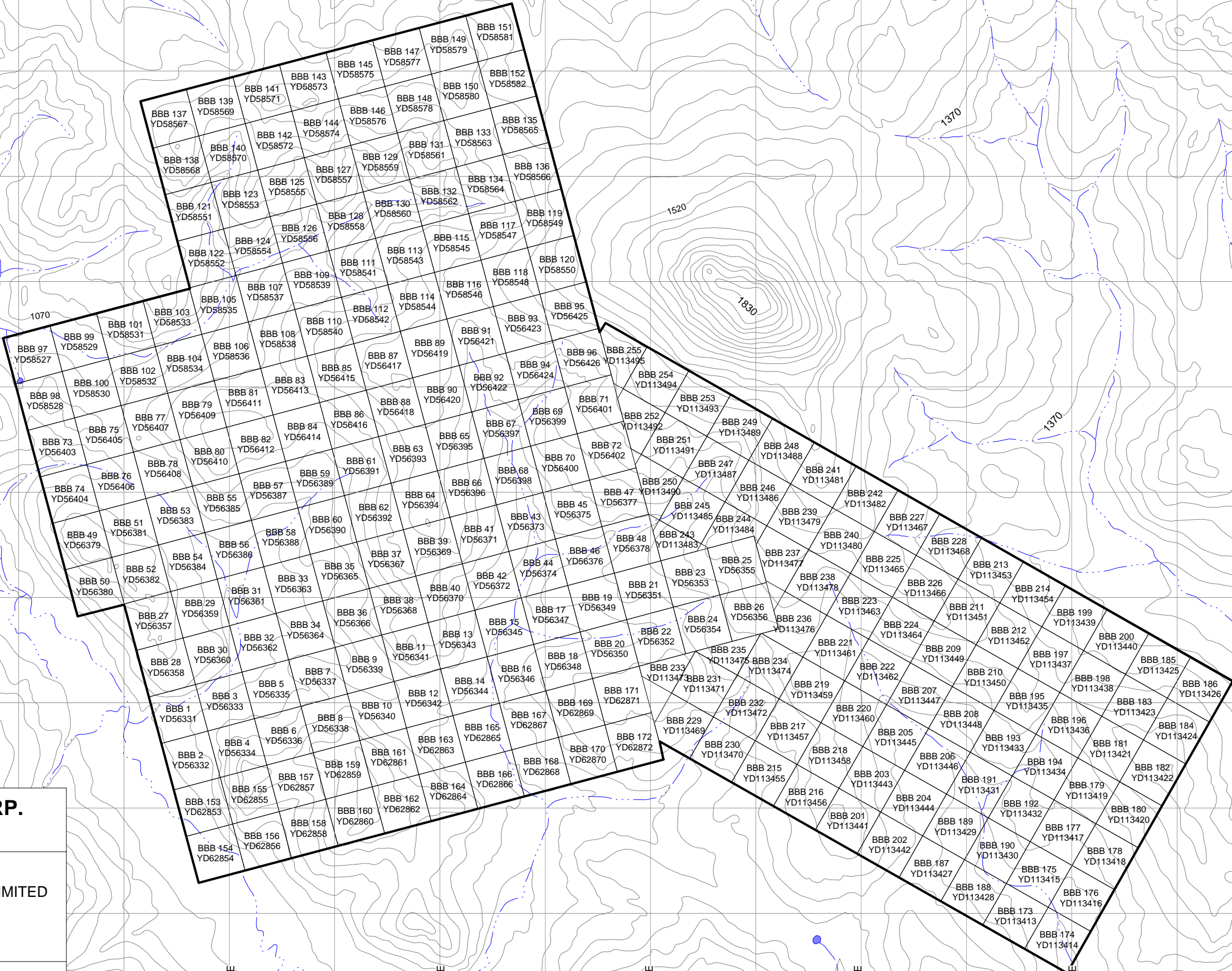
T.N.  
 Grid north  
 2°25.8'      22°48'  
 Magnetic north  
 Annual change decreasing 22.8'

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FIGURE 2  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**CLAIM LOCATIONS**  
 BBB PROPERTY

0      1      2 km  
 UTM ZONE 8, NAD 83, 11S/03 and 04

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sampling (Cathro, 1974). This work was conducted dominantly to the north of the current BBB property area and no samples were collected within the property boundary.

In 1975, Archer Cathro continued its exploration on behalf of KJV. Forty-four soil samples and three stream sediment samples were collected within the current BBB property boundary. These samples were analyzed for copper, molybdenum, lead and zinc. The samples returned weakly to moderately anomalous values for copper (up to 114 ppm), lead (up to 48 ppm) and zinc (up to 155 ppm). Molybdenum returned background values (Cathro, 1976).

In 1980, Archer Cathro did work in the Dawson Range as part of the NAT Joint Venture (NAT JV), which comprised Chevron Canada Limited and Armco Mineral Exploration Ltd. Part of the NAT JV program involved reanalyses of over 5000 previously collected geochemical sample splits for gold, silver, arsenic and lead. Twenty-one soil samples and 37 stream sediment samples were reanalyzed from the BBB property. Three stream sediment samples from one drainage returned between 110 to 150 ppb gold while samples from two other nearby drainages yielded 500 ppb and 100 ppb gold (Archer and Onasick, 1980).

In 1985, the Geological Survey of Canada (GSC) conducted a low-density stream sediment and water sampling survey on NTS map sheet 115I (Friske et al., 1985). Five samples were taken from two creeks draining the area of the BBB property. These samples returned only background values.

In 1986, the Toast claims were staked by Freegold Venture (Chevron Minerals Limited) to cover the source area of a gold-in-silt anomaly discovered by the GSC. The Toast claims lies in the southeastern part of the current BBB property. A small work project was performed, but no results were reported (Main, 1987).

In 1987, the Toast claims were optioned to Big Creek Joint Venture (BCJV), which comprised Big Creek Resources Ltd. and Rexford Minerals Ltd. A mapping, prospecting and geochemical sampling program was performed by Archer Cathro on behalf of BCJV. Twenty-five stream sediment samples were collected; the best of which returned 55 ppb gold. Thirty-seven soil samples were also collected at 100 m spacing with two of those samples yielding 25 ppb and 20 ppb gold. The program was unable to reproduce the anomaly discovered by the GSC, and no further work was recommended (Main, 1987). According to Mann and Slack (1996) a sample of mineralized float collected from the Toast property by a private company assayed 27.2 g/t gold and a heavy mineral concentrate yielded 14,000 ppb gold.

In 1987, independent prospector E. Curley staked the Jam claims to cover a stream sediment gold anomaly in an area located on the southeastern edge of the current BBB property. Soil sampling at approximately 90 m spacing failed to identify a source for the anomaly (Curley, 1987).

In 2010, Strategic staked the BBB 1-16 claims and performed widely spaced soil and silt sampling on the property. A total of 59 soil and 72 silt samples were collected for analysis. Soil sampling yielded weakly to moderately anomalous gold (22 ppb) and copper (88 ppm) values

with low values for other elements, while the most anomalous silt samples returned peak values of 43 ppb gold, 84 ppm arsenic, 158 ppm copper, 192 ppm zinc and 16 ppm lead. In September 2010, Strategic optioned the property to Wolverine, which expanded the claim block to adjoin the Klaza property and cover the probable source area of the Toast anomaly (Chung, 2011).

### **GEOMORPHOLOGY AND CLIMATE**

The BBB property is situated in the southern part of the Dawson Range and is drained by creeks that flow into the Klaza River, which is part of the Yukon River watershed. The property was glaciated during the pre-Reid glacial advance from Pliocene to early Pleistocene (Duk-Rodkin, 1999). Ice movement in this area arced from southeast to southwest following the same orientation as the Klaza River.

The property covers a system of ridges at the headwaters of several creeks draining southwest into the Klaza River. Elevation ranges from approximately 1000 m at the Klaza River valley to 1460 m on the flank of Tritop Peak on the eastern boundary. Outcrop is mostly limited to ridge tops and locally steep creek gullies. In the northern part of the property glacial till, loess, colluvium and alluvial material up to four metres thick is up exposed in large slumps adjacent to the main creek that flows into the Klaza River.

Treeline in the area is at approximately 1400 m above sea level. Lower elevations are characterized by buckbrush, moss and spruce forests. Creeks on the property are generally flanked by marshy areas that flood during spring runoff. Moderate elevations are vegetated with scattered spruce and poplar trees with an understory of buckbrush and grass. Higher elevations comprise a mat of moss and grass with rare low shrubs.

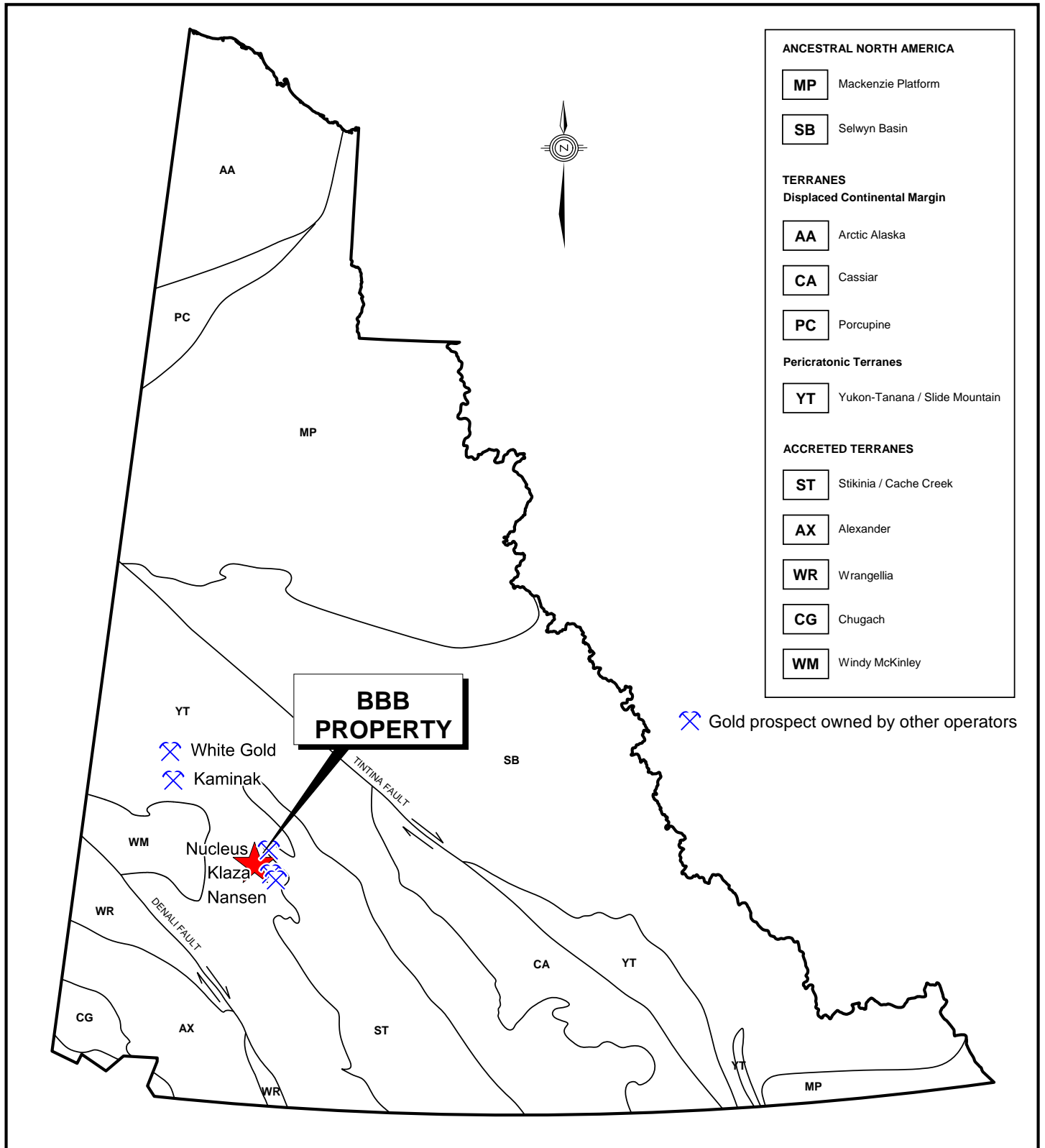
The climate in the BBB area is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. Although summers are relatively mild, arctic cold fronts often cover the area and snowfall can occur in any month. The property is mostly snow free from late May to late September.

### **REGIONAL GEOLOGY**

The BBB property is located within the Yukon-Tanana Terrane (YTT) as shown on Figure 3. The YTT represents a continental arc that developed along the ancient Pacific margin of North America from late Devonian to Permian.

In 1975, KJV performed 1:50,000 scale geological mapping of Regional Area 'C', which includes a portion of the BBB property (Cathro, 1976). In 1984, the GSC published a geological map of the Carmacks area (NTS map sheet 115I) at 1:250,000 scale (Tempelman-Kluit, 1984). In 1987, Carlson published 1:30,000 scale geological maps of the Mount Nansen (115I/03) and Stoddart Creek (115I/06) areas. Gordey and Makepeace (2003) later completed a Yukon-wide geological compilation, which updated the lithological unit names in the BBB area.





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FIGURE 3  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**TECTONIC SETTING**  
BBB PROPERTY

0 200 km

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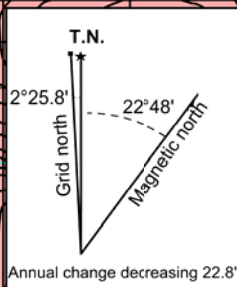
FIGURE 4  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**REGIONAL GEOLOGY**  
BBB PROPERTY

0 2 4 km

UTM ZONE 8, NAD 83, 115I/03 and 04

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**LATE CRETACEOUS TO TERTIARY**

**LKfP** Prospector Mountain Suite  
Grey, fine to coarse grained quartz-feldspar porphyry dykes

**MIDDLE CRETACEOUS**

**mKN** Mount Nansen Group  
massive aphyric or feldspar-phyric andesite to dacite flows, breccia and tuff; massive, heterolithic, quartz- and feldspar-phyric, felsic lapilli tuff; flow-banded quartz-phyric rhyolite and quartz-feldspar porphyry plugs, dykes, sills and breccia

**mKgW** Whitehorse Suite  
g. biotite-hornblende granodiorite, hornblende quartz diorite and hornblende diorite; leucocratic, biotite hornblende granodiorite locally with sparse grey and pink potassium feldspar phenocrysts.

**LATE DEVONIAN TO MISSISSIPPIAN**

**DMgPW** Pelly Gneiss Suite (Southwest)  
g. foliated medium grained, homogeneous granite gneiss to biotite or hornblende granodiorite gneiss; massive to strongly foliated dioritic to granodioritic gneiss; includes interfoliated amphibolite, quartz-mica schist and phyllite.

**PROTEROZOIC AND PALEOZOIC**

**PPN1** Nisling  
Dark grey to brown, biotite-muscovite-quartz-feldspar schist, quartzite and micaceous quartzite, garnetiferous; felsic chlorite-biotite orthogneiss; rare amphibolite; minor two-mica gneiss and hornblende diorite gneiss.

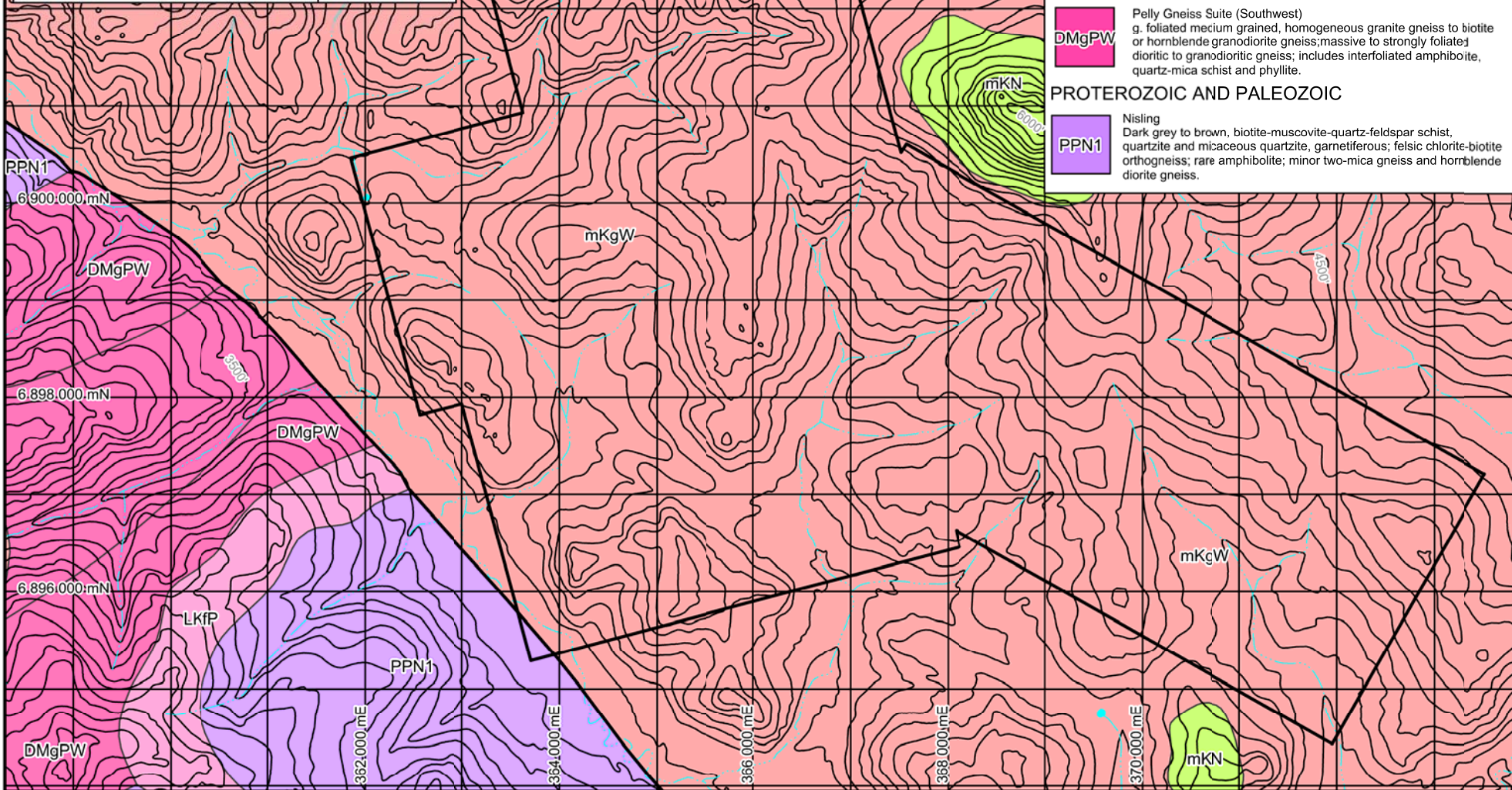


Figure 4 illustrates geology as compiled by Gordey and Makepeace (2003). The main lithological units are described in the Table I.

**Table I – Lithological Units (after Gordey and Makepeace, 2003)**

Unit Name	Age	Map Name	Description
Prospector Mountain Suite	Late Cretaceous to Tertiary	LKfP	Grey, fine to coarse grained, quartz-feldspar porphyry dykes.
Mount Nansen Group	Mid-Cretaceous	mKN	Massive aphyric or feldspar-phyric andesite to dacite flows, breccia and tuff; massive, heterolithic, quartz- and feldspar-phyric, felsic lapilli tuff; flow-banded quartz-phyric rhyolite and quartz-feldspar porphyry plugs, dykes, sills, and breccia.
Whitehorse Suite	Mid-Cretaceous	mKgW	Grey, medium to coarse grained, generally equigranular granitic rocks of intermediate composition. Biotite-hornblende granodiorite, hornblende-quartz diorite and hornblende diorite; leucocratic, biotite-hornblende granodiorite, locally with sparse grey and pink potassium feldspar phenocrysts.
Pelly Gneiss Suite – Southwest	Late Devonian to Mississippian	DMgPW	Foliated medium grained, homogeneous granite gneiss to biotite or hornblende granodiorite gneiss. Massive to strongly foliated dioritic to granodioritic gneiss; includes interfoliated amphibolite, quartz-mica schist and phyllite.
Nisling Assemblage	Late Proterozoic and Paleozoic	PPN1	Dark grey to brown, biotite-muscovite-quartz-feldspar schist, quartzite and micaceous quartzite, garnetiferous; felsic chlorite-biotite orthogneiss; rare amphibolite; minor two-mica gneiss and hornblende diorite gneiss.

### **PROPERTY GEOLOGY**

No detailed geological mapping has been done on the BBB property due to the limited amount of bedrock exposure. Based on published data discussed in the previous section, the property is underlain by Whitehorse Suite biotite-hornblende granodiorite and hornblende diorite. Two small (less than 1.5 km across) areas immediately east of the property are mapped as Mount Nansen Group andesite to dacite flows and porphyry plugs, dykes and sills.

A large fault was inferred by KJV to coincide with the Klaza River to the southwest of the property. The age and sense of motion of this fault are not known. On the west side of this fault lies a conformable package of Nisling Assemblage and Pelly Gneiss Suite, which have been intruded by Prospector Mountain Suite dykes.

### **REGIONAL MINERALIZATION**

There are numerous mineral deposits in the Dawson Range that are associated with late stage quartz-feldspar porphyry dykes. One example of this style of mineralization occurs at the nearby Klaza property, where a series of narrow, discontinuous quartz-feldspar porphyry dykes intrude Whitehorse Suite granodiorite (Turner, 2011).

At the Klaza property, soil geochemistry and excavator trenching have led to the discovery of a series of northwest (300°) trending gold-silver vein and breccia zones. Exploration programs in 2010 and 2011 comprised extensive excavator trenching, diamond drilling and helicopter-borne magnetic and radiometric surveys. Historical and recent work at the Klaza property has identified four mineralized zones (Klaza, BYG, BRX and HERC).

The Klaza Zone is the main mineralized zone. It has been cut in a number of excavator trenches. Highlights from this work include: 2.33 g/t gold and 34.9 g/t silver across 16.35 m (TR-10-09); 2.87 g/t gold and 42 g/t silver across 20.10 m (TR-10-10); and, 7.17 g/t gold and 16 g/t silver across 7.11 m (TR-11-26).

Diamond drilling testing the Klaza Zone at depth also intersected significant mineralization including: 2.29 g/t gold and 36 g/t silver over 19.75 m (DDH-10-03); 7.20 g/t gold and 260 g/t silver over 15.30 m (DDH-10-07); 1.04 g/t gold and 15 g/t silver over 33.30 m (DDH-10-10); 1.76 g/t gold and 26 g/t silver over 26.21 m (DDH-11-27); and 5.03 g/t gold and 14 g/t silver over 12.51 m (DDH-11-56).

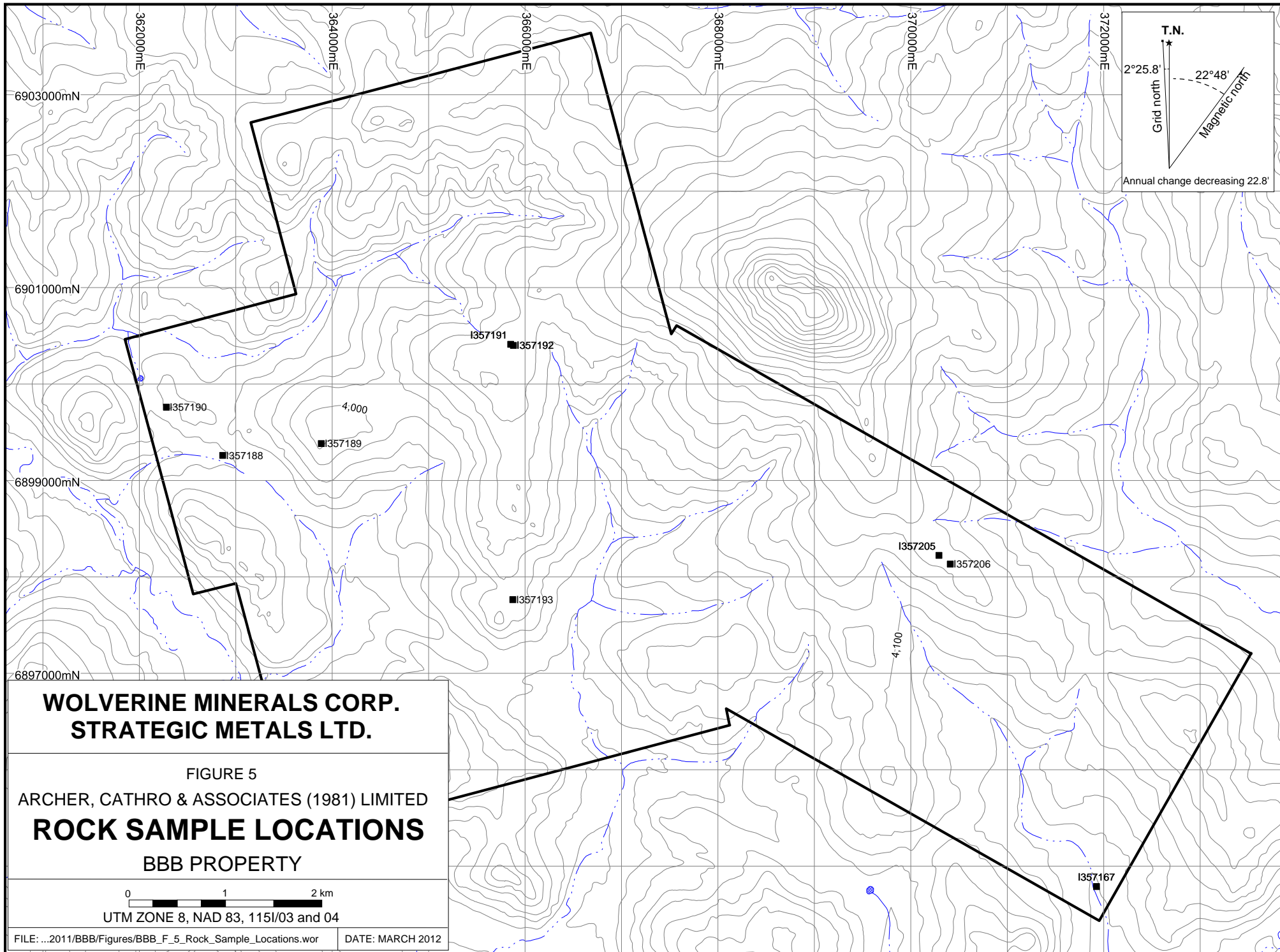
Helicopter-borne magnetic and radiometric geophysical surveys flown over the Klaza property in 2010 identified a series of northwest-trending magnetic low anomalies that correlate with zones of vein and breccia style mineralization. All four mineralized zones correspond with the magnetic low features. Untested magnetic lows are high priority exploration targets (Turner, 2011).

### **MINERALIZATION**

In 2011, nine specimen rock samples were collected from the BBB property. Sample locations are plotted on Figure 5, while results for silver and copper are illustrated thematically on Figures 6 and 7. Rock Sample Descriptions are provided in Appendix II and Certificates of Analysis are given in Appendix III. Rock sample sites on the property were marked with orange flagging tape labelled with the sample number. The location of each sample was determined using a handheld GPS unit. Sample preparation and multi-element analyses for rock samples were carried out at ALS Chemex in Whitehorse, Yukon and North Vancouver, B.C. Each sample was dried, fine crushed to better than 70% passing -2mm and a 250 g split was pulverized to better than 85% passing 75 micron. The fine fraction was then analyzed for gold using fire assay followed by inductively coupled plasma-atomic emission spectroscopy analysis (Au-AA24) and for 35 other elements using an aqua regia digestion and inductively coupled plasma-atomic emission spectroscopy analysis (ME-ICP41).

Rock samples primarily comprised fresh to weakly potassic altered granodiorite with up to 2% boxwork limonite, and fresh hornblende diorite. Results from this sampling generally returned low values for gold, arsenic, silver and copper. The one exception is a sample that yielded moderately to strongly anomalous values for silver (63.5 ppm) and copper (315 ppm). This sample was taken from a creek cut on the western side of the property.

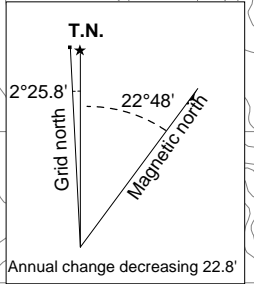
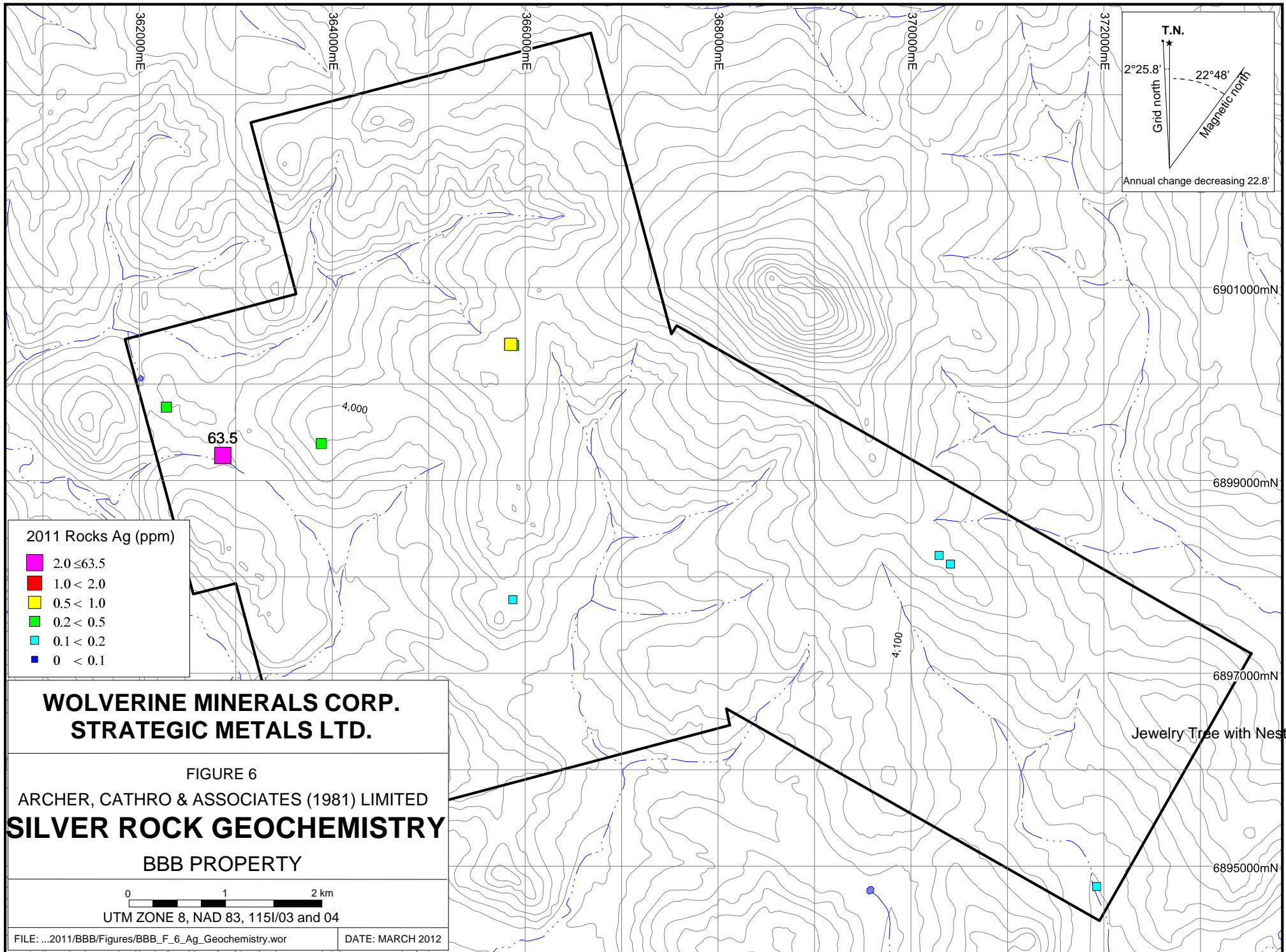




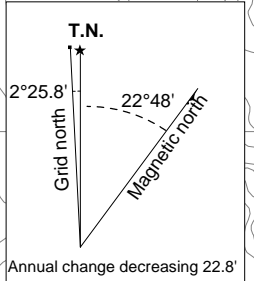
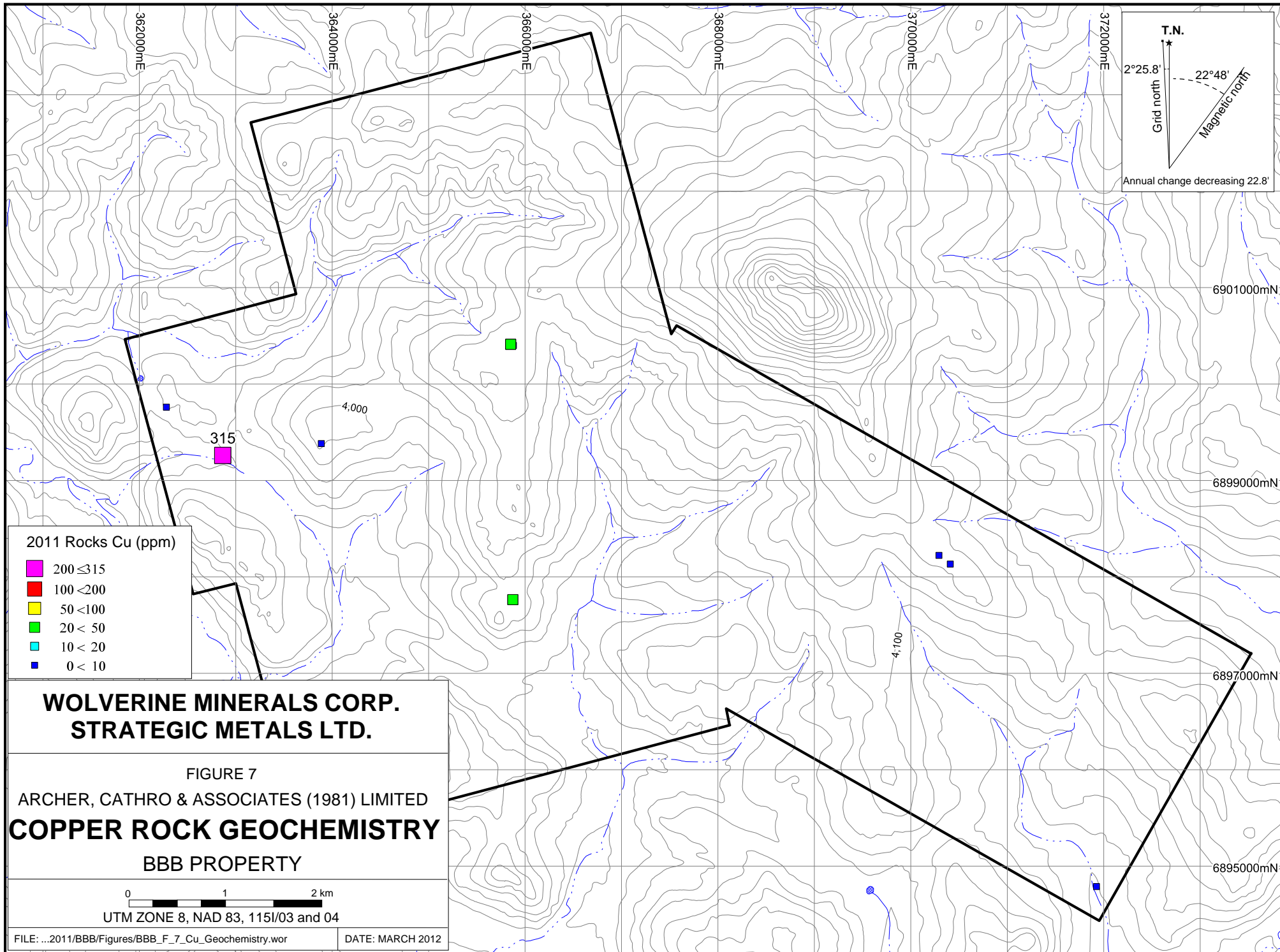
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FIGURE 5  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ROCK SAMPLE LOCATIONS**  
BBB PROPERTY

0 1 2 km  
UTM ZONE 8, NAD 83, 115I/03 and 04



Jewelry Tree with Nest

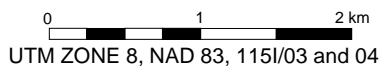


2011 Rocks Cu (ppm)

200 ≤ 315
100 < 200
50 < 100
20 < 50
10 < 20
0 < 10

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FIGURE 7  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**COPPER ROCK GEOCHEMISTRY**  
 BBB PROPERTY



UTM ZONE 8, NAD 83, 115I/03 and 04

## SOIL AND SIEVE SILT GEOCHEMISTRY

A total of 1846 soil samples and 52 sieve silt samples were collected in summer 2011. Sample locations are plotted on Figure 8, while results for gold, arsenic, silver and copper are illustrated on Figures 9 to 12, respectively. Certificates of Analysis are provided in Appendix III.

Four soil sample grids (Grids A to D) and numerous contour soil sample lines were completed during the 2011 program. Grid soil samples were collected at 50 by 50 m, 50 by 100 m or 50 by 200 m spacings while contour soil samples were taken at 100 m spacings. The samples were taken from auger holes at depths of 40 to 80 cm below surface. They were placed into individually pre-numbered Kraft paper bags. These samples were sent to ALS Chemex in Whitehorse, Yukon where they were dried, screened to -180 microns and dissolved in aqua regia solution before being shipped to ALS Chemex in North Vancouver, British Columbia (B.C.) where they were analyzed for 35 elements using the inductively coupled plasma with atomic emission spectroscopy technique (ME-ICP41). An additional 30 g charge was further analysed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-AA21).

W.R. (Bill) Gilmour from Discovery Consultants of Vernon, B.C. provided instructions and equipment for collecting the sieve silt samples. The crew collected up to three kilograms of material from specific locations based on flow rates and geomorphological characteristics. Each sample was placed into a large heavy-plastic bag and then double-bagged for safe transport. Sample sites are marked with aluminum tags inscribed with sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. All sample locations were recorded using hand-held GPS units.

The sieve silt samples were sent to Acme Labs in Vancouver, B.C. where they were dried and sieved to -80 mesh. Special instructions were given to sieve entire sample weight, not only 0.5 kg, which is standard practice at Acme. Once sieved, the sample was divided using a micro splitter to produce a 30 g sub-sample that was analyzed by aqua regia digestion and ultra-trace inductively coupled plasma-mass spectrometry.

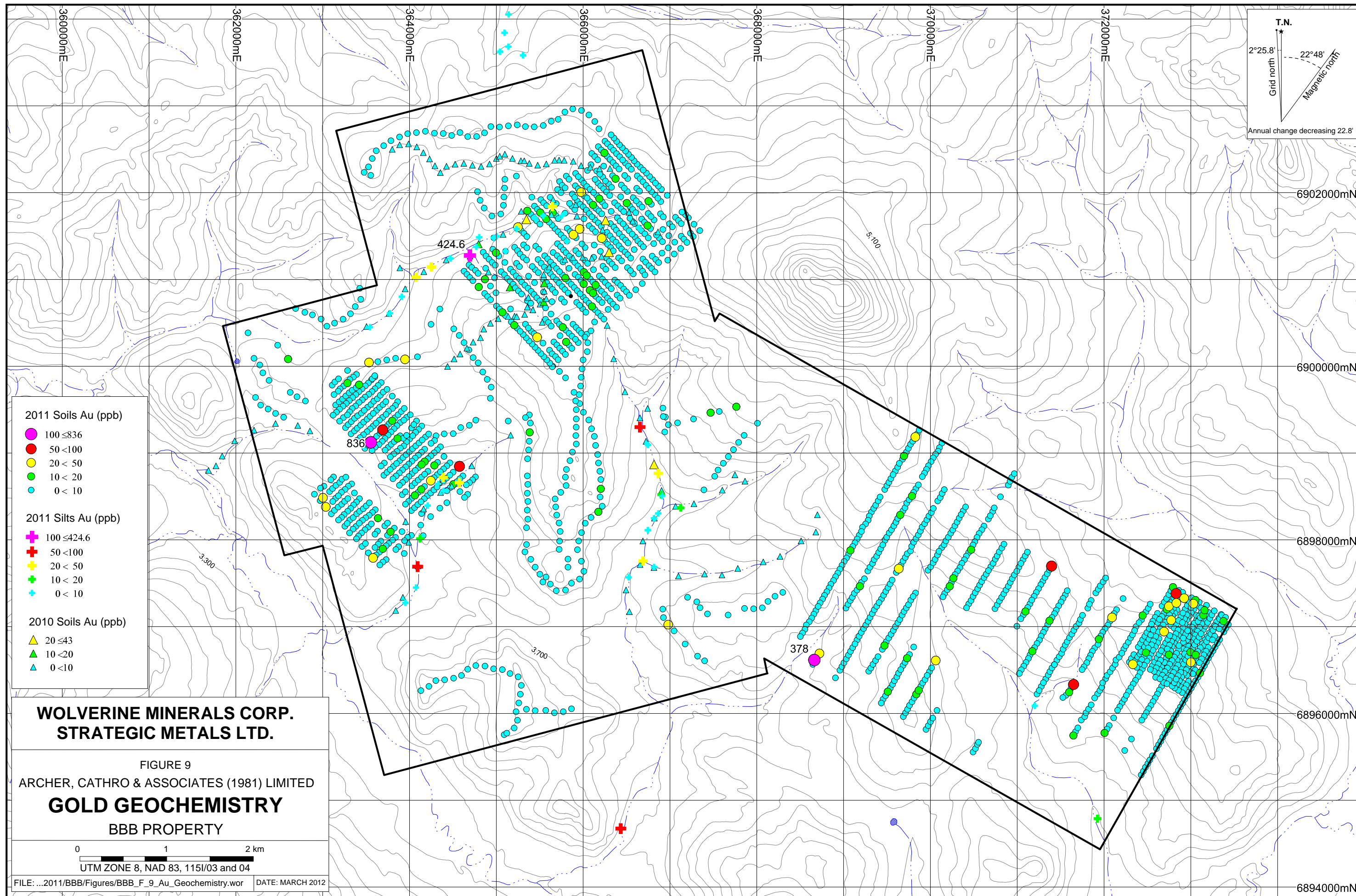
Soil sampling was inhibited by thick overburden in valley bottoms and by permafrost on north-facing slopes. Table II below shows thresholds used to describe the geochemical sampling results.

**Table II – Soil Geochemical Thresholds**

Element	Weakly Anomalous	Moderately Anomalous	Strongly Anomalous	Very Strongly Anomalous
Gold (ppb)	10 to 20	20 to 50	50 to 100	100 to 836
Arsenic (ppm)	10 to 50	50 to 82	-	-
Silver (ppm)	0.1 to 0.5	0.5 to 2.0	2.0 to 5.0	5.0 to 32.9
Copper (ppm)	10 to 50	50 to 100	100 to 186	-

Overall, the geochemical response from soil sampling on the BBB property was subdued. Geochemical anomalies on the property are confined to single point anomalies or small clusters





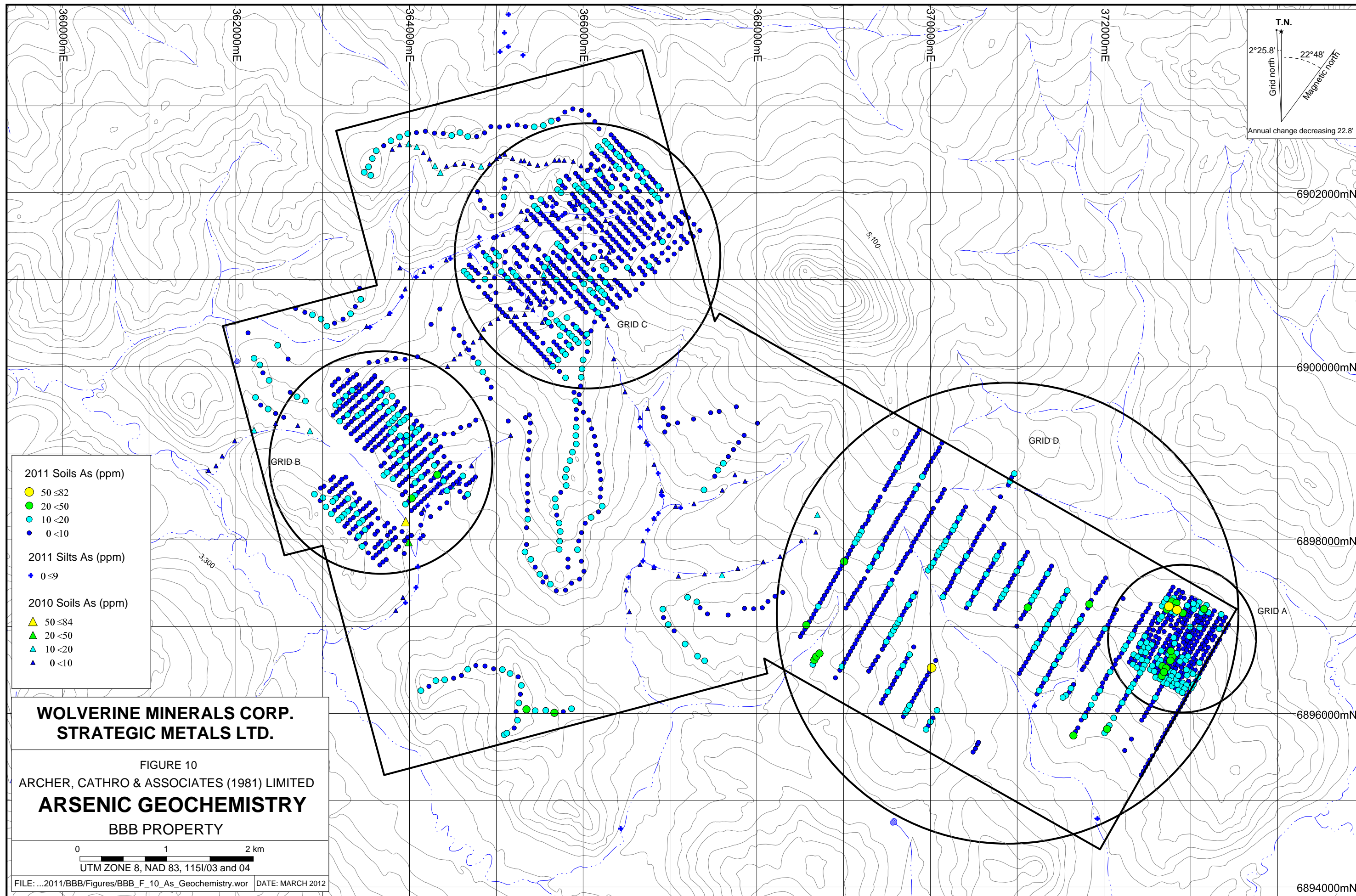
- 2011 Soils Au (ppb)**
- 100 ≤ 836
  - 50 < 100
  - 20 < 50
  - 10 < 20
  - 0 < 10
- 2011 Silts Au (ppb)**
- ✚ 100 ≤ 424.6
  - ✚ 50 < 100
  - ✚ 20 < 50
  - ✚ 10 < 20
  - ✚ 0 < 10
- 2010 Soils Au (ppb)**
- ▲ 20 ≤ 43
  - ▲ 10 < 20
  - ▲ 0 < 10

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FIGURE 9  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**GOLD GEOCHEMISTRY**  
BBB PROPERTY

0 1 2 km  
UTM ZONE 8, NAD 83, 115I/03 and 04  
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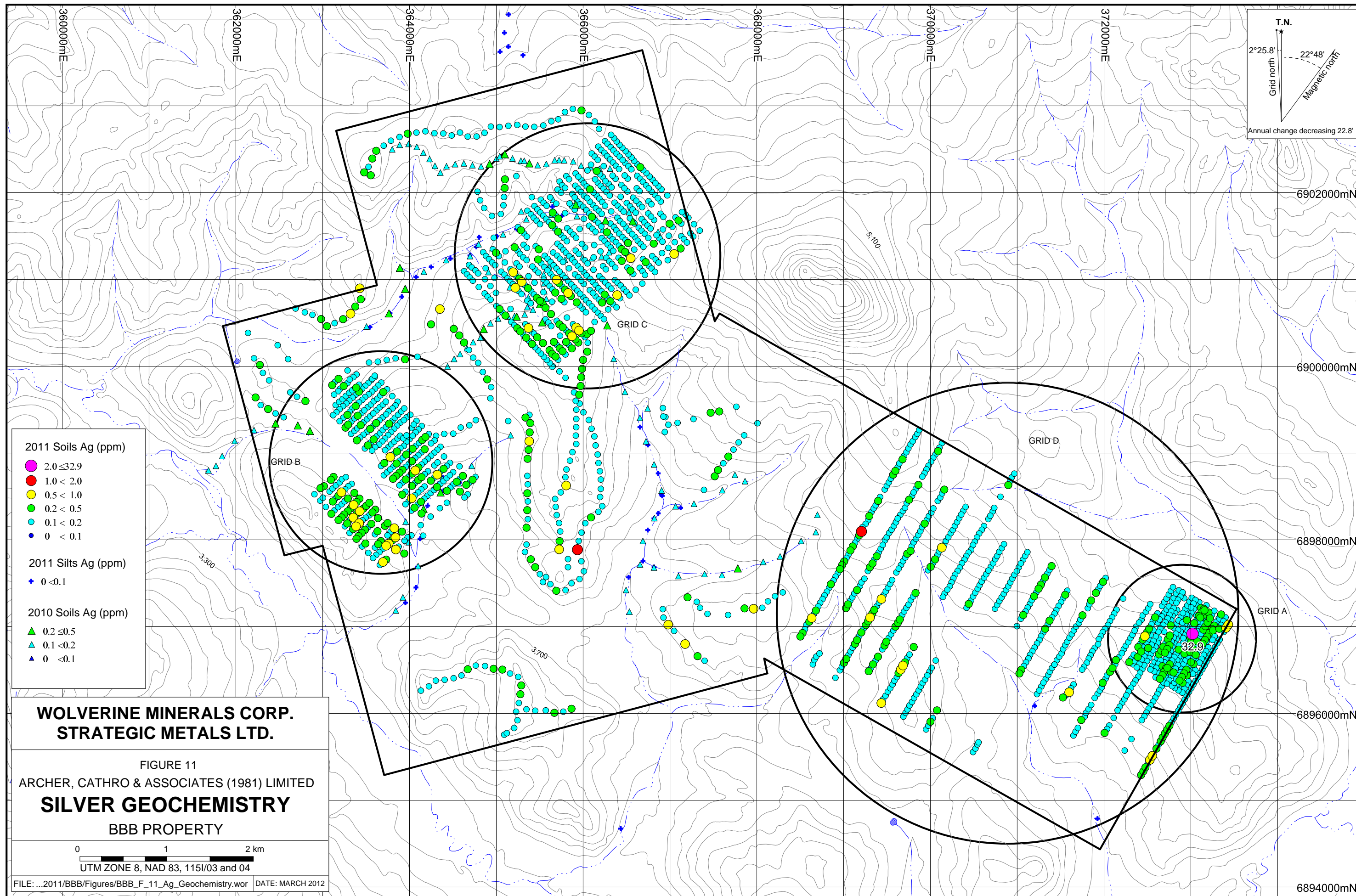
- 2011 Soils As (ppm)
- 50 ≤ 82
  - 20 < 50
  - 10 < 20
  - 0 < 10
- 2011 Silts As (ppm)
- ▲ 0 ≤ 9
- 2010 Soils As (ppm)
- ▲ 50 ≤ 84
  - ▲ 20 < 50
  - ▲ 10 < 20
  - ▲ 0 < 10

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FIGURE 10  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ARSENIC GEOCHEMISTRY**  
BBB PROPERTY

0 1 2 km  
UTM ZONE 8, NAD 83, 115I/03 and 04





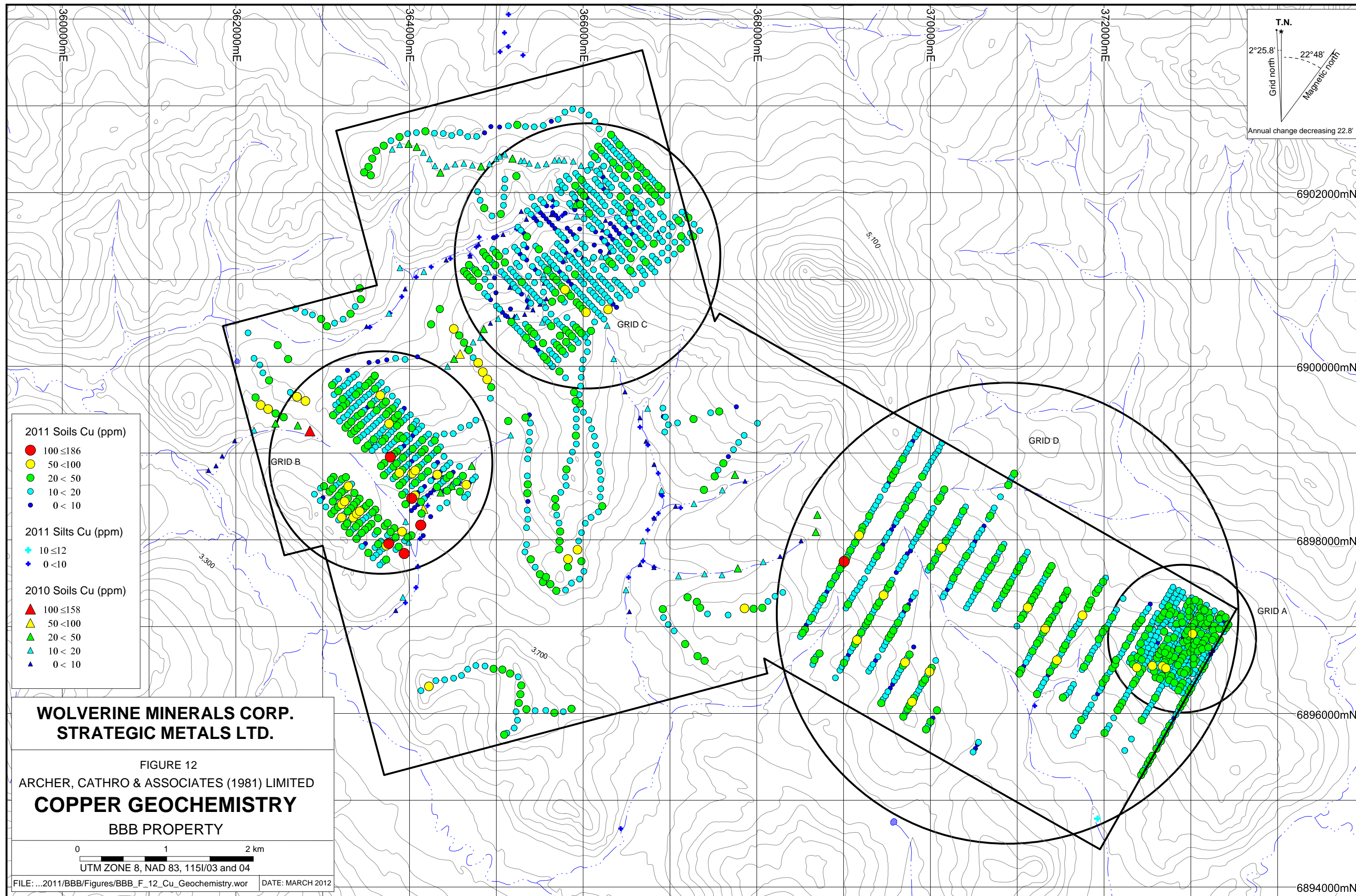
- 2011 Soils Ag (ppm)**
- 2.0 ≤ 32.9
  - 1.0 < 2.0
  - 0.5 < 1.0
  - 0.2 < 0.5
  - 0.1 < 0.2
  - 0 < 0.1
- 2011 Silts Ag (ppm)**
- ★ 0 < 0.1
- 2010 Soils Ag (ppm)**
- ▲ 0.2 ≤ 0.5
  - ▲ 0.1 < 0.2
  - ▲ 0 < 0.1

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FIGURE 11  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**SILVER GEOCHEMISTRY**  
BBB PROPERTY

0 1 2 km  
UTM ZONE 8, NAD 83, 115I/03 and 04







of anomalous samples. Arsenic values across the property were low, with the exception of two samples within Grid A.

Grid A lies near the historical Toast showing and comprises a tightly spaced grid in the southeastern part of the property. It lies within a larger grid (Grid D). Grid A hosts a small cluster of moderately anomalous gold values, which are well correlated with the elevated arsenic (58 and 69 ppm) numbers. It also hosts the strongest silver-in-soil value (32.9 ppm); however, the remaining samples within the grid were background to weakly anomalous for silver. Copper values within Grid A are weakly to moderately anomalous and do not appear to correlate with silver or gold.

Grid B lies in the western part of the property. It hosts isolated moderately to strongly anomalous gold (up to 836 ppb), silver (up to 1.0 ppm) and copper (up to 186 ppm) values. There is good correlation between silver and copper values, but not gold.

Grid C is approximately centred on Tritop Peak in the northern part of the property. Samples collected from this grid yielded background to moderately anomalous values for gold, silver, copper. Arsenic values were low.

Grid D is a large grid in the southeastern part of the property and it was sampled at 50 by 200 m intervals. Samples from this grid returned isolated moderately to strongly anomalous gold (378 ppb), silver (1.6 ppm) and copper (104 ppm) values.

Contour soil samples returned a few scattered, weakly to moderately anomalous values for gold (up to 22 ppb), silver (up to 1.1 ppm) and copper (up to 88 ppm). Values were low for all other metals.

Sieve silt samples were taken along three main drainages in the western and central parts of the property. The most anomalous sieve silt samples were collected from creeks draining Grids B and C. Samples taken from creeks draining Grid C yielded 424.6 ppb gold and 53.4 ppb gold while a sample draining Grid B returned 51 ppb gold.

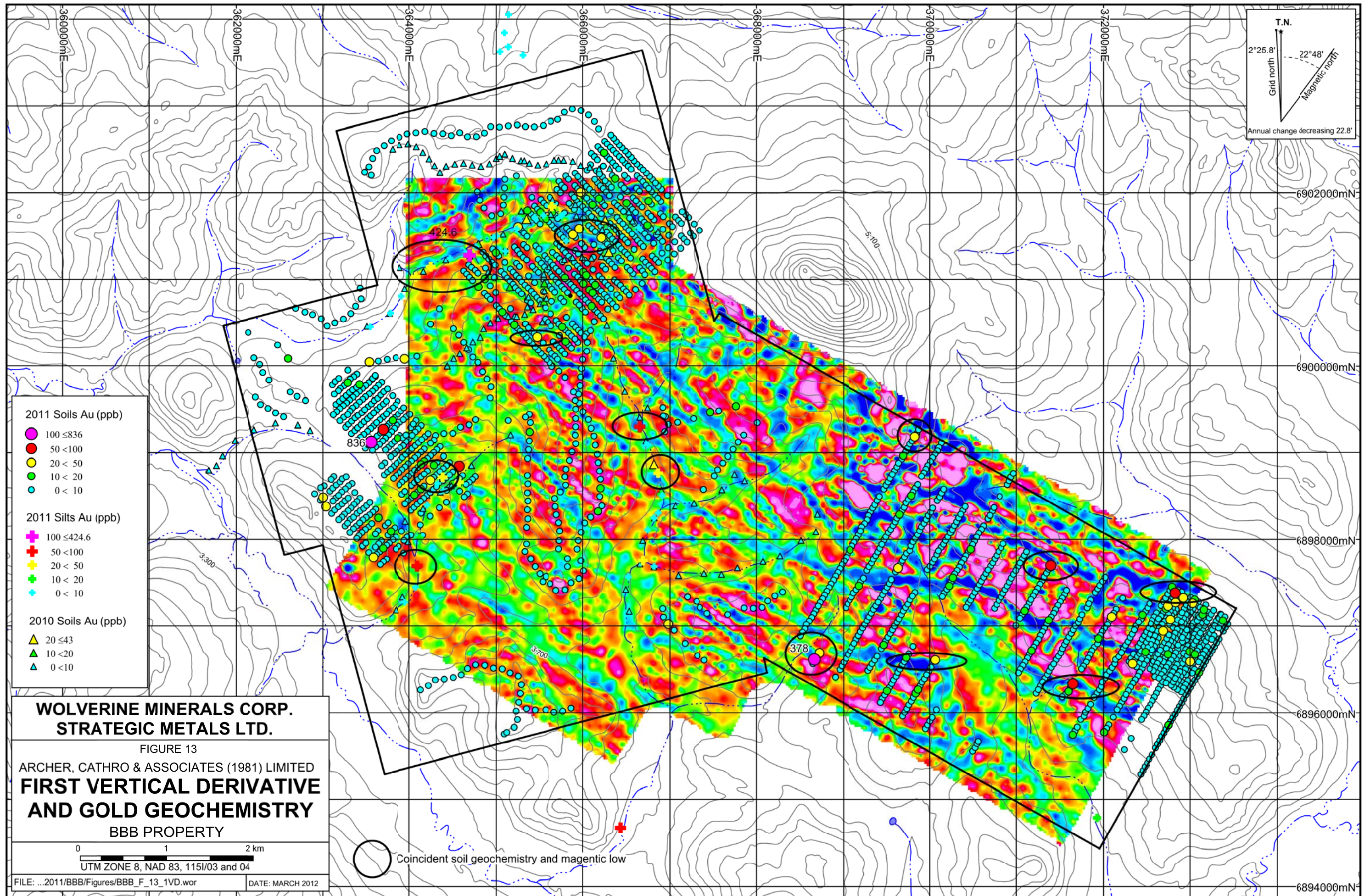
No prospecting has been done to follow up anomalous geochemical values.

## **GEOPHYSICS**

In July 2011, a 396 line kilometre helicopter-borne magnetic and radiometric survey was completed by New-Sense Geophysics Ltd. over most of the property. The survey area was selected based, in part, on proximity to the Klaza property – with the intention of determining if the system of linear magnetic lows associated with mineralization at Klaza extends onto the BBB property. Condor Consulting Inc. was commissioned to interpret the data. Appendix IV contains reports by New-Sense, which describe equipment, and procedures that were used during the surveys, and by Condor, which provides an interpretation of the results.

A first vertical derivative evaluation of the magnetic data delineated a number of northwest-trending magnetic features (Figure 13). The magnetic lows are akin to the magnetic anomalies





- 2011 Soils Au (ppb)**
- 100 ≤ 836
  - 50 < 100
  - 20 < 50
  - 10 < 20
  - 0 < 10
- 2011 Silts Au (ppb)**
- ✚ 100 ≤ 424.6
  - ✚ 50 < 100
  - ✚ 20 < 50
  - ✚ 10 < 20
  - ✚ 0 < 10
- 2010 Soils Au (ppb)**
- ▲ 20 ≤ 43
  - ▲ 10 < 20
  - ▲ 0 < 10

**WOLVERINE MINERALS CORP.  
STRATEGIC METALS LTD.**

FIGURE 13  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**FIRST VERTICAL DERIVATIVE  
AND GOLD GEOCHEMISTRY**  
BBB PROPERTY

0 1 2 km  
UTM ZONE 8, NAD 83, 1151/03 and 04  
FILE: ...2011/BBB/Figures/BBB\_F\_13\_1VD.wor DATE: MARCH 2012

○ Coincident soil geochemistry and magnetic low



that coincide with mineralization at the Klaza property. Due to thick overburden and vegetation cover the relationship between the magnetic features and the underlying geology (Whitehorse Suite granodiorite, and younger porphyry dykes (?)) is not known.

The linear magnetic lows show good correlation with several weakly to strongly anomalous geochemical values described in the Soil and Sieve Silt Geochemistry section (Figure 13).

### **DISCUSSION AND CONCLUSIONS**

Wolverine's 2011 exploration program on the BBB property successfully identified a number of prospective targets defined by coincident, anomalous geochemical and geophysical responses.

Due to frozen ground and thick colluvium, a large portion of the BBB property has not been adequately tested. In many areas hand-held augers were unable to penetrate beneath colluvial and alluvial material, and therefore much soil collected in 2010 and 2011 is only partially representative of the underlying geology. Considering this, the anomalous geochemical values returned on the property are significant.

Future work is warranted on the BBB property; however, conventional exploration techniques have proven to be relatively, and alternative techniques will have to be contemplated before commencing future work programs. One alternative would be to use a track-mounted reverse circulation drill to provide a quick, representative sample of deep soil or top of bedrock material. If used, reverse circulation drilling should focus on areas with coincident geophysical and geochemical anomalies – as shown with black circles on Figure 13.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



H. Smith, B.Sc., P.Geo.

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**APPENDIX I**  
**STATEMENT OF QUALIFICATIONS**

## STATEMENT OF QUALIFICATIONS

I, Heather Smith, geologist, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Squamish, British Columbia do hereby certify that:

1. I graduated from the University of British Columbia in 2006 with a B. Sc in Geological Sciences.
2. From 2004 to present, I have been actively engaged in mineral exploration in the Yukon Territory, British Columbia and Northwest Territories.
3. I am a Professional Geoscientist (P.Ge.) with the Association of Professional Engineers and Geoscientists of British Columbia (34689).
4. I have personally participated in and directed the fieldwork reported herein and have interpreted all data resulting from this work.



H. Smith, B.Sc., P.Ge.

**APPENDIX II**  
**ROCK SAMPLE DESCRIPTIONS**



**Rock Sample Descriptions**Project: BBBProperty: BBB

Sample Number: 1357188      Grid East: 362865 E      Grid North: 6899260 N      Type: float      Dimension:  
UTM: 362865 E      UTM: 6899260 N      Sample Width:      Abundance: rare  
Elevation: m

Comments: White quartz vein with orange limonite patches and fracture coating (5%).

---

Sample Number: 1357189      Grid East: 363887 E      Grid North: 6899383 N      Type: float      Dimension:  
UTM: 363887 E      UTM: 6899383 N      Sample Width:      Abundance: rare  
Elevation: m

Comments: Leucocratic, fine grained light brown to white granodiorite. Small patches and occasional veinlets of boxwork limonite (2%)

---

Sample Number: 1357190      Grid East: 362280 E      Grid North: 6899760 N      Type: float      Dimension:  
UTM: 362280 E      UTM: 6899760 N      Sample Width:      Abundance: rare  
Elevation: m

Comments: weakly altered granodiorite. Slight red discolouration around small irregular quartz veinlet. Hornblends corroded and rusty. Two millimetre wide irregular black veinlet with 'slag' texture.

---

Sample Number: 1357191      Grid East: 365851 E      Grid North: 6900412 N      Type: float      Dimension:  
UTM: 365851 E      UTM: 6900412 N      Sample Width:      Abundance: uncommon  
Elevation: m

Comments: composite sample from several frost boils. Potassic altered granodiorite and fine grained leucocratic intrusive with patches of limonite.

---

Sample Number: 1357192      Grid East: 365879 E      Grid North: 6900400 N      Type: float      Dimension:  
UTM: 365879 E      UTM: 6900400 N      Sample Width:      Abundance: rare  
Elevation: m

Comments: Medium brown, aphanitic, quartz phyric intrusive with bands and patches of lim (7%).

---

Sample Number:	Grid East:	E	Grid North:	N	Type: float	Dimension:
1357193	UTM:	365873 E	UTM:	6897748 N	Sample Width:	Abundance: rare
	Elevation:	m				

Comments: Orange-brown, small, blocky fragments of weathered leucocratic granodiorite. Mafics are corroded. From a frost boil.

---

Sample Number:	Grid East:	E	Grid North:	N	Type: float	Dimension:
1357205	UTM:	370292 E	UTM:	6898223 N	Sample Width:	Abundance: uncommon
	Elevation:	m				

Comments: very fine grained, orange-red weathering angular fragments with limonite and manganese staining. Feldspar and chlorite granodiorite with patches of limonite.

---

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension: 5mx10m
1357206	UTM:	370409 E	UTM:	6898133 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Dark green to grey hornblende diorite. Possible trace molybdenum on fractures?

---

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
1357167	UTM:	371925 E	UTM:	6894788 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Grab sample from a frost boil adjacent to creek. Weakly potassic altered granodiorite with trace limonite pits.

---

**APPENDIX III**  
**CERTIFICATES OF ANALYSIS**



ALS Canada Ltd.  
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 North Vancouver BC V7H 0A7  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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**VANCOUVER BC V6B 1L8**

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 Finalized Date: 24- JUN- 2011  
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**CERTIFICATE WH11104267**

Project: Wolverine - DDD  
 P.O. No.:  
 This report is for 17 Rock samples submitted to our lab in Whitehorse, YT, Canada on 10-JUN- 2011.  
 The following have access to data associated with this certificate:  
 JOAN MARIACHER                      HEATHER SMITH

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager









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 22- AUG- 2011  
 Account: F

**CERTIFICATE WH11122910**

Project: Wolverine  
 P.O. No.:  
 This report is for 32 Rock samples submitted to our lab in Whitehorse, YT, Canada on 1-JUL-2011.  
 The following have access to data associated with this certificate:  
 JOAN MARIACHER                      HEATHER SMITH

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Pb- OG46	Ore Grade Pb - Aqua Regia	VARIABLE
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager











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**CERTIFICATE WH1121124**

Project: Wolverine  
 P.O. No.:  
 This report is for 50 Rock samples submitted to our lab in Whitehorse, YT, Canada on 28-JUN- 2011.  
 The following have access to data associated with this certificate:  
 JOAN MARIACHER                      HEATHER SMITH

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager

















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**CERTIFICATE WH11112632**

Project: BBB Wolverine  
 P.O. No.:  
 This report is for 143 Soil samples submitted to our lab in Whitehorse, YT, Canada on 19-JUN- 2011.  
 The following have access to data associated with this certificate:  
 JOAN MARIACHER                      HEATHER SMITH

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED  
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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
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 Account: F

Project: BBB Wolverine

**CERTIFICATE OF ANALYSIS WH11112632**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC130358		0.68	0.001	<0.2	1.67	7	<10	100	<0.5	<2	0.20	<0.5	10	18	23	2.24
CC130359		0.60	0.002	<0.2	2.81	10	<10	130	0.5	<2	0.19	<0.5	12	31	19	3.40
CC130360		0.58	0.002	<0.2	2.38	10	<10	120	0.5	<2	0.18	<0.5	11	26	25	3.08
CC130361		0.56	0.004	<0.2	1.82	10	<10	140	<0.5	<2	0.20	<0.5	9	25	23	3.10
CC130362		0.54	0.003	<0.2	2.58	7	<10	250	0.7	<2	0.24	<0.5	12	25	70	3.32
CC130363		0.76	0.005	<0.2	2.10	7	<10	230	0.7	<2	0.25	<0.5	11	19	22	3.28
CC130364		0.62	0.011	<0.2	1.48	9	<10	90	<0.5	<2	0.16	<0.5	8	18	13	3.27
CC130365		0.60	0.017	<0.2	1.01	7	<10	80	<0.5	<2	0.15	<0.5	7	15	13	2.28
CC130366		0.64	0.001	<0.2	1.34	8	<10	110	<0.5	<2	0.17	<0.5	7	21	11	2.42
CC130367		0.72	0.001	<0.2	2.00	7	<10	300	0.5	<2	0.33	<0.5	11	22	23	3.07
CC130368		0.52	<0.001	<0.2	2.26	6	<10	220	0.7	<2	0.29	0.6	12	15	20	3.54
CC130369		0.60	0.003	<0.2	0.87	3	<10	90	<0.5	<2	0.16	<0.5	7	13	11	1.92
CC130370		0.50	<0.001	<0.2	2.79	6	<10	290	0.8	<2	0.47	<0.5	15	10	82	4.12
CC130371		0.60	0.007	<0.2	1.12	82	<10	270	<0.5	<2	0.19	<0.5	11	15	24	2.69
CC130372		0.48	0.037	<0.2	0.72	5	<10	270	<0.5	<2	0.43	<0.5	8	10	12	2.26
CC130373		0.60	0.002	<0.2	1.47	5	<10	250	<0.5	<2	0.42	<0.5	9	18	14	3.11
CC130374		0.54	0.002	0.2	1.84	14	<10	240	<0.5	<2	0.28	<0.5	8	26	17	2.76
CC130375		0.68	0.002	<0.2	1.97	7	<10	220	0.5	<2	0.37	<0.5	11	29	17	3.24
CC130376		0.60	0.001	<0.2	1.26	7	<10	120	<0.5	<2	0.35	<0.5	8	24	13	2.60
CC130377		0.66	0.004	<0.2	1.56	10	<10	140	<0.5	<2	0.42	<0.5	9	30	14	2.89
CC130378		0.74	0.003	<0.2	1.94	9	<10	160	<0.5	<2	0.46	<0.5	10	36	22	3.26
CC130379		0.64	0.001	<0.2	2.05	9	<10	180	<0.5	<2	0.49	<0.5	11	36	22	3.29
CC130380		0.40	<0.001	<0.2	1.19	6	<10	110	<0.5	<2	0.19	<0.5	5	18	10	1.97
CC130381		0.72	0.001	<0.2	1.49	6	<10	110	<0.5	<2	0.24	<0.5	7	23	17	2.18
CC130382		0.68	0.002	<0.2	1.32	10	<10	90	<0.5	<2	0.25	<0.5	7	22	13	2.32
CC130383		0.54	0.001	<0.2	1.29	5	<10	130	<0.5	<2	0.38	<0.5	7	18	23	1.92
CC130384		0.32	0.001	<0.2	1.60	9	<10	190	<0.5	<2	0.17	<0.5	8	21	20	2.37
CC130385		0.40	0.001	<0.2	1.24	6	<10	120	<0.5	<2	0.15	<0.5	6	20	14	2.15
CC130386		0.48	0.002	<0.2	2.07	11	<10	190	<0.5	<2	0.29	<0.5	11	31	42	3.18
CC130387		0.36	0.001	<0.2	1.36	10	<10	80	<0.5	<2	0.20	<0.5	5	23	16	2.81
CC130388		0.52	0.001	<0.2	0.94	5	<10	70	<0.5	<2	0.21	<0.5	5	16	15	1.62
CC130389		0.60	0.003	<0.2	1.53	6	<10	130	<0.5	<2	0.32	<0.5	7	26	21	2.36
CC130390		0.64	0.002	<0.2	1.24	5	<10	100	<0.5	<2	0.28	<0.5	8	23	16	2.14
CC130391		0.68	0.002	<0.2	1.86	6	<10	170	<0.5	<2	0.23	<0.5	11	28	11	2.85
CC130392		0.66	0.004	<0.2	2.20	6	<10	180	0.5	<2	0.30	<0.5	9	30	23	3.04
CC130393		0.64	0.005	<0.2	1.43	7	<10	160	<0.5	<2	0.36	<0.5	6	23	15	2.28
CC130394		0.40	0.004	<0.2	1.42	4	<10	130	<0.5	<2	0.33	<0.5	6	20	13	2.36
CC130395		0.68	0.002	<0.2	1.31	6	<10	160	<0.5	<2	0.54	<0.5	7	27	14	2.44
CC130396		0.56	0.004	0.2	2.26	5	<10	1080	0.7	<2	0.75	<0.5	9	17	21	2.55
CC130397		0.48	0.001	<0.2	1.50	10	<10	200	<0.5	<2	0.35	<0.5	8	26	12	2.52





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To: ARCHER, CATHRO AND ASSOCIATES (1981)  
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Page: 2 - B  
 Total # Pages: 5 (A - C)  
 Finalized Date: 12- JUL- 2011  
 Account: F

Project: BBB Wolverine

**CERTIFICATE OF ANALYSIS WH11112632**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC130358		<10	<1	0.11	10	0.45	383	6	0.02	16	520	13	<0.01	<2	3	16
CC130359		10	1	0.09	10	0.52	270	12	0.02	22	370	11	<0.01	<2	4	21
CC130360		10	<1	0.09	10	0.51	305	16	0.02	18	360	11	<0.01	2	4	18
CC130361		10	<1	0.08	10	0.43	243	10	0.02	17	310	12	<0.01	<2	3	22
CC130362		10	1	0.15	20	0.69	460	9	0.02	17	290	10	<0.01	<2	6	24
CC130363		10	<1	0.12	20	0.52	512	5	0.02	13	430	11	<0.01	<2	8	21
CC130364		10	<1	0.08	10	0.45	275	5	0.02	12	360	18	<0.01	<2	4	17
CC130365		10	<1	0.06	10	0.33	263	4	0.02	10	390	17	<0.01	<2	2	13
CC130366		10	<1	0.07	10	0.38	182	4	0.02	13	270	11	<0.01	<2	2	17
CC130367		10	<1	0.17	20	0.70	525	3	0.02	13	540	21	<0.01	<2	6	25
CC130368		10	<1	0.21	20	0.62	740	5	0.02	11	610	24	<0.01	<2	8	24
CC130369		<10	<1	0.07	10	0.34	255	3	0.02	9	260	8	<0.01	<2	2	16
CC130370		10	<1	0.13	10	0.66	840	5	0.02	8	710	24	<0.01	<2	10	39
CC130371		<10	<1	0.10	20	0.34	427	6	0.02	10	400	12	<0.01	6	5	16
CC130372		<10	<1	0.06	10	0.23	592	3	0.02	8	560	15	0.02	<2	3	30
CC130373		10	<1	0.15	20	0.47	497	1	0.02	7	770	17	<0.01	<2	5	29
CC130374		10	<1	0.11	10	0.54	281	1	0.02	15	310	7	<0.01	<2	4	22
CC130375		10	<1	0.24	10	0.76	471	1	0.03	12	450	10	<0.01	<2	8	25
CC130376		<10	<1	0.09	10	0.44	335	1	0.02	10	390	8	<0.01	2	5	23
CC130377		10	<1	0.15	10	0.66	391	1	0.03	12	390	8	<0.01	<2	5	27
CC130378		10	<1	0.15	20	0.90	428	1	0.03	15	370	9	<0.01	<2	7	36
CC130379		10	<1	0.15	10	0.88	470	1	0.03	15	420	8	<0.01	<2	7	35
CC130380		10	<1	0.05	10	0.32	226	1	0.02	8	230	6	<0.01	<2	2	20
CC130381		<10	<1	0.08	10	0.42	284	<1	0.02	13	490	5	<0.01	<2	3	18
CC130382		<10	<1	0.08	10	0.41	221	<1	0.02	12	380	6	0.01	<2	3	17
CC130383		<10	<1	0.07	10	0.39	392	1	0.04	10	480	5	0.02	<2	3	26
CC130384		10	<1	0.07	10	0.36	887	1	0.02	11	260	8	0.02	<2	3	20
CC130385		10	1	0.07	10	0.27	593	1	0.02	10	380	6	0.02	<2	2	16
CC130386		10	<1	0.06	10	0.57	400	1	0.03	17	390	8	0.02	<2	3	34
CC130387		10	<1	0.05	10	0.38	196	1	0.02	11	460	12	0.02	<2	3	25
CC130388		<10	1	0.05	10	0.31	151	<1	0.03	8	500	7	0.02	<2	2	16
CC130389		10	<1	0.10	10	0.53	278	<1	0.02	13	660	5	0.02	<2	3	26
CC130390		<10	<1	0.08	10	0.46	293	<1	0.02	11	590	5	0.01	<2	3	20
CC130391		10	<1	0.09	10	0.64	523	<1	0.02	12	510	6	0.01	<2	5	16
CC130392		10	1	0.10	10	0.68	426	<1	0.03	20	470	8	0.02	<2	6	24
CC130393		<10	<1	0.07	20	0.44	308	<1	0.02	11	650	6	0.03	<2	5	26
CC130394		<10	<1	0.06	20	0.37	266	<1	0.03	9	580	4	0.03	<2	6	24
CC130395		<10	<1	0.07	20	0.50	321	<1	0.03	11	700	6	0.03	<2	6	37
CC130396		10	<1	0.10	90	0.39	640	1	0.03	9	720	9	0.04	<2	12	47
CC130397		10	<1	0.08	10	0.50	341	<1	0.02	15	290	7	0.01	<2	4	24



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Project: BBB Wolverine

**CERTIFICATE OF ANALYSIS WH11112632**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC130358		<20	0.08	<10	<10	48	<10	41
CC130359		<20	0.11	<10	<10	69	10	44
CC130360		<20	0.09	<10	<10	62	10	44
CC130361		<20	0.10	<10	<10	71	<10	42
CC130362		<20	0.13	<10	<10	70	20	51
CC130363		<20	0.09	<10	<10	68	<10	45
CC130364		<20	0.10	<10	<10	72	<10	40
CC130365		<20	0.07	<10	<10	53	<10	40
CC130366		<20	0.09	<10	<10	64	<10	38
CC130367		<20	0.13	<10	<10	70	<10	54
CC130368		20	0.09	<10	<10	71	<10	56
CC130369		<20	0.08	<10	<10	50	<10	33
CC130370		20	0.03	<10	<10	62	<10	72
CC130371		<20	0.05	<10	<10	53	<10	41
CC130372		<20	0.03	<10	<10	41	<10	52
CC130373		<20	0.10	<10	<10	87	<10	45
CC130374		<20	0.10	<10	<10	63	<10	53
CC130375		<20	0.15	<10	<10	83	<10	53
CC130376		<20	0.08	<10	<10	64	<10	43
CC130377		<20	0.12	<10	<10	75	<10	50
CC130378		<20	0.14	<10	<10	85	<10	58
CC130379		<20	0.14	<10	<10	85	<10	60
CC130380		<20	0.08	<10	<10	53	<10	34
CC130381		<20	0.08	<10	<10	51	<10	38
CC130382		<20	0.09	<10	<10	55	<10	38
CC130383		<20	0.08	<10	<10	50	<10	32
CC130384		<20	0.10	<10	<10	64	<10	38
CC130385		<20	0.09	<10	<10	57	<10	39
CC130386		<20	0.13	<10	<10	83	<10	56
CC130387		<20	0.10	<10	<10	71	<10	36
CC130388		<20	0.06	<10	<10	41	<10	32
CC130389		<20	0.10	<10	<10	61	<10	48
CC130390		<20	0.09	<10	<10	54	<10	41
CC130391		<20	0.09	<10	<10	73	<10	47
CC130392		<20	0.09	<10	<10	74	<10	58
CC130393		<20	0.05	<10	<10	53	<10	41
CC130394		<20	0.06	<10	<10	55	<10	40
CC130395		<20	0.07	<10	<10	60	<10	51
CC130396		<20	0.02	<10	<10	44	<10	46
CC130397		<20	0.09	<10	<10	56	<10	52



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**CERTIFICATE OF ANALYSIS WH11112632**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC130398		0.58	<0.001	<0.2	2.41	8	<10	630	<0.5	<2	0.42	<0.5	9	20	16	3.54
CC130399		0.64	0.004	<0.2	1.59	10	<10	240	<0.5	<2	0.41	<0.5	8	28	41	2.54
CC130400		0.76	<0.001	<0.2	0.95	6	<10	60	<0.5	<2	0.20	<0.5	5	17	9	1.76
CC130401		0.64	0.002	<0.2	0.92	4	<10	50	<0.5	<2	0.14	<0.5	3	12	14	1.38
CC130402		0.40	0.003	<0.2	1.71	7	<10	80	<0.5	<2	0.15	<0.5	6	19	10	2.34
CC130403		0.46	0.001	<0.2	0.98	4	<10	70	<0.5	<2	0.18	<0.5	5	15	10	1.69
CC130404		0.58	0.001	<0.2	1.24	9	<10	80	<0.5	<2	0.19	<0.5	6	21	9	2.30
CC130405		0.56	<0.001	<0.2	0.52	<2	<10	50	<0.5	<2	0.15	<0.5	4	8	10	1.25
CC130406		0.68	0.019	<0.2	1.40	8	<10	100	<0.5	<2	0.30	<0.5	7	22	14	2.31
CC130407		0.60	0.002	<0.2	1.27	8	<10	90	<0.5	<2	0.24	<0.5	7	22	11	2.32
CC130408		0.68	0.003	<0.2	1.63	11	<10	160	<0.5	<2	0.39	<0.5	7	25	21	2.39
CC130409		0.66	<0.001	<0.2	1.79	7	<10	120	<0.5	<2	0.26	<0.5	8	26	14	2.39
CC130410		0.48	0.001	<0.2	1.47	8	<10	110	<0.5	<2	0.23	<0.5	6	22	12	2.35
CC130411		0.56	<0.001	<0.2	1.29	4	<10	80	<0.5	<2	0.15	<0.5	6	18	12	2.26
CC130412		0.50	0.001	<0.2	3.08	10	<10	280	0.7	<2	0.35	<0.5	16	38	42	3.96
CC130413		0.44	0.001	<0.2	0.79	<2	<10	80	<0.5	<2	0.27	<0.5	6	12	10	1.75
CC130414		0.46	0.016	<0.2	1.81	8	<10	170	0.5	<2	0.50	<0.5	9	31	30	2.92
CC130415		0.46	0.001	<0.2	1.37	7	<10	150	<0.5	<2	0.42	<0.5	6	22	15	2.19
CC130416		0.42	0.012	<0.2	1.39	7	<10	170	<0.5	<2	0.39	<0.5	7	22	17	2.40
CC130417		0.60	0.001	<0.2	1.27	6	<10	130	<0.5	<2	0.28	<0.5	7	21	9	2.10
CC130418		0.62	0.002	<0.2	1.45	6	<10	130	<0.5	<2	0.27	<0.5	8	25	10	2.38
CC130419		0.60	0.007	<0.2	1.09	15	<10	190	<0.5	<2	0.39	<0.5	7	13	15	2.54
CC130420		0.56	<0.001	0.5	1.71	9	<10	140	<0.5	<2	0.19	<0.5	11	23	21	2.86
CC130421		0.46	0.002	<0.2	1.50	8	<10	100	<0.5	<2	0.17	<0.5	6	21	11	2.22
CC130422		0.50	<0.001	<0.2	1.21	6	<10	80	<0.5	<2	0.18	<0.5	5	17	10	2.16
CC130423		0.56	0.016	<0.2	1.90	10	<10	150	<0.5	<2	0.14	<0.5	9	22	12	2.98
CC130424		0.40	0.001	<0.2	0.26	<2	<10	30	<0.5	<2	0.07	<0.5	1	2	4	0.35
CC130425		0.44	0.004	<0.2	1.44	8	<10	100	<0.5	<2	0.20	<0.5	6	23	7	2.14
CC130426		0.38	0.002	<0.2	3.64	4	<10	260	0.7	<2	0.24	<0.5	14	19	18	4.30
CC130427		0.56	<0.001	<0.2	1.45	5	<10	100	<0.5	<2	0.22	<0.5	7	18	12	2.15
CC130428		0.52	0.001	0.3	3.36	11	<10	210	0.8	<2	0.19	<0.5	11	28	16	3.69
CC130429		0.62	0.003	0.7	1.55	8	<10	180	0.6	<2	0.22	<0.5	7	21	16	2.40
CC130430		0.38	0.001	0.5	2.18	10	<10	180	0.5	<2	0.19	<0.5	8	33	20	3.43
CC130431		0.36	0.001	0.2	2.75	6	<10	630	0.5	<2	0.20	<0.5	10	24	50	3.40
CC130432		0.62	0.010	<0.2	1.27	7	<10	220	0.5	<2	0.25	<0.5	10	16	16	2.57
CC130433		0.66	0.002	<0.2	1.86	12	<10	200	0.5	<2	0.22	0.5	11	26	23	2.82
CC130434		0.72	<0.001	0.2	1.29	4	<10	140	<0.5	<2	0.17	<0.5	6	19	8	2.49
CC130435		0.44	0.001	0.4	1.68	<2	<10	290	<0.5	<2	0.39	<0.5	6	16	16	2.16
CC130436		0.48	0.002	<0.2	1.85	4	<10	250	<0.5	<2	0.30	<0.5	8	17	10	2.95
CC130437		0.46	<0.001	0.4	1.42	3	<10	240	<0.5	<2	0.41	<0.5	5	18	14	2.02



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**CERTIFICATE OF ANALYSIS WH11112632**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC130398		10	1	0.10	10	0.60	549	1	0.03	11	310	8	0.02	2	8	32
CC130399		10	<1	0.06	10	0.50	366	1	0.02	15	460	8	0.02	<2	5	30
CC130400		<10	<1	0.06	10	0.31	203	<1	0.02	9	490	5	0.01	<2	2	12
CC130401		<10	<1	0.03	10	0.17	91	1	0.02	6	300	6	0.02	<2	1	13
CC130402		10	<1	0.05	10	0.31	225	<1	0.02	10	420	7	0.02	<2	2	21
CC130403		<10	<1	0.05	10	0.25	178	<1	0.03	8	520	5	0.02	<2	1	17
CC130404		<10	1	0.07	10	0.36	205	<1	0.02	10	520	6	0.01	<2	3	14
CC130405		<10	<1	0.05	<10	0.14	196	<1	0.04	4	430	2	0.01	<2	1	13
CC130406		<10	1	0.07	20	0.48	303	<1	0.02	13	370	6	0.01	<2	4	22
CC130407		<10	<1	0.08	10	0.43	260	<1	0.02	13	440	5	0.02	<2	3	17
CC130408		10	<1	0.08	30	0.48	338	<1	0.02	14	510	7	0.02	<2	5	27
CC130409		<10	<1	0.08	10	0.48	263	1	0.02	14	410	7	0.02	<2	4	19
CC130410		10	1	0.07	10	0.40	244	1	0.01	11	320	5	0.02	<2	3	18
CC130411		10	<1	0.06	10	0.38	188	1	0.02	7	230	5	0.02	<2	3	15
CC130412		10	<1	0.10	20	0.72	996	2	0.03	18	580	11	0.03	<2	8	35
CC130413		<10	<1	0.06	10	0.24	228	1	0.03	4	470	<2	0.02	<2	2	20
CC130414		10	1	0.12	20	0.68	411	1	0.02	13	640	5	0.04	<2	7	36
CC130415		<10	<1	0.08	10	0.45	293	1	0.03	8	350	2	0.03	<2	3	31
CC130416		<10	<1	0.09	10	0.43	341	1	0.02	10	360	4	0.02	<2	4	28
CC130417		<10	<1	0.08	10	0.41	267	1	0.01	9	310	4	0.01	<2	3	20
CC130418		<10	<1	0.11	10	0.50	274	<1	0.02	10	290	5	0.01	<2	4	19
CC130419		<10	<1	0.14	10	0.43	344	1	0.04	4	640	9	0.03	<2	5	25
CC130420		10	1	0.08	10	0.38	483	22	0.02	10	380	50	0.02	<2	3	19
CC130421		<10	<1	0.09	10	0.37	204	3	0.01	10	290	8	0.02	<2	3	13
CC130422		<10	<1	0.06	10	0.32	213	5	0.01	8	420	5	0.02	<2	3	13
CC130423		10	<1	0.13	10	0.46	374	2	0.01	12	290	8	0.02	<2	5	11
CC130424		<10	<1	0.03	<10	0.03	21	<1	0.03	1	220	<2	<0.01	<2	<1	9
CC130425		<10	1	0.07	10	0.40	181	1	0.01	10	420	4	0.01	<2	3	14
CC130426		10	1	0.32	10	1.01	673	<1	0.02	10	430	28	0.02	<2	8	23
CC130427		<10	<1	0.10	10	0.38	272	<1	0.01	10	530	6	0.01	<2	3	15
CC130428		10	<1	0.13	20	0.60	394	1	0.02	14	430	7	0.02	<2	7	18
CC130429		<10	<1	0.08	20	0.39	262	1	0.02	12	350	26	0.02	<2	5	17
CC130430		10	<1	0.10	10	0.48	268	1	0.02	14	310	9	0.02	<2	4	19
CC130431		10	1	0.10	10	0.49	385	1	0.02	11	510	7	0.02	<2	6	24
CC130432		<10	1	0.07	20	0.27	579	1	0.01	9	660	12	0.01	<2	4	17
CC130433		<10	<1	0.10	10	0.44	438	1	0.01	16	410	17	0.02	<2	4	18
CC130434		<10	1	0.04	10	0.36	465	10	0.01	7	360	4	0.02	<2	3	14
CC130435		10	<1	0.17	20	0.47	317	1	0.02	5	660	19	0.04	<2	5	30
CC130436		10	<1	0.23	10	0.61	405	1	0.02	6	620	4	0.01	<2	5	21
CC130437		<10	<1	0.12	30	0.44	230	2	0.02	6	940	7	0.04	<2	5	27



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**CERTIFICATE OF ANALYSIS WH11112632**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC130398		<20	0.07	<10	<10	58	<10	55
CC130399		<20	0.07	<10	<10	53	<10	54
CC130400		<20	0.06	<10	<10	40	<10	31
CC130401		<20	0.05	<10	<10	40	<10	21
CC130402		<20	0.07	<10	<10	53	<10	29
CC130403		<20	0.07	<10	<10	44	<10	26
CC130404		<20	0.07	<10	<10	54	<10	35
CC130405		<20	0.06	<10	<10	36	<10	20
CC130406		<20	0.08	<10	<10	54	<10	40
CC130407		<20	0.08	<10	<10	51	<10	43
CC130408		<20	0.07	<10	<10	56	<10	41
CC130409		<20	0.08	<10	<10	54	<10	44
CC130410		<20	0.08	<10	<10	57	<10	38
CC130411		<20	0.09	<10	<10	61	<10	35
CC130412		<20	0.10	<10	<10	101	<10	60
CC130413		<20	0.08	<10	<10	55	<10	28
CC130414		<20	0.10	<10	<10	74	<10	46
CC130415		<20	0.08	<10	<10	53	<10	38
CC130416		<20	0.06	<10	<10	55	<10	41
CC130417		<20	0.07	<10	<10	51	<10	38
CC130418		<20	0.11	<10	<10	58	<10	42
CC130419		<20	0.07	<10	<10	60	<10	51
CC130420		<20	0.10	<10	<10	72	<10	49
CC130421		<20	0.08	<10	<10	51	<10	39
CC130422		<20	0.07	<10	<10	48	<10	30
CC130423		<20	0.10	<10	<10	64	<10	45
CC130424		<20	0.02	<10	<10	10	<10	5
CC130425		<20	0.08	<10	<10	48	<10	37
CC130426		20	0.18	<10	<10	99	<10	79
CC130427		<20	0.09	<10	<10	49	<10	34
CC130428		20	0.12	<10	<10	80	<10	50
CC130429		<20	0.06	<10	<10	56	<10	45
CC130430		<20	0.12	<10	<10	83	<10	44
CC130431		<20	0.07	<10	<10	72	<10	43
CC130432		<20	0.03	<10	<10	48	<10	39
CC130433		<20	0.07	<10	<10	58	<10	59
CC130434		<20	0.07	<10	<10	58	<10	31
CC130435		<20	0.08	<10	<10	47	<10	57
CC130436		<20	0.15	<10	<10	79	<10	49
CC130437		<20	0.07	<10	<10	48	<10	38



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC130438		0.56	<0.001	<0.2	1.30	7	<10	130	<0.5	<2	0.27	<0.5	6	21	9	2.30
CC130439		0.50	0.001	0.2	1.46	2	<10	420	<0.5	<2	0.35	<0.5	5	16	11	2.72
CC130440		0.50	0.002	<0.2	2.84	9	<10	250	0.6	<2	0.23	<0.5	11	29	19	3.62
CC130441		0.46	0.012	0.4	1.88	6	<10	120	<0.5	<2	0.20	<0.5	8	22	11	2.63
CC130442		0.46	0.001	0.4	1.79	10	<10	150	<0.5	<2	0.19	<0.5	8	21	15	2.67
CC130443		0.66	0.003	<0.2	3.57	9	<10	400	0.7	<2	0.24	<0.5	13	22	25	4.13
CC130444		0.30	0.001	<0.2	3.41	12	<10	260	0.7	<2	0.21	<0.5	13	32	21	3.66
CC130445		0.50	0.004	<0.2	2.43	14	<10	190	0.5	2	0.20	<0.5	10	25	21	3.32
CC130446		0.34	0.001	0.3	2.70	12	<10	160	0.6	2	0.23	<0.5	10	22	19	4.21
CC130447		0.50	0.004	0.2	2.22	14	<10	140	<0.5	2	0.18	<0.5	10	25	23	3.01
CC130448		0.42	<0.001	0.2	2.14	13	<10	160	<0.5	2	0.21	<0.5	9	24	18	3.10
CC130449		0.44	0.001	<0.2	2.63	7	<10	240	<0.5	2	0.33	<0.5	12	15	12	3.84
CC130450		0.36	0.004	<0.2	0.89	4	<10	70	<0.5	2	0.18	<0.5	6	15	9	1.81
CC130451		0.48	0.001	<0.2	1.41	7	<10	160	0.5	2	0.37	<0.5	10	22	22	3.05
CC130452		0.46	0.002	<0.2	0.92	12	<10	80	<0.5	<2	0.25	<0.5	6	19	9	2.20
CC130453		0.64	0.001	<0.2	0.89	9	<10	80	<0.5	<2	0.23	<0.5	5	18	9	2.09
CC130454		0.48	0.006	<0.2	1.13	10	<10	80	<0.5	2	0.15	<0.5	5	16	11	2.47
CC130455		0.30	<0.001	0.3	0.88	3	<10	130	<0.5	<2	0.21	<0.5	4	8	15	1.04
CC130456		0.44	0.004	<0.2	1.30	10	<10	110	<0.5	2	0.42	<0.5	8	25	12	2.56
CC130457		0.32	0.001	0.3	2.21	14	<10	190	0.8	<2	0.86	<0.5	10	31	40	3.21
CC130458		0.24	<0.001	<0.2	1.36	11	<10	120	<0.5	<2	0.63	<0.5	7	17	19	1.89
CC130459		0.52	0.002	0.3	1.88	9	<10	160	0.6	2	0.52	<0.5	9	29	27	2.59
CC130460		0.54	0.002	<0.2	1.63	10	<10	120	<0.5	<2	0.34	<0.5	8	24	12	2.50
CC130461		0.18	0.001	<0.2	1.75	11	<10	220	0.6	2	0.86	<0.5	10	26	40	2.54
CC130462		0.30	0.005	0.6	1.73	10	<10	270	0.7	<2	1.09	<0.5	9	28	62	2.44
CC130463		0.58	0.001	<0.2	1.71	12	<10	130	<0.5	<2	0.32	<0.5	9	27	16	2.59
CC130464		0.34	0.001	<0.2	1.60	10	<10	230	<0.5	2	0.53	<0.5	10	29	21	2.70
CC130465		0.26	0.001	<0.2	1.46	9	<10	110	<0.5	<2	0.34	<0.5	8	22	16	2.14
CC130466		0.46	0.001	<0.2	1.34	7	<10	180	<0.5	2	0.27	<0.5	7	20	14	1.99
CC130467		0.56	0.001	<0.2	2.39	11	<10	140	0.5	<2	0.28	<0.5	11	27	15	3.35
CC130468		0.58	<0.001	<0.2	1.90	14	<10	170	0.6	<2	0.41	<0.5	7	26	19	3.07
CC130469		0.46	0.001	<0.2	2.23	9	<10	140	<0.5	3	0.20	<0.5	9	26	25	2.81
CC130470		0.42	0.001	<0.2	2.82	12	<10	120	0.7	3	0.17	<0.5	14	24	13	4.41
CC130471		0.36	0.001	<0.2	1.32	6	<10	180	<0.5	<2	0.23	<0.5	7	19	14	1.76
CC130472		0.30	0.002	<0.2	2.01	9	<10	180	0.5	<2	0.31	<0.5	11	33	26	2.60
CC130473		0.44	<0.001	<0.2	0.93	5	<10	100	<0.5	<2	0.18	<0.5	5	9	13	1.31
CC130474		0.52	0.002	0.3	2.69	8	<10	210	0.6	4	0.37	<0.5	14	45	29	3.53
CC130475		0.52	0.001	<0.2	2.02	12	<10	170	<0.5	2	0.43	<0.5	11	37	25	3.07
CC130476		0.50	0.002	<0.2	1.73	13	<10	90	<0.5	<2	0.16	<0.5	4	21	21	2.50
CC130477		0.48	<0.001	<0.2	0.34	<2	<10	20	<0.5	<2	0.10	<0.5	3	4	3	1.00



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**CERTIFICATE OF ANALYSIS WH11112632**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC130438		<10	<1	0.10	10	0.43	221	1	0.01	9	400	9	0.01	<2	3	18
CC130439		<10	<1	0.13	30	0.37	310	1	0.02	5	480	9	0.02	<2	8	21
CC130440		10	1	0.17	20	0.65	333	2	0.02	16	360	11	0.02	<2	6	19
CC130441		10	<1	0.10	10	0.48	258	1	0.01	11	480	7	0.02	<2	4	16
CC130442		<10	<1	0.08	20	0.39	239	1	0.02	13	420	7	0.02	<2	4	17
CC130443		10	1	0.32	10	0.88	486	1	0.02	13	250	7	0.02	<2	10	28
CC130444		10	1	0.21	10	0.83	400	<1	0.02	21	340	6	0.02	<2	6	23
CC130445		10	<1	0.10	10	0.56	339	1	0.02	16	330	8	0.02	2	5	21
CC130446		10	<1	0.11	20	0.50	326	1	0.01	11	290	8	0.02	<2	8	24
CC130447		10	1	0.11	10	0.45	317	<1	0.02	17	450	15	0.02	<2	4	15
CC130448		10	1	0.14	10	0.53	301	1	0.02	15	440	8	0.02	<2	5	17
CC130449		10	<1	0.13	10	0.91	736	3	0.02	6	460	10	0.02	<2	10	29
CC130450		<10	<1	0.05	10	0.38	189	<1	0.02	7	380	3	0.02	<2	2	14
CC130451		10	<1	0.10	10	0.47	556	2	0.01	11	440	19	0.02	2	7	24
CC130452		<10	1	0.07	10	0.33	225	1	0.01	9	280	4	0.01	<2	3	17
CC130453		<10	<1	0.07	10	0.29	182	<1	0.01	9	490	4	0.01	<2	2	14
CC130454		10	<1	0.06	10	0.26	157	<1	0.01	7	200	4	0.01	<2	2	16
CC130455		<10	1	0.05	10	0.13	121	<1	0.03	6	570	2	0.05	<2	1	24
CC130456		<10	<1	0.14	10	0.64	329	<1	0.02	10	570	4	0.02	<2	5	25
CC130457		10	<1	0.11	90	0.80	274	<1	0.02	15	1070	5	0.08	<2	9	49
CC130458		10	1	0.09	20	0.43	323	<1	0.03	9	560	4	0.04	<2	4	39
CC130459		10	<1	0.10	40	0.63	298	<1	0.02	14	660	8	0.04	<2	7	33
CC130460		10	<1	0.08	10	0.52	326	<1	0.02	13	360	5	0.01	<2	4	23
CC130461		10	<1	0.06	20	0.51	540	<1	0.02	14	1070	6	0.06	<2	4	61
CC130462		10	1	0.04	40	0.44	527	<1	0.02	20	1580	6	0.10	2	3	83
CC130463		10	<1	0.07	10	0.52	321	<1	0.01	14	360	5	0.02	<2	4	28
CC130464		10	1	0.07	10	0.51	577	<1	0.02	15	540	6	0.03	<2	4	44
CC130465		<10	<1	0.07	10	0.39	277	<1	0.01	12	570	5	0.02	<2	3	23
CC130466		<10	1	0.06	10	0.38	356	<1	0.03	10	410	4	0.02	<2	3	24
CC130467		10	1	0.08	10	0.70	465	<1	0.02	13	290	8	0.02	<2	6	25
CC130468		10	1	0.07	60	0.44	325	<1	0.02	11	340	6	0.02	<2	7	30
CC130469		10	<1	0.07	10	0.49	318	<1	0.01	16	290	5	0.01	2	4	22
CC130470		10	1	0.10	10	0.65	518	<1	0.02	10	350	7	0.02	3	11	19
CC130471		<10	1	0.08	10	0.40	460	<1	0.03	6	570	<2	0.03	<2	4	21
CC130472		10	<1	0.07	10	0.61	583	<1	0.01	16	800	7	0.03	<2	4	28
CC130473		<10	<1	0.04	10	0.12	147	<1	0.03	5	610	<2	0.04	<2	2	16
CC130474		10	<1	0.11	20	1.20	753	<1	0.02	19	500	41	0.02	<2	8	31
CC130475		10	<1	0.09	10	0.79	473	<1	0.02	17	470	9	0.02	<2	6	35
CC130476		10	<1	0.05	10	0.22	150	<1	0.01	7	310	7	0.01	2	2	19
CC130477		<10	<1	0.03	<10	0.05	54	<1	0.03	1	280	<2	0.01	<2	<1	11





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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC130438		<20	0.09	<10	<10	54	<10	50
CC130439		<20	0.06	<10	<10	60	<10	48
CC130440		<20	0.14	<10	<10	80	<10	53
CC130441		<20	0.09	<10	<10	56	<10	42
CC130442		<20	0.08	<10	<10	57	<10	34
CC130443		<20	0.15	<10	<10	94	<10	61
CC130444		<20	0.20	<10	<10	86	<10	61
CC130445		<20	0.12	<10	<10	75	<10	49
CC130446		<20	0.08	<10	<10	82	<10	48
CC130447		<20	0.09	<10	<10	60	<10	47
CC130448		<20	0.12	<10	<10	72	<10	46
CC130449		<20	0.09	<10	<10	92	<10	53
CC130450		<20	0.08	<10	<10	50	<10	28
CC130451		<20	0.08	<10	<10	72	<10	66
CC130452		<20	0.09	<10	<10	56	<10	38
CC130453		<20	0.07	<10	<10	50	<10	32
CC130454		<20	0.10	<10	<10	64	<10	32
CC130455		<20	0.03	<10	<10	24	<10	22
CC130456		<20	0.10	<10	<10	63	<10	51
CC130457		<20	0.09	<10	<10	87	<10	53
CC130458		<20	0.06	<10	<10	47	<10	45
CC130459		<20	0.08	<10	<10	73	<10	46
CC130460		<20	0.08	<10	<10	59	<10	44
CC130461		<20	0.05	<10	<10	61	<10	44
CC130462		<20	0.04	<10	<10	57	<10	36
CC130463		<20	0.08	<10	<10	62	<10	48
CC130464		<20	0.08	<10	<10	65	<10	52
CC130465		<20	0.06	<10	<10	48	<10	41
CC130466		<20	0.06	<10	<10	47	<10	35
CC130467		<20	0.07	<10	<10	78	<10	58
CC130468		<20	0.07	<10	<10	80	<10	45
CC130469		<20	0.08	<10	<10	65	<10	55
CC130470		<20	0.05	<10	<10	98	<10	71
CC130471		<20	0.04	<10	<10	48	<10	28
CC130472		<20	0.07	<10	<10	66	<10	48
CC130473		<20	0.02	<10	<10	34	<10	18
CC130474		<20	0.05	<10	<10	82	<10	71
CC130475		<20	0.09	<10	<10	78	<10	61
CC130476		<20	0.08	<10	<10	65	<10	30
CC130477		<20	0.04	<10	<10	33	<10	12



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC1 30478		0.58	<0.001	<0.2	3.95	10	<10	180	0.7	3	0.28	<0.5	17	49	28	4.12
CC1 30479		0.70	0.001	<0.2	2.40	11	<10	160	<0.5	2	0.22	<0.5	10	36	23	3.08
CC1 30480		0.50	0.001	<0.2	1.82	11	<10	110	<0.5	2	0.17	<0.5	9	27	14	2.67
CC1 30481		0.32	<0.001	<0.2	1.02	3	<10	110	<0.5	<2	0.19	<0.5	8	16	31	1.62
CC1 30482		0.34	0.010	0.3	2.21	6	<10	280	0.5	<2	0.50	<0.5	14	39	31	3.36
CC1 30483		0.40	0.003	<0.2	1.89	10	<10	380	0.9	<2	0.51	<0.5	11	28	42	3.36
CC1 30484		0.48	0.003	0.2	1.41	13	<10	190	1.1	<2	0.53	<0.5	13	26	67	4.10
CC1 30485		0.38	<0.001	<0.2	2.05	6	<10	170	0.5	<2	0.62	<0.5	15	36	42	3.59
CC1 30486		0.28	<0.001	<0.2	0.98	6	<10	140	<0.5	<2	0.56	<0.5	6	22	11	2.22
CC1 30487		0.52	<0.001	<0.2	2.83	5	<10	260	0.7	<2	0.36	<0.5	20	49	22	4.99
CC1 30488		0.42	0.002	<0.2	3.57	10	<10	190	0.6	<2	0.25	<0.5	17	57	25	4.47
CC1 30489		0.56	<0.001	<0.2	2.41	12	<10	130	<0.5	<2	0.15	<0.5	13	32	19	3.33
CC1 30490		0.44	0.016	<0.2	1.93	8	<10	250	0.5	<2	0.86	<0.5	15	38	32	3.44
CC1 30491		0.56	<0.001	<0.2	1.33	9	<10	80	<0.5	<2	0.30	<0.5	9	24	11	2.50
CC1 30492		0.48	<0.001	<0.2	1.64	7	<10	170	<0.5	<2	0.44	<0.5	8	19	19	2.92
CC1 30493		0.56	<0.001	<0.2	2.24	6	<10	310	0.6	<2	0.83	<0.5	11	10	15	3.70
CC1 30494		0.56	<0.001	<0.2	0.88	7	<10	110	<0.5	<2	0.32	<0.5	5	17	7	2.02
CC1 30495		0.34	0.001	0.2	1.20	5	<10	250	<0.5	<2	1.11	<0.5	7	11	21	2.09
CC1 30496		0.22	<0.001	0.3	1.42	5	<10	340	<0.5	<2	1.17	<0.5	7	16	26	2.32
CC1 30497		0.24	0.001	<0.2	0.73	7	<10	180	<0.5	<2	0.80	<0.5	28	10	29	5.35
CC1 30498		0.46	0.001	<0.2	1.18	12	<10	190	0.5	<2	0.42	<0.5	6	20	18	2.56
CC1 30499		0.42	<0.001	<0.2	0.41	8	<10	70	<0.5	<2	0.49	<0.5	3	6	11	1.87
CC1 30500		0.42	<0.001	<0.2	0.58	3	<10	110	<0.5	<2	0.51	<0.5	3	9	13	1.60



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Project: BBB Wolverine

**CERTIFICATE OF ANALYSIS WH11112632**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC1 30478		10	<1	0.07	20	1.40	524	<1	0.02	18	430	12	0.02	2	10	31
CC1 30479		10	<1	0.09	10	0.66	311	<1	0.01	18	270	7	0.01	<2	5	21
CC1 30480		10	1	0.08	10	0.44	215	<1	0.01	16	260	5	0.01	<2	3	16
CC1 30481		<10	<1	0.04	10	0.29	851	1	0.03	8	370	4	<0.01	<2	2	23
CC1 30482		10	<1	0.06	20	0.76	753	1	0.03	16	930	8	0.02	<2	6	40
CC1 30483		<10	<1	0.11	50	0.38	758	1	0.02	18	540	10	<0.01	2	13	36
CC1 30484		<10	<1	0.09	60	0.33	679	1	0.01	16	470	9	<0.01	6	21	24
CC1 30485		10	<1	0.10	10	0.85	985	1	0.03	13	650	7	<0.01	<2	7	39
CC1 30486		<10	<1	0.07	10	0.44	227	<1	0.03	8	370	6	<0.01	<2	3	33
CC1 30487		10	<1	0.24	10	0.93	609	1	0.03	20	410	8	<0.01	<2	14	28
CC1 30488		10	<1	0.12	10	1.24	445	<1	0.02	23	300	8	<0.01	<2	9	26
CC1 30489		10	<1	0.08	10	0.59	338	<1	0.02	18	260	8	<0.01	<2	6	14
CC1 30490		10	<1	0.13	60	0.91	962	1	0.03	15	790	7	0.03	<2	10	59
CC1 30491		10	<1	0.11	10	0.53	302	<1	0.02	11	290	7	<0.01	<2	4	20
CC1 30492		10	<1	0.09	10	0.64	438	1	0.02	7	380	12	<0.01	<2	6	24
CC1 30493		10	<1	0.15	30	1.01	915	<1	0.03	4	880	11	<0.01	<2	14	43
CC1 30494		<10	<1	0.07	10	0.30	211	<1	0.02	8	350	6	<0.01	<2	3	19
CC1 30495		<10	<1	0.09	20	0.38	491	<1	0.02	8	710	6	0.03	<2	6	54
CC1 30496		10	<1	0.07	30	0.47	361	<1	0.02	9	730	6	0.02	<2	5	56
CC1 30497		<10	<1	0.03	10	0.09	2220	2	0.04	11	780	9	0.07	<2	1	51
CC1 30498		<10	<1	0.10	20	0.36	228	<1	0.03	9	500	11	0.03	<2	6	26
CC1 30499		<10	<1	0.03	20	0.10	170	<1	0.03	4	470	2	0.04	<2	2	31
CC1 30500		<10	<1	0.06	10	0.20	122	<1	0.03	5	440	4	0.04	<2	2	30



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Project: BBB Wolverine

**CERTIFICATE OF ANALYSIS WH11112632**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC130478		<20	0.05	<10	<10	107	<10	77
CC130479		<20	0.11	<10	<10	79	<10	50
CC130480		<20	0.09	<10	<10	58	<10	40
CC130481		<20	0.06	<10	<10	45	<10	28
CC130482		<20	0.07	<10	<10	84	<10	50
CC130483		<20	0.03	<10	<10	67	<10	57
CC130484		<20	0.01	<10	<10	83	<10	66
CC130485		<20	0.08	<10	<10	89	<10	55
CC130486		<20	0.08	<10	<10	57	<10	41
CC130487		<20	0.15	<10	<10	126	<10	73
CC130488		<20	0.16	<10	<10	117	<10	70
CC130489		<20	0.08	<10	<10	73	<10	54
CC130490		<20	0.11	<10	<10	95	<10	75
CC130491		<20	0.09	<10	<10	62	<10	51
CC130492		<20	0.09	<10	<10	72	<10	52
CC130493		<20	0.05	<10	<10	87	<10	65
CC130494		<20	0.06	<10	<10	49	<10	34
CC130495		<20	0.05	<10	<10	41	<10	49
CC130496		<20	0.05	<10	<10	54	<10	38
CC130497		<20	0.03	<10	<10	41	<10	40
CC130498		<20	0.05	<10	<10	61	<10	54
CC130499		<20	0.04	<10	<10	48	<10	24
CC130500		<20	0.05	<10	<10	48	<10	33



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**CERTIFICATE WH11112633**

Project: Wolverine BBB  
 P.O. No.:  
 This report is for 112 Soil samples submitted to our lab in Whitehorse, YT, Canada on 19-JUN- 2011.  
 The following have access to data associated with this certificate:  
 JOAN MARIACHER                      HEATHER SMITH

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED  
 ATTN: JOAN MARIACHER  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager





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Project: Wolverine BBB

**CERTIFICATE OF ANALYSIS WH11112633**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC130754		0.34	0.001	<0.2	0.33	3	<10	50	<0.5	<2	0.57	<0.5	4	5	8	1.19
CC130755		0.56	0.004	<0.2	1.78	8	<10	210	0.5	<2	0.61	<0.5	11	39	19	3.26
CC130756		0.24	0.002	<0.2	1.30	8	<10	130	<0.5	<2	0.27	<0.5	5	23	17	2.35
CC130757		0.46	0.002	<0.2	2.38	9	<10	240	0.6	<2	0.37	<0.5	10	41	21	3.15
CC130758		0.38	0.002	<0.2	2.12	7	<10	180	0.5	<2	0.32	<0.5	9	32	23	2.83
CC130759		0.50	0.001	<0.2	1.78	7	<10	140	<0.5	<2	0.21	<0.5	8	26	24	2.50
CC130760		0.48	<0.001	<0.2	2.53	8	<10	240	<0.5	<2	0.30	<0.5	11	38	19	3.29
CC130761		0.38	0.003	<0.2	1.58	8	<10	100	<0.5	<2	0.17	<0.5	5	23	20	2.80
CC130762		0.58	0.001	<0.2	2.02	12	<10	170	<0.5	<2	0.18	<0.5	9	28	21	2.83
CC130763		0.42	0.001	<0.2	1.13	15	<10	100	<0.5	<2	0.14	<0.5	5	20	18	2.11
CC130764		0.36	0.009	<0.2	1.26	8	<10	60	<0.5	<2	0.16	<0.5	5	21	10	2.13
CC130765		0.38	0.002	<0.2	1.66	12	<10	110	<0.5	<2	0.21	<0.5	6	27	13	2.41
CC130766		0.36	0.010	<0.2	1.23	9	<10	90	<0.5	<2	0.27	<0.5	5	23	14	2.06
CC130767		0.48	0.003	<0.2	1.24	7	<10	130	<0.5	<2	0.41	<0.5	6	22	32	1.97
CC130768		0.34	0.003	<0.2	1.66	9	<10	170	<0.5	<2	0.55	<0.5	8	28	27	2.29
CC130769		0.50	0.003	<0.2	1.69	9	<10	220	<0.5	<2	0.40	<0.5	9	34	18	2.54
CC130770		0.44	0.001	<0.2	1.63	7	<10	120	<0.5	<2	0.19	<0.5	8	26	15	2.52
CC130771		0.38	0.001	<0.2	0.36	<2	<10	30	<0.5	<2	0.05	<0.5	2	3	5	0.60
CC130772		0.44	0.005	<0.2	0.71	5	<10	50	<0.5	<2	0.13	<0.5	4	14	5	1.46
CC130773		0.46	0.002	<0.2	1.34	3	<10	150	<0.5	<2	0.42	<0.5	7	30	11	2.14
CC130774		0.32	0.002	<0.2	0.70	<2	<10	150	<0.5	<2	0.65	<0.5	4	9	18	0.90
CC130775		0.36	0.007	<0.2	1.36	4	<10	210	<0.5	<2	0.70	<0.5	7	25	21	1.90
CC130776		0.48	0.001	<0.2	1.36	3	<10	190	<0.5	<2	0.53	<0.5	9	34	18	2.45
CC130777		0.30	0.003	0.5	1.70	7	<10	250	0.6	<2	0.70	<0.5	7	35	22	2.60
CC130778		0.28	0.002	0.6	1.41	2	<10	260	<0.5	<2	0.93	<0.5	5	19	23	1.50
CC130779		0.48	0.004	<0.2	1.55	11	<10	200	<0.5	<2	0.55	<0.5	9	31	19	2.34
CC130780		0.44	0.013	0.2	1.65	5	<10	190	<0.5	<2	0.48	<0.5	8	33	19	2.42
CC130781		0.48	0.002	<0.2	1.18	4	<10	180	<0.5	<2	0.48	<0.5	7	23	16	1.90
CC130782		0.18	0.001	<0.2	1.17	3	<10	160	<0.5	<2	0.47	<0.5	4	25	14	1.77
CC130783		0.42	0.002	<0.2	1.55	3	<10	190	<0.5	<2	0.40	<0.5	8	34	16	2.52
CC130784		0.26	0.001	32.9	0.55	<2	<10	100	<0.5	<2	0.33	<0.5	1	4	97	1.15
CC130785		0.44	0.001	0.2	0.47	<2	<10	70	<0.5	<2	0.20	<0.5	4	7	7	1.29
CC130786		0.52	0.001	<0.2	1.49	4	<10	130	<0.5	<2	0.28	<0.5	8	27	13	2.35
CC130787		0.60	0.004	<0.2	1.18	3	<10	150	<0.5	<2	0.28	<0.5	7	24	11	1.99
CC130788		0.34	0.003	<0.2	1.01	2	<10	110	<0.5	<2	0.31	<0.5	4	18	11	1.85
CC130789		0.30	0.002	<0.2	0.63	2	<10	50	<0.5	<2	0.08	<0.5	5	14	6	1.81
CC130790		0.28	0.002	<0.2	1.57	5	<10	150	<0.5	<2	0.18	<0.5	9	27	13	2.71
CC130791		0.34	0.002	<0.2	1.86	7	<10	130	<0.5	<2	0.20	<0.5	8	32	13	3.21
CC130792		0.26	0.002	<0.2	2.58	8	<10	150	<0.5	<2	0.25	<0.5	11	40	16	3.38
CC130793		0.30	0.002	0.2	2.68	10	<10	130	0.5	<2	0.23	<0.5	10	33	18	2.83



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Project: Wolverine BBB

**CERTIFICATE OF ANALYSIS WH11112633**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC130754		<10	<1	0.02	10	0.07	157	<1	0.04	4	530	<2	0.04	<2	2	35
CC130755		10	<1	0.06	20	0.72	570	1	0.03	17	560	6	0.02	<2	11	43
CC130756		10	<1	0.05	10	0.41	211	1	0.02	12	270	6	<0.01	<2	3	27
CC130757		10	<1	0.05	20	0.85	491	<1	0.02	19	240	8	<0.01	<2	8	34
CC130758		10	<1	0.05	10	0.55	359	<1	0.02	18	420	8	0.01	<2	6	31
CC130759		10	<1	0.04	10	0.52	266	<1	0.02	14	330	5	<0.01	<2	5	21
CC130760		10	<1	0.05	10	0.82	393	<1	0.02	19	260	7	<0.01	<2	5	33
CC130761		10	<1	0.06	10	0.32	168	1	0.02	10	290	6	0.01	<2	2	22
CC130762		<10	<1	0.06	10	0.48	316	1	0.02	16	320	6	0.01	2	4	19
CC130763		<10	<1	0.05	10	0.32	162	1	0.02	9	180	4	<0.01	<2	3	19
CC130764		<10	<1	0.05	10	0.34	190	<1	0.02	11	430	5	<0.01	<2	2	13
CC130765		10	<1	0.06	10	0.44	223	<1	0.02	14	300	6	<0.01	<2	3	19
CC130766		<10	<1	0.05	10	0.40	189	<1	0.02	12	350	5	0.01	<2	2	21
CC130767		<10	<1	0.04	10	0.42	282	<1	0.02	13	450	6	0.01	<2	3	32
CC130768		10	<1	0.07	10	0.48	478	<1	0.02	16	750	7	0.04	<2	3	43
CC130769		<10	1	0.06	10	0.63	319	<1	0.02	15	430	7	0.01	<2	7	30
CC130770		<10	<1	0.06	10	0.43	262	1	0.02	16	290	9	0.02	<2	3	18
CC130771		<10	<1	0.02	<10	0.02	23	<1	0.03	1	220	<2	0.02	<2	<1	12
CC130772		<10	<1	0.04	10	0.22	154	1	0.02	5	360	2	0.02	<2	1	10
CC130773		<10	<1	0.06	10	0.60	250	<1	0.02	11	430	6	0.02	<2	4	25
CC130774		<10	<1	0.03	10	0.14	765	1	0.04	5	680	<2	0.07	<2	1	38
CC130775		<10	<1	0.06	10	0.40	263	1	0.03	10	570	2	0.06	<2	4	44
CC130776		<10	<1	0.06	10	0.55	252	1	0.02	12	490	8	0.04	<2	5	31
CC130777		10	1	0.07	40	0.52	254	1	0.02	11	770	15	0.06	<2	10	44
CC130778		<10	<1	0.06	20	0.36	198	1	0.03	9	800	10	0.09	<2	4	58
CC130779		10	<1	0.06	10	0.54	400	1	0.02	11	590	9	0.05	<2	5	38
CC130780		10	<1	0.06	10	0.60	236	1	0.02	11	580	6	0.04	<2	5	31
CC130781		<10	<1	0.06	10	0.39	292	1	0.02	11	460	3	0.04	<2	3	33
CC130782		<10	<1	0.05	10	0.35	123	<1	0.03	7	660	5	0.06	<2	4	31
CC130783		10	<1	0.06	10	0.55	215	1	0.02	12	650	3	0.04	<2	5	26
CC130784		<10	<1	0.13	40	0.37	165	28	<0.01	82	640	181	0.07	<2	1	27
CC130785		<10	<1	0.03	<10	0.08	102	<1	0.03	3	260	<2	0.03	<2	1	16
CC130786		10	<1	0.06	10	0.49	280	<1	0.02	13	410	4	0.02	<2	3	19
CC130787		<10	<1	0.05	10	0.42	226	<1	0.01	10	400	4	0.02	<2	4	19
CC130788		<10	1	0.04	10	0.27	130	1	0.02	7	380	2	0.03	<2	2	24
CC130789		<10	1	0.04	<10	0.09	154	1	0.02	5	330	<2	0.02	<2	2	10
CC130790		10	<1	0.05	10	0.44	333	1	0.02	11	340	5	0.02	<2	3	19
CC130791		10	<1	0.07	10	0.53	282	1	0.02	13	290	6	0.02	<2	4	20
CC130792		10	<1	0.08	10	0.76	321	1	0.02	17	260	6	0.02	<2	6	23
CC130793		<10	<1	0.07	10	0.53	264	<1	0.02	18	410	6	0.03	<2	4	23



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm
		20	0.01	10	10	1	10	2
CC130754	<20	0.05	<10	<10	40	<10	31	
CC130755	<20	0.03	<10	<10	74	<10	58	
CC130756	<20	0.06	<10	<10	64	<10	41	
CC130757	<20	0.05	<10	<10	76	<10	59	
CC130758	<20	0.05	<10	<10	67	<10	46	
CC130759	<20	0.05	<10	<10	65	<10	37	
CC130760	<20	0.05	<10	<10	82	<10	61	
CC130761	<20	0.09	<10	<10	74	<10	34	
CC130762	<20	0.05	<10	<10	63	<10	46	
CC130763	<20	0.05	<10	<10	57	<10	34	
CC130764	<20	0.06	<10	<10	51	<10	35	
CC130765	<20	0.08	<10	<10	57	<10	43	
CC130766	<20	0.06	<10	<10	50	<10	37	
CC130767	<20	0.05	<10	<10	48	<10	39	
CC130768	<20	0.06	<10	<10	55	<10	60	
CC130769	<20	0.06	<10	<10	62	<10	49	
CC130770	<20	0.07	<10	<10	57	<10	43	
CC130771	<20	0.03	<10	<10	19	<10	7	
CC130772	<20	0.05	<10	<10	41	<10	27	
CC130773	<20	0.06	<10	<10	57	<10	50	
CC130774	<20	0.03	<10	<10	23	<10	22	
CC130775	<20	0.05	<10	<10	47	<10	39	
CC130776	<20	0.06	<10	<10	67	<10	49	
CC130777	<20	0.03	<10	<10	60	<10	56	
CC130778	<20	0.03	<10	<10	32	<10	41	
CC130779	<20	0.05	<10	<10	57	<10	53	
CC130780	<20	0.06	<10	<10	63	<10	48	
CC130781	<20	0.06	<10	<10	48	<10	38	
CC130782	<20	0.05	<10	<10	45	<10	32	
CC130783	<20	0.05	<10	<10	64	<10	46	
CC130784	20	0.04	<10	<10	6	<10	44	
CC130785	<20	0.05	<10	<10	41	<10	19	
CC130786	<20	0.07	<10	<10	58	<10	42	
CC130787	<20	0.05	<10	<10	49	<10	35	
CC130788	<20	0.06	<10	<10	47	<10	30	
CC130789	<20	0.02	<10	<10	44	<10	28	
CC130790	<20	0.05	<10	<10	66	<10	42	
CC130791	<20	0.10	<10	<10	80	<10	50	
CC130792	<20	0.08	<10	<10	84	<10	57	
CC130793	<20	0.07	<10	<10	58	<10	42	



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC130794		0.30	0.003	<0.2	2.76	7	<10	140	<0.5	<2	0.19	<0.5	11	35	23	2.96
CC130795		0.46	0.001	<0.2	2.36	11	<10	130	0.5	<2	0.22	<0.5	9	32	18	2.63
CC130796		0.48	0.002	<0.2	2.16	12	<10	160	<0.5	<2	0.16	<0.5	10	35	14	2.84
CC130797		0.44	0.001	<0.2	1.48	6	<10	100	<0.5	<2	0.14	<0.5	7	21	13	1.84
CC130798		0.46	0.001	<0.2	1.34	6	<10	100	<0.5	<2	0.19	<0.5	5	20	14	2.14
CC130799		0.38	0.002	<0.2	1.46	5	<10	160	<0.5	<2	0.46	<0.5	8	27	17	2.23
CC130800		0.58	0.008	<0.2	1.72	11	<10	180	<0.5	<2	0.52	<0.5	8	29	22	2.47
CC130801		0.16	0.002	<0.2	1.29	3	<10	150	<0.5	<2	1.20	<0.5	9	26	11	2.30
CC130802		0.50	0.003	<0.2	1.58	<2	<10	180	<0.5	<2	0.87	<0.5	8	38	18	2.02
CC130803		0.30	0.002	<0.2	1.73	5	<10	150	<0.5	<2	0.59	<0.5	11	41	13	2.89
CC130804		0.44	0.004	<0.2	1.71	5	<10	150	<0.5	<2	0.64	<0.5	11	41	15	3.02
CC130805		0.38	0.003	<0.2	1.68	7	<10	160	0.5	<2	0.70	<0.5	11	41	19	3.09
CC130806		0.38	0.002	<0.2	1.28	9	<10	120	<0.5	<2	0.93	<0.5	10	28	21	2.57
CC130807		0.06	0.041	<0.2	1.41	5	<10	290	<0.5	<2	1.02	<0.5	9	31	21	2.18
CC130808		0.28	0.001	<0.2	0.89	5	<10	190	<0.5	<2	0.49	<0.5	6	14	14	1.30
CC130809		0.20	0.001	<0.2	0.43	2	<10	40	<0.5	<2	0.15	<0.5	3	8	7	0.92
CC130810		0.38	0.002	<0.2	1.21	9	<10	80	<0.5	<2	0.14	<0.5	5	20	10	2.20
CC130811		0.38	0.002	<0.2	1.56	7	<10	110	<0.5	<2	0.16	<0.5	7	22	14	2.08
CC130812		0.32	0.002	<0.2	1.50	7	<10	100	<0.5	<2	0.15	<0.5	8	21	14	2.05
CC130813		0.36	0.001	<0.2	1.47	6	<10	100	<0.5	2	0.21	<0.5	6	22	17	2.15
CC130814		0.46	0.003	<0.2	2.48	11	<10	150	0.5	<2	0.21	<0.5	12	35	18	2.93
CC130815		0.44	0.002	<0.2	1.78	11	<10	140	<0.5	<2	0.25	<0.5	9	28	15	2.65
CC130816		0.40	0.003	<0.2	2.08	10	<10	190	0.6	2	0.37	<0.5	9	33	21	2.64
CC130817		0.42	0.003	<0.2	1.72	10	<10	170	<0.5	2	0.41	<0.5	9	33	22	2.67
CC130818		0.44	0.002	<0.2	1.41	8	<10	110	<0.5	<2	0.30	<0.5	8	27	10	2.32
CC130819		0.56	0.001	<0.2	1.86	9	<10	160	<0.5	<2	0.38	<0.5	9	33	20	2.64
CC130820		0.40	0.002	<0.2	2.11	10	<10	180	0.5	<2	0.62	<0.5	11	38	22	2.95
CC130821		0.54	0.003	<0.2	1.94	10	<10	140	<0.5	<2	0.49	<0.5	10	34	17	2.91
CC130822		0.28	0.002	<0.2	1.51	10	<10	140	<0.5	<2	0.37	<0.5	8	26	14	2.16
CC130823		0.38	0.003	<0.2	1.73	7	<10	150	<0.5	<2	0.50	<0.5	11	43	15	3.29
CC130824		0.52	0.004	<0.2	1.25	8	<10	100	<0.5	<2	0.29	<0.5	7	24	10	2.21
CC130825		0.36	0.002	<0.2	3.41	14	<10	240	0.7	3	0.77	<0.5	20	69	24	5.23
CC130826		0.36	0.003	<0.2	1.64	6	<10	150	<0.5	2	0.69	<0.5	9	37	31	2.33
CC130827		0.58	0.001	<0.2	2.40	7	<10	170	0.5	2	0.85	<0.5	16	59	21	4.02
CC130828		0.30	0.004	<0.2	1.42	10	<10	120	<0.5	2	0.43	<0.5	10	36	12	2.71
CC130829		0.60	0.005	<0.2	1.41	12	<10	110	<0.5	<2	0.51	<0.5	12	43	19	3.03
CC130830		0.44	0.006	<0.2	1.21	26	<10	130	0.5	<2	0.54	<0.5	10	35	19	3.56
CC130831		0.60	0.015	0.2	1.11	17	<10	160	0.5	2	0.55	<0.5	9	44	28	2.83
CC130832		0.34	0.004	<0.2	1.34	9	<10	160	<0.5	<2	0.57	<0.5	14	37	15	3.15
CC130833		0.56	0.005	<0.2	1.28	7	<10	140	<0.5	<2	0.46	<0.5	6	27	12	2.04



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC130794		10	1	0.06	10	0.63	276	<1	0.02	19	270	7	0.02	2	5	18
CC130795		10	<1	0.06	10	0.58	264	<1	0.02	20	270	5	0.02	<2	4	24
CC130796		10	<1	0.08	10	0.51	262	1	0.01	17	310	5	0.02	<2	4	18
CC130797		<10	<1	0.05	10	0.34	176	<1	0.02	12	330	2	0.02	<2	2	16
CC130798		<10	<1	0.04	10	0.29	153	1	0.01	8	330	4	0.02	<2	2	17
CC130799		10	<1	0.06	10	0.49	402	1	0.02	13	400	5	0.03	<2	3	28
CC130800		10	<1	0.07	10	0.49	421	1	0.02	16	480	6	0.03	<2	4	36
CC130801		<10	<1	0.05	10	0.53	437	<1	0.03	8	790	3	0.07	<2	5	51
CC130802		10	1	0.06	10	0.66	418	<1	0.02	13	550	5	0.06	<2	5	40
CC130803		10	<1	0.08	10	0.82	432	<1	0.02	16	450	4	0.03	<2	7	32
CC130804		10	1	0.07	10	0.80	443	1	0.02	14	420	6	0.03	<2	6	36
CC130805		10	<1	0.08	20	0.63	404	1	0.03	16	470	5	0.05	<2	8	40
CC130806		<10	<1	0.05	20	0.50	669	<1	0.02	11	700	8	0.07	<2	5	45
CC130807		<10	1	0.04	10	0.50	860	<1	0.03	15	780	3	0.08	<2	3	72
CC130808		<10	<1	0.04	20	0.24	395	<1	0.03	7	670	4	0.06	<2	4	33
CC130809		<10	<1	0.03	<10	0.09	65	<1	0.03	4	290	<2	0.03	<2	<1	15
CC130810		10	<1	0.05	10	0.30	140	<1	0.01	9	240	5	0.02	<2	2	14
CC130811		<10	<1	0.05	10	0.39	201	<1	0.02	12	330	4	0.02	<2	3	16
CC130812		<10	1	0.05	10	0.33	204	<1	0.02	12	280	3	0.02	2	3	15
CC130813		10	<1	0.05	10	0.38	187	<1	0.02	10	310	3	0.02	2	3	21
CC130814		10	<1	0.07	10	0.67	402	<1	0.02	16	290	6	0.02	2	6	19
CC130815		10	<1	0.07	10	0.53	274	<1	0.01	16	200	6	0.01	<2	4	21
CC130816		10	<1	0.07	30	0.54	346	<1	0.02	16	380	7	0.02	2	6	26
CC130817		10	<1	0.06	10	0.63	301	<1	0.02	15	380	6	0.03	<2	4	31
CC130818		10	<1	0.06	10	0.50	248	<1	0.02	11	250	3	0.02	<2	3	22
CC130819		10	<1	0.07	10	0.61	285	<1	0.02	15	330	6	0.02	2	4	29
CC130820		10	<1	0.07	10	0.67	511	<1	0.02	16	550	6	0.03	<2	6	39
CC130821		10	<1	0.06	10	0.68	417	<1	0.02	14	530	4	0.02	<2	5	33
CC130822		<10	1	0.06	10	0.46	338	<1	0.02	14	330	5	0.02	<2	4	26
CC130823		10	<1	0.09	10	0.81	405	<1	0.02	15	440	4	0.02	2	7	34
CC130824		<10	<1	0.07	10	0.44	269	<1	0.02	12	320	3	0.02	<2	3	20
CC130825		10	2	0.14	20	1.51	893	<1	0.06	25	560	9	0.05	<2	13	47
CC130826		10	<1	0.06	40	0.64	282	<1	0.03	14	710	5	0.05	<2	8	42
CC130827		10	<1	0.13	10	1.43	573	<1	0.04	18	750	7	0.04	2	8	50
CC130828		<10	<1	0.07	10	0.60	297	<1	0.02	12	470	6	0.02	<2	4	25
CC130829		<10	<1	0.08	20	0.65	799	<1	0.02	15	1030	27	0.02	3	7	27
CC130830		<10	<1	0.06	10	0.44	358	<1	0.03	11	710	26	0.03	2	6	31
CC130831		<10	<1	0.08	20	0.49	478	<1	0.03	18	1080	17	0.02	4	7	32
CC130832		<10	1	0.06	20	0.55	1325	<1	0.02	12	860	17	0.03	<2	6	30
CC130833		<10	<1	0.06	10	0.43	218	<1	0.02	12	390	5	0.03	<2	4	26



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC130794		<20	0.09	<10	<10	68	<10	45
CC130795		<20	0.08	<10	<10	59	<10	43
CC130796		<20	0.10	<10	<10	67	<10	47
CC130797		<20	0.06	<10	<10	44	<10	29
CC130798		<20	0.05	<10	<10	55	<10	28
CC130799		<20	0.06	<10	<10	55	<10	45
CC130800		<20	0.05	<10	<10	59	<10	50
CC130801		<20	0.03	<10	<10	58	<10	54
CC130802		<20	0.05	<10	<10	66	<10	43
CC130803		<20	0.06	<10	<10	74	<10	56
CC130804		<20	0.05	<10	<10	73	<10	53
CC130805		<20	0.05	<10	<10	77	<10	60
CC130806		<20	0.04	<10	<10	58	<10	49
CC130807		<20	0.05	<10	<10	57	<10	72
CC130808		<20	0.02	<10	<10	30	<10	22
CC130809		<20	0.03	<10	<10	28	<10	15
CC130810		<20	0.07	<10	<10	59	<10	30
CC130811		<20	0.04	<10	<10	49	<10	37
CC130812		<20	0.05	<10	<10	48	<10	31
CC130813		<20	0.04	<10	<10	53	<10	32
CC130814		<20	0.05	<10	<10	71	<10	46
CC130815		<20	0.07	<10	<10	63	<10	45
CC130816		<20	0.07	<10	<10	63	<10	44
CC130817		<20	0.06	<10	<10	66	<10	43
CC130818		<20	0.07	<10	<10	59	<10	41
CC130819		<20	0.06	<10	<10	67	<10	46
CC130820		<20	0.07	<10	<10	72	<10	48
CC130821		<20	0.07	<10	<10	72	<10	47
CC130822		<20	0.06	<10	<10	53	<10	38
CC130823		<20	0.08	<10	<10	82	<10	58
CC130824		<20	0.07	<10	<10	57	<10	39
CC130825		<20	0.11	<10	<10	136	<10	88
CC130826		<20	0.05	<10	<10	66	<10	48
CC130827		<20	0.08	<10	<10	109	<10	71
CC130828		<20	0.07	<10	<10	70	<10	49
CC130829		<20	0.05	<10	<10	77	<10	80
CC130830		<20	0.04	<10	<10	83	<10	61
CC130831		<20	0.05	<10	<10	71	<10	67
CC130832		<20	0.05	<10	<10	71	<10	64
CC130833		<20	0.07	<10	<10	50	<10	40





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Project: Wolverine BBB

**CERTIFICATE OF ANALYSIS WH11112633**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC130834		0.38	0.004	<0.2	1.75	7	<10	190	<0.5	2	0.28	<0.5	8	20	14	2.69
CC130835		0.38	0.007	<0.2	2.13	9	<10	190	<0.5	<2	0.34	<0.5	11	33	16	3.12
CC130836		0.56	0.001	<0.2	1.70	9	<10	270	0.8	4	0.25	<0.5	14	16	25	4.50
CC130837		0.36	0.003	1.6	2.13	13	<10	230	0.5	2	0.24	<0.5	8	31	24	3.02
CC130838		0.28	0.003	0.4	2.18	11	<10	520	0.6	3	0.46	<0.5	15	20	80	4.32
CC130839		0.36	0.002	<0.2	1.58	10	<10	170	<0.5	<2	0.17	<0.5	10	18	16	2.82
CC130840		0.30	0.004	<0.2	2.48	13	<10	280	<0.5	2	0.15	<0.5	13	23	38	4.53
CC130841		0.38	0.001	0.2	1.31	8	<10	180	<0.5	<2	0.30	<0.5	6	22	19	2.18
CC130842		0.22	0.014	0.3	1.59	5	<10	280	<0.5	<2	0.36	<0.5	8	19	44	2.90
CC130843		0.38	0.002	<0.2	1.61	7	<10	150	<0.5	<2	0.27	<0.5	9	21	17	2.73
CC130844		0.38	0.001	<0.2	3.35	5	<10	450	0.7	<2	0.48	<0.5	14	14	22	4.61
CC130845		0.26	0.001	0.2	1.41	41	<10	320	0.6	6	0.31	<0.5	14	12	104	4.82
CC130846		0.40	0.002	0.3	1.64	7	<10	410	<0.5	<2	0.48	<0.5	8	15	35	2.70
CC130847		0.32	0.002	0.2	1.23	6	<10	290	<0.5	<2	0.43	<0.5	8	17	21	3.05
CC130848		0.40	0.001	<0.2	0.68	7	<10	180	0.5	<2	0.22	<0.5	7	10	14	2.88
CC130849		0.36	0.005	<0.2	1.35	5	<10	410	<0.5	<2	0.71	<0.5	7	18	37	2.56
CC130850		0.14	0.003	<0.2	1.22	3	<10	400	<0.5	<2	0.76	<0.5	6	15	19	2.27
CC130851		0.46	0.001	0.2	2.42	7	<10	300	0.5	<2	0.20	<0.5	12	23	27	3.46
CC130852		0.42	0.004	<0.2	1.17	5	<10	380	0.8	<2	0.36	<0.5	11	10	14	3.55
CC130853		0.28	0.003	<0.2	0.99	4	<10	90	<0.5	<2	0.10	<0.5	5	16	9	2.06
CC130854		0.40	0.001	<0.2	2.03	6	<10	250	<0.5	<2	0.23	<0.5	9	16	19	2.93
CC130855		0.34	0.001	<0.2	2.41	7	<10	300	0.6	<2	0.21	<0.5	12	19	20	4.04
CC130856		0.42	0.001	<0.2	2.14	4	<10	400	0.8	<2	0.37	<0.5	13	11	16	4.52
CC130857		0.34	0.001	<0.2	1.48	11	<10	140	<0.5	<2	0.12	<0.5	7	20	19	2.55
CC130858		0.26	0.001	0.2	1.75	4	<10	260	<0.5	<2	0.12	<0.5	8	19	17	2.55
CC130859		0.42	0.003	<0.2	1.73	9	<10	240	<0.5	<2	0.17	<0.5	8	23	13	2.40
CC130860		0.42	0.001	0.6	2.78	8	<10	380	0.8	14	0.27	<0.5	14	18	30	4.64
CC130861		0.24	0.002	0.2	1.42	7	<10	140	<0.5	<2	0.23	<0.5	7	22	14	2.73
CC130862		0.44	<0.001	<0.2	2.04	36	<10	270	0.6	<2	0.25	<0.5	11	16	9	3.84
CC130863		0.36	0.002	<0.2	2.84	5	<10	390	0.7	<2	0.51	<0.5	15	17	32	4.28
CC130864		0.40	0.001	0.2	2.39	5	<10	250	0.7	6	0.45	<0.5	11	14	36	3.61
CC130865		0.44	0.003	0.2	2.10	5	<10	160	<0.5	7	0.22	<0.5	8	19	15	2.96



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Project: Wolverine BBB

**CERTIFICATE OF ANALYSIS WH11112633**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC130834		10	1	0.10	10	0.46	339	<1	0.01	11	500	6	0.02	<2	5	20
CC130835		10	<1	0.07	10	0.50	330	<1	0.02	17	300	8	0.02	<2	7	26
CC130836		10	1	0.10	10	0.35	760	<1	0.01	8	440	9	0.02	<2	9	23
CC130837		10	<1	0.08	10	0.49	322	1	0.01	14	410	32	0.02	<2	5	21
CC130838		10	<1	0.15	10	0.54	1040	<1	0.02	12	560	9	0.03	<2	7	41
CC130839		10	<1	0.14	10	0.44	431	<1	0.01	9	350	4	0.02	<2	4	16
CC130840		10	1	0.28	10	0.64	486	<1	0.02	13	480	7	0.02	2	10	15
CC130841		<10	<1	0.07	10	0.39	228	<1	0.02	11	460	4	0.02	<2	3	21
CC130842		10	<1	0.16	20	0.41	532	2	0.02	14	490	9	0.03	<2	8	27
CC130843		10	<1	0.19	10	0.54	333	<1	0.02	13	260	7	0.01	<2	4	21
CC130844		10	<1	0.41	20	1.20	801	<1	0.02	9	460	6	0.01	<2	14	34
CC130845		<10	<1	0.23	20	0.41	1045	6	0.01	8	660	26	0.02	3	10	18
CC130846		10	<1	0.19	40	0.43	473	2	0.02	9	550	7	0.04	<2	6	35
CC130847		<10	<1	0.16	30	0.52	604	2	0.02	9	790	6	0.02	<2	9	23
CC130848		<10	<1	0.11	10	0.21	427	2	0.01	5	220	10	0.01	<2	5	19
CC130849		10	<1	0.13	10	0.37	420	1	0.02	10	550	7	0.04	<2	5	51
CC130850		<10	<1	0.14	10	0.40	310	<1	0.02	8	430	4	0.05	<2	4	41
CC130851		10	<1	0.15	20	0.64	578	<1	0.01	14	380	7	0.01	<2	6	21
CC130852		<10	<1	0.24	20	0.42	803	<1	0.01	5	700	10	0.01	<2	9	23
CC130853		10	<1	0.12	10	0.34	239	<1	0.02	7	140	5	0.01	<2	3	12
CC130854		10	<1	0.23	10	0.63	409	<1	0.02	10	500	5	0.01	<2	6	19
CC130855		10	<1	0.22	10	0.73	482	1	0.01	10	340	9	0.01	<2	9	22
CC130856		10	<1	0.26	20	0.64	951	5	0.01	6	730	10	0.01	<2	14	28
CC130857		10	<1	0.06	10	0.34	373	<1	0.01	12	400	6	0.01	<2	3	13
CC130858		10	<1	0.07	10	0.43	468	<1	0.02	12	340	5	0.01	<2	2	14
CC130859		10	<1	0.09	10	0.46	295	<1	0.01	14	260	6	0.01	<2	4	20
CC130860		10	1	0.35	10	0.69	610	4	0.02	12	690	67	0.01	<2	13	24
CC130861		10	<1	0.10	10	0.40	302	1	0.02	10	350	8	0.01	<2	3	20
CC130862		10	<1	0.29	20	0.55	515	1	0.01	9	450	6	0.01	<2	8	22
CC130863		10	<1	0.34	20	0.98	825	<1	0.02	9	560	8	0.01	<2	11	29
CC130864		10	1	0.18	20	0.83	593	<1	0.02	7	420	17	0.01	<2	8	26
CC130865		10	<1	0.10	10	0.63	338	<1	0.01	10	460	9	0.02	<2	4	20



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Project: Wolverine BBB

**CERTIFICATE OF ANALYSIS WH11112633**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC130834		<20	0.07	<10	<10	60	<10	44
CC130835		<20	0.08	<10	<10	79	<10	50
CC130836		<20	0.02	<10	<10	85	<10	67
CC130837		<20	0.08	<10	<10	66	<10	57
CC130838		<20	0.12	<10	<10	92	<10	72
CC130839		<20	0.12	<10	<10	64	<10	39
CC130840		<20	0.16	<10	<10	101	<10	69
CC130841		<20	0.08	<10	<10	50	<10	37
CC130842		<20	0.07	<10	<10	61	<10	54
CC130843		<20	0.12	<10	<10	62	<10	49
CC130844		20	0.16	<10	<10	105	<10	71
CC130845		20	0.08	<10	<10	81	<10	76
CC130846		<20	0.09	<10	<10	60	<10	51
CC130847		<20	0.08	<10	<10	60	<10	51
CC130848		<20	0.04	<10	<10	52	<10	44
CC130849		<20	0.06	<10	<10	55	<10	54
CC130850		<20	0.08	<10	<10	46	<10	52
CC130851		<20	0.14	<10	<10	80	<10	49
CC130852		<20	0.10	<10	<10	75	<10	53
CC130853		<20	0.12	<10	<10	57	<10	34
CC130854		<20	0.13	<10	<10	68	<10	50
CC130855		20	0.14	<10	<10	94	<10	58
CC130856		30	0.12	<10	<10	86	<10	63
CC130857		<20	0.08	<10	<10	57	<10	40
CC130858		<20	0.13	<10	<10	62	<10	40
CC130859		<20	0.10	<10	<10	55	<10	40
CC130860		20	0.15	<10	<10	102	<10	79
CC130861		<20	0.08	<10	<10	59	<10	45
CC130862		<20	0.11	<10	<10	84	<10	58
CC130863		20	0.12	<10	<10	86	<10	62
CC130864		<20	0.06	<10	<10	74	<10	57
CC130865		<20	0.12	<10	<10	68	<10	44



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**CERTIFICATE WH11112634**

Project: Wolverine BBB  
 P.O. No.:  
 This report is for 101 Soil samples submitted to our lab in Whitehorse, YT, Canada on 19-JUN- 2011.  
 The following have access to data associated with this certificate:  
 JOAN MARIACHER                      HEATHER SMITH

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH11112634**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC130257		0.38	0.001	<0.2	2.68	15	<10	560	0.6	<2	0.31	0.8	10	15	25	3.80
CC130258		0.52	0.001	<0.2	1.93	7	<10	200	0.7	<2	0.40	<0.5	10	12	11	3.39
CC130259		0.60	<0.001	0.2	2.61	13	<10	220	0.8	<2	0.30	1.7	12	13	26	4.15
CC130260		0.16	<0.001	<0.2	0.28	<2	<10	30	<0.5	2	0.08	<0.5	3	4	5	0.83
CC130261		0.20	0.001	<0.2	0.68	2	<10	90	<0.5	<2	0.25	<0.5	3	10	5	0.94
CC130262		0.56	0.001	<0.2	1.82	8	<10	130	<0.5	<2	0.37	<0.5	9	28	17	2.80
CC130263		0.22	<0.001	<0.2	1.00	6	<10	110	<0.5	<2	0.39	<0.5	10	15	21	2.35
CC130264		0.60	<0.001	<0.2	1.89	9	<10	190	<0.5	2	0.43	<0.5	12	33	15	3.15
CC130265		0.74	<0.001	<0.2	1.80	10	<10	130	<0.5	<2	0.39	<0.5	10	29	19	2.79
CC130266		0.22	0.001	<0.2	2.38	11	<10	140	0.5	<2	0.38	<0.5	11	34	24	3.07
CC130267		0.54	0.003	<0.2	2.25	10	<10	140	<0.5	2	0.23	<0.5	10	29	20	3.11
CC130268		0.54	<0.001	<0.2	2.48	7	<10	120	<0.5	3	0.21	<0.5	11	31	24	3.06
CC130269		0.56	0.002	<0.2	3.89	8	<10	170	0.7	<2	0.36	<0.5	19	47	33	4.68
CC130270		0.34	0.001	<0.2	1.82	9	<10	120	<0.5	<2	0.17	<0.5	8	30	12	3.11
CC130271		0.58	<0.001	<0.2	1.76	8	<10	100	<0.5	<2	0.19	<0.5	8	20	14	2.41
CC130272		0.42	<0.001	<0.2	4.49	11	<10	180	0.7	<2	0.19	<0.5	24	64	30	5.25
CC130273		0.46	0.001	<0.2	1.91	8	<10	180	<0.5	<2	0.28	<0.5	10	31	30	3.23
CC130274		0.62	0.008	<0.2	1.28	10	<10	80	<0.5	<2	0.16	<0.5	8	23	11	2.53
CC130275		0.36	<0.001	<0.2	0.94	5	<10	70	<0.5	<2	0.15	<0.5	4	14	20	1.45
CC130276		0.48	<0.001	<0.2	1.82	5	<10	80	<0.5	<2	0.26	<0.5	9	31	12	2.79
CC130277		0.42	0.006	<0.2	2.11	9	<10	120	<0.5	<2	0.26	<0.5	10	31	14	2.82
CC130278		0.50	<0.001	<0.2	1.95	8	<10	200	<0.5	<2	0.27	<0.5	8	22	10	2.97
CC130279		0.60	<0.001	<0.2	1.56	7	<10	270	0.5	3	0.33	<0.5	7	15	14	2.72
CC130280		0.46	0.001	<0.2	2.32	13	<10	210	<0.5	2	0.26	<0.5	10	24	17	3.42
CC130281		0.44	<0.001	0.2	1.71	3	<10	290	<0.5	<2	0.37	<0.5	7	10	21	2.37
CC130282		0.30	0.007	0.2	1.46	8	<10	260	<0.5	2	0.35	<0.5	7	18	15	2.38
CC130283		0.50	<0.001	<0.2	1.86	6	<10	390	<0.5	<2	0.38	<0.5	12	14	7	3.71
CC130284		0.34	<0.001	<0.2	1.25	8	<10	250	<0.5	<2	0.31	<0.5	9	19	10	2.66
CC130285		0.58	0.009	<0.2	2.08	9	<10	380	0.5	<2	0.26	<0.5	9	22	18	2.90
CC130286		0.48	0.003	0.2	2.25	9	<10	190	0.5	2	0.23	<0.5	9	18	20	3.37
CC130287		0.46	<0.001	0.4	1.20	5	<10	220	0.5	5	0.30	<0.5	9	11	53	2.95
CC130288		0.38	<0.001	<0.2	1.22	6	<10	120	<0.5	<2	0.16	<0.5	7	12	15	2.43
CC130289		0.40	<0.001	0.3	2.28	9	<10	150	0.5	3	0.20	<0.5	8	27	26	3.37
CC130290		0.34	0.005	<0.2	1.37	7	<10	110	<0.5	<2	0.13	<0.5	7	16	13	2.50
CC130291		0.48	0.002	0.3	2.21	6	<10	240	<0.5	3	0.32	<0.5	9	20	38	3.32
CC130292		0.14	0.002	0.2	1.68	6	<10	140	<0.5	2	0.21	<0.5	9	17	22	2.49
CC130293		0.54	<0.001	0.5	1.75	8	<10	140	<0.5	<2	0.18	<0.5	6	20	24	2.57
CC130294		0.16	<0.001	0.3	0.93	3	<10	110	<0.5	<2	0.18	<0.5	6	12	19	1.85
CC130295		0.42	<0.001	0.2	1.83	7	<10	150	<0.5	<2	0.21	<0.5	8	20	16	3.15
CC130296		0.50	<0.001	<0.2	3.28	7	<10	230	0.6	<2	0.19	<0.5	13	25	27	4.06

Comments: \*\*\*Corrected copy with PO name changed to Wolverine BBB\*\*\*



ALS Canada Ltd.  
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To: ARCHER, CATHRO AND ASSOCIATES (1981)  
 LIMITED  
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 VANCOUVER BC V6B 1L8

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Project: Wolverine BBB

**CERTIFICATE OF ANALYSIS WH11112634**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC130257		10	<1	0.12	10	0.62	547	17	0.02	11	300	125	0.01	<2	6	32
CC130258		10	<1	0.11	30	0.64	726	17	0.03	6	670	10	0.01	<2	9	21
CC130259		10	<1	0.15	20	0.56	698	9	0.03	10	640	107	0.01	<2	8	21
CC130260		<10	<1	0.03	<10	0.04	65	1	0.04	2	240	2	0.01	<2	<1	12
CC130261		<10	<1	0.05	10	0.21	123	2	0.03	5	510	9	0.02	<2	2	17
CC130262		10	<1	0.10	10	0.66	314	1	0.03	12	320	8	0.01	<2	4	24
CC130263		<10	<1	0.08	10	0.28	558	1	0.04	7	530	6	0.01	<2	2	27
CC130264		10	<1	0.13	10	0.91	418	1	0.03	12	300	9	0.01	<2	6	25
CC130265		10	<1	0.12	10	0.76	403	<1	0.03	12	310	11	0.01	<2	6	23
CC130266		10	<1	0.11	10	0.74	381	1	0.03	19	490	9	0.01	<2	5	24
CC130267		10	<1	0.10	10	0.66	289	1	0.03	16	300	8	0.01	<2	4	20
CC130268		10	<1	0.16	10	0.83	346	<1	0.03	15	340	9	0.01	<2	5	22
CC130269		10	<1	0.18	10	1.55	689	<1	0.03	19	470	11	<0.01	<2	13	31
CC130270		10	<1	0.10	10	0.65	345	1	0.02	14	210	8	0.01	<2	4	16
CC130271		<10	<1	0.07	10	0.49	348	<1	0.03	9	350	5	0.01	<2	4	18
CC130272		10	<1	0.16	10	1.72	790	<1	0.03	25	470	10	0.01	2	16	22
CC130273		10	<1	0.10	10	0.73	407	1	0.03	13	280	10	0.01	<2	5	27
CC130274		10	<1	0.09	10	0.42	261	1	0.02	13	350	7	0.01	<2	2	13
CC130275		<10	<1	0.06	10	0.26	186	<1	0.04	7	260	4	0.01	<2	2	16
CC130276		10	1	0.10	10	0.84	296	1	0.03	13	200	5	<0.01	<2	4	24
CC130277		10	<1	0.09	10	0.63	313	<1	0.03	15	380	7	0.01	<2	4	20
CC130278		10	1	0.15	10	0.62	330	1	0.03	12	280	7	<0.01	2	4	21
CC130279		10	<1	0.19	30	0.53	400	2	0.03	9	280	7	0.01	<2	7	23
CC130280		10	<1	0.22	10	0.70	354	1	0.03	16	200	10	0.01	<2	5	21
CC130281		10	<1	0.21	20	0.55	386	<1	0.04	6	550	5	0.02	<2	5	28
CC130282		10	1	0.13	20	0.52	295	1	0.03	10	250	8	0.01	2	5	23
CC130283		10	<1	0.30	10	0.72	565	3	0.03	7	270	8	0.01	<2	7	24
CC130284		<10	<1	0.11	10	0.46	450	1	0.02	10	200	11	0.03	<2	4	23
CC130285		10	<1	0.15	20	0.53	304	1	0.02	14	310	10	0.01	<2	7	20
CC130286		10	<1	0.18	10	0.52	310	2	0.02	10	250	12	0.03	<2	6	21
CC130287		<10	<1	0.14	20	0.40	527	3	0.03	6	500	17	0.02	<2	6	19
CC130288		10	<1	0.09	10	0.43	252	2	0.03	6	160	7	0.01	<2	3	17
CC130289		10	<1	0.14	10	0.58	341	2	0.03	15	290	14	0.01	2	5	19
CC130290		10	<1	0.10	10	0.36	251	1	0.03	10	200	8	0.01	<2	3	13
CC130291		10	1	0.16	10	0.63	389	1	0.03	12	460	15	<0.01	<2	6	25
CC130292		<10	<1	0.16	10	0.44	398	2	0.03	9	390	13	0.01	2	4	17
CC130293		10	<1	0.10	10	0.45	263	2	0.01	14	420	13	0.02	<2	3	14
CC130294		<10	<1	0.07	10	0.21	263	3	0.02	6	320	13	0.01	2	3	15
CC130295		10	<1	0.13	10	0.46	319	1	0.02	12	460	13	0.01	<2	4	20
CC130296		10	<1	0.24	10	0.91	476	<1	0.02	16	360	8	0.01	<2	9	19

Comments: \*\*\*Corrected copy with PO name changed to Wolverine BBB\*\*\*





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Project: Wolverine BBB

**CERTIFICATE OF ANALYSIS WH11112634**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC130257		20	0.04	<10	<10	61	<10	148
CC130258		20	0.04	<10	<10	62	20	47
CC130259		20	0.05	<10	<10	67	<10	155
CC130260		<20	0.03	<10	<10	26	<10	13
CC130261		<20	0.05	<10	<10	21	<10	29
CC130262		<20	0.10	<10	<10	72	<10	47
CC130263		<20	0.08	<10	<10	69	<10	42
CC130264		<20	0.12	<10	<10	79	<10	51
CC130265		<20	0.09	<10	<10	72	<10	56
CC130266		<20	0.10	<10	<10	70	<10	57
CC130267		<20	0.10	<10	<10	74	<10	48
CC130268		<20	0.12	<10	<10	78	<10	51
CC130269		<20	0.12	<10	<10	120	<10	76
CC130270		<20	0.11	<10	<10	75	<10	52
CC130271		<20	0.05	<10	<10	59	<10	34
CC130272		<20	0.12	<10	<10	135	<10	76
CC130273		<20	0.11	<10	<10	88	<10	48
CC130274		<20	0.08	<10	<10	54	<10	41
CC130275		<20	0.06	<10	<10	35	<10	25
CC130276		<20	0.12	<10	<10	68	<10	48
CC130277		<20	0.09	<10	<10	67	<10	45
CC130278		<20	0.12	<10	<10	67	<10	49
CC130279		<20	0.11	<10	<10	63	<10	43
CC130280		<20	0.15	<10	<10	80	<10	58
CC130281		<20	0.12	<10	<10	53	<10	43
CC130282		<20	0.09	<10	<10	54	<10	37
CC130283		<20	0.15	<10	<10	78	<10	60
CC130284		<20	0.07	<10	<10	52	<10	45
CC130285		<20	0.08	<10	<10	59	<10	48
CC130286		<20	0.09	<10	<10	75	<10	49
CC130287		<20	0.07	<10	<10	59	<10	52
CC130288		<20	0.12	<10	<10	70	<10	37
CC130289		<20	0.10	<10	<10	69	<10	52
CC130290		<20	0.10	<10	<10	58	<10	36
CC130291		<20	0.12	<10	<10	72	<10	50
CC130292		<20	0.10	<10	<10	55	<10	37
CC130293		<20	0.09	<10	<10	56	<10	41
CC130294		<20	0.06	<10	<10	46	<10	26
CC130295		<20	0.10	<10	<10	64	<10	40
CC130296		<20	0.16	<10	<10	93	<10	62

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**CERTIFICATE OF ANALYSIS WH11112634**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC130297		0.48	0.002	<0.2	2.50	7	<10	140	<0.5	<2	0.24	<0.5	11	32	23	3.24
CC130298		0.44	0.007	0.6	1.83	9	<10	140	<0.5	<2	0.20	<0.5	8	26	18	2.55
CC130299		0.46	0.002	<0.2	4.21	8	<10	180	0.6	4	0.29	<0.5	16	35	59	3.98
CC130300		0.38	0.001	<0.2	3.25	6	<10	310	0.6	<2	0.24	<0.5	13	19	18	3.85
CC130301		0.60	<0.001	<0.2	3.01	9	<10	220	0.7	<2	0.42	0.5	18	44	47	5.14
CC130302		0.34	<0.001	<0.2	3.51	11	<10	320	0.7	<2	0.23	<0.5	16	29	23	4.64
CC130303		0.62	0.001	<0.2	1.35	3	<10	180	<0.5	<2	0.47	<0.5	8	27	17	2.34
CC130304		0.38	<0.001	<0.2	1.05	4	<10	200	<0.5	<2	0.27	<0.5	8	13	8	2.36
CC130305		0.62	0.032	<0.2	1.76	7	<10	170	<0.5	<2	0.20	<0.5	8	19	11	3.36
CC130306		0.52	<0.001	<0.2	1.05	6	<10	140	<0.5	<2	0.17	<0.5	5	17	12	2.04
CC130307		0.50	<0.001	<0.2	1.93	8	<10	180	<0.5	<2	0.20	<0.5	7	23	12	2.94
CC130308		0.36	0.005	<0.2	1.85	9	<10	120	<0.5	<2	0.21	<0.5	6	26	17	2.68
CC130309		0.30	0.003	0.2	0.83	3	<10	120	<0.5	<2	0.23	<0.5	4	14	8	1.98
CC130310		0.30	0.002	0.2	0.97	2	<10	120	<0.5	<2	0.21	<0.5	4	13	8	1.50
CC130311		0.40	<0.001	<0.2	0.83	2	<10	110	<0.5	<2	0.49	<0.5	3	11	12	1.11
CC130312		0.46	0.004	<0.2	1.14	4	<10	110	<0.5	<2	0.34	<0.5	6	19	11	2.17
CC130313		0.34	<0.001	<0.2	1.26	4	<10	130	<0.5	<2	0.38	<0.5	7	20	15	2.08
CC130314		0.42	<0.001	<0.2	1.52	4	<10	110	0.5	<2	0.30	<0.5	8	21	14	2.18
CC130315		0.22	<0.001	<0.2	2.38	7	<10	240	0.7	<2	0.65	<0.5	8	28	24	2.86
CC130316		0.34	0.002	<0.2	1.42	2	<10	190	0.6	<2	0.64	<0.5	8	16	35	1.81
CC130317		0.48	0.003	0.3	2.48	8	<10	330	0.9	<2	0.72	<0.5	9	28	31	3.53
CC130318		0.62	0.003	<0.2	2.05	7	<10	180	0.5	<2	0.29	<0.5	9	26	13	2.88
CC130319		0.56	0.001	<0.2	2.40	9	<10	150	0.5	<2	0.20	<0.5	9	27	15	2.79
CC130320		0.54	0.001	<0.2	1.57	6	<10	110	<0.5	<2	0.22	<0.5	6	23	12	2.19
CC130321		0.52	0.005	<0.2	1.85	5	<10	150	<0.5	<2	0.29	<0.5	8	26	15	2.67
CC130322		0.46	<0.001	0.2	2.01	7	<10	100	<0.5	<2	0.17	<0.5	8	26	14	2.72
CC130323		0.54	<0.001	<0.2	1.31	4	<10	110	<0.5	<2	0.13	<0.5	6	15	21	1.94
CC130324		0.54	<0.001	<0.2	2.06	9	<10	120	<0.5	<2	0.15	<0.5	7	27	22	3.32
CC130325		0.56	0.006	<0.2	1.93	6	<10	100	0.5	<2	0.20	<0.5	9	26	15	2.90
CC130326		0.32	0.001	0.2	2.40	5	<10	210	0.5	<2	0.42	<0.5	8	35	23	2.75
CC130327		0.36	0.001	<0.2	1.49	5	<10	110	<0.5	<2	0.29	<0.5	9	29	16	2.96
CC130328		0.48	<0.001	0.2	3.56	7	<10	170	0.6	2	0.32	<0.5	16	52	19	4.62
CC130329		0.38	<0.001	<0.2	1.93	10	<10	170	0.8	2	0.32	<0.5	20	36	32	4.61
CC130330		0.46	0.002	<0.2	2.43	6	<10	280	<0.5	<2	0.68	<0.5	19	62	32	4.76
CC130331		0.52	0.066	0.2	2.08	7	<10	220	0.5	<2	0.56	<0.5	10	35	35	3.13
CC130332		0.26	<0.001	0.3	1.28	3	<10	70	<0.5	<2	0.12	<0.5	5	16	18	1.71
CC130333		0.36	<0.001	0.2	2.01	9	<10	110	<0.5	<2	0.14	<0.5	9	31	21	3.50
CC130334		0.32	<0.001	<0.2	2.96	13	<10	160	0.5	<2	0.22	<0.5	13	39	46	3.91
CC130335		0.44	0.004	0.2	2.61	17	<10	130	0.5	<2	0.15	<0.5	12	33	30	3.16
CC130336		0.56	<0.001	<0.2	1.83	10	<10	190	<0.5	<2	0.38	<0.5	9	38	22	2.99

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**CERTIFICATE OF ANALYSIS WH11112634**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC130297		10	1	0.11	10	0.76	399	<1	0.02	16	250	11	0.01	<2	7	23
CC130298		10	<1	0.06	10	0.49	463	1	0.02	14	220	8	0.01	<2	3	21
CC130299		10	<1	0.15	20	1.17	493	<1	0.02	18	380	9	0.01	<2	8	33
CC130300		10	<1	0.23	20	0.77	549	<1	0.02	12	650	6	0.02	<2	12	21
CC130301		10	1	0.28	20	1.34	749	1	0.02	17	850	10	0.02	2	15	25
CC130302		10	<1	0.24	10	0.84	574	1	0.02	22	460	9	0.02	2	10	24
CC130303		<10	1	0.14	20	0.59	268	<1	0.02	13	790	7	0.02	<2	5	27
CC130304		<10	1	0.09	10	0.44	581	<1	0.02	6	580	5	0.03	<2	4	19
CC130305		10	<1	0.15	10	0.59	319	1	0.02	9	430	6	0.02	<2	4	16
CC130306		10	<1	0.07	10	0.28	220	<1	0.01	7	160	6	0.02	<2	2	18
CC130307		10	<1	0.12	10	0.56	310	<1	0.01	12	320	5	0.02	<2	5	17
CC130308		<10	<1	0.10	10	0.48	235	<1	0.02	19	440	6	0.02	<2	4	17
CC130309		<10	<1	0.05	10	0.24	160	<1	0.02	7	390	4	0.02	<2	2	18
CC130310		<10	<1	0.05	10	0.26	132	<1	0.02	6	470	3	0.03	<2	2	16
CC130311		<10	<1	0.04	20	0.24	74	<1	0.03	5	650	<2	0.05	<2	2	41
CC130312		<10	<1	0.07	10	0.39	284	<1	0.02	11	530	4	0.03	<2	3	22
CC130313		<10	1	0.07	30	0.38	388	<1	0.02	10	270	7	0.03	<2	4	27
CC130314		<10	<1	0.06	20	0.39	336	<1	0.03	10	450	5	0.03	<2	4	25
CC130315		10	<1	0.09	40	0.58	299	<1	0.02	15	990	7	0.07	<2	6	43
CC130316		<10	<1	0.05	20	0.23	909	<1	0.03	10	1050	4	0.07	<2	5	48
CC130317		10	<1	0.11	50	0.51	604	<1	0.02	13	1240	8	0.06	<2	12	53
CC130318		10	<1	0.08	10	0.55	399	<1	0.02	13	350	6	<0.01	<2	5	26
CC130319		10	2	0.08	10	0.52	294	<1	0.01	16	330	8	0.01	<2	5	16
CC130320		10	1	0.06	10	0.39	266	<1	0.02	12	450	5	0.02	<2	3	17
CC130321		10	<1	0.06	10	0.47	347	<1	0.02	13	390	6	0.01	2	6	25
CC130322		10	<1	0.06	10	0.45	223	<1	0.02	14	340	6	0.01	<2	3	17
CC130323		10	<1	0.04	10	0.22	325	<1	0.03	8	290	4	0.01	<2	2	18
CC130324		10	<1	0.07	10	0.42	238	<1	0.01	14	340	9	0.01	<2	4	16
CC130325		10	<1	0.06	10	0.40	321	<1	0.02	16	430	8	0.02	2	5	17
CC130326		10	1	0.05	10	0.51	300	<1	0.02	15	810	8	0.03	<2	5	34
CC130327		<10	<1	0.06	10	0.51	475	<1	0.02	13	480	6	0.01	2	5	22
CC130328		10	1	0.14	10	1.18	506	<1	0.02	18	440	8	0.01	2	11	30
CC130329		10	1	0.12	20	0.61	1170	<1	0.01	27	850	12	<0.01	6	10	22
CC130330		10	<1	0.21	10	1.52	1015	<1	0.03	19	670	8	0.01	4	12	43
CC130331		10	<1	0.10	20	0.84	490	<1	0.02	16	530	14	0.01	2	12	36
CC130332		<10	<1	0.05	10	0.23	161	<1	0.02	8	340	10	<0.01	<2	2	13
CC130333		10	<1	0.07	10	0.59	290	<1	0.02	11	360	8	<0.01	2	5	17
CC130334		10	1	0.11	10	0.76	362	<1	0.02	20	280	13	<0.01	8	7	26
CC130335		10	1	0.09	10	0.57	274	<1	0.01	21	370	10	0.01	2	5	15
CC130336		10	<1	0.11	10	0.72	342	<1	0.02	19	350	7	0.01	<2	5	29

Comments: \*\*\*Corrected copy with PO name changed to Wolverine BBB\*\*\*



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Project: Wolverine BBB

**CERTIFICATE OF ANALYSIS WH11112634**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC130297		<20	0.12	<10	<10	80	<10	51
CC130298		<20	0.08	<10	<10	61	<10	42
CC130299		<20	0.03	<10	<10	81	<10	59
CC130300		20	0.12	<10	<10	87	<10	57
CC130301		<20	0.26	<10	<10	133	<10	77
CC130302		20	0.17	<10	<10	97	<10	68
CC130303		<20	0.14	<10	<10	63	<10	49
CC130304		<20	0.07	<10	<10	52	<10	40
CC130305		<20	0.16	<10	<10	80	<10	49
CC130306		<20	0.12	<10	<10	62	<10	31
CC130307		<20	0.11	<10	<10	68	<10	45
CC130308		<20	0.10	<10	<10	56	<10	45
CC130309		<20	0.08	<10	<10	57	<10	33
CC130310		<20	0.05	<10	<10	35	<10	28
CC130311		<20	0.04	<10	10	29	<10	25
CC130312		<20	0.06	<10	<10	49	<10	36
CC130313		<20	0.08	<10	<10	52	<10	41
CC130314		<20	0.06	<10	<10	51	<10	41
CC130315		<20	0.06	<10	<10	67	<10	51
CC130316		<20	0.03	<10	<10	39	<10	27
CC130317		<20	0.03	<10	<10	75	<10	52
CC130318		<20	0.07	<10	<10	63	<10	51
CC130319		<20	0.06	<10	<10	58	<10	47
CC130320		<20	0.07	<10	<10	48	<10	36
CC130321		<20	0.07	<10	<10	63	<10	42
CC130322		<20	0.08	<10	<10	59	<10	42
CC130323		<20	0.05	<10	<10	48	<10	26
CC130324		<20	0.09	<10	<10	74	<10	41
CC130325		<20	0.07	<10	<10	59	<10	46
CC130326		<20	0.05	<10	<10	67	<10	49
CC130327		<20	0.05	<10	<10	67	<10	43
CC130328		<20	0.11	<10	<10	120	<10	66
CC130329		<20	0.05	<10	<10	95	<10	79
CC130330		<20	0.12	<10	<10	139	<10	106
CC130331		<20	0.06	<10	<10	82	<10	59
CC130332		<20	0.06	<10	<10	39	<10	28
CC130333		<20	0.09	<10	<10	92	<10	39
CC130334		<20	0.08	<10	<10	91	<10	57
CC130335		<20	0.07	<10	<10	63	<10	48
CC130336		<20	0.10	<10	<10	72	<10	52

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Project: Wolverine BBB

**CERTIFICATE OF ANALYSIS WH11112634**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC130337		0.32	0.004	<0.2	2.06	9	<10	180	<0.5	<2	0.38	<0.5	10	39	20	3.19
CC130338		0.46	<0.001	<0.2	2.36	22	<10	180	<0.5	<2	0.53	<0.5	11	49	67	3.69
CC130339		0.36	0.014	<0.2	1.27	5	<10	150	<0.5	<2	0.37	<0.5	7	29	16	2.60
CC130340		0.56	<0.001	0.2	1.05	<2	<10	140	<0.5	<2	0.55	<0.5	6	16	20	1.89
CC130341		0.30	<0.001	<0.2	1.49	6	<10	210	<0.5	<2	0.55	<0.5	12	22	33	2.91
CC130342		0.64	0.002	<0.2	1.05	5	<10	130	<0.5	<2	0.44	<0.5	9	31	13	2.74
CC130343		0.70	0.003	0.4	2.12	6	<10	180	0.6	<2	0.61	<0.5	12	52	36	3.15
CC130344		0.46	0.004	0.4	2.14	4	<10	210	0.7	<2	1.04	0.5	11	46	41	2.31
CC130345		0.32	0.001	0.2	0.88	<2	<10	130	<0.5	<2	1.17	<0.5	6	16	18	1.55
CC130346		0.46	0.001	<0.2	1.81	4	<10	170	<0.5	<2	0.79	<0.5	11	38	20	3.13
CC130347		0.22	<0.001	0.6	1.18	<2	<10	140	<0.5	<2	0.88	<0.5	5	14	28	1.75
CC130348		0.24	0.001	0.6	1.16	2	<10	150	<0.5	<2	1.10	0.6	7	20	25	1.69
CC130349		0.28	0.004	0.5	1.81	4	<10	200	0.5	<2	0.67	<0.5	7	39	39	2.04
CC130350		0.40	0.003	0.3	1.60	4	<10	170	<0.5	<2	0.68	<0.5	8	37	28	2.37
CC130351		0.48	0.001	<0.2	1.55	8	<10	170	<0.5	<2	0.57	<0.5	8	33	19	2.60
CC130352		0.20	0.005	0.4	0.86	5	<10	170	<0.5	<2	1.25	<0.5	7	10	23	2.25
CC130353		0.32	<0.001	0.3	0.43	<2	<10	70	<0.5	<2	0.72	<0.5	4	5	14	0.98
CC130354		0.38	0.001	0.2	1.96	9	<10	190	<0.5	<2	0.61	<0.5	10	36	20	2.90
CC130355		0.24	<0.001	0.2	0.44	<2	<10	100	<0.5	<2	1.67	<0.5	3	5	16	0.74
CC130356		0.40	0.011	0.3	1.87	7	<10	220	0.5	<2	0.89	<0.5	11	38	26	2.97
CC130357		0.38	0.002	<0.2	1.50	7	<10	190	<0.5	<2	0.70	<0.5	12	33	18	3.04

Comments: \*\*\*Corrected copy with PO name changed to Wolverine BBB\*\*\*



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Project: Wolverine BBB

**CERTIFICATE OF ANALYSIS WH11112634**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC130337		10	<1	0.11	10	0.84	429	<1	0.02	16	370	9	0.01	2	6	26
CC130338		10	<1	0.25	10	1.10	400	<1	0.03	15	420	6	0.01	<2	6	35
CC130339		<10	<1	0.09	10	0.53	252	<1	0.02	11	410	5	<0.01	<2	4	20
CC130340		<10	<1	0.06	20	0.35	204	<1	0.02	6	700	3	0.03	<2	3	30
CC130341		<10	1	0.08	20	0.43	702	3	0.02	9	700	4	0.06	2	4	36
CC130342		<10	<1	0.09	20	0.43	330	1	0.01	8	690	5	0.01	2	6	23
CC130343		10	<1	0.11	30	0.91	295	1	0.02	20	870	28	0.01	2	11	35
CC130344		10	<1	0.10	40	0.93	256	1	0.02	16	680	20	0.07	2	11	40
CC130345		<10	<1	0.04	10	0.33	296	<1	0.02	7	690	5	0.06	<2	2	59
CC130346		10	<1	0.10	10	0.80	482	1	0.03	13	520	9	0.03	<2	5	43
CC130347		<10	1	0.05	50	0.24	188	<1	0.03	7	660	9	0.04	<2	4	43
CC130348		<10	1	0.06	10	0.42	372	1	0.03	9	760	22	0.07	<2	3	61
CC130349		10	1	0.10	30	0.67	167	<1	0.02	16	430	13	0.03	<2	7	38
CC130350		<10	<1	0.07	20	0.65	221	<1	0.02	13	490	11	0.03	<2	7	37
CC130351		<10	<1	0.07	10	0.63	315	<1	0.02	14	370	9	0.02	<2	4	33
CC130352		<10	<1	0.03	10	0.19	416	<1	0.03	6	830	2	0.10	2	1	63
CC130353		<10	<1	0.02	10	0.08	168	<1	0.04	2	400	<2	0.03	<2	1	34
CC130354		<10	<1	0.08	10	0.79	422	<1	0.02	15	390	18	0.02	<2	6	37
CC130355		<10	<1	0.02	<10	0.13	215	<1	0.04	3	540	<2	0.06	<2	<1	79
CC130356		<10	1	0.07	20	0.81	648	<1	0.02	17	690	10	0.05	<2	6	48
CC130357		<10	<1	0.06	10	0.53	564	<1	0.02	17	550	8	0.03	3	6	41

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Project: Wolverine BBB

**CERTIFICATE OF ANALYSIS WH11112634**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC130337		<20	0.12	<10	<10	80	<10	56
CC130338		<20	0.15	<10	<10	103	<10	61
CC130339		<20	0.08	<10	<10	69	<10	40
CC130340		<20	0.05	<10	<10	47	<10	33
CC130341		<20	0.05	<10	<10	65	<10	41
CC130342		<20	0.05	<10	<10	77	<10	45
CC130343		<20	0.07	<10	<10	89	<10	95
CC130344		<20	0.07	<10	<10	84	<10	72
CC130345		<20	0.05	<10	<10	44	<10	43
CC130346		<20	0.10	<10	<10	83	<10	56
CC130347		<20	0.05	<10	<10	48	<10	31
CC130348		<20	0.04	<10	<10	41	<10	67
CC130349		<20	0.07	<10	<10	54	<10	56
CC130350		<20	0.06	<10	<10	71	<10	56
CC130351		<20	0.07	<10	<10	64	<10	47
CC130352		<20	0.04	<10	<10	53	<10	34
CC130353		<20	0.04	<10	<10	30	<10	17
CC130354		<20	0.06	<10	<10	68	<10	54
CC130355		<20	0.03	<10	<10	22	<10	23
CC130356		<20	0.05	<10	<10	67	<10	48
CC130357		<20	0.05	<10	<10	69	<10	64

Comments: \*\*\*Corrected copy with PO name changed to Wolverine BBB\*\*\*



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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

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**Account: F**

**CERTIFICATE WH11119992**

Project: Wolverine - BBB  
 P.O. No.:  
 This report is for 100 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28-JUN- 2011.  
 The following have access to data associated with this certificate:  
 JOAN MARIACHER                      HEATHER SMITH

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Wolverine - BBB

**CERTIFICATE OF ANALYSIS WH11119992**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC132101		0.19	0.001	<0.2	1.25	4	<10	80	<0.5	<2	0.19	<0.5	5	26	25	1.91
CC132102		0.14	0.002	<0.2	1.32	8	<10	110	<0.5	<2	0.34	<0.5	7	30	23	2.29
CC132103		0.32	0.003	<0.2	2.05	16	<10	120	0.7	<2	0.32	<0.5	12	47	29	3.33
CC132104		0.25	0.003	<0.2	1.43	7	<10	90	<0.5	<2	0.31	<0.5	10	37	17	2.59
CC132105		0.27	0.004	<0.2	2.44	22	<10	110	0.6	<2	0.16	<0.5	11	59	38	5.11
CC132106		0.27	0.002	<0.2	1.56	11	<10	90	0.5	<2	0.44	<0.5	10	47	26	2.75
CC132107		0.23	0.004	<0.2	2.36	8	<10	90	0.6	<2	0.90	<0.5	13	142	39	3.10
CC132108		0.23	0.041	<0.2	1.75	397	<10	90	1.7	<2	0.69	<0.5	20	100	33	4.41
CC132109		0.23	0.002	0.2	1.56	12	<10	220	<0.5	<2	0.36	<0.5	11	75	43	3.22
CC132110		0.19	0.004	<0.2	1.72	4	<10	130	<0.5	<2	0.26	<0.5	12	51	55	2.99
CC132111		0.21	0.002	<0.2	1.55	8	<10	140	<0.5	<2	0.52	<0.5	11	85	41	2.85
CC132112		0.28	0.003	<0.2	2.41	16	<10	120	0.8	<2	0.45	<0.5	13	47	32	4.06
CC132113		0.18	0.005	<0.2	1.75	84	<10	130	0.7	<2	0.48	<0.5	10	35	31	3.51
CC132114		0.30	0.004	<0.2	1.96	21	<10	80	0.7	<2	0.16	<0.5	11	34	23	3.41
CC132115		0.41	0.002	<0.2	2.02	6	<10	90	0.5	<2	0.19	<0.5	8	38	19	3.32
CC132116		0.22	0.004	0.2	2.45	4	<10	120	0.8	<2	0.38	<0.5	13	40	27	3.56
CC132117		0.28	0.003	<0.2	2.83	20	<10	150	0.9	<2	0.40	<0.5	13	45	25	3.88
CC132118		0.26	0.003	<0.2	2.79	41	<10	120	0.8	<2	0.19	<0.5	12	43	22	4.44
CC132119		0.22	0.001	0.2	2.30	14	<10	130	0.8	<2	0.23	<0.5	12	47	44	4.17
CC132120		0.29	<0.001	<0.2	2.11	13	<10	110	0.6	<2	0.32	<0.5	10	42	24	3.17
CC132201		0.30	0.007	<0.2	2.21	16	<10	130	0.7	<2	0.37	<0.5	12	39	25	3.04
CC132202		0.30	0.001	<0.2	1.77	10	<10	110	<0.5	<2	0.28	<0.5	8	31	17	2.82
CC132203		0.29	0.001	<0.2	1.72	19	<10	110	<0.5	<2	0.20	<0.5	7	32	19	3.26
CC132204		0.24	0.001	<0.2	0.68	<2	<10	60	<0.5	<2	0.17	<0.5	3	12	12	1.38
CC132205		0.18	0.002	<0.2	1.04	4	<10	90	<0.5	<2	0.19	<0.5	10	17	15	1.97
CC132206		0.15	<0.001	<0.2	0.68	<2	<10	60	<0.5	<2	0.13	<0.5	5	10	8	1.25
CC132207		0.20	0.001	0.3	1.19	3	<10	90	0.5	<2	0.24	<0.5	5	17	14	2.08
CC132208		0.28	0.003	<0.2	1.63	18	<10	100	0.5	<2	0.30	<0.5	5	23	15	2.41
CC132209		0.22	0.001	0.3	1.97	19	<10	110	0.7	<2	0.36	<0.5	6	29	21	2.75
CC132210		0.14	0.003	<0.2	1.56	16	<10	110	0.5	<2	0.43	<0.5	6	22	18	2.32
CC132221		0.31	0.002	<0.2	2.01	4	<10	140	0.5	<2	0.61	<0.5	9	35	21	2.99
CC132222		0.38	0.003	<0.2	2.01	24	<10	140	<0.5	<2	0.34	<0.5	7	35	19	3.25
CC132223		0.26	0.002	<0.2	2.83	45	<10	150	0.9	<2	0.52	<0.5	14	53	25	4.29
CC132224		0.36	0.002	<0.2	2.26	11	<10	130	0.8	<2	0.42	<0.5	12	66	28	3.76
CC132225		0.23	0.002	<0.2	2.30	11	<10	130	0.6	<2	0.26	<0.5	9	36	22	3.21
CC132226		0.27	0.016	<0.2	2.11	21	<10	130	0.7	<2	0.25	<0.5	10	32	20	3.18
CC132227		0.30	0.001	<0.2	2.15	29	<10	30	1.4	<2	0.08	<0.5	17	28	29	4.81
CC132228		0.33	0.004	<0.2	1.91	155	<10	110	1.5	<2	0.29	<0.5	17	35	35	4.38
CC132229		0.36	0.011	<0.2	2.16	8	<10	120	0.7	<2	0.25	<0.5	8	36	18	3.08
CC132230		0.28	0.005	<0.2	2.29	35	<10	120	1.1	2	0.23	<0.5	13	41	37	3.98



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC132101		10	<1	0.07	10	0.32	170	1	0.02	14	720	6	0.05	<2	1	20
CC132102		10	<1	0.10	10	0.45	326	1	0.02	18	820	7	0.07	<2	2	31
CC132103		10	1	0.19	20	0.79	350	1	0.01	30	740	12	0.04	<2	5	25
CC132104		10	<1	0.18	10	0.63	398	1	0.01	24	430	7	0.02	<2	3	25
CC132105		10	<1	0.14	10	0.86	350	1	0.01	34	350	13	0.03	<2	5	18
CC132106		10	<1	0.19	20	0.76	313	1	0.02	32	1140	8	0.02	<2	4	31
CC132107		10	<1	0.06	20	1.83	261	<1	0.01	60	2690	5	0.01	<2	6	61
CC132108		10	<1	0.06	30	1.26	1060	1	0.01	69	1460	6	0.02	9	10	53
CC132109		10	<1	0.07	10	0.75	211	1	0.01	39	890	7	0.03	<2	2	35
CC132110		10	<1	0.07	10	0.72	287	<1	<0.01	39	530	4	0.04	<2	2	18
CC132111		10	<1	0.08	10	1.01	174	<1	<0.01	47	990	3	0.02	<2	2	39
CC132112		10	<1	0.18	30	0.88	464	<1	<0.01	31	960	9	0.02	<2	6	33
CC132113		10	1	0.14	20	0.59	422	<1	<0.01	26	750	6	0.07	2	4	34
CC132114		10	<1	0.19	20	0.64	441	<1	<0.01	25	500	7	0.04	2	3	14
CC132115		10	1	0.11	10	0.64	315	<1	<0.01	22	430	5	0.04	<2	4	15
CC132116		10	<1	0.20	20	0.69	454	<1	0.01	27	450	5	0.05	<2	5	36
CC132117		10	1	0.32	40	0.81	432	<1	0.01	30	430	5	0.02	<2	6	35
CC132118		10	<1	0.14	20	0.74	356	<1	<0.01	26	310	5	0.02	3	5	16
CC132119		10	<1	0.15	20	0.70	572	<1	<0.01	29	720	10	0.05	<2	3	21
CC132120		10	<1	0.17	10	0.76	368	<1	<0.01	29	560	7	0.03	<2	4	19
CC132201		10	<1	0.18	30	0.76	296	<1	<0.01	26	700	5	0.04	<2	5	30
CC132202		10	<1	0.14	10	0.63	302	<1	<0.01	21	390	3	0.03	<2	4	21
CC132203		10	1	0.14	10	0.59	286	<1	<0.01	17	330	6	0.03	<2	3	18
CC132204		<10	<1	0.05	10	0.17	124	<1	0.01	5	580	<2	0.05	<2	1	16
CC132205		10	<1	0.08	10	0.26	747	<1	0.01	8	620	3	0.06	<2	1	21
CC132206		<10	<1	0.05	10	0.14	258	<1	0.01	4	690	<2	0.05	<2	1	14
CC132207		10	<1	0.13	20	0.23	213	<1	0.01	8	860	<2	0.05	<2	2	22
CC132208		10	1	0.10	20	0.35	166	<1	0.01	13	850	4	0.03	<2	3	25
CC132209		10	<1	0.19	30	0.46	280	<1	0.01	16	560	6	0.03	<2	4	31
CC132210		<10	<1	0.17	20	0.36	320	<1	0.01	14	630	4	0.06	<2	3	36
CC132221		10	<1	0.15	20	0.61	422	<1	0.01	21	640	4	0.07	<2	4	44
CC132222		10	<1	0.16	10	0.66	210	<1	<0.01	22	640	4	0.03	2	4	21
CC132223		10	1	0.43	30	0.95	506	<1	0.01	31	550	6	0.06	<2	7	38
CC132224		10	1	0.31	30	0.92	418	<1	<0.01	38	690	8	0.03	<2	6	27
CC132225		<10	<1	0.11	20	0.60	330	<1	<0.01	21	600	5	0.07	<2	4	20
CC132226		10	<1	0.10	20	0.63	432	<1	0.01	24	470	6	0.09	3	4	20
CC132227		10	<1	0.10	60	0.81	609	<1	<0.01	35	410	16	<0.01	4	4	11
CC132228		<10	1	0.11	40	0.66	994	<1	<0.01	35	570	18	<0.01	3	4	23
CC132229		10	<1	0.17	20	0.70	219	<1	<0.01	23	470	8	<0.01	2	5	20
CC132230		10	1	0.13	20	0.79	472	<1	<0.01	31	570	10	0.05	<2	4	24



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC132101		<20	0.06	<10	<10	42	<10	39
CC132102		<20	0.08	<10	<10	49	<10	49
CC132103		<20	0.11	<10	<10	55	<10	74
CC132104		<20	0.12	<10	<10	49	<10	65
CC132105		<20	0.18	<10	<10	92	<10	75
CC132106		<20	0.10	<10	<10	51	<10	59
CC132107		<20	0.07	<10	<10	71	<10	55
CC132108		<20	0.02	<10	<10	85	<10	61
CC132109		<20	0.14	<10	<10	92	<10	48
CC132110		<20	0.11	<10	<10	68	<10	50
CC132111		<20	0.17	<10	<10	78	<10	41
CC132112		<20	0.11	<10	<10	61	<10	93
CC132113		<20	0.07	<10	<10	49	<10	72
CC132114		<20	0.10	<10	<10	57	<10	62
CC132115		<20	0.15	<10	<10	64	<10	52
CC132116		<20	0.14	<10	<10	60	<10	61
CC132117		<20	0.17	<10	<10	61	<10	72
CC132118		<20	0.12	<10	<10	68	<10	65
CC132119		<20	0.09	<10	<10	85	<10	67
CC132120		<20	0.11	<10	<10	59	<10	58
CC132201		<20	0.11	<10	<10	52	<10	58
CC132202		<20	0.12	<10	<10	55	<10	50
CC132203		<20	0.11	<10	<10	68	<10	58
CC132204		<20	0.05	<10	<10	32	<10	21
CC132205		<20	0.05	<10	<10	43	<10	31
CC132206		<20	0.04	<10	<10	29	<10	16
CC132207		<20	0.06	<10	<10	45	<10	29
CC132208		<20	0.06	<10	<10	49	<10	43
CC132209		<20	0.07	<10	<10	43	<10	51
CC132210		<20	0.07	<10	<10	39	<10	52
CC132221		<20	0.12	<10	<10	59	<10	61
CC132222		<20	0.13	<10	<10	56	<10	53
CC132223		<20	0.17	<10	<10	62	<10	87
CC132224		<20	0.14	<10	<10	59	<10	77
CC132225		<20	0.11	<10	<10	63	<10	57
CC132226		<20	0.10	<10	<10	53	<10	53
CC132227		20	<0.01	<10	<10	30	<10	67
CC132228		20	0.01	<10	<10	37	<10	93
CC132229		<20	0.11	<10	<10	49	<10	56
CC132230		<20	0.09	<10	<10	61	<10	69



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC132271		0.31	0.002	<0.2	1.47	9	<10	80	<0.5	<2	0.22	<0.5	7	26	12	2.76
CC132272		0.49	<0.001	<0.2	0.97	6	<10	60	<0.5	<2	0.13	<0.5	4	18	9	2.06
CC132273		0.26	0.004	0.7	3.16	10	<10	160	0.7	<2	0.21	<0.5	5	49	32	4.05
CC132274		0.42	0.001	0.2	2.00	5	<10	110	0.5	<2	0.16	<0.5	8	34	19	2.65
CC132275		0.41	0.002	<0.2	1.05	5	<10	60	<0.5	<2	0.15	<0.5	6	18	6	2.24
CC132276		0.41	0.003	<0.2	1.40	24	<10	90	<0.5	<2	0.19	<0.5	6	25	12	2.71
CC132277		0.48	<0.001	<0.2	1.47	7	<10	80	0.6	<2	0.16	<0.5	5	21	11	2.16
CC132278		0.43	0.001	<0.2	0.97	6	<10	60	<0.5	<2	0.18	<0.5	5	17	8	1.98
CC132279		0.39	<0.001	<0.2	1.11	10	<10	70	<0.5	<2	0.16	<0.5	6	20	9	2.61
CC132280		0.50	0.003	<0.2	0.98	7	<10	60	<0.5	<2	0.18	<0.5	6	20	7	2.20
CC132241		0.25	0.004	<0.2	2.22	30	<10	160	0.6	<2	0.39	<0.5	9	37	26	3.38
CC132242		0.25	0.002	0.2	1.78	40	<10	120	0.7	<2	0.59	<0.5	9	29	26	2.76
CC132243		0.23	0.003	<0.2	1.29	8	<10	90	<0.5	<2	0.34	<0.5	7	22	13	2.15
CC132244		0.51	0.005	<0.2	1.89	19	<10	140	0.5	<2	0.41	<0.5	8	31	23	2.58
CC132245		0.11	0.003	0.2	1.24	7	<10	110	<0.5	<2	0.57	<0.5	5	17	22	1.53
CC132246		0.25	0.010	0.4	1.83	36	<10	110	0.9	<2	0.63	<0.5	7	30	35	2.30
CC132247		0.29	0.002	0.2	2.10	14	<10	160	<0.5	<2	0.38	<0.5	8	39	23	3.13
CC132248		0.44	0.004	<0.2	2.17	38	<10	150	0.6	<2	0.52	<0.5	9	36	22	3.07
CC132249		0.38	<0.001	<0.2	1.92	17	<10	120	0.6	<2	0.37	<0.5	12	36	26	3.27
CC132250		0.34	0.002	<0.2	0.84	10	<10	70	<0.5	<2	0.20	<0.5	7	20	14	2.86
CC132331		0.20	0.128	0.2	1.41	11	<10	90	<0.5	<2	0.18	<0.5	6	24	14	2.77
CC132332		0.40	0.002	<0.2	1.88	8	<10	180	0.5	<2	0.37	<0.5	8	29	20	2.62
CC132333		0.15	0.008	<0.2	1.55	13	<10	130	0.5	<2	0.68	<0.5	8	26	21	2.40
CC132334		0.17	0.001	<0.2	1.37	12	<10	110	<0.5	<2	0.32	<0.5	7	25	14	2.30
CC132335		0.10	0.007	<0.2	1.12	22	<10	60	<0.5	<2	0.36	<0.5	7	19	12	2.06
CC132336		0.20	0.003	<0.2	2.09	10	<10	130	0.6	<2	0.38	<0.5	12	40	26	3.21
CC132337		0.16	0.002	<0.2	1.27	6	<10	90	<0.5	<2	0.25	<0.5	11	44	30	2.68
CC132338		0.19	0.001	<0.2	1.92	15	<10	120	0.7	<2	0.33	<0.5	19	59	43	3.08
CC132339		0.13	<0.001	<0.2	1.08	13	<10	70	<0.5	<2	0.14	<0.5	6	29	29	3.12
CC132340		0.19	0.003	0.2	2.40	8	<10	170	0.8	<2	0.37	<0.5	13	103	52	4.28
CC132341		0.14	0.003	<0.2	2.62	10	<10	90	0.8	<2	0.14	<0.5	19	50	27	3.71
CC132342		0.15	<0.001	<0.2	1.06	8	<10	80	<0.5	<2	0.23	<0.5	10	40	21	2.50
CC132343		0.20	<0.001	<0.2	2.10	15	<10	130	0.6	<2	0.27	<0.5	13	43	27	3.23
CC132344		0.31	0.004	<0.2	2.45	13	<10	190	0.7	<2	0.48	<0.5	16	67	50	3.33
CC132345		0.29	0.004	0.2	2.19	15	<10	200	0.8	<2	0.50	<0.5	18	77	65	3.23
CC132346		0.33	0.002	<0.2	1.64	13	<10	140	<0.5	<2	0.53	<0.5	14	77	42	2.85
CC132347		0.31	0.001	<0.2	2.19	8	<10	100	0.5	<2	0.49	<0.5	13	95	34	3.33
CC132348		0.18	0.002	<0.2	2.42	12	<10	120	0.7	<2	0.27	<0.5	11	48	22	3.10
CC132349		0.18	0.002	<0.2	1.04	7	<10	110	<0.5	<2	0.18	<0.5	4	23	38	1.84
CC132350		0.17	0.001	<0.2	1.66	11	<10	80	<0.5	<2	0.12	<0.5	9	35	27	3.46





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		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC132271		<10	<1	0.07	10	0.30	183	<1	<0.01	16	490	2	0.24	<2	2	12
CC132272		10	<1	0.05	10	0.21	299	<1	<0.01	6	300	2	0.21	<2	2	10
CC132273		10	<1	0.06	10	0.34	244	<1	<0.01	16	740	7	0.19	<2	4	21
CC132274		10	<1	0.08	10	0.40	198	<1	<0.01	19	440	4	0.12	<2	4	13
CC132275		<10	<1	0.06	10	0.22	277	<1	<0.01	11	620	4	0.10	<2	2	7
CC132276		<10	<1	0.09	10	0.29	254	<1	0.01	16	760	11	<0.01	<2	2	12
CC132277		<10	<1	0.04	10	0.24	148	<1	0.01	12	550	7	<0.01	<2	2	13
CC132278		<10	<1	0.11	10	0.28	182	<1	0.01	12	440	6	<0.01	2	2	11
CC132279		<10	<1	0.16	10	0.31	242	<1	0.01	12	350	10	<0.01	2	2	12
CC132280		<10	<1	0.07	10	0.34	279	<1	0.01	12	380	7	<0.01	3	2	13
CC132241		10	<1	0.16	20	0.65	471	1	0.01	24	470	12	0.02	<2	4	36
CC132242		10	<1	0.13	20	0.43	485	<1	0.02	22	680	10	0.04	<2	4	46
CC132243		<10	<1	0.09	10	0.39	287	<1	0.01	14	560	7	0.02	<2	3	25
CC132244		10	<1	0.10	10	0.56	301	<1	0.01	21	680	9	0.02	<2	3	31
CC132245		<10	<1	0.05	20	0.25	271	<1	0.03	11	810	5	0.06	<2	2	41
CC132246		10	<1	0.10	80	0.42	269	<1	0.02	21	880	10	0.08	2	4	64
CC132247		10	<1	0.14	20	0.65	418	1	0.01	23	530	10	0.02	<2	4	39
CC132248		10	<1	0.10	20	0.59	355	1	0.01	24	750	11	0.03	2	4	46
CC132249		10	<1	0.09	10	0.56	468	1	0.01	24	620	14	0.03	<2	4	30
CC132250		<10	<1	0.08	20	0.20	320	<1	0.01	14	220	9	0.01	2	2	18
CC132331		10	<1	0.05	10	0.40	226	<1	0.01	14	370	6	<0.01	<2	3	15
CC132332		10	<1	0.06	20	0.48	302	1	0.01	18	770	8	0.01	<2	4	26
CC132333		10	<1	0.13	20	0.43	357	<1	0.02	19	600	8	0.05	<2	3	54
CC132334		10	<1	0.08	10	0.41	353	<1	0.02	17	610	7	0.02	2	3	28
CC132335		<10	<1	0.10	10	0.37	237	<1	0.02	14	390	7	0.02	<2	3	29
CC132336		10	<1	0.27	20	0.69	426	1	0.02	30	590	9	0.05	2	5	30
CC132337		10	<1	0.10	10	0.54	275	<1	0.01	29	850	6	0.05	<2	2	21
CC132338		10	<1	0.17	20	0.86	508	1	0.01	53	950	14	0.03	<2	3	23
CC132339		10	<1	0.07	10	0.27	257	1	0.01	16	590	10	0.05	<2	2	15
CC132340		10	<1	0.26	20	1.33	444	2	0.02	61	970	12	0.10	2	3	33
CC132341		10	<1	0.24	10	1.00	683	1	0.01	56	350	12	0.03	2	4	14
CC132342		10	<1	0.05	10	0.44	475	<1	0.01	19	760	6	0.03	<2	2	20
CC132343		10	<1	0.10	10	0.75	672	1	0.01	33	580	10	0.03	2	4	21
CC132344		10	1	0.16	20	0.97	459	1	0.01	51	1050	10	0.03	<2	5	38
CC132345		10	<1	0.10	20	0.94	325	1	0.02	71	1540	10	0.05	<2	4	45
CC132346		10	<1	0.06	20	0.92	259	<1	0.01	52	1590	7	0.03	<2	3	49
CC132347		10	<1	0.13	20	1.25	300	1	0.01	51	1630	8	0.02	2	4	30
CC132348		10	<1	0.09	10	0.67	342	1	0.01	28	820	9	0.03	<2	4	22
CC132349		<10	<1	0.05	10	0.15	115	<1	0.01	10	1310	8	0.04	<2	1	22
CC132350		10	1	0.16	10	0.47	339	1	0.01	23	390	12	0.03	<2	3	15

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Wolverine - BBB

**CERTIFICATE OF ANALYSIS WH11119992**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC132271		<20	0.07	<10	<10	57	<10	30
CC132272		<20	0.07	<10	<10	51	<10	26
CC132273		<20	0.10	<10	<10	75	<10	35
CC132274		<20	0.08	<10	<10	59	<10	39
CC132275		<20	0.04	<10	<10	42	<10	30
CC132276		<20	0.04	<10	<10	58	<10	39
CC132277		<20	0.05	<10	<10	48	<10	33
CC132278		<20	0.06	<10	<10	36	<10	31
CC132279		<20	0.06	<10	<10	41	<10	40
CC132280		<20	0.06	<10	<10	45	<10	36
CC132241		<20	0.10	<10	<10	60	<10	64
CC132242		<20	0.07	<10	<10	46	<10	60
CC132243		<20	0.08	<10	<10	42	<10	41
CC132244		<20	0.08	<10	<10	47	<10	49
CC132245		<20	0.04	<10	<10	29	<10	34
CC132246		<20	0.06	<10	<10	39	<10	55
CC132247		<20	0.12	<10	<10	62	<10	68
CC132248		<20	0.08	<10	<10	51	<10	66
CC132249		<20	0.06	<10	<10	50	<10	55
CC132250		<20	0.04	<10	<10	53	<10	41
CC132331		<20	0.09	<10	<10	62	<10	41
CC132332		<20	0.08	<10	<10	57	<10	47
CC132333		<20	0.07	<10	<10	38	<10	51
CC132334		<20	0.07	<10	<10	44	<10	52
CC132335		<20	0.09	<10	<10	39	<10	52
CC132336		<20	0.14	<10	<10	54	<10	68
CC132337		<20	0.11	<10	<10	66	<10	45
CC132338		<20	0.11	<10	<10	57	<10	70
CC132339		<20	0.13	<10	<10	98	<10	45
CC132340		<20	0.14	<10	<10	84	<10	79
CC132341		<20	0.11	<10	<10	60	<10	74
CC132342		<20	0.09	<10	<10	75	<10	38
CC132343		<20	0.09	<10	<10	64	<10	60
CC132344		<20	0.10	<10	<10	64	<10	62
CC132345		<20	0.09	<10	<10	66	<10	61
CC132346		<20	0.11	<10	<10	67	<10	47
CC132347		<20	0.17	<10	<10	69	<10	58
CC132348		<20	0.11	<10	<10	62	<10	55
CC132349		<20	0.06	<10	<10	41	<10	23
CC132350		<20	0.14	<10	<10	81	<10	56



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**CERTIFICATE OF ANALYSIS WH11119992**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
CC132351		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC132352		0.25	0.018	<0.2	1.73	10	<10	120	<0.5	<2	0.37	<0.5	8	28	16	2.68
CC132353		0.21	0.004	<0.2	1.01	7	<10	70	<0.5	2	0.35	<0.5	5	15	18	1.65
CC132354		0.21	0.005	<0.2	1.32	11	<10	110	<0.5	<2	0.50	<0.5	7	23	19	2.10
CC132355		0.18	0.003	<0.2	1.65	15	<10	130	<0.5	<2	0.61	<0.5	9	28	21	2.38
CC132356		0.27	0.003	<0.2	2.29	10	<10	100	0.5	<2	0.21	<0.5	10	38	24	3.45
CC132357		0.27	0.004	<0.2	3.05	9	<10	160	0.7	<2	0.17	<0.5	15	57	30	3.86
CC132358		0.24	0.001	0.2	2.68	42	<10	100	1.0	2	0.09	<0.5	17	39	50	6.17
CC132359		0.19	0.001	<0.2	2.26	15	<10	130	0.6	<2	0.24	<0.5	10	40	37	3.43
CC132360		0.30	0.006	<0.2	1.85	9	<10	150	<0.5	<2	0.36	<0.5	10	36	23	2.85
CC132441		0.27	0.001	<0.2	2.68	7	<10	200	0.7	<2	0.30	<0.5	13	65	42	3.65
CC132442		0.29	NSS	<0.2	2.10	179	10	220	0.7	<2	0.67	<0.5	36	204	31	4.81
CC132443		0.24	NSS	<0.2	1.46	99	<10	130	0.5	<2	0.59	<0.5	25	131	26	3.92
CC132444		0.36	NSS	<0.2	2.22	151	<10	160	0.7	<2	0.70	<0.5	31	198	48	5.32
CC132445		0.29	NSS	0.2	1.74	158	<10	80	0.5	2	0.74	<0.5	22	128	39	4.23
CC132446		0.43	NSS	<0.2	2.50	343	<10	160	0.9	2	0.70	0.5	37	136	53	5.94
CC132447		0.41	NSS	<0.2	2.18	184	<10	140	0.7	<2	0.78	<0.5	31	178	48	5.06
CC132448		0.38	NSS	<0.2	1.35	68	<10	110	0.7	<2	0.81	<0.5	13	53	22	3.18
CC132449		0.28	NSS	<0.2	1.27	69	<10	100	0.6	<2	0.54	<0.5	16	59	20	2.98
CC132450		0.35	0.005	<0.2	1.45	9	<10	130	<0.5	<2	0.15	<0.5	7	25	19	2.49
CC132450		0.30	0.016	<0.2	1.45	11	<10	120	0.5	<2	0.79	<0.5	9	30	24	2.39



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**CERTIFICATE OF ANALYSIS WH11119992**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC132351		10	<1	0.10	10	0.49	379	<1	0.01	19	590	8	0.01	<2	3	26
CC132352		<10	<1	0.05	10	0.24	241	1	0.03	13	590	6	0.04	<2	2	25
CC132353		<10	<1	0.07	10	0.38	296	1	0.03	17	700	8	0.04	2	3	35
CC132354		10	<1	0.08	10	0.45	461	1	0.03	18	790	7	0.06	<2	3	43
CC132355		10	<1	0.21	10	0.66	252	1	0.02	26	300	8	0.02	<2	4	21
CC132356		10	<1	0.50	10	1.01	366	1	0.02	42	250	7	0.02	2	5	18
CC132357		10	<1	0.19	30	0.64	446	1	0.02	41	360	16	0.02	3	4	11
CC132358		10	<1	0.21	10	0.65	269	1	0.02	27	530	9	0.02	<2	4	22
CC132359		10	<1	0.19	10	0.65	339	1	0.02	24	730	6	0.02	2	4	26
CC132360		10	<1	0.39	20	0.98	346	1	0.03	40	660	7	0.06	<2	6	33
CC132441		10	<1	0.13	20	3.34	1325	8	0.03	376	1610	11	0.03	16	7	37
CC132442		<10	<1	0.09	10	2.61	824	2	0.03	278	1030	9	0.03	12	4	34
CC132443		10	<1	0.12	20	2.29	1260	10	0.03	221	1940	14	0.02	11	8	34
CC132444		10	<1	0.07	10	1.18	972	8	0.03	103	1230	10	0.03	11	5	36
CC132445		10	<1	0.11	20	2.03	2370	6	0.03	153	1710	16	0.03	18	8	42
CC132446		10	<1	0.12	20	2.14	1820	8	0.03	181	1770	12	0.03	12	7	41
CC132447		10	<1	0.10	10	0.72	644	3	0.03	60	1040	11	0.04	4	4	45
CC132448		<10	<1	0.09	10	0.84	823	2	0.03	81	910	12	0.03	9	4	34
CC132449		10	<1	0.06	10	0.37	279	1	0.02	18	220	8	0.01	<2	2	17
CC132450		<10	<1	0.07	20	0.50	371	1	0.03	25	1050	8	0.02	2	4	40

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Project: Wolverine - BBB

**CERTIFICATE OF ANALYSIS WH11119992**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC132351		<20	0.10	<10	<10	55	<10	48
CC132352		<20	0.06	<10	<10	37	<10	33
CC132353		<20	0.07	<10	<10	44	<10	43
CC132354		<20	0.07	<10	<10	47	<10	51
CC132355		<20	0.15	<10	<10	67	<10	56
CC132356		<20	0.20	<10	<10	67	<10	69
CC132357		<20	0.07	<10	<10	70	<10	103
CC132358		<20	0.13	<10	<10	68	<10	56
CC132359		<20	0.13	<10	<10	58	<10	54
CC132360		<20	0.18	<10	<10	71	<10	69
CC132441		<20	0.07	<10	<10	107	<10	176
CC132442		<20	0.05	<10	<10	68	<10	121
CC132443		<20	0.05	<10	<10	125	<10	153
CC132444		<20	0.08	<10	<10	114	<10	95
CC132445		<20	0.04	<10	<10	140	<10	143
CC132446		<20	0.06	<10	<10	120	<10	135
CC132447		<20	0.07	<10	<10	86	<10	96
CC132448		<20	0.04	<10	<10	63	<10	77
CC132449		<20	0.08	<10	<10	52	<10	49
CC132450		<20	0.07	<10	<10	47	<10	46

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**CERTIFICATE OF ANALYSIS WH11119992**

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non- sufficient sample.



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To: **ARCHER, CATHRO AND ASSOCIATES (1981)  
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**CERTIFICATE WH11119993**

Project: Wolverine - BBB  
 P.O. No.:  
 This report is for 180 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28-JUN- 2011.  
 The following have access to data associated with this certificate:  
 JOAN MARIACHER                      HEATHER SMITH

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED  
 ATTN: JOAN MARIACHER  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager





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**CERTIFICATE OF ANALYSIS WH11119993**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC131801		0.28	0.002	<0.2	1.98	8	<10	110	<0.5	<2	0.23	<0.5	8	21	11	2.70
CC131802		0.21	0.002	<0.2	1.00	3	<10	200	<0.5	2	0.29	<0.5	6	13	8	2.45
CC131803		0.23	0.001	<0.2	0.65	2	<10	90	<0.5	<2	0.17	<0.5	3	6	9	1.02
CC131804		0.28	0.004	<0.2	1.84	9	<10	160	<0.5	2	0.25	<0.5	6	22	12	3.21
CC131805	Destroyed															
CC131806		0.41	0.002	<0.2	1.98	7	<10	190	<0.5	<2	0.26	<0.5	7	24	16	2.83
CC131807		0.24	0.002	<0.2	1.59	7	<10	180	<0.5	<2	0.33	<0.5	8	18	12	2.60
CC131808	Destroyed															
CC131809		0.31	0.002	<0.2	2.15	9	<10	180	<0.5	<2	0.30	<0.5	8	27	14	3.06
CC131810		0.31	0.003	<0.2	1.64	9	<10	130	<0.5	2	0.29	<0.5	6	25	18	2.70
CC131851		0.22	0.002	<0.2	1.63	6	<10	170	<0.5	<2	0.26	<0.5	6	17	17	2.12
CC131852		0.06	0.002	<0.2	0.88	2	<10	90	<0.5	<2	0.14	<0.5	4	15	16	1.56
CC131853		0.21	0.011	<0.2	1.75	11	<10	110	<0.5	<2	0.21	<0.5	6	24	13	2.65
CC131854		0.28	0.014	<0.2	2.30	11	<10	150	<0.5	<2	0.18	<0.5	9	30	14	3.62
CC131855		0.35	0.013	<0.2	1.70	11	<10	130	<0.5	<2	0.22	<0.5	8	21	16	2.93
CC131856		0.19	0.009	<0.2	1.84	8	<10	210	<0.5	2	0.25	<0.5	9	23	17	2.72
CC131857		0.39	0.002	<0.2	1.80	7	<10	240	0.5	<2	0.33	<0.5	7	24	16	2.97
CC131858		0.16	0.001	0.2	2.11	10	<10	190	<0.5	<2	0.26	<0.5	7	29	16	3.25
CC131859	Destroyed															
CC131860		0.07	0.001	<0.2	0.84	3	<10	190	<0.5	<2	0.38	<0.5	2	9	56	0.92
CC131871	Destroyed															
CC131872	Destroyed															
CC131873		0.20	0.001	<0.2	1.59	10	<10	130	<0.5	2	0.27	<0.5	5	22	11	2.67
CC131874		0.38	<0.001	<0.2	2.19	10	<10	220	0.5	<2	0.35	<0.5	7	25	19	2.91
CC131875		0.40	0.002	<0.2	1.35	4	<10	130	<0.5	<2	0.25	<0.5	7	18	12	2.44
CC131876		0.37	0.001	<0.2	1.30	4	<10	150	<0.5	<2	0.32	<0.5	6	16	9	2.00
CC131877		0.37	0.001	<0.2	1.28	12	<10	120	<0.5	2	0.21	<0.5	6	24	11	2.86
CC131878		0.47	<0.001	<0.2	1.91	8	<10	230	<0.5	<2	0.44	<0.5	8	21	14	2.90
CC131879		0.46	0.004	<0.2	1.84	8	<10	170	<0.5	<2	0.27	<0.5	9	24	11	3.00
CC131880		0.31	0.001	<0.2	1.77	9	<10	150	<0.5	2	0.23	<0.5	6	27	15	2.83
CC131921		0.35	0.001	<0.2	1.55	7	<10	130	<0.5	2	0.19	<0.5	6	22	17	2.64
CC131922		0.43	0.010	<0.2	2.05	8	<10	150	<0.5	<2	0.23	<0.5	8	21	11	2.90
CC131923		0.32	0.013	<0.2	3.74	6	<10	210	0.7	<2	0.30	<0.5	15	20	14	4.41
CC131924		0.35	0.001	<0.2	1.93	14	<10	130	<0.5	<2	0.18	<0.5	7	26	14	3.62
CC131925		0.23	0.003	<0.2	3.53	6	<10	400	0.5	<2	0.40	<0.5	12	18	16	4.24
CC131926		0.31	0.019	<0.2	1.60	9	<10	110	<0.5	<2	0.23	<0.5	6	23	13	2.85
CC131927		0.22	0.001	<0.2	2.16	12	<10	130	<0.5	<2	0.18	<0.5	8	29	18	2.95
CC131928		0.33	0.002	<0.2	2.65	10	<10	230	0.5	<2	0.25	<0.5	9	35	16	3.75
CC131929		0.36	0.001	0.2	2.25	10	<10	140	0.5	<2	0.21	<0.5	8	34	15	3.23
CC131930		0.28	<0.001	<0.2	2.85	8	<10	230	<0.5	<2	0.22	<0.5	12	28	17	4.30



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC131801		10	<1	0.09	10	0.46	334	1	0.02	12	470	8	0.01	<2	4	18
CC131802		<10	<1	0.07	10	0.28	253	1	0.02	6	670	7	0.01	<2	2	17
CC131803		<10	<1	0.06	10	0.16	113	<1	0.04	3	340	2	0.01	<2	1	16
CC131804		10	<1	0.11	10	0.54	291	1	0.02	11	370	10	0.02	2	4	20
CC131805																
CC131806		10	<1	0.10	10	0.54	289	1	0.02	13	390	6	0.01	3	4	19
CC131807		10	<1	0.11	10	0.51	396	1	0.02	12	630	6	0.01	2	4	20
CC131808																
CC131809		10	<1	0.09	20	0.47	280	1	0.02	15	490	7	0.02	2	4	20
CC131810		10	<1	0.06	10	0.50	253	1	0.02	14	540	8	0.01	2	3	19
CC131851		10	<1	0.09	10	0.37	260	1	0.03	9	460	5	0.02	2	3	22
CC131852		<10	<1	0.05	10	0.23	126	1	0.02	8	170	6	0.01	<2	2	15
CC131853		10	<1	0.09	10	0.48	262	1	0.02	14	370	6	0.01	<2	3	18
CC131854		10	1	0.09	10	0.54	297	1	0.02	19	350	10	0.02	<2	3	20
CC131855		10	<1	0.08	10	0.39	309	1	0.02	14	560	8	0.02	2	3	19
CC131856		10	<1	0.08	10	0.50	564	1	0.02	14	360	7	0.01	2	4	20
CC131857		10	<1	0.10	20	0.53	307	1	0.02	15	470	8	0.01	2	4	21
CC131858		10	<1	0.10	20	0.53	281	1	0.02	15	490	7	0.02	<2	4	21
CC131859																
CC131860		<10	<1	0.02	30	0.07	51	1	0.03	4	1250	<2	0.17	<2	1	36
CC131871																
CC131872																
CC131873		10	<1	0.07	10	0.44	258	<1	0.01	11	270	7	<0.01	<2	3	22
CC131874		10	<1	0.11	20	0.52	284	<1	0.01	14	380	9	0.01	2	4	25
CC131875		10	<1	0.08	10	0.45	282	<1	0.01	7	410	4	<0.01	<2	3	15
CC131876		<10	<1	0.08	10	0.41	256	<1	<0.01	8	570	4	<0.01	<2	3	20
CC131877		10	<1	0.08	10	0.40	325	<1	0.01	9	230	5	<0.01	<2	2	18
CC131878		10	<1	0.13	20	0.65	390	<1	0.02	10	510	3	<0.01	<2	5	32
CC131879		10	<1	0.09	10	0.63	443	<1	0.01	12	370	5	0.01	<2	4	20
CC131880		10	<1	0.09	10	0.51	276	<1	0.01	13	320	6	0.01	<2	4	20
CC131921		10	<1	0.06	10	0.40	246	<1	0.01	10	300	4	0.01	<2	3	17
CC131922		10	<1	0.10	10	0.52	309	<1	0.01	12	410	4	0.01	2	4	19
CC131923		10	1	0.11	10	1.34	525	<1	0.01	11	420	10	0.01	<2	6	26
CC131924		10	<1	0.08	10	0.44	268	<1	0.01	12	350	8	0.01	<2	4	15
CC131925		10	<1	0.12	10	1.04	628	<1	0.01	7	700	3	0.01	2	12	49
CC131926		10	<1	0.07	10	0.34	272	<1	0.01	10	570	7	0.01	<2	3	18
CC131927		10	<1	0.08	10	0.41	254	<1	0.01	17	410	6	0.01	<2	3	16
CC131928		10	1	0.10	20	0.55	272	<1	0.01	16	390	9	0.01	<2	5	25
CC131929		10	<1	0.10	10	0.50	270	<1	0.01	16	460	5	0.02	<2	3	18
CC131930		10	<1	0.15	10	0.78	1085	<1	0.01	12	660	6	0.01	<2	5	29

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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC131801		<20	0.08	<10	<10	59	<10	49
CC131802		<20	0.09	<10	<10	69	<10	37
CC131803		<20	0.06	<10	<10	28	<10	17
CC131804		<20	0.11	<10	<10	76	<10	51
CC131805								
CC131806		<20	0.10	<10	<10	66	<10	46
CC131807		<20	0.09	<10	<10	59	<10	43
CC131808								
CC131809		<20	0.09	<10	<10	70	<10	42
CC131810		<20	0.09	<10	<10	70	<10	43
CC131851		<20	0.08	<10	<10	53	<10	43
CC131852		<20	0.07	<10	<10	45	<10	31
CC131853		<20	0.09	<10	<10	62	<10	48
CC131854		<20	0.14	<10	<10	90	<10	65
CC131855		<20	0.08	<10	<10	65	<10	39
CC131856		<20	0.08	<10	<10	64	<10	45
CC131857		<20	0.10	<10	<10	71	<10	47
CC131858		<20	0.11	<10	<10	72	<10	53
CC131859								
CC131860		<20	0.03	<10	<10	33	<10	15
CC131871								
CC131872								
CC131873		<20	0.10	<10	<10	70	<10	42
CC131874		<20	0.07	<10	<10	68	<10	48
CC131875		<20	0.11	<10	<10	61	<10	42
CC131876		<20	0.08	<10	<10	47	<10	34
CC131877		<20	0.13	<10	<10	86	<10	46
CC131878		<20	0.14	<10	<10	70	<10	49
CC131879		<20	0.13	<10	<10	77	<10	57
CC131880		<20	0.12	<10	<10	71	<10	50
CC131921		<20	0.10	<10	<10	70	<10	43
CC131922		<20	0.10	<10	<10	63	<10	42
CC131923		<20	0.04	<10	<10	87	<10	65
CC131924		<20	0.12	<10	<10	92	<10	46
CC131925		<20	0.10	<10	<10	104	<10	60
CC131926		<20	0.09	<10	<10	76	<10	40
CC131927		<20	0.10	<10	<10	69	<10	44
CC131928		<20	0.14	<10	<10	93	<10	53
CC131929		<20	0.12	<10	<10	74	<10	49
CC131930		<20	0.18	<10	<10	104	<10	76



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**CERTIFICATE OF ANALYSIS WH11119993**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC131931		0.33	0.001	0.2	2.23	2	<10	220	0.6	<2	0.59	<0.5	9	16	16	2.78
CC131932		0.37	<0.001	<0.2	1.70	4	<10	360	<0.5	<2	0.41	<0.5	6	12	8	3.06
CC131933		0.27	0.001	<0.2	0.75	4	<10	80	<0.5	<2	0.16	<0.5	3	12	9	1.47
CC131934		0.44	0.002	<0.2	1.48	7	<10	210	<0.5	<2	0.51	<0.5	9	35	20	2.60
CC131935		0.29	0.004	<0.2	1.96	15	<10	300	0.7	<2	0.65	<0.5	15	54	31	3.82
CC131936		0.46	<0.001	<0.2	1.24	10	<10	210	<0.5	2	0.47	<0.5	8	30	21	2.47
CC131937		0.21	<0.001	<0.2	0.95	5	<10	110	<0.5	<2	0.16	<0.5	5	17	19	1.99
CC131938		0.29	0.001	<0.2	2.25	13	<10	160	<0.5	<2	0.26	<0.5	9	34	20	3.80
CC131939		0.32	0.001	<0.2	1.73	12	<10	160	<0.5	<2	0.29	<0.5	7	29	16	2.74
CC131940		0.35	0.001	<0.2	1.99	6	<10	160	<0.5	<2	0.26	<0.5	8	28	13	2.89
CC131941		0.38	<0.001	<0.2	1.69	10	<10	140	<0.5	<2	0.23	<0.5	10	26	12	2.88
CC131942		0.33	<0.001	<0.2	1.52	5	<10	210	<0.5	<2	0.34	<0.5	7	17	15	2.33
CC131943		0.39	0.001	<0.2	2.17	9	<10	180	<0.5	2	0.27	<0.5	8	26	17	2.99
CC131944		0.28	<0.001	0.5	1.19	4	<10	280	<0.5	<2	0.50	<0.5	7	10	14	3.27
CC131945		0.27	0.002	<0.2	1.59	6	<10	320	<0.5	<2	0.57	<0.5	6	24	13	2.46
CC131946		0.16	0.001	<0.2	0.72	4	<10	160	<0.5	<2	0.39	<0.5	4	13	9	1.09
CC131947		0.41	0.005	<0.2	0.94	6	<10	90	<0.5	<2	0.16	<0.5	3	14	9	1.45
CC131948		0.31	<0.001	<0.2	0.90	6	<10	80	<0.5	<2	0.17	<0.5	4	14	10	1.55
CC131949		0.26	0.001	<0.2	1.16	9	<10	80	<0.5	<2	0.15	<0.5	5	17	14	2.01
CC131950		0.23	0.001	<0.2	0.93	6	<10	80	<0.5	<2	0.10	<0.5	3	15	12	1.86
CC131961		0.25	0.001	<0.2	1.71	9	<10	150	<0.5	<2	0.17	<0.5	8	20	16	2.45
CC131962		0.38	0.001	<0.2	1.62	4	<10	230	<0.5	<2	0.46	<0.5	6	20	13	2.75
CC131963		0.25	0.001	<0.2	2.30	5	<10	300	<0.5	<2	0.49	<0.5	8	21	15	3.03
CC131964		0.19	<0.001	<0.2	1.43	3	<10	190	<0.5	<2	0.35	<0.5	4	14	12	1.85
CC131965		0.16	<0.001	0.2	1.83	3	<10	320	<0.5	<2	0.52	<0.5	7	18	21	2.11
CC131966		0.17	0.001	0.2	1.10	2	<10	240	<0.5	<2	0.50	<0.5	7	9	26	1.54
CC131967		0.35	0.004	<0.2	1.72	6	<10	310	<0.5	<2	0.51	<0.5	6	22	15	2.65
CC131968		0.25	<0.001	0.2	1.34	4	<10	200	<0.5	<2	0.21	<0.5	4	14	25	1.70
CC131969		0.23	<0.001	<0.2	1.31	7	<10	100	<0.5	<2	0.17	<0.5	7	23	15	2.41
CC131970		0.24	0.012	0.2	1.94	15	<10	120	0.6	<2	0.15	<0.5	10	33	25	3.46
CC131971		0.48	0.003	<0.2	1.58	11	<10	240	0.5	<2	0.61	<0.5	10	44	29	3.15
CC131972		0.38	<0.001	<0.2	2.14	8	<10	220	<0.5	2	0.35	<0.5	11	31	22	3.46
CC131973		0.41	<0.001	<0.2	1.67	5	<10	240	0.5	<2	0.27	<0.5	8	20	18	2.60
CC131974		0.31	0.001	0.8	2.97	10	<10	280	0.5	<2	0.25	<0.5	11	22	19	3.61
CC131975		0.29	0.001	<0.2	2.48	13	<10	170	<0.5	<2	0.22	<0.5	9	32	19	3.44
CC131976		0.30	<0.001	0.2	2.63	6	<10	170	<0.5	<2	0.17	<0.5	9	22	15	3.65
CC131977		0.27	0.001	0.5	1.64	4	<10	320	0.5	<2	0.45	1.2	7	20	20	2.58
CC131978		0.32	<0.001	<0.2	1.55	7	<10	200	<0.5	<2	0.32	<0.5	6	18	11	2.60
CC131979		0.31	<0.001	0.2	2.12	6	<10	320	<0.5	<2	0.49	<0.5	6	21	15	2.90
CC131980		0.34	0.001	<0.2	1.60	5	<10	320	<0.5	<2	0.55	<0.5	6	17	12	2.38

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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC131931		10	<1	0.11	70	0.87	436	<1	0.01	6	960	12	0.06	<2	10	36
CC131932		10	1	0.20	10	0.43	233	<1	0.02	4	720	3	0.03	<2	4	32
CC131933		<10	<1	0.05	<10	0.15	120	<1	0.02	6	290	3	0.01	<2	1	16
CC131934		10	<1	0.10	10	0.55	327	<1	0.02	18	900	8	0.01	<2	5	39
CC131935		10	<1	0.16	20	0.80	679	<1	0.02	30	990	13	0.02	<2	9	57
CC131936		<10	<1	0.13	10	0.55	359	<1	0.03	17	860	7	0.01	<2	5	38
CC131937		10	<1	0.07	10	0.25	283	<1	0.02	9	400	3	0.01	<2	1	16
CC131938		10	<1	0.13	10	0.61	349	<1	0.01	18	600	8	0.01	<2	5	25
CC131939		10	<1	0.10	10	0.51	253	<1	<0.01	14	310	8	<0.01	<2	4	23
CC131940		10	<1	0.11	10	0.58	320	<1	0.01	13	350	7	<0.01	<2	4	19
CC131941		10	<1	0.17	10	0.60	572	<1	0.01	12	370	6	<0.01	<2	4	16
CC131942		10	<1	0.13	10	0.49	383	<1	0.02	8	520	9	0.01	<2	4	22
CC131943		10	<1	0.12	10	0.59	353	<1	0.01	14	290	53	0.01	<2	4	21
CC131944		<10	<1	0.11	30	0.25	703	1	0.03	4	540	8	0.05	<2	5	26
CC131945		10	<1	0.14	20	0.49	292	<1	0.01	9	800	5	0.05	<2	5	32
CC131946		<10	<1	0.06	10	0.27	122	<1	0.01	7	700	3	0.01	<2	2	18
CC131947		<10	<1	0.05	10	0.21	135	<1	0.01	6	410	3	0.01	<2	1	12
CC131948		<10	<1	0.05	10	0.22	158	<1	0.01	6	440	3	<0.01	<2	2	11
CC131949		<10	<1	0.05	10	0.26	202	1	0.02	11	350	7	0.02	<2	2	11
CC131950		10	<1	0.05	10	0.22	135	<1	0.02	7	210	6	0.02	<2	2	11
CC131961		10	<1	0.09	10	0.41	252	<1	0.02	13	390	7	0.02	<2	3	15
CC131962		10	<1	0.23	20	0.64	277	<1	0.02	8	700	8	0.02	<2	5	24
CC131963		10	<1	0.28	20	0.69	296	<1	0.03	8	660	7	0.03	<2	6	29
CC131964		<10	1	0.11	10	0.26	192	<1	0.03	5	590	4	0.04	<2	3	23
CC131965		10	<1	0.11	10	0.24	700	1	0.04	8	840	4	0.08	<2	4	36
CC131966		<10	<1	0.04	10	0.13	839	<1	0.04	6	850	2	0.10	<2	1	36
CC131967		10	<1	0.08	10	0.54	261	<1	0.02	8	740	6	0.05	<2	3	33
CC131968		10	1	0.06	10	0.26	173	1	0.03	7	360	6	0.02	<2	2	21
CC131969		<10	<1	0.11	20	0.28	195	<1	0.01	16	360	6	0.02	<2	2	14
CC131970		10	<1	0.19	20	0.47	286	1	0.02	23	250	11	0.02	<2	3	16
CC131971		10	1	0.16	20	0.78	383	1	0.03	25	1130	10	0.02	<2	7	50
CC131972		10	<1	0.16	10	0.71	419	1	0.02	17	460	11	0.02	<2	6	29
CC131973		10	1	0.10	50	0.51	541	1	0.02	9	580	7	0.02	<2	7	20
CC131974		10	1	0.10	10	0.58	560	1	0.02	11	450	18	0.02	<2	7	26
CC131975		10	<1	0.09	10	0.52	306	1	0.02	17	360	10	0.02	<2	4	22
CC131976		10	<1	0.09	10	0.59	372	1	0.02	12	410	14	0.02	<2	4	18
CC131977		10	<1	0.12	30	0.50	327	2	0.02	11	430	35	0.02	<2	7	26
CC131978		10	1	0.12	10	0.49	320	1	0.02	8	320	9	0.02	<2	4	21
CC131979		10	<1	0.18	10	0.51	341	<1	0.03	9	700	8	0.05	<2	5	32
CC131980		10	<1	0.17	10	0.47	273	<1	0.03	7	710	4	0.04	<2	4	31

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**CERTIFICATE OF ANALYSIS WH11119993**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
		20	0.01	10	10	1	10	2
CC131931	<20	0.09	<10	<10	83	<10	83	
CC131932	<20	0.17	<10	<10	87	<10	46	
CC131933	<20	0.07	<10	<10	42	<10	21	
CC131934	<20	0.08	<10	<10	62	<10	53	
CC131935	<20	0.10	<10	<10	89	<10	83	
CC131936	<20	0.08	<10	<10	61	<10	47	
CC131937	<20	0.07	<10	<10	57	<10	32	
CC131938	<20	0.15	<10	<10	96	<10	67	
CC131939	<20	0.10	<10	<10	65	<10	49	
CC131940	<20	0.14	<10	<10	74	<10	57	
CC131941	<20	0.14	<10	<10	72	<10	64	
CC131942	<20	0.10	<10	<10	54	<10	43	
CC131943	<20	0.08	<10	<10	69	<10	62	
CC131944	<20	0.04	<10	<10	55	<10	32	
CC131945	<20	0.12	<10	<10	57	<10	59	
CC131946	<20	0.06	<10	<10	33	<10	31	
CC131947	<20	0.06	<10	<10	39	<10	27	
CC131948	<20	0.05	<10	<10	38	<10	29	
CC131949	<20	0.07	<10	<10	41	<10	33	
CC131950	<20	0.08	<10	<10	49	<10	31	
CC131961	<20	0.10	<10	<10	55	<10	40	
CC131962	<20	0.17	<10	<10	70	<10	51	
CC131963	<20	0.22	<10	<10	89	<10	56	
CC131964	<20	0.09	<10	<10	44	<10	34	
CC131965	<20	0.09	<10	<10	56	<10	39	
CC131966	<20	0.04	<10	<10	36	<10	26	
CC131967	<20	0.12	<10	<10	71	<10	53	
CC131968	<20	0.06	<10	<10	43	<10	30	
CC131969	<20	0.05	<10	<10	40	<10	35	
CC131970	<20	0.09	<10	<10	63	<10	65	
CC131971	<20	0.09	<10	<10	75	<10	73	
CC131972	<20	0.14	<10	<10	87	<10	62	
CC131973	<20	0.06	<10	<10	54	<10	44	
CC131974	<20	0.06	<10	<10	82	<10	55	
CC131975	<20	0.12	<10	<10	76	<10	53	
CC131976	<20	0.07	<10	<10	86	<10	60	
CC131977	<20	0.05	<10	<10	56	<10	55	
CC131978	<20	0.07	<10	<10	61	<10	55	
CC131979	<20	0.14	<10	<10	78	<10	59	
CC131980	<20	0.14	<10	<10	60	<10	53	



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC131981		0.22	<0.001	<0.2	0.98	3	<10	190	<0.5	<2	0.36	<0.5	4	12	11	1.57
CC131982		0.39	<0.001	<0.2	1.47	5	<10	220	<0.5	<2	0.37	<0.5	7	17	9	2.58
CC131983		0.13	0.002	0.2	0.58	<2	<10	210	<0.5	<2	0.58	<0.5	3	5	11	0.68
CC131984		0.29	<0.001	<0.2	0.47	2	<10	80	<0.5	<2	0.13	<0.5	4	5	12	0.54
CC131985		0.47	0.001	<0.2	1.98	11	<10	200	<0.5	<2	0.28	<0.5	7	28	17	2.98
CC131986		0.24	0.003	<0.2	1.62	6	<10	190	<0.5	<2	0.31	<0.5	6	18	21	2.36
CC131987		0.50	0.001	<0.2	1.52	7	<10	190	<0.5	<2	0.22	<0.5	5	19	13	2.21
CC131988		0.18	0.004	<0.2	2.59	8	<10	300	0.5	<2	0.42	<0.5	12	23	24	3.53
CC131989		0.24	0.002	0.7	3.25	13	<10	450	0.7	<2	0.65	<0.5	16	25	34	3.80
CC131990		0.29	<0.001	0.2	1.99	5	<10	240	<0.5	<2	0.44	<0.5	8	18	16	2.78
CC131991		0.31	0.001	<0.2	1.64	3	<10	240	<0.5	<2	0.41	<0.5	6	15	24	2.09
CC131992		0.25	0.002	0.4	2.08	5	<10	370	0.6	<2	0.57	<0.5	7	21	53	2.43
CC131993		0.15	0.001	0.5	2.51	8	<10	360	1.1	<2	0.47	<0.5	25	18	39	4.77
CC131994		0.12	NSS	0.4	1.19	3	<10	300	0.7	<2	1.00	<0.5	14	10	37	1.79
CC131995		0.11	0.007	0.3	1.30	8	<10	210	0.5	<2	0.42	<0.5	4	13	32	2.47
CC131996		0.16	0.001	<0.2	1.24	3	<10	240	<0.5	<2	0.43	<0.5	7	11	20	1.77
CC131997		0.21	<0.001	<0.2	1.26	<2	<10	240	<0.5	<2	0.26	<0.5	6	11	22	1.43
CC131998		0.22	0.001	<0.2	1.54	<2	<10	340	<0.5	<2	0.31	<0.5	6	16	73	2.27
CC131999		0.16	<0.001	<0.2	0.62	<2	<10	110	<0.5	<2	0.28	<0.5	5	6	17	1.12
CC132000		0.35	0.007	<0.2	1.33	9	<10	170	<0.5	<2	0.44	<0.5	7	29	22	2.24
CC132001		0.46	0.001	<0.2	0.88	8	<10	120	<0.5	<2	0.30	<0.5	6	17	14	1.59
CC132002		0.41	0.002	<0.2	1.37	9	<10	180	<0.5	<2	0.39	<0.5	9	29	20	2.40
CC132003		0.19	<0.001	<0.2	0.62	8	<10	140	<0.5	<2	0.38	<0.5	11	7	26	1.91
CC132004		0.42	0.013	<0.2	0.91	10	<10	150	<0.5	<2	0.40	<0.5	7	23	13	2.22
CC132005		0.31	0.002	<0.2	0.77	<2	<10	120	<0.5	<2	0.30	<0.5	5	15	10	1.48
CC132006		0.58	<0.001	<0.2	0.83	7	<10	120	<0.5	<2	0.29	<0.5	5	15	7	1.52
CC132007		0.33	<0.001	<0.2	1.10	2	<10	240	<0.5	<2	0.41	<0.5	7	16	9	1.52
CC132008		0.49	0.003	<0.2	1.27	<2	<10	370	<0.5	<2	0.53	<0.5	7	15	14	2.87
CC132009		0.16	0.001	0.7	1.45	6	<10	550	0.7	<2	0.85	<0.5	7	15	29	2.16
CC132010		0.26	<0.001	<0.2	1.33	7	<10	490	0.5	<2	0.78	<0.5	7	15	29	2.74
CC132031		0.21	<0.001	<0.2	1.61	2	<10	220	<0.5	<2	0.75	<0.5	8	9	12	2.45
CC132032		0.28	0.006	<0.2	1.51	6	<10	230	<0.5	<2	0.47	<0.5	9	22	18	2.56
CC132033		0.08	0.003	<0.2	1.70	8	<10	150	<0.5	<2	0.24	<0.5	8	23	13	2.63
CC132034		0.27	0.001	<0.2	1.53	8	<10	250	<0.5	<2	0.35	<0.5	10	24	16	2.69
CC132035		0.26	<0.001	<0.2	3.01	9	<10	280	0.5	<2	0.28	<0.5	15	30	18	4.34
CC132036		Destroyed														
CC132037		0.31	0.001	<0.2	1.65	7	<10	280	<0.5	<2	0.46	<0.5	8	22	13	2.66
CC132038		0.17	0.001	<0.2	1.73	<2	<10	380	<0.5	<2	0.53	<0.5	8	24	20	2.18
CC132039		0.24	<0.001	<0.2	1.97	11	<10	170	<0.5	<2	0.22	<0.5	10	26	15	3.57
CC132040		0.32	0.001	<0.2	1.57	9	<10	140	<0.5	<2	0.20	<0.5	7	23	15	2.71

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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC131981		<10	<1	0.07	10	0.29	192	<1	0.03	6	500	4	0.04	<2	2	26
CC131982		10	1	0.18	10	0.62	372	<1	0.03	9	430	5	0.02	<2	4	22
CC131983		<10	<1	0.05	10	0.09	149	<1	0.04	3	640	2	0.08	<2	1	42
CC131984		<10	<1	0.04	<10	0.05	296	<1	0.04	2	300	2	0.02	<2	1	12
CC131985		10	1	0.09	10	0.53	325	1	0.02	14	270	8	0.02	<2	4	23
CC131986		10	<1	0.10	20	0.44	363	<1	0.03	9	410	5	0.02	<2	4	25
CC131987		10	<1	0.08	20	0.36	205	1	0.02	10	260	6	0.02	<2	3	16
CC131988		10	<1	0.18	20	0.72	914	1	0.03	11	560	9	0.02	<2	6	31
CC131989		10	1	0.15	30	0.38	1130	1	0.03	14	1030	17	0.10	<2	6	48
CC131990		10	<1	0.20	20	0.59	502	<1	0.03	8	690	8	0.05	<2	5	30
CC131991		10	<1	0.11	20	0.40	340	1	0.03	7	740	4	0.05	<2	4	29
CC131992		10	<1	0.09	30	0.39	518	1	0.03	12	1310	5	0.10	<2	4	49
CC131993		10	1	0.08	70	0.19	4820	2	0.03	7	1310	7	0.20	<2	5	44
CC131994		<10	1	0.04	40	0.11	2790	1	0.03	5	1620	2	0.22	<2	2	71
CC131995		<10	<1	0.07	50	0.12	281	1	0.04	9	760	4	0.09	<2	4	37
CC131996		<10	1	0.08	40	0.23	362	1	0.03	6	740	4	0.07	<2	4	37
CC131997		<10	<1	0.07	20	0.13	403	<1	0.04	6	530	3	0.05	<2	3	22
CC131998		<10	1	0.08	20	0.37	249	1	0.04	9	650	7	0.05	<2	4	23
CC131999		<10	<1	0.02	10	0.09	762	1	0.03	4	880	2	0.07	<2	1	22
CC132000		<10	<1	0.08	10	0.52	218	1	0.02	17	840	9	0.02	<2	4	35
CC132001		<10	<1	0.07	10	0.30	170	<1	0.02	12	700	5	0.01	<2	3	19
CC132002		<10	<1	0.06	10	0.49	193	1	0.02	17	740	8	0.02	<2	4	29
CC132003		<10	<1	0.03	10	0.09	848	1	0.04	6	780	3	0.07	<2	1	34
CC132004		<10	<1	0.09	10	0.40	291	1	0.02	13	880	5	0.01	<2	3	24
CC132005		<10	<1	0.04	10	0.24	126	<1	0.02	8	620	4	0.03	<2	2	20
CC132006		<10	<1	0.05	10	0.32	164	1	0.02	8	490	5	0.01	<2	2	19
CC132007		<10	<1	0.07	10	0.37	446	1	0.02	8	640	6	0.03	<2	3	25
CC132008		10	<1	0.11	20	0.39	287	1	0.02	8	600	10	0.05	<2	6	38
CC132009		<10	<1	0.12	40	0.30	469	1	0.03	10	890	8	0.10	<2	7	59
CC132010		10	<1	0.14	20	0.42	447	1	0.02	9	620	10	0.07	<2	7	62
CC132031		10	<1	0.14	20	0.65	465	<1	0.02	5	1030	7	0.02	<2	5	39
CC132032		10	<1	0.09	20	0.61	414	1	0.02	13	460	10	0.02	<2	5	30
CC132033		10	<1	0.08	10	0.49	279	1	0.02	13	370	7	0.01	<2	4	18
CC132034		10	<1	0.14	10	0.60	399	1	0.02	16	310	9	0.01	<2	5	24
CC132035		10	<1	0.28	10	1.00	548	1	0.03	17	350	12	0.02	<2	6	27
CC132036																
CC132037		10	<1	0.14	10	0.57	394	1	0.02	10	670	6	0.02	<2	4	28
CC132038		10	<1	0.11	30	0.54	229	<1	0.02	10	770	7	0.06	<2	5	28
CC132039		10	<1	0.11	10	0.60	346	1	0.02	13	280	15	0.01	<2	5	19
CC132040		10	<1	0.07	10	0.40	232	1	0.02	12	230	13	0.02	<2	4	19

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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm
		20	0.01	10	10	1	10	2
CC131981	<20	0.06	<10	<10	38	<10	34	
CC131982	<20	0.14	<10	<10	63	<10	56	
CC131983	<20	0.02	<10	<10	12	<10	17	
CC131984	<20	0.02	<10	<10	13	<10	8	
CC131985	<20	0.08	<10	<10	73	<10	48	
CC131986	<20	0.08	<10	<10	55	<10	43	
CC131987	<20	0.08	<10	<10	54	<10	36	
CC131988	<20	0.16	<10	<10	87	<10	59	
CC131989	<20	0.08	<10	<10	100	<10	50	
CC131990	<20	0.16	<10	<10	71	<10	53	
CC131991	<20	0.10	<10	<10	51	<10	38	
CC131992	<20	0.07	<10	10	61	<10	39	
CC131993	<20	0.05	<10	10	124	<10	34	
CC131994	<20	0.02	<10	10	37	<10	27	
CC131995	<20	0.05	<10	10	91	<10	22	
CC131996	<20	0.07	<10	<10	42	<10	28	
CC131997	<20	0.05	<10	<10	32	<10	18	
CC131998	<20	0.10	<10	<10	54	<10	34	
CC131999	<20	0.03	<10	<10	26	<10	16	
CC132000	<20	0.06	<10	<10	49	<10	49	
CC132001	<20	0.05	<10	<10	33	<10	32	
CC132002	<20	0.07	<10	<10	52	<10	45	
CC132003	<20	0.02	<10	<10	34	<10	17	
CC132004	<20	0.07	<10	<10	52	<10	40	
CC132005	<20	0.07	<10	<10	40	<10	36	
CC132006	<20	0.06	<10	<10	34	<10	33	
CC132007	<20	0.07	<10	<10	34	<10	44	
CC132008	<20	0.05	<10	<10	66	<10	62	
CC132009	<20	0.03	<10	<10	40	<10	44	
CC132010	<20	0.06	<10	<10	55	<10	76	
CC132031	20	0.08	<10	<10	50	<10	50	
CC132032	<20	0.10	<10	<10	61	<10	51	
CC132033	<20	0.09	<10	<10	59	<10	45	
CC132034	<20	0.11	<10	<10	59	<10	51	
CC132035	<20	0.22	<10	<10	102	<10	79	
CC132036	<20	0.16	<10	<10	75	<10	55	
CC132037	<20	0.14	<10	<10	70	<10	73	
CC132038	<20	0.09	<10	<10	79	<10	57	
CC132039	<20	0.09	<10	<10	69	<10	44	
CC132040	<20	0.09	<10	<10	69	<10	44	

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



ALS Canada Ltd.  
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To: ARCHER, CATHRO AND ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
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**CERTIFICATE OF ANALYSIS WH11119993**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC132041		0.28	0.002	0.5	1.67	11	<10	140	<0.5	2	0.18	<0.5	7	23	25	2.95
CC132042		0.20	0.011	<0.2	0.58	3	<10	70	<0.5	<2	0.14	<0.5	4	8	19	1.10
CC132043		0.12	<0.001	<0.2	0.53	4	<10	70	<0.5	<2	0.14	<0.5	3	6	7	0.69
CC132044		0.09	<0.001	<0.2	0.44	<2	<10	60	<0.5	<2	0.18	<0.5	3	7	9	0.66
CC132045		0.35	<0.001	<0.2	1.56	10	<10	130	<0.5	<2	0.24	<0.5	8	22	12	2.80
CC132046		0.15	0.002	<0.2	1.34	7	<10	110	<0.5	<2	0.14	<0.5	8	19	19	2.30
CC132047		0.36	<0.001	<0.2	1.16	8	<10	100	<0.5	<2	0.16	<0.5	6	22	16	2.50
CC132048		0.24	0.001	<0.2	0.80	7	<10	90	<0.5	<2	0.14	<0.5	4	13	15	1.60
CC132049		0.31	0.005	<0.2	1.13	4	<10	100	<0.5	<2	0.26	<0.5	6	18	10	2.22
CC132050		0.34	0.001	<0.2	2.32	9	<10	150	<0.5	<2	0.24	<0.5	9	26	17	3.48
CC132051		0.23	0.014	<0.2	1.64	11	<10	120	<0.5	<2	0.22	<0.5	8	24	13	2.59
CC132052		0.31	0.001	<0.2	2.21	8	<10	250	0.5	<2	0.37	<0.5	10	24	15	3.28
CC132053		0.30	0.002	<0.2	2.27	10	<10	240	<0.5	<2	0.28	<0.5	10	23	16	3.48
CC132054		0.18	0.002	<0.2	1.73	6	<10	260	<0.5	<2	0.68	<0.5	9	19	17	2.99
CC132055		0.23	<0.001	<0.2	1.42	6	<10	160	<0.5	<2	0.42	<0.5	6	17	11	2.49
CC132056		0.25	0.003	<0.2	1.51	14	<10	250	0.6	<2	0.57	<0.5	11	41	33	2.98
CC132057		0.33	0.004	<0.2	1.32	11	<10	220	0.5	<2	0.59	<0.5	11	40	25	2.82
CC132058		0.33	0.003	<0.2	1.29	11	<10	190	<0.5	<2	0.53	<0.5	9	37	22	2.73
CC132059		0.26	0.002	<0.2	0.96	6	<10	210	<0.5	<2	0.36	<0.5	7	23	27	1.85
CC132060		0.13	0.015	<0.2	0.83	3	<10	320	<0.5	<2	0.60	<0.5	7	12	21	1.44
CC132061		0.15	0.002	<0.2	0.42	<2	<10	160	<0.5	<2	0.38	<0.5	2	5	19	0.33
CC132062		0.17	0.001	<0.2	0.39	3	<10	200	<0.5	<2	0.48	<0.5	6	5	14	2.38
CC132063		0.22	<0.001	<0.2	0.22	<2	<10	70	<0.5	<2	0.32	<0.5	3	6	6	0.86
CC132064		0.14	0.001	<0.2	0.68	<2	<10	210	<0.5	<2	0.61	<0.5	4	9	16	1.17
CC132065		0.17	0.002	0.2	0.45	<2	<10	160	<0.5	<2	0.41	<0.5	3	7	10	0.81
CC132066		0.25	0.014	<0.2	0.80	3	<10	120	<0.5	<2	0.30	<0.5	5	14	8	1.85
CC132067		0.10	0.002	0.2	0.40	<2	<10	70	<0.5	<2	0.16	<0.5	2	5	8	0.54
CC132068		Destroyed														
CC132069		0.15	<0.001	<0.2	1.42	7	<10	350	<0.5	<2	0.49	<0.5	7	19	21	2.51
CC132070		0.06	0.010	<0.2	0.66	3	<10	340	<0.5	<2	0.78	<0.5	3	7	17	0.88
CC132071		0.18	0.001	0.3	0.96	5	<10	250	<0.5	<2	0.39	<0.5	6	12	18	1.86
CC132072		0.41	0.003	0.5	2.47	8	<10	320	<0.5	39	0.41	<0.5	10	22	22	3.26
CC132073		0.27	0.003	0.4	1.93	7	<10	290	0.5	<2	0.32	<0.5	9	25	26	2.81
CC132074		0.25	0.001	<0.2	2.03	9	<10	200	<0.5	<2	0.22	<0.5	8	22	17	3.19
CC132075		0.19	0.001	<0.2	1.04	5	<10	220	<0.5	<2	0.50	<0.5	6	17	12	1.78
CC132076		0.19	0.003	<0.2	0.72	3	<10	100	<0.5	2	0.33	<0.5	5	14	6	1.27
CC132077		Destroyed														
CC132078		0.32	<0.001	0.2	1.77	8	<10	270	0.5	<2	0.29	<0.5	9	21	18	2.75
CC132079		0.26	0.008	<0.2	2.52	8	<10	360	0.7	<2	0.27	<0.5	12	26	23	3.45
CC132080		0.18	0.001	0.3	1.68	7	<10	140	<0.5	2	0.14	<0.5	5	20	20	2.64



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC132041		10	<1	0.07	10	0.41	237	2	0.02	11	260	17	0.02	<2	3	18
CC132042		<10	<1	0.04	10	0.08	96	<1	0.03	4	320	4	0.02	<2	1	15
CC132043		<10	<1	0.04	10	0.10	72	<1	0.04	3	330	2	0.02	<2	1	14
CC132044		<10	<1	0.04	<10	0.09	45	<1	0.04	4	300	2	0.03	<2	<1	17
CC132045		10	<1	0.11	10	0.50	303	1	0.02	12	500	7	0.02	<2	3	19
CC132046		10	<1	0.06	10	0.25	247	2	0.02	11	290	9	0.02	<2	2	18
CC132047		10	<1	0.06	10	0.32	158	1	0.02	11	240	8	0.01	<2	2	17
CC132048		<10	<1	0.04	10	0.20	108	1	0.03	5	220	6	0.02	<2	1	15
CC132049		<10	<1	0.07	10	0.39	199	<1	0.02	9	440	6	0.02	<2	2	19
CC132050		10	<1	0.11	10	0.66	322	1	0.02	14	300	8	0.02	<2	4	22
CC132051		10	<1	0.09	10	0.44	227	1	0.02	14	450	7	0.02	<2	3	15
CC132052		10	1	0.10	20	0.69	448	1	0.02	13	460	12	0.01	<2	5	24
CC132053		10	<1	0.15	10	0.60	419	1	0.01	14	560	10	0.01	<2	5	19
CC132054		10	<1	0.13	30	0.53	339	1	0.02	9	880	7	0.04	<2	5	36
CC132055		10	<1	0.06	10	0.36	184	<1	0.02	6	750	6	0.04	<2	3	30
CC132056		10	<1	0.14	20	0.66	425	1	0.03	27	910	13	0.02	2	7	43
CC132057		<10	<1	0.10	20	0.62	395	1	0.03	23	1100	9	0.02	<2	6	47
CC132058		<10	<1	0.09	10	0.58	344	1	0.02	21	1060	10	0.02	<2	5	41
CC132059		<10	<1	0.05	10	0.32	241	<1	0.03	15	670	6	0.03	<2	4	29
CC132060		<10	<1	0.03	<10	0.16	994	1	0.03	7	880	3	0.10	<2	1	39
CC132061		<10	<1	0.02	<10	0.06	47	<1	0.04	4	660	<2	0.07	<2	1	26
CC132062		<10	<1	0.01	<10	0.04	843	<1	0.04	4	620	2	0.06	<2	1	33
CC132063		<10	<1	0.01	<10	0.04	49	<1	0.03	2	860	<2	0.04	<2	1	19
CC132064		<10	<1	0.04	10	0.20	232	<1	0.03	4	790	<2	0.09	<2	2	38
CC132065		<10	<1	0.02	10	0.09	133	<1	0.04	3	470	<2	0.04	<2	1	29
CC132066		<10	<1	0.05	10	0.31	208	<1	0.02	5	520	6	0.02	<2	2	17
CC132067		<10	<1	0.02	<10	0.05	33	<1	0.03	1	350	2	0.04	<2	<1	16
CC132068																
CC132069		<10	<1	0.09	20	0.50	353	<1	0.02	8	580	15	0.05	<2	5	32
CC132070		<10	<1	0.04	10	0.13	134	<1	0.04	5	700	2	0.10	<2	1	59
CC132071		<10	<1	0.05	10	0.22	313	<1	0.03	6	480	7	0.04	<2	3	30
CC132072		10	<1	0.07	10	0.81	441	<1	0.02	11	490	32	0.02	2	6	28
CC132073		10	<1	0.07	20	0.50	341	1	0.02	13	500	10	0.03	<2	4	23
CC132074		10	1	0.09	10	0.48	299	1	0.02	11	320	11	0.03	<2	4	21
CC132075		<10	<1	0.07	20	0.34	247	<1	0.02	7	720	3	0.06	<2	3	28
CC132076		<10	<1	0.05	20	0.26	147	<1	0.01	5	690	3	0.02	<2	2	17
CC132077																
CC132078		<10	1	0.10	20	0.43	385	1	0.01	13	380	10	0.02	<2	5	19
CC132079		10	<1	0.12	20	0.53	542	1	0.01	16	320	13	0.02	<2	7	21
CC132080		10	<1	0.06	10	0.22	131	2	0.01	6	250	16	0.03	<2	3	16

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH11119993**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
		20	0.01	10	10	1	10	2
CC132041	<20	0.09	<10	<10	81	<10	41	
CC132042	<20	0.04	<10	<10	31	<10	20	
CC132043	<20	0.03	<10	<10	17	<10	15	
CC132044	<20	0.03	<10	<10	16	<10	18	
CC132045	<20	0.11	<10	<10	68	<10	51	
CC132046	<20	0.09	<10	<10	68	<10	41	
CC132047	<20	0.10	<10	<10	71	<10	36	
CC132048	<20	0.08	<10	<10	51	<10	22	
CC132049	<20	0.09	<10	<10	56	<10	35	
CC132050	<20	0.14	<10	<10	81	<10	51	
CC132051	<20	0.10	<10	<10	58	<10	39	
CC132052	<20	0.11	<10	<10	73	<10	56	
CC132053	<20	0.11	<10	<10	75	<10	56	
CC132054	<20	0.13	<10	<10	78	<10	55	
CC132055	<20	0.09	<10	<10	55	<10	45	
CC132056	<20	0.08	<10	<10	67	<10	67	
CC132057	<20	0.07	<10	<10	64	<10	62	
CC132058	<20	0.07	<10	<10	64	<10	55	
CC132059	<20	0.05	<10	<10	45	<10	32	
CC132060	<20	0.03	<10	<10	20	<10	53	
CC132061	<20	0.02	<10	<10	7	<10	14	
CC132062	<20	0.05	<10	<10	37	<10	25	
CC132063	<20	0.11	<10	<10	31	<10	17	
CC132064	<20	0.05	<10	<10	22	<10	31	
CC132065	<20	0.03	<10	<10	20	<10	17	
CC132066	<20	0.07	<10	<10	45	<10	34	
CC132067	<20	0.02	<10	<10	14	<10	10	
CC132068								
CC132069	<20	0.05	<10	<10	55	<10	63	
CC132070	<20	0.02	<10	<10	16	<10	40	
CC132071	<20	0.04	<10	<10	42	<10	33	
CC132072	<20	0.08	<10	<10	74	<10	54	
CC132073	<20	0.08	<10	<10	62	<10	45	
CC132074	<20	0.09	<10	<10	71	<10	49	
CC132075	<20	0.07	<10	<10	38	<10	49	
CC132076	<20	0.06	<10	<10	31	<10	28	
CC132077								
CC132078	<20	0.06	<10	<10	54	<10	45	
CC132079	<20	0.06	<10	<10	66	<10	57	
CC132080	<20	0.06	<10	<10	64	<10	32	



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC132081		0.25	<0.001	0.4	2.14	14	<10	140	0.6	4	0.11	<0.5	9	17	48	4.70
CC132082		0.28	0.003	<0.2	2.08	12	<10	190	0.5	<2	0.12	<0.5	10	19	14	5.25
CC132083		0.21	0.003	<0.2	1.93	13	<10	130	0.5	<2	0.38	<0.5	12	37	24	3.14
CC132084		0.23	0.001	<0.2	2.46	15	<10	120	0.6	<2	0.33	<0.5	11	43	21	3.51
CC132085		0.25	<0.001	<0.2	1.59	40	<10	90	0.7	<2	0.37	<0.5	13	36	23	3.07
CC132086		0.21	0.003	<0.2	1.88	6	<10	100	0.5	<2	0.34	<0.5	14	56	44	3.23
CC132087		0.30	0.001	<0.2	2.34	6	<10	130	0.8	<2	0.33	<0.5	12	71	35	3.23
CC132088		0.13	0.003	<0.2	1.62	42	<10	90	0.6	<2	0.24	<0.5	13	76	30	3.97
CC132089		0.21	0.001	0.2	1.74	17	<10	100	0.7	<2	0.25	<0.5	10	52	33	3.11
CC132090		0.18	0.001	<0.2	1.43	13	<10	120	<0.5	<2	0.35	<0.5	13	48	23	2.90
CC132091		0.24	0.004	<0.2	1.90	26	<10	140	0.7	<2	0.82	<0.5	14	89	45	3.33
CC132092		0.23	0.004	<0.2	1.86	12	<10	180	<0.5	<2	0.26	<0.5	7	29	17	3.23
CC132093		0.28	<0.001	<0.2	1.45	7	<10	250	<0.5	2	0.33	<0.5	6	18	23	2.55
CC132094		0.07	0.002	<0.2	1.67	11	<10	170	<0.5	2	0.30	<0.5	9	20	26	2.75
CC132095		0.37	0.010	0.3	1.52	8	<10	220	<0.5	3	0.28	<0.5	9	18	22	2.89
CC132096		0.12	0.001	<0.2	1.58	11	<10	110	<0.5	2	0.17	<0.5	5	19	19	3.55
CC132097		0.33	0.001	0.2	1.57	8	<10	260	<0.5	<2	0.26	<0.5	6	19	27	2.22
CC132098		0.38	0.001	<0.2	1.46	16	<10	100	<0.5	<2	0.37	<0.5	8	28	13	2.34
CC132099		0.30	0.001	<0.2	1.69	15	<10	120	<0.5	<2	0.50	<0.5	10	31	17	2.68
CC132100		0.21	0.001	<0.2	1.95	16	<10	140	0.6	<2	0.57	<0.5	12	37	25	3.13

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**CERTIFICATE OF ANALYSIS WH11119993**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC132081		10	<1	0.10	10	0.37	417	3	0.01	7	350	24	0.02	6	6	10
CC132082		10	<1	0.14	10	0.37	615	1	0.01	8	350	16	0.02	2	8	12
CC132083		10	<1	0.23	20	0.66	393	<1	0.02	25	620	7	0.05	<2	4	28
CC132084		10	<1	0.33	20	0.79	283	<1	0.02	24	520	7	0.03	<2	5	25
CC132085		10	<1	0.30	20	0.61	414	<1	0.02	26	680	5	0.03	3	4	25
CC132086		10	<1	0.17	10	0.81	408	1	0.01	36	780	7	0.05	<2	4	26
CC132087		10	<1	0.18	20	1.11	279	<1	0.01	39	720	5	0.05	2	5	23
CC132088		10	<1	0.04	10	0.64	490	1	0.01	39	930	5	0.08	3	2	23
CC132089		10	<1	0.04	20	0.66	381	1	0.01	25	670	7	0.05	<2	2	25
CC132090		10	<1	0.08	10	0.56	443	<1	0.01	26	640	7	0.03	<2	2	31
CC132091		10	<1	0.06	20	1.00	427	<1	0.02	51	1420	7	0.02	<2	5	66
CC132092		10	<1	0.08	10	0.51	262	<1	0.01	14	280	11	<0.01	<2	4	22
CC132093		10	<1	0.10	10	0.51	307	<1	0.01	8	480	8	0.01	<2	5	23
CC132094		10	<1	0.12	10	0.54	476	<1	0.01	11	590	13	<0.01	<2	5	18
CC132095		10	<1	0.10	10	0.51	510	<1	0.01	10	420	17	<0.01	2	5	17
CC132096		10	<1	0.06	10	0.28	216	1	0.01	7	310	10	<0.01	<2	3	17
CC132097		10	1	0.06	10	0.26	167	1	0.01	12	300	13	0.01	<2	3	25
CC132098		10	<1	0.11	20	0.48	285	<1	0.01	16	690	8	0.02	2	3	29
CC132099		10	<1	0.15	20	0.54	426	<1	0.02	19	560	6	0.04	<2	3	36
CC132100		10	1	0.19	20	0.63	670	<1	0.02	24	570	8	0.04	<2	4	40

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: Wolverine - BBB

**CERTIFICATE OF ANALYSIS WH11119993**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC132081		<20	0.06	<10	<10	93	<10	63
CC132082		<20	0.07	<10	<10	92	<10	61
CC132083		<20	0.13	<10	<10	54	<10	68
CC132084		<20	0.16	<10	<10	56	<10	75
CC132085		<20	0.10	<10	<10	36	<10	64
CC132086		<20	0.13	<10	<10	65	<10	58
CC132087		<20	0.12	<10	<10	58	<10	62
CC132088		<20	0.05	<10	<10	91	<10	54
CC132089		<20	0.06	<10	<10	72	<10	45
CC132090		<20	0.09	<10	<10	71	<10	48
CC132091		<20	0.08	<10	<10	78	<10	53
CC132092		<20	0.09	<10	<10	68	<10	49
CC132093		<20	0.09	<10	<10	57	<10	50
CC132094		<20	0.10	<10	<10	60	<10	48
CC132095		<20	0.09	<10	<10	62	<10	47
CC132096		<20	0.09	<10	<10	84	<10	35
CC132097		<20	0.05	<10	<10	54	<10	34
CC132098		<20	0.08	<10	<10	40	<10	59
CC132099		<20	0.11	<10	<10	43	<10	71
CC132100		<20	0.12	<10	<10	51	<10	72



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**CERTIFICATE OF ANALYSIS WH11119993**

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non- sufficient sample.



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**CERTIFICATE WH11119994**

Project: Wolverine - BBB  
 P.O. No.:  
 This report is for 198 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28-JUN- 2011.  
 The following have access to data associated with this certificate:  
 JOAN MARIACHER                      HEATHER SMITH

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED  
 ATTN: JOAN MARIACHER  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH11119994**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC136157	Destroyed															
CC136158	0.35	0.003	0.2	1.34	8	<10	120	<0.5	<2	0.24	<0.5	6	18	26	2.27	
CC136159	Destroyed															
CC136160	Destroyed															
CC136161	0.50	0.002	0.3	1.47	6	<10	150	<0.5	<2	0.18	<0.5	6	21	20	2.35	
CC136162	0.42	0.002	0.3	1.61	5	<10	180	<0.5	2	0.23	<0.5	9	18	32	2.58	
CC136163	0.48	0.001	0.5	2.04	10	<10	200	<0.5	<2	0.18	<0.5	9	25	24	3.28	
CC136164	0.31	0.001	0.3	1.56	6	<10	170	<0.5	<2	0.20	<0.5	7	14	35	2.46	
CC136165	0.60	0.003	0.3	2.02	10	<10	180	<0.5	<2	0.24	<0.5	9	24	21	2.70	
CC136166	0.40	0.002	0.2	1.55	10	<10	120	<0.5	<2	0.17	<0.5	6	19	14	2.49	
CC136167	0.13	0.001	0.3	2.97	13	<10	410	0.5	<2	0.29	<0.5	11	21	54	3.74	
CC136168	0.47	0.001	0.3	2.50	11	<10	220	0.5	<2	0.22	<0.5	11	26	18	3.26	
CC136169	0.52	0.004	<0.2	1.76	8	<10	240	<0.5	<2	0.31	<0.5	10	21	20	2.87	
CC136170	0.27	0.002	0.2	1.69	4	<10	430	<0.5	<2	0.47	<0.5	12	14	21	3.01	
CC136181	0.30	0.003	0.2	2.12	12	<10	120	0.5	<2	0.34	<0.5	10	38	21	3.12	
CC136182	0.25	0.003	0.2	2.13	10	<10	120	0.5	<2	0.66	<0.5	9	35	28	2.75	
CC136183	0.31	0.004	0.2	2.10	11	<10	120	0.5	<2	0.42	<0.5	12	36	19	3.12	
CC136184	Destroyed															
CC136185	0.40	0.005	0.3	2.33	28	<10	130	0.9	<2	0.51	<0.5	11	42	34	3.24	
CC136186	0.28	0.005	0.2	2.13	11	<10	120	0.6	<2	0.34	<0.5	10	41	26	3.16	
CC136187	0.44	0.003	0.2	1.97	7	<10	120	0.5	<2	0.45	<0.5	10	42	29	2.57	
CC136188	0.43	0.008	0.2	2.24	14	<10	150	0.6	<2	0.49	<0.5	13	45	34	2.71	
CC136189	0.41	0.007	0.2	2.26	15	<10	180	0.8	<2	0.58	<0.5	13	59	36	3.24	
CC136190	0.32	0.003	0.3	1.94	45	<10	110	0.9	<2	1.06	<0.5	15	84	54	3.33	
CC136271	0.40	0.001	0.2	1.00	3	<10	230	<0.5	<2	0.34	<0.5	5	12	13	2.00	
CC136272	0.20	0.001	0.2	1.02	3	<10	270	<0.5	<2	0.54	<0.5	4	13	12	1.63	
CC136273	0.23	0.002	0.5	1.10	8	<10	410	<0.5	<2	0.61	<0.5	25	14	18	2.60	
CC136274	0.29	0.016	0.2	1.07	5	<10	260	<0.5	<2	0.39	<0.5	6	19	12	1.90	
CC136275	0.36	0.002	0.2	0.98	6	<10	180	<0.5	<2	0.32	<0.5	5	16	10	2.02	
CC136276	0.46	0.008	<0.2	1.34	7	<10	90	<0.5	<2	0.17	<0.5	6	19	9	2.27	
CC136277	0.22	0.002	0.3	1.47	<2	<10	390	0.5	<2	0.52	<0.5	4	15	23	1.15	
CC136278	Destroyed															
CC136279	0.19	0.002	<0.2	1.42	4	<10	590	<0.5	<2	0.92	<0.5	15	13	28	2.99	
CC136280	0.32	0.001	<0.2	1.52	3	<10	230	<0.5	<2	0.34	<0.5	11	13	10	3.36	
CC136281	0.50	0.002	0.2	2.34	8	<10	300	<0.5	<2	0.23	<0.5	14	25	26	3.52	
CC136282	0.36	0.002	0.3	2.07	12	<10	150	<0.5	<2	0.16	<0.5	10	24	19	2.59	
CC136283	0.35	0.004	0.2	2.98	9	<10	290	0.5	2	0.20	<0.5	13	27	24	3.51	
CC136284	0.49	0.002	<0.2	1.98	14	<10	250	<0.5	<2	0.23	<0.5	10	23	17	2.96	
CC136285	0.25	0.001	0.3	1.34	2	<10	250	<0.5	<2	0.19	<0.5	7	9	9	1.72	
CC136286	Destroyed															



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Project: Wolverine - BBB

**CERTIFICATE OF ANALYSIS WH11119994**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC136157																
CC136158		10	<1	0.07	10	0.46	255	<1	0.02	11	410	5	0.01	<2	3	16
CC136159																
CC136160																
CC136161		10	<1	0.07	10	0.37	224	<1	0.02	12	370	8	0.02	<2	2	14
CC136162		10	<1	0.13	10	0.52	480	<1	0.02	9	410	11	0.01	<2	3	17
CC136163		10	<1	0.09	10	0.46	343	<1	0.02	13	290	9	0.01	2	3	19
CC136164		10	<1	0.09	10	0.37	362	<1	0.03	8	430	6	0.02	2	2	22
CC136165		10	<1	0.10	10	0.48	256	<1	0.02	16	430	7	0.01	2	4	24
CC136166		10	<1	0.06	10	0.35	203	<1	0.02	11	280	6	0.01	<2	2	18
CC136167		10	<1	0.19	10	0.83	387	<1	0.03	13	240	8	0.01	<2	5	37
CC136168		10	<1	0.12	10	0.54	412	<1	0.02	15	410	10	0.01	2	6	21
CC136169		10	<1	0.13	20	0.63	451	<1	0.02	11	590	9	0.02	<2	5	25
CC136170		10	<1	0.17	10	0.52	954	<1	0.03	7	1250	8	0.06	<2	4	32
CC136181		10	<1	0.21	10	0.66	328	<1	0.02	24	380	6	0.03	<2	4	34
CC136182		10	<1	0.15	20	0.61	342	<1	0.03	23	590	7	0.06	<2	4	46
CC136183		10	<1	0.15	20	0.63	261	<1	0.02	21	580	6	0.02	<2	5	33
CC136184																
CC136185		10	<1	0.14	30	0.72	409	<1	0.02	31	730	9	0.03	3	5	41
CC136186		10	<1	0.15	10	0.67	337	<1	0.02	28	510	9	0.03	2	4	26
CC136187		10	<1	0.11	20	0.71	364	<1	0.02	27	990	8	0.03	<2	3	28
CC136188		10	<1	0.09	10	0.83	376	<1	0.02	33	750	7	0.04	<2	4	30
CC136189		10	1	0.09	20	0.94	565	<1	0.02	34	900	7	0.05	<2	4	35
CC136190		10	<1	0.11	20	1.31	489	<1	0.02	53	1510	8	0.05	7	6	54
CC136271		<10	<1	0.14	20	0.37	280	<1	0.02	6	460	4	0.03	<2	4	25
CC136272		<10	<1	0.11	20	0.29	363	<1	0.03	7	640	3	0.05	<2	5	35
CC136273		<10	<1	0.05	20	0.21	3700	1	0.04	7	810	4	0.07	<2	2	47
CC136274		<10	<1	0.07	20	0.35	352	1	0.02	9	710	5	0.03	<2	3	26
CC136275		<10	<1	0.10	10	0.35	233	<1	0.02	8	370	5	0.02	<2	3	23
CC136276		10	<1	0.07	10	0.39	230	<1	0.01	11	320	5	0.01	<2	3	13
CC136277		<10	<1	0.10	50	0.32	165	<1	0.03	8	720	5	0.08	<2	4	36
CC136278																
CC136279		<10	<1	0.18	20	0.45	2380	1	0.02	15	560	9	0.07	<2	5	60
CC136280		10	<1	0.27	20	0.66	594	1	0.01	9	340	10	0.01	<2	7	21
CC136281		10	<1	0.16	20	0.59	673	1	0.01	13	420	13	0.01	<2	5	19
CC136282		10	<1	0.07	10	0.37	235	<1	0.01	17	360	11	0.01	<2	3	16
CC136283		10	<1	0.15	10	0.58	306	<1	0.01	17	390	11	0.01	<2	4	20
CC136284		10	1	0.12	10	0.50	300	<1	0.01	14	360	8	0.01	<2	3	23
CC136285		<10	<1	0.07	10	0.14	917	<1	0.02	5	490	5	0.02	<2	3	16
CC136286																



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**CERTIFICATE OF ANALYSIS WH11119994**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC136157		<20	0.09	<10	<10	52	<10	45
CC136158		<20	0.09	<10	<10	52	<10	45
CC136159		<20	0.09	<10	<10	52	<10	45
CC136160		<20	0.09	<10	<10	52	<10	45
CC136161		<20	0.07	<10	<10	57	<10	44
CC136162		<20	0.11	<10	<10	62	<10	52
CC136163		<20	0.14	<10	<10	75	<10	58
CC136164		<20	0.14	<10	<10	63	<10	41
CC136165		<20	0.09	<10	<10	58	<10	45
CC136166		<20	0.07	<10	<10	58	<10	34
CC136167		<20	0.18	<10	<10	89	<10	60
CC136168		<20	0.09	<10	<10	74	<10	51
CC136169		<20	0.08	<10	<10	62	<10	55
CC136170		<20	0.10	<10	<10	72	<10	65
CC136181		<20	0.13	<10	<10	57	<10	63
CC136182		<20	0.12	<10	<10	50	<10	63
CC136183		<20	0.13	<10	<10	55	<10	55
CC136184		<20	0.11	<10	<10	55	<10	65
CC136185		<20	0.11	<10	<10	55	<10	65
CC136186		<20	0.10	<10	<10	58	<10	61
CC136187		<20	0.08	<10	<10	49	<10	59
CC136188		<20	0.09	<10	<10	53	<10	62
CC136189		<20	0.09	<10	<10	65	<10	60
CC136190		<20	0.09	<10	<10	66	<10	68
CC136271		<20	0.07	<10	<10	44	<10	41
CC136272		<20	0.04	<10	<10	33	<10	42
CC136273		<20	0.05	<10	<10	46	<10	51
CC136274		<20	0.06	<10	<10	42	<10	33
CC136275		<20	0.07	<10	<10	49	<10	36
CC136276		<20	0.09	<10	<10	56	<10	38
CC136277		<20	0.05	<10	<10	23	<10	42
CC136278		<20	0.05	<10	<10	46	<10	51
CC136279		<20	0.10	<10	<10	55	<10	56
CC136280		20	0.11	<10	<10	70	<10	63
CC136281		<20	0.12	<10	<10	81	<10	61
CC136282		<20	0.08	<10	<10	54	<10	39
CC136283		<20	0.14	<10	<10	77	<10	54
CC136284		<20	0.11	<10	<10	67	<10	59
CC136285		<20	0.02	<10	<10	43	<10	23
CC136286		<20	0.02	<10	<10	43	<10	23



ALS Canada Ltd.  
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To: ARCHER, CATHRO AND ASSOCIATES (1981)  
 LIMITED  
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**CERTIFICATE OF ANALYSIS WH11119994**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC136287		0.52	0.002	<0.2	1.33	<2	<10	200	<0.5	<2	0.26	<0.5	8	13	17	1.96
CC136288		0.29	0.001	0.3	1.51	3	<10	280	<0.5	2	0.43	0.9	9	9	25	2.49
CC136289	Destroyed															
CC136290		0.20	0.002	0.2	1.02	3	<10	400	<0.5	<2	0.84	<0.5	7	12	28	1.76
CC136291		0.63	0.003	0.2	1.32	4	<10	360	<0.5	<2	0.41	<0.5	10	13	38	2.95
CC136292		0.56	0.002	0.5	1.52	6	<10	460	<0.5	<2	0.57	<0.5	10	17	38	2.68
CC136293		0.23	0.014	<0.2	1.22	7	<10	190	<0.5	<2	0.30	<0.5	9	22	21	2.21
CC136294		0.47	0.002	<0.2	1.17	6	<10	290	<0.5	<2	0.41	<0.5	10	15	17	2.61
CC136295		0.59	0.001	0.2	1.66	2	<10	320	<0.5	<2	0.48	<0.5	11	16	18	3.18
CC136296		0.26	0.003	0.4	1.88	3	<10	620	0.6	<2	0.60	<0.5	10	16	34	2.44
CC136297		0.61	0.004	<0.2	1.13	6	<10	210	<0.5	<2	0.22	<0.5	9	17	16	2.29
CC136298		0.41	0.002	<0.2	1.44	7	<10	360	<0.5	4	0.43	<0.5	12	11	25	3.51
CC136299		0.13	0.002	<0.2	0.81	<2	<10	170	<0.5	<2	0.30	<0.5	5	10	17	1.03
CC136300		0.20	0.001	0.2	0.86	<2	<10	300	<0.5	<2	0.72	<0.5	5	10	17	1.24
CC136301		0.20	0.001	<0.2	0.23	7	<10	60	<0.5	<2	0.19	<0.5	4	3	4	1.47
CC136302		0.20	0.003	0.4	1.39	<2	<10	360	<0.5	<2	0.61	<0.5	8	19	52	1.55
CC136303		0.15	0.002	0.2	0.44	<2	<10	200	<0.5	<2	0.44	<0.5	5	5	21	0.97
CC136304		0.32	0.005	<0.2	1.01	6	<10	200	<0.5	<2	0.34	<0.5	8	16	10	2.06
CC136305		0.26	0.002	<0.2	0.91	<2	<10	270	<0.5	<2	0.50	<0.5	7	16	15	2.00
CC136306		0.30	0.002	<0.2	0.60	4	<10	170	<0.5	<2	0.36	<0.5	7	11	8	1.48
CC136307		0.15	0.007	<0.2	1.53	8	<10	410	0.6	<2	0.97	<0.5	6	11	128	1.64
CC136308		0.15	0.002	<0.2	0.75	2	<10	620	<0.5	<2	1.15	<0.5	46	7	30	7.28
CC136309		0.11	0.004	<0.2	0.89	<2	<10	430	<0.5	<2	0.53	<0.5	17	9	25	2.39
CC136310		0.15	0.001	<0.2	0.86	2	<10	260	<0.5	<2	0.33	<0.5	7	13	16	1.57
CC136315		0.21	0.002	0.3	1.44	10	<10	230	<0.5	4	0.22	<0.5	8	20	33	2.65
CC136316		0.33	0.002	<0.2	3.26	8	<10	280	0.5	5	1.22	<0.5	12	13	19	3.75
CC136317		0.38	0.003	0.3	2.53	22	<10	400	0.5	<2	0.48	<0.5	12	23	29	3.36
CC136318		0.26	0.002	<0.2	1.93	19	<10	240	<0.5	2	0.28	<0.5	10	17	16	2.96
CC136319		0.29	0.008	<0.2	3.01	15	<10	340	0.6	<2	0.34	<0.5	16	20	13	4.21
CC136320		0.27	0.002	<0.2	4.63	21	<10	410	0.7	<2	0.25	<0.5	19	27	25	5.85
CC136321		0.13	0.001	<0.2	0.27	2	<10	120	<0.5	<2	0.40	<0.5	3	5	14	1.26
CC136322		0.09	0.003	0.2	1.05	3	<10	320	<0.5	<2	0.49	<0.5	7	12	15	2.13
CC136323		0.21	0.001	<0.2	0.23	<2	<10	30	<0.5	<2	0.08	<0.5	1	1	6	0.40
CC136324		0.20	0.004	0.8	1.61	27	<10	430	0.6	<2	0.67	<0.5	6	13	59	2.57
CC136325		0.25	0.002	<0.2	0.81	4	<10	210	<0.5	<2	0.40	<0.5	4	9	9	1.68
CC136326		0.26	0.031	0.2	0.88	4	<10	180	<0.5	<2	0.37	<0.5	4	19	18	2.01
CC136327	Destroyed															
CC136328		0.14	0.001	<0.2	0.14	<2	<10	30	<0.5	<2	0.12	<0.5	1	1	2	0.42
CC136329		0.29	0.014	<0.2	0.99	3	<10	160	<0.5	<2	0.33	<0.5	5	17	11	1.92
CC136330		0.31	0.001	<0.2	0.16	<2	<10	30	<0.5	<2	0.13	<0.5	1	1	3	0.33





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**CERTIFICATE OF ANALYSIS WH11119994**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC136287		<10	<1	0.06	10	0.33	318	<1	0.02	8	280	8	<0.01	<2	3	19
CC136288		<10	<1	0.14	10	0.46	352	<1	0.02	6	520	22	0.02	<2	4	22
CC136289																
CC136290		<10	<1	0.09	10	0.35	318	<1	0.02	6	650	7	0.04	<2	3	38
CC136291		<10	<1	0.16	20	0.46	725	2	0.01	6	660	13	0.02	<2	6	20
CC136292		<10	<1	0.18	10	0.56	464	1	0.02	10	420	21	0.03	<2	6	30
CC136293		<10	1	0.09	10	0.46	280	<1	0.01	12	310	7	<0.01	<2	3	18
CC136294		<10	<1	0.15	20	0.44	466	<1	0.02	8	410	9	0.02	<2	5	23
CC136295		<10	1	0.21	20	0.67	534	1	0.01	9	510	9	0.01	<2	6	25
CC136296		<10	<1	0.16	50	0.37	770	1	0.02	11	790	9	0.04	<2	10	39
CC136297		<10	<1	0.13	10	0.44	317	<1	0.01	11	200	9	<0.01	<2	4	15
CC136298		<10	<1	0.16	10	0.60	625	<1	0.01	4	640	13	<0.01	<2	7	28
CC136299		<10	<1	0.06	10	0.21	116	<1	0.03	4	520	5	0.03	<2	2	21
CC136300		<10	<1	0.06	10	0.21	254	1	0.03	6	790	5	0.07	<2	2	45
CC136301		<10	<1	0.03	<10	0.04	68	<1	0.03	1	450	2	0.01	<2	1	14
CC136302		<10	1	0.10	30	0.37	417	1	0.02	10	1010	9	0.11	<2	6	39
CC136303		<10	<1	0.03	10	0.06	179	<1	0.04	3	500	3	0.03	<2	1	34
CC136304		<10	<1	0.10	10	0.41	362	1	0.01	8	510	8	0.01	<2	3	21
CC136305		<10	<1	0.06	10	0.24	388	<1	0.01	7	730	8	0.05	<2	3	30
CC136306		<10	<1	0.05	10	0.21	214	<1	0.01	5	630	4	0.02	<2	2	19
CC136307		<10	<1	0.02	20	0.12	329	2	0.02	8	1210	4	0.28	<2	1	62
CC136308		<10	<1	0.02	<10	0.10	5230	10	0.03	10	1160	4	0.12	<2	<1	78
CC136309		<10	<1	0.04	10	0.12	2340	1	0.03	5	710	5	0.10	<2	2	32
CC136310		<10	<1	0.08	10	0.27	243	1	0.02	6	220	8	0.01	<2	2	22
CC136315		10	<1	0.06	10	0.32	612	1	0.01	9	250	11	<0.01	<2	3	26
CC136316		10	<1	0.21	20	1.06	764	<1	0.01	7	320	14	<0.01	<2	9	81
CC136317		10	<1	0.23	30	0.72	687	<1	0.01	12	600	11	0.02	<2	9	37
CC136318		10	<1	0.15	10	0.57	462	<1	0.02	10	340	9	<0.01	<2	6	19
CC136319		10	<1	0.29	20	0.87	811	<1	0.01	11	350	10	<0.01	<2	8	25
CC136320		10	<1	0.36	10	0.93	772	1	0.01	18	480	13	<0.01	<2	12	32
CC136321		<10	<1	0.03	10	0.07	112	<1	0.04	3	670	3	0.04	<2	1	23
CC136322		<10	1	0.15	30	0.29	487	1	0.02	7	650	6	0.05	<2	4	30
CC136323		<10	<1	0.04	<10	0.02	36	<1	0.05	2	180	<2	<0.01	<2	<1	12
CC136324		<10	<1	0.19	100	0.40	360	2	0.03	7	730	8	0.07	<2	9	48
CC136325		<10	<1	0.17	10	0.29	197	1	0.02	5	430	6	0.03	<2	3	26
CC136326		<10	<1	0.07	20	0.26	164	1	0.02	9	440	6	0.02	<2	3	22
CC136327																
CC136328		<10	<1	0.03	<10	0.02	28	<1	0.04	1	220	<2	0.01	<2	<1	13
CC136329		<10	<1	0.12	20	0.38	206	1	0.02	8	610	5	0.01	<2	5	19
CC136330		<10	<1	0.03	<10	0.03	21	<1	0.05	1	280	<2	<0.01	2	<1	12

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH11119994**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
		20	0.01	10	10	1	10	2
CC136287	<20	0.04	<10	<10	42	<10	31	
CC136288	<20	0.06	<10	<10	53	<10	57	
CC136289								
CC136290	<20	0.05	<10	<10	41	<10	47	
CC136291	<20	0.05	<10	<10	56	10	70	
CC136292	<20	0.08	<10	<10	56	<10	57	
CC136293	<20	0.08	<10	<10	49	<10	42	
CC136294	<20	0.07	<10	<10	55	<10	55	
CC136295	<20	0.10	<10	<10	70	<10	59	
CC136296	<20	0.05	<10	<10	52	<10	41	
CC136297	<20	0.09	<10	<10	50	<10	39	
CC136298	<20	0.05	<10	<10	70	10	55	
CC136299	<20	0.05	<10	<10	26	<10	26	
CC136300	<20	0.04	<10	<10	25	<10	37	
CC136301	<20	0.05	<10	<10	34	<10	11	
CC136302	<20	0.07	<10	<10	38	<10	55	
CC136303	<20	0.03	<10	<10	25	<10	16	
CC136304	<20	0.08	<10	<10	45	<10	49	
CC136305	<20	0.06	<10	<10	35	<10	40	
CC136306	<20	0.05	<10	<10	23	<10	30	
CC136307	<20	0.03	<10	<10	69	<10	19	
CC136308	<20	0.02	<10	<10	70	<10	27	
CC136309	<20	0.05	<10	<10	42	<10	38	
CC136310	<20	0.06	<10	<10	38	<10	40	
CC136315	<20	0.11	<10	<10	77	<10	43	
CC136316	<20	0.14	<10	<10	92	<10	69	
CC136317	20	0.11	<10	<10	79	<10	55	
CC136318	<20	0.10	<10	<10	69	<10	50	
CC136319	<20	0.19	<10	<10	96	<10	73	
CC136320	<20	0.18	<10	<10	118	<10	85	
CC136321	<20	0.06	<10	<10	44	<10	20	
CC136322	<20	0.06	<10	<10	44	<10	40	
CC136323	<20	0.02	<10	<10	12	<10	7	
CC136324	<20	0.07	<10	<10	59	<10	45	
CC136325	<20	0.06	<10	<10	34	<10	40	
CC136326	<20	0.06	<10	<10	53	<10	32	
CC136327								
CC136328	<20	0.02	<10	<10	15	<10	7	
CC136329	<20	0.07	<10	<10	47	<10	34	
CC136330	<20	0.02	<10	<10	12	<10	7	



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC136331		0.31	0.002	0.3	1.76	10	<10	300	<0.5	<2	0.20	<0.5	10	31	20	3.02
CC136332		0.39	0.003	<0.2	1.42	9	<10	170	<0.5	<2	0.27	<0.5	6	22	15	2.17
CC136333		0.38	0.006	0.3	1.64	3	<10	180	<0.5	<2	0.24	<0.5	8	22	10	2.73
CC136334		0.38	0.001	0.5	3.06	11	<10	300	0.5	4	0.24	<0.5	11	24	35	4.08
CC136335		0.42	0.003	0.2	1.57	3	<10	190	<0.5	<2	0.26	<0.5	7	21	13	2.56
CC136336		0.45	0.008	0.3	2.16	11	<10	290	<0.5	<2	0.31	<0.5	9	33	22	2.95
CC136337		0.37	0.002	0.5	2.83	9	<10	280	<0.5	<2	0.26	<0.5	10	25	31	3.03
CC136338		0.35	0.007	<0.2	1.16	7	<10	120	<0.5	<2	0.29	<0.5	5	19	11	1.65
CC136339		0.42	0.002	<0.2	1.79	6	<10	160	<0.5	<2	0.20	<0.5	8	21	17	2.61
CC136340		0.38	0.001	<0.2	2.40	8	<10	190	0.5	<2	0.32	<0.5	10	25	21	3.01
CC136341		0.41	0.001	<0.2	2.24	7	<10	260	<0.5	<2	0.25	<0.5	9	30	15	3.05
CC136342		0.42	0.002	<0.2	2.06	9	<10	190	<0.5	<2	0.20	<0.5	9	30	20	2.78
CC136343		0.47	0.005	<0.2	2.16	6	<10	190	<0.5	<2	0.22	<0.5	8	22	16	2.79
CC136344		0.36	0.001	<0.2	2.01	10	<10	210	<0.5	<2	0.25	<0.5	8	28	16	3.10
CC136345		0.51	0.001	0.2	1.90	7	<10	220	0.6	<2	0.42	<0.5	8	19	18	2.50
CC136346		0.32	0.002	0.2	2.53	4	<10	450	0.5	<2	0.61	<0.5	12	23	16	3.67
CC136347		0.35	0.003	<0.2	1.97	7	<10	340	0.8	<2	0.60	<0.5	9	21	22	2.73
CC136348		Destroyed														
CC136349		Destroyed														
CC136350		0.31	0.002	<0.2	2.20	9	<10	170	<0.5	<2	0.21	<0.5	9	23	16	2.49
CC136351		0.24	0.003	0.2	1.37	11	<10	390	0.5	<2	0.69	<0.5	12	20	25	3.69
CC136352		0.35	0.003	<0.2	1.19	8	<10	180	<0.5	<2	0.28	<0.5	7	22	17	2.41
CC136353		0.39	0.002	0.2	1.30	4	<10	320	<0.5	<2	0.42	<0.5	8	21	27	2.04
CC136354		0.33	0.015	<0.2	0.80	4	<10	160	<0.5	<2	0.21	<0.5	5	15	12	1.80
CC136355		0.35	0.008	<0.2	0.70	3	<10	180	<0.5	<2	0.42	<0.5	5	13	12	1.66
CC136356		0.30	0.003	0.2	1.47	12	<10	400	0.5	<2	0.46	<0.5	8	27	29	2.83
CC136357		0.32	0.001	0.3	1.89	7	<10	530	0.6	<2	0.59	<0.5	16	15	32	5.64
CC136358		0.29	0.002	0.4	1.25	<2	<10	290	<0.5	<2	0.33	<0.5	5	12	61	1.63
CC136359		0.36	0.002	0.7	1.29	3	<10	360	<0.5	3	0.49	<0.5	5	16	39	2.08
CC136360		0.26	<0.001	0.3	0.78	<2	<10	210	<0.5	<2	0.27	<0.5	3	8	19	1.02
CC136381		0.42	0.001	<0.2	1.81	11	<10	220	0.5	<2	0.19	<0.5	8	18	21	2.73
CC136382		0.33	0.002	0.2	1.70	14	<10	160	<0.5	<2	0.13	<0.5	10	25	22	3.28
CC136383		0.35	0.004	0.5	1.69	10	<10	240	<0.5	<2	0.24	<0.5	7	24	36	2.59
CC136384		0.34	0.004	<0.2	1.11	5	<10	150	<0.5	<2	0.26	<0.5	6	16	19	2.12
CC136385		0.40	0.029	0.8	1.33	11	<10	100	<0.5	<2	0.15	<0.5	6	22	17	2.48
CC136386		0.33	0.008	<0.2	1.04	7	<10	110	<0.5	<2	0.22	<0.5	6	21	13	2.04
CC136387		0.31	0.006	<0.2	1.96	12	<10	140	0.6	<2	0.21	<0.5	8	34	21	2.99
CC136388		0.31	0.004	<0.2	2.10	21	<10	150	<0.5	<2	0.24	<0.5	16	28	26	3.60
CC136389		0.24	0.005	0.2	2.71	11	<10	210	0.6	<2	0.23	<0.5	11	40	27	3.20
CC136390		0.39	0.006	<0.2	1.88	14	<10	150	0.5	<2	0.17	<0.5	9	24	25	2.82

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To: ARCHER, CATHRO AND ASSOCIATES (1981)  
 LIMITED  
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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC136331		10	<1	0.09	10	0.43	901	2	0.02	12	330	12	0.01	<2	3	21
CC136332		<10	<1	0.10	10	0.39	228	1	0.02	15	400	9	0.01	<2	3	20
CC136333		10	<1	0.14	10	0.49	213	1	0.02	12	250	9	0.01	<2	3	23
CC136334		10	<1	0.18	10	0.87	476	3	0.02	13	430	15	0.02	<2	8	25
CC136335		10	<1	0.10	10	0.49	282	2	0.02	11	170	16	0.01	<2	3	24
CC136336		10	<1	0.08	10	0.54	468	2	0.02	18	230	13	0.01	<2	4	32
CC136337		10	<1	0.11	10	0.59	315	2	0.02	19	200	17	0.01	<2	4	37
CC136338		<10	<1	0.08	10	0.32	204	1	0.01	11	780	6	0.01	<2	2	17
CC136339		10	<1	0.07	10	0.46	362	1	0.01	15	370	9	0.01	<2	4	17
CC136340		10	<1	0.13	10	0.65	388	2	0.02	16	440	9	0.01	<2	4	27
CC136341		10	<1	0.09	10	0.57	331	2	0.02	16	210	12	0.01	<2	4	27
CC136342		10	<1	0.09	10	0.50	324	2	0.02	18	190	10	0.01	<2	4	22
CC136343		10	<1	0.10	10	0.50	432	2	0.02	12	410	10	0.02	<2	5	18
CC136344		10	<1	0.09	10	0.57	306	2	0.02	15	370	9	0.01	<2	5	23
CC136345		10	<1	0.09	30	0.56	703	4	0.01	12	550	10	0.01	<2	6	21
CC136346		10	<1	0.26	40	0.75	962	2	0.03	11	870	11	0.04	<2	7	34
CC136347		10	<1	0.11	110	0.59	612	2	0.02	12	610	9	0.03	<2	17	41
CC136348																
CC136349																
CC136350		<10	<1	0.09	10	0.50	261	1	0.02	17	390	8	0.02	<2	4	18
CC136351		<10	<1	0.19	40	0.51	857	3	0.03	11	770	12	0.08	<2	7	44
CC136352		<10	<1	0.10	20	0.38	347	6	0.02	9	610	11	0.01	<2	4	24
CC136353		<10	<1	0.13	20	0.39	443	6	0.02	11	680	10	0.03	<2	5	34
CC136354		<10	<1	0.08	10	0.31	162	1	0.02	7	380	6	0.01	<2	2	16
CC136355		<10	<1	0.09	20	0.27	238	1	0.02	6	960	7	0.03	<2	3	21
CC136356		<10	<1	0.14	30	0.46	375	2	0.03	13	710	15	0.05	<2	6	31
CC136357		<10	<1	0.26	40	0.46	1895	4	0.04	9	690	11	0.08	<2	7	43
CC136358		<10	<1	0.12	20	0.36	182	1	0.03	6	490	13	0.04	<2	5	17
CC136359		<10	<1	0.15	20	0.46	277	1	0.03	8	540	98	0.04	3	6	26
CC136360		<10	<1	0.06	20	0.17	107	1	0.03	5	420	5	0.04	<2	2	23
CC136381		10	<1	0.14	10	0.45	315	2	0.02	11	420	9	0.01	<2	4	16
CC136382		10	<1	0.16	10	0.49	739	3	0.01	11	390	11	0.01	<2	5	14
CC136383		10	<1	0.14	10	0.47	290	2	0.02	14	310	11	0.01	<2	3	20
CC136384		<10	<1	0.09	20	0.30	339	1	0.02	9	380	7	0.02	<2	3	20
CC136385		<10	<1	0.05	10	0.27	204	1	0.02	12	400	13	0.01	<2	2	15
CC136386		<10	<1	0.07	10	0.35	264	1	0.01	10	300	12	0.01	<2	2	16
CC136387		10	<1	0.10	10	0.52	323	2	0.01	19	350	14	0.01	<2	3	18
CC136388		10	1	0.21	10	0.69	704	3	0.02	17	620	17	0.01	<2	5	17
CC136389		10	<1	0.08	10	0.55	363	2	0.02	23	460	12	0.02	<2	5	22
CC136390		10	<1	0.11	10	0.46	411	2	0.02	11	440	17	0.02	<2	4	16

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH11119994**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC136331		<20	0.10	<10	<10	77	<10	77
CC136332		<20	0.08	<10	<10	48	<10	37
CC136333		<20	0.12	<10	<10	62	<10	46
CC136334		<20	0.14	<10	<10	101	<10	76
CC136335		<20	0.09	<10	<10	62	<10	62
CC136336		<20	0.12	<10	<10	75	<10	65
CC136337		<20	0.15	<10	<10	75	<10	60
CC136338		<20	0.07	<10	<10	38	<10	30
CC136339		<20	0.07	<10	<10	54	<10	42
CC136340		<20	0.18	<10	<10	73	<10	54
CC136341		<20	0.14	<10	<10	78	<10	57
CC136342		<20	0.12	<10	<10	67	<10	50
CC136343		<20	0.10	<10	<10	71	<10	51
CC136344		<20	0.10	<10	<10	72	<10	52
CC136345		<20	0.03	<10	<10	51	<10	45
CC136346		<20	0.19	<10	<10	92	<10	68
CC136347		<20	0.05	<10	<10	63	<10	52
CC136348								
CC136349								
CC136350		<20	0.12	<10	<10	54	<10	44
CC136351		<20	0.11	<10	<10	73	<10	87
CC136352		<20	0.08	<10	<10	58	<10	41
CC136353		<20	0.08	<10	10	46	<10	50
CC136354		<20	0.07	<10	<10	44	<10	31
CC136355		<20	0.07	<10	<10	39	<10	42
CC136356		<20	0.10	<10	10	66	<10	67
CC136357		<20	0.08	<10	<10	64	<10	68
CC136358		<20	0.04	<10	<10	37	<10	43
CC136359		<20	0.05	<10	<10	44	<10	61
CC136360		<20	0.04	<10	<10	23	<10	21
CC136381		<20	0.11	<10	<10	61	<10	37
CC136382		<20	0.12	<10	<10	80	<10	59
CC136383		<20	0.11	<10	<10	62	<10	49
CC136384		<20	0.07	<10	<10	52	<10	36
CC136385		<20	0.07	<10	<10	59	<10	59
CC136386		<20	0.08	<10	<10	53	<10	40
CC136387		<20	0.10	<10	<10	68	<10	57
CC136388		<20	0.15	<10	<10	85	<10	71
CC136389		<20	0.13	<10	<10	71	<10	67
CC136390		<20	0.10	<10	<10	68	<10	53



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**CERTIFICATE OF ANALYSIS WH11119994**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC136391		0.32	0.002	<0.2	2.01	8	<10	210	<0.5	<2	0.26	<0.5	8	18	23	3.31
CC136392		0.15	0.001	<0.2	1.42	6	<10	230	<0.5	<2	0.29	<0.5	7	18	15	2.57
CC136393	Destroyed															
CC136394		0.18	0.002	<0.2	2.44	9	<10	140	0.5	<2	0.16	<0.5	9	28	18	3.19
CC136395		0.35	0.001	0.2	2.56	5	<10	310	0.6	<2	0.43	<0.5	9	12	52	2.92
CC136396		0.30	0.002	0.7	2.26	7	<10	170	<0.5	<2	0.19	<0.5	7	27	23	2.83
CC136397		0.32	0.004	<0.2	2.48	8	<10	210	<0.5	<2	0.17	<0.5	9	23	28	3.01
CC136398		0.31	0.002	<0.2	1.74	7	<10	140	0.5	<2	0.21	<0.5	7	22	12	2.26
CC136399		0.31	0.002	<0.2	0.68	<2	<10	100	<0.5	<2	0.14	<0.5	3	9	15	1.00
CC136400		0.42	0.004	<0.2	2.08	4	<10	410	<0.5	<2	0.56	<0.5	9	27	15	3.15
CC136411		0.34	0.008	0.2	1.67	7	<10	350	<0.5	3	0.55	<0.5	9	17	32	2.95
CC136412		0.29	<0.001	0.2	2.87	10	<10	240	<0.5	<2	0.20	<0.5	13	16	13	4.29
CC136413		0.31	0.004	<0.2	2.33	11	<10	240	<0.5	<2	0.21	<0.5	10	34	25	3.55
CC136414		0.27	0.001	0.2	0.89	4	<10	240	0.5	<2	0.21	<0.5	5	12	9	2.51
CC136415		0.26	0.002	<0.2	1.31	4	<10	390	0.7	<2	0.67	<0.5	9	14	19	3.18
CC136416		0.25	0.002	<0.2	1.06	4	<10	220	<0.5	<2	0.29	<0.5	7	20	11	2.81
CC136417		0.30	<0.001	<0.2	2.39	6	<10	390	0.5	<2	0.40	<0.5	12	14	13	3.71
CC136418		0.36	0.004	<0.2	1.74	4	<10	250	<0.5	<2	0.38	<0.5	9	19	18	2.65
CC136419		0.45	0.011	<0.2	1.02	5	<10	130	<0.5	<2	0.21	<0.5	5	18	8	2.11
CC136420		0.23	0.003	0.2	2.34	7	<10	460	0.8	<2	0.60	<0.5	13	26	31	3.02
CC136421		0.23	0.014	0.2	1.35	8	<10	250	0.5	<2	0.44	<0.5	10	24	11	3.78
CC136422		0.13	0.003	<0.2	1.64	<2	<10	380	0.7	<2	0.56	<0.5	4	17	25	1.45
CC136423		0.37	0.003	<0.2	1.96	3	<10	400	0.5	<2	0.57	<0.5	9	18	14	3.78
CC136424		0.28	0.001	<0.2	2.14	7	<10	240	<0.5	<2	0.48	<0.5	11	14	12	3.81
CC136425		0.27	<0.001	<0.2	1.44	2	<10	220	<0.5	<2	0.53	<0.5	8	11	12	2.56
CC136426		0.23	0.001	<0.2	1.37	6	<10	470	<0.5	<2	0.37	<0.5	7	21	11	2.34
CC136427		0.40	<0.001	<0.2	1.61	3	<10	310	<0.5	<2	0.50	<0.5	9	8	9	2.95
CC136428		0.15	0.002	<0.2	1.88	6	<10	250	<0.5	<2	0.39	<0.5	9	29	13	3.36
CC136429		0.35	0.011	<0.2	2.23	4	<10	460	<0.5	<2	0.76	<0.5	12	22	22	3.76
CC136430		0.42	0.001	<0.2	1.15	12	<10	100	<0.5	<2	0.25	<0.5	9	20	24	2.56
CC136471		0.23	<0.001	<0.2	0.14	2	<10	20	<0.5	<2	0.20	<0.5	2	3	3	0.66
CC136472		0.18	0.001	<0.2	0.20	<2	<10	30	<0.5	<2	0.17	<0.5	2	2	5	0.48
CC136473		0.19	0.002	0.2	1.02	2	<10	210	<0.5	<2	0.46	<0.5	2	9	41	0.92
CC136474		0.18	NSS	<0.2	0.80	5	<10	250	<0.5	<2	0.60	<0.5	7	10	17	1.72
CC136475		0.18	0.002	<0.2	0.94	11	<10	210	<0.5	<2	0.47	<0.5	7	20	17	2.38
CC136476		0.34	0.004	<0.2	1.22	4	<10	230	<0.5	<2	0.43	<0.5	5	22	26	1.48
CC136477		0.21	0.002	<0.2	1.23	9	<10	310	0.5	<2	0.36	<0.5	9	16	22	3.04
CC136478		0.16	0.004	<0.2	0.29	<2	<10	70	<0.5	<2	0.14	<0.5	2	4	9	0.63
CC136479		0.20	0.054	<0.2	0.61	<2	<10	330	<0.5	<2	0.45	<0.5	16	9	10	2.48
CC136480		0.28	0.004	<0.2	1.59	11	<10	200	<0.5	<2	0.21	<0.5	9	23	15	2.85

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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC136391		10	<1	0.14	10	0.54	333	3	0.02	10	240	10	0.01	<2	7	24
CC136392		10	<1	0.09	20	0.41	406	2	0.02	9	310	9	0.01	<2	6	22
CC136393																
CC136394		10	<1	0.09	10	0.47	309	2	0.02	16	410	11	0.02	<2	4	17
CC136395		10	<1	0.15	30	0.72	697	1	0.02	7	380	8	0.01	<2	8	33
CC136396		10	<1	0.10	10	0.46	205	2	0.02	14	300	8	0.01	<2	4	20
CC136397		10	<1	0.13	10	0.55	316	1	0.02	16	360	10	0.02	<2	4	23
CC136398		<10	<1	0.08	10	0.37	242	1	0.01	14	410	8	0.01	<2	4	16
CC136399		<10	<1	0.04	10	0.15	92	1	0.03	5	300	6	0.01	<2	1	15
CC136400		10	<1	0.28	20	0.76	421	2	0.02	13	860	7	0.01	<2	7	28
CC136411		10	<1	0.19	20	0.56	532	3	0.03	9	700	8	0.03	<2	8	31
CC136412		10	<1	0.23	10	0.96	716	2	0.03	8	650	10	0.02	<2	7	13
CC136413		10	<1	0.11	10	0.55	414	2	0.02	19	360	11	0.01	<2	4	25
CC136414		<10	<1	0.11	20	0.24	345	1	0.02	7	330	7	0.01	<2	6	18
CC136415		<10	<1	0.14	20	0.39	604	1	0.02	8	710	12	0.05	2	9	38
CC136416		<10	<1	0.13	10	0.37	407	2	0.02	10	320	10	0.02	<2	5	23
CC136417		10	<1	0.43	20	0.81	711	2	0.03	8	810	9	0.02	<2	8	26
CC136418		10	<1	0.12	10	0.61	378	1	0.02	10	460	7	0.01	<2	5	29
CC136419		<10	<1	0.09	10	0.35	178	1	0.01	9	160	6	0.01	<2	3	19
CC136420		10	<1	0.13	40	0.52	766	2	0.02	16	750	11	0.04	<2	5	47
CC136421		<10	<1	0.13	20	0.46	514	2	0.02	10	910	8	0.02	<2	6	26
CC136422		<10	1	0.13	50	0.38	141	1	0.02	7	630	10	0.06	<2	11	32
CC136423		10	<1	0.26	60	0.73	410	1	0.03	8	700	7	0.03	<2	16	24
CC136424		10	<1	0.15	10	0.82	638	2	0.03	6	450	9	0.02	<2	9	28
CC136425		10	<1	0.18	10	0.50	510	1	0.03	5	550	7	0.02	<2	5	31
CC136426		<10	<1	0.11	10	0.49	377	1	0.02	12	410	6	0.02	<2	4	24
CC136427		10	<1	0.18	20	0.71	788	2	0.02	7	710	7	0.01	<2	9	23
CC136428		10	<1	0.15	10	0.52	433	3	0.01	12	220	10	0.01	<2	5	25
CC136429		10	<1	0.31	30	1.02	599	2	0.02	11	920	8	0.06	2	10	44
CC136430		<10	<1	0.11	10	0.41	452	2	0.01	11	620	11	0.01	<2	4	14
CC136471		<10	<1	0.02	<10	0.04	95	1	0.03	<1	460	<2	0.01	<2	<1	15
CC136472		<10	<1	0.03	<10	0.04	53	1	0.03	2	290	<2	0.01	<2	1	12
CC136473		<10	<1	0.09	30	0.17	115	1	0.03	6	460	3	0.06	<2	4	30
CC136474		<10	<1	0.08	20	0.22	667	2	0.01	11	750	5	0.05	<2	2	34
CC136475		<10	<1	0.12	10	0.33	416	3	0.02	11	550	8	0.02	<2	3	32
CC136476		<10	<1	0.12	30	0.41	209	2	0.01	11	750	7	0.02	2	5	29
CC136477		<10	<1	0.13	40	0.39	511	5	0.02	7	700	9	0.02	<2	5	28
CC136478		<10	<1	0.03	<10	0.04	45	1	0.03	2	310	<2	0.01	<2	1	13
CC136479		<10	<1	0.05	20	0.14	3350	3	0.02	6	930	3	0.03	<2	2	28
CC136480		10	<1	0.12	10	0.50	386	3	0.01	15	280	8	<0.01	<2	4	16





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**CERTIFICATE OF ANALYSIS WH11119994**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC136391		<20	0.10	<10	<10	73	<10	50
CC136392		<20	0.08	<10	<10	61	<10	43
CC136393								
CC136394		<20	0.09	<10	<10	63	<10	50
CC136395		20	0.07	<10	<10	60	<10	47
CC136396		<20	0.12	<10	<10	70	<10	41
CC136397		<20	0.15	<10	<10	77	<10	48
CC136398		<20	0.07	<10	<10	47	<10	37
CC136399		<20	0.04	<10	<10	28	<10	16
CC136400		<20	0.21	<10	<10	83	<10	59
CC136411		<20	0.12	<10	<10	72	<10	57
CC136412		<20	0.17	<10	<10	104	<10	73
CC136413		<20	0.13	<10	<10	82	<10	72
CC136414		<20	0.05	<10	<10	55	<10	44
CC136415		<20	0.06	<10	<10	64	<10	65
CC136416		<20	0.09	<10	<10	66	<10	55
CC136417		<20	0.20	<10	<10	91	<10	62
CC136418		<20	0.15	<10	<10	66	<10	50
CC136419		<20	0.09	<10	<10	55	<10	39
CC136420		<20	0.09	<10	<10	74	<10	58
CC136421		<20	0.10	<10	<10	75	<10	49
CC136422		<20	0.06	<10	<10	48	<10	53
CC136423		20	0.14	<10	<10	80	<10	58
CC136424		<20	0.07	<10	<10	92	<10	71
CC136425		<20	0.10	<10	<10	67	<10	52
CC136426		<20	0.09	<10	<10	54	<10	47
CC136427		<20	0.09	<10	<10	65	<10	59
CC136428		<20	0.11	<10	<10	84	<10	74
CC136429		20	0.19	<10	<10	96	<10	107
CC136430		<20	0.08	<10	<10	56	<10	51
CC136471		<20	0.05	<10	<10	24	<10	13
CC136472		<20	0.02	<10	<10	14	<10	11
CC136473		<20	0.03	<10	<10	16	<10	27
CC136474		<20	0.05	<10	<10	30	<10	44
CC136475		<20	0.06	<10	<10	53	<10	51
CC136476		<20	0.08	<10	<10	48	<10	40
CC136477		<20	0.08	<10	<10	54	<10	49
CC136478		<20	0.03	<10	<10	18	<10	12
CC136479		<20	0.11	<10	<10	64	<10	55
CC136480		<20	0.09	<10	<10	58	<10	50



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Project: Wolverine - BBB

**CERTIFICATE OF ANALYSIS WH11119994**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC136481		0.33	0.001	<0.2	1.49	4	<10	380	0.8	<2	0.41	<0.5	12	17	19	4.18
CC136482		0.37	0.008	<0.2	1.00	6	<10	100	<0.5	<2	0.24	<0.5	4	19	8	2.00
CC136483		0.27	0.002	0.3	1.70	2	<10	340	0.5	<2	0.32	<0.5	8	12	104	2.74
CC136484	Destroyed															
CC136485		0.14	0.001	<0.2	0.85	8	<10	130	<0.5	<2	0.10	<0.5	8	9	26	3.20
CC136486		0.27	0.001	<0.2	1.51	7	<10	370	0.9	<2	0.34	<0.5	13	12	90	4.73
CC136487		0.27	0.001	0.5	1.90	10	<10	270	<0.5	<2	0.21	<0.5	8	26	42	2.78
CC136488		0.25	0.001	0.2	3.96	13	<10	270	0.8	<2	0.21	<0.5	13	20	27	5.03
CC136489		0.28	0.001	<0.2	2.21	14	<10	270	0.5	<2	0.17	<0.5	9	24	21	2.70
CC136492		0.30	0.004	<0.2	1.51	5	<10	150	<0.5	<2	0.38	<0.5	6	22	15	2.17
CC136493		0.43	0.003	<0.2	1.48	6	<10	200	<0.5	<2	0.46	<0.5	7	21	14	2.40
CC136494		0.16	0.001	<0.2	1.31	2	<10	190	<0.5	<2	0.38	<0.5	6	13	20	1.54
CC136495		0.26	0.009	<0.2	1.40	5	<10	150	<0.5	<2	0.27	<0.5	6	14	18	2.31
CC136496		0.29	0.001	<0.2	1.69	6	<10	110	<0.5	<2	0.21	<0.5	7	20	16	2.34
CC136497		0.29	0.001	<0.2	1.71	8	<10	130	<0.5	<2	0.31	<0.5	7	25	13	2.50
CC136498		0.37	0.001	<0.2	2.16	6	<10	150	0.5	<2	0.60	<0.5	9	20	25	3.26
CC136499		0.38	0.002	<0.2	2.48	11	<10	170	0.6	<2	0.48	<0.5	10	23	20	3.00
CC136500		0.29	0.003	<0.2	2.33	8	<10	140	0.6	<2	0.29	<0.5	8	26	15	3.23
CC136251		0.47	0.004	<0.2	1.98	6	<10	290	0.5	<2	0.27	<0.5	10	17	36	3.58
CC136252		0.14	0.002	0.5	1.30	5	<10	190	<0.5	<2	0.22	<0.5	9	11	19	1.65
CC136253	Destroyed															
CC136254	Destroyed															
CC136255		0.33	0.002	0.2	2.46	7	<10	260	0.6	<2	0.27	<0.5	12	24	43	3.62
CC136256		0.17	<0.001	0.5	0.65	3	<10	230	<0.5	<2	0.35	<0.5	3	7	19	0.88
CC136257		0.24	0.002	<0.2	0.98	2	<10	200	<0.5	<2	0.36	<0.5	4	16	10	1.47
CC136258		0.27	0.001	<0.2	1.87	9	<10	540	<0.5	<2	0.39	<0.5	9	32	24	2.85
CC136259		0.35	0.004	<0.2	1.85	10	<10	350	<0.5	<2	0.55	<0.5	8	27	27	2.69
CC136260		0.38	0.001	0.2	2.08	9	<10	370	<0.5	<2	0.33	0.8	9	28	19	3.45
CC136461		0.36	0.010	<0.2	1.60	10	<10	260	0.5	2	0.50	<0.5	8	19	50	2.77
CC136462		0.28	0.002	0.6	2.88	36	<10	410	0.7	25	0.71	0.8	13	21	186	5.67
CC136463		0.23	0.001	<0.2	0.16	2	<10	30	<0.5	<2	0.17	<0.5	2	2	4	0.60
CC136464		0.25	0.009	<0.2	2.14	12	<10	440	0.8	<2	0.96	<0.5	11	26	37	3.14
CC136465		0.26	0.006	<0.2	0.24	2	<10	50	<0.5	<2	0.17	<0.5	1	3	6	0.42
CC136466		0.19	<0.001	0.2	0.27	<2	<10	50	<0.5	<2	0.11	<0.5	2	3	4	0.68
CC136467		0.19	0.001	<0.2	0.40	3	<10	60	<0.5	<2	0.14	<0.5	2	6	9	0.84
CC136468		0.32	0.001	0.3	1.81	8	<10	470	<0.5	<2	0.38	<0.5	9	22	33	2.77
CC136469		0.25	0.002	<0.2	0.87	4	<10	150	<0.5	<2	0.47	<0.5	3	15	19	1.30
CC136470		0.19	0.001	<0.2	0.14	2	<10	30	<0.5	<2	0.14	<0.5	1	1	3	0.46

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**CERTIFICATE OF ANALYSIS WH11119994**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC136481		10	<1	0.29	30	0.60	857	5	0.01	8	890	11	0.02	<2	9	29
CC136482		<10	<1	0.06	10	0.24	189	1	0.01	9	640	5	<0.01	<2	2	13
CC136483		10	<1	0.20	30	0.49	429	3	0.02	7	530	7	0.02	<2	7	22
CC136484																
CC136485		<10	<1	0.07	20	0.09	651	15	<0.01	3	320	11	0.01	6	4	16
CC136486		10	<1	0.26	40	0.56	1140	33	0.01	7	1090	14	0.01	<2	11	18
CC136487		10	<1	0.11	10	0.46	289	4	0.01	17	230	9	0.01	2	4	19
CC136488		10	<1	0.11	10	0.98	546	8	0.01	14	370	12	0.01	2	12	21
CC136489		10	<1	0.08	10	0.44	235	2	0.01	21	270	9	0.01	<2	3	17
CC136492		10	<1	0.08	10	0.49	231	1	0.01	11	800	7	0.02	<2	3	28
CC136493		10	<1	0.10	20	0.56	444	1	0.01	10	830	5	<0.01	<2	5	33
CC136494		<10	<1	0.06	10	0.26	546	2	0.02	9	640	5	0.04	<2	2	39
CC136495		10	<1	0.06	10	0.33	240	1	0.02	9	400	5	0.02	<2	3	29
CC136496		10	<1	0.06	10	0.38	236	1	0.01	12	430	6	0.01	<2	3	21
CC136497		10	<1	0.08	10	0.54	274	1	0.01	15	520	6	0.01	<2	4	20
CC136498		10	<1	0.07	20	0.84	452	1	0.01	10	500	8	0.01	<2	5	63
CC136499		10	<1	0.09	20	0.68	489	1	0.01	15	700	7	0.01	<2	5	34
CC136500		10	<1	0.07	10	0.56	290	2	0.01	14	480	7	0.01	<2	4	26
CC136251		10	<1	0.22	20	0.68	693	2	0.02	9	390	10	0.01	<2	8	24
CC136252		<10	<1	0.10	10	0.22	684	2	0.03	6	300	17	0.02	<2	3	20
CC136253																
CC136254																
CC136255		10	<1	0.16	20	0.60	578	3	0.01	16	360	9	0.01	<2	6	30
CC136256		<10	<1	0.07	30	0.12	219	1	0.03	3	600	<2	0.05	<2	2	30
CC136257		<10	<1	0.10	10	0.33	156	1	0.01	8	740	4	0.01	<2	2	21
CC136258		10	<1	0.12	10	0.53	307	1	0.02	17	210	11	0.03	<2	4	29
CC136259		10	1	0.08	10	0.46	924	1	0.02	15	280	10	0.03	<2	3	36
CC136260		10	1	0.12	10	0.52	539	1	0.02	14	270	12	0.02	<2	5	32
CC136461		10	<1	0.24	30	0.66	474	1	0.02	11	700	13	0.03	<2	7	27
CC136462		10	1	0.60	30	1.42	972	3	0.02	11	650	30	0.05	2	14	33
CC136463		<10	<1	0.03	<10	0.03	50	<1	0.05	1	310	<2	0.03	<2	<1	14
CC136464		10	1	0.18	30	0.50	667	2	0.02	15	580	10	0.07	<2	8	52
CC136465		<10	<1	0.04	<10	0.03	39	<1	0.04	1	340	<2	0.03	<2	1	13
CC136466		<10	<1	0.04	<10	0.03	108	<1	0.04	1	330	<2	0.02	<2	1	11
CC136467		<10	<1	0.04	<10	0.07	84	<1	0.03	2	200	3	0.02	<2	1	13
CC136468		10	<1	0.09	20	0.40	998	1	0.02	11	270	8	0.03	<2	4	34
CC136469		<10	<1	0.06	10	0.24	118	<1	0.03	8	590	3	0.05	<2	2	35
CC136470		<10	<1	0.03	<10	0.03	40	<1	0.05	1	190	<2	0.03	2	<1	14

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**CERTIFICATE OF ANALYSIS WH11119994**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC136481		20	0.13	<10	<10	78	<10	67
CC136482		<20	0.05	<10	<10	49	<10	27
CC136483		<20	0.09	<10	<10	58	<10	49
CC136484								
CC136485		<20	0.02	<10	<10	59	<10	62
CC136486		30	0.13	<10	<10	86	30	88
CC136487		<20	0.08	<10	<10	57	<10	49
CC136488		30	0.11	<10	<10	105	<10	72
CC136489		<20	0.08	<10	<10	58	<10	42
CC136492		<20	0.10	<10	<10	56	<10	42
CC136493		<20	0.11	<10	<10	56	<10	46
CC136494		<20	0.05	<10	<10	36	<10	37
CC136495		<20	0.07	<10	<10	57	<10	34
CC136496		<20	0.09	<10	<10	57	<10	36
CC136497		<20	0.09	<10	<10	55	<10	46
CC136498		<20	0.10	<10	<10	76	<10	55
CC136499		<20	0.13	<10	<10	67	<10	49
CC136500		<20	0.10	<10	<10	73	<10	47
CC136251		20	0.13	<10	<10	86	<10	58
CC136252		<20	0.05	<10	<10	39	<10	29
CC136253								
CC136254								
CC136255		<20	0.13	<10	<10	79	<10	56
CC136256		<20	0.03	<10	<10	22	<10	16
CC136257		<20	0.08	<10	<10	39	<10	37
CC136258		<20	0.11	<10	<10	66	<10	54
CC136259		<20	0.08	<10	<10	63	<10	49
CC136260		<20	0.11	<10	<10	81	<10	81
CC136461		<20	0.13	<10	<10	64	<10	65
CC136462		30	0.27	<10	<10	133	50	135
CC136463		<20	0.03	<10	<10	21	<10	12
CC136464		<20	0.07	<10	<10	65	<10	48
CC136465		<20	0.03	<10	<10	16	<10	10
CC136466		<20	0.03	<10	<10	22	<10	11
CC136467		<20	0.05	<10	<10	28	<10	13
CC136468		<20	0.10	<10	<10	73	<10	52
CC136469		<20	0.05	<10	<10	28	<10	29
CC136470		<20	0.03	<10	<10	16	<10	11

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**CERTIFICATE OF ANALYSIS WH11119994**

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non- sufficient sample.



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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

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**CERTIFICATE WH11119995**

Project: Wolverine- BBB  
 P.O. No.:  
 This report is for 199 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28-JUN- 2011.  
 The following have access to data associated with this certificate:  
 JOAN MARIACHER                      HEATHER SMITH

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
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To: ARCHER, CATHRO AND ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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**CERTIFICATE OF ANALYSIS WH11119995**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC131031		0.22	0.014	1.2	2.07	60	<10	130	0.6	2	0.63	<0.5	11	70	68	3.32
CC131032		0.28	0.008	0.4	1.63	25	<10	110	0.6	3	0.63	<0.5	8	41	60	2.45
CC131033		0.32	0.002	<0.2	1.97	23	<10	100	0.6	<2	0.18	<0.5	10	34	20	3.13
CC131034		0.23	0.001	0.2	1.41	8	<10	120	<0.5	<2	0.17	<0.5	9	23	19	2.58
CC131035		0.29	0.005	<0.2	1.55	7	<10	90	<0.5	<2	0.31	<0.5	8	32	18	2.23
CC131461		Not Recvd														
CC131462		Not Recvd														
CC131463		Not Recvd														
CC131464		Not Recvd														
CC131465		Not Recvd														
CC131466		Not Recvd														
CC131467		Not Recvd														
CC131468		Not Recvd														
CC131469		Not Recvd														
CC131470		Not Recvd														
CC131551		0.28	<0.001	<0.2	0.60	7	<10	110	<0.5	<2	0.24	<0.5	7	13	15	1.77
CC131552		0.31	<0.001	0.3	1.98	10	<10	200	<0.5	<2	0.23	<0.5	9	23	26	2.76
CC131553		0.33	<0.001	<0.2	1.48	8	<10	300	0.6	<2	0.56	<0.5	8	18	58	3.82
CC131554		0.35	0.003	0.2	1.70	10	<10	370	0.5	<2	0.61	<0.5	8	23	60	2.76
CC131555		0.32	<0.001	<0.2	2.03	9	<10	240	0.8	<2	0.35	<0.5	13	17	26	3.81
CC131556		0.40	0.005	<0.2	1.45	8	<10	200	0.7	<2	0.42	<0.5	8	26	26	2.47
CC131557		0.28	0.001	0.2	3.27	18	<10	240	0.6	12	0.25	<0.5	12	34	57	4.52
CC131558		0.33	<0.001	<0.2	3.78	16	<10	310	0.8	7	0.20	<0.5	19	27	64	5.59
CC131559		0.29	0.003	<0.2	1.23	7	<10	110	<0.5	<2	0.18	<0.5	6	14	15	2.55
CC131560		0.28	0.002	<0.2	2.64	11	<10	220	<0.5	<2	0.20	<0.5	9	28	42	3.44
CC131571		0.38	0.001	<0.2	2.59	9	<10	360	0.8	<2	0.84	<0.5	11	30	32	3.88
CC131572		0.21	0.003	<0.2	1.42	8	<10	70	<0.5	<2	0.20	<0.5	7	20	14	2.15
CC131573		0.26	0.002	<0.2	2.32	12	<10	150	0.6	<2	0.23	<0.5	9	30	22	3.05
CC131574		0.26	<0.001	<0.2	2.44	11	<10	330	0.8	<2	0.23	<0.5	12	21	24	3.49
CC131575		0.08	<0.001	<0.2	1.39	8	<10	140	<0.5	<2	0.20	<0.5	7	22	10	2.71
CC131576		0.22	<0.001	0.8	2.41	15	<10	150	0.6	<2	0.18	<0.5	7	27	18	3.05
CC131577		0.19	<0.001	<0.2	1.66	11	<10	130	<0.5	<2	0.18	<0.5	6	23	16	2.90
CC131578		0.29	0.007	<0.2	1.87	10	<10	100	<0.5	<2	0.22	<0.5	7	24	21	2.75
CC131579		0.05	<0.001	<0.2	0.95	11	<10	70	<0.5	<2	0.15	<0.5	6	17	12	2.11
CC131580		0.37	0.006	<0.2	1.16	10	<10	80	<0.5	<2	0.19	<0.5	6	18	13	1.95
CC131601		0.33	0.001	<0.2	1.33	9	<10	90	<0.5	<2	0.15	<0.5	4	18	16	2.62
CC131602		0.36	<0.001	<0.2	2.83	6	<10	490	0.8	<2	0.41	<0.5	11	18	12	3.29
CC131603		0.39	0.004	<0.2	2.07	11	<10	220	0.6	<2	0.35	<0.5	10	31	20	2.88
CC131604		0.39	0.002	<0.2	2.80	4	<10	220	0.7	<2	0.27	<0.5	14	20	15	3.84
CC131605		0.38	0.001	0.2	2.26	10	<10	270	0.7	<2	0.28	<0.5	10	29	25	3.02





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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC131031		10	1	0.08	10	0.78	331	<1	0.02	39	860	15	0.07	7	7	46
CC131032		<10	<1	0.06	10	0.57	213	<1	0.02	45	950	11	0.07	2	4	38
CC131033		10	<1	0.17	20	0.52	314	<1	0.01	23	330	8	0.03	<2	4	15
CC131034		10	1	0.09	10	0.27	1100	<1	0.01	11	320	9	0.03	<2	2	20
CC131035		10	<1	0.07	10	0.53	282	<1	0.01	18	550	7	0.04	<2	3	21
CC131461																
CC131462																
CC131463																
CC131464																
CC131465																
CC131466																
CC131467																
CC131468																
CC131469																
CC131470																
CC131551		<10	<1	0.05	10	0.19	389	<1	0.02	6	660	5	0.04	<2	2	18
CC131552		<10	<1	0.09	10	0.42	512	1	0.02	15	200	8	0.03	<2	3	24
CC131553		10	<1	0.33	40	0.56	322	12	0.02	9	720	7	0.04	<2	10	28
CC131554		<10	1	0.24	60	0.51	381	2	0.02	15	550	7	0.04	<2	13	34
CC131555		10	<1	0.24	30	0.39	599	2	0.02	9	520	11	0.03	<2	6	23
CC131556		<10	1	0.12	10	0.44	604	1	0.02	13	310	17	0.03	<2	4	28
CC131557		10	1	0.13	10	0.62	394	3	0.02	23	370	15	0.04	<2	5	27
CC131558		10	<1	0.45	10	0.91	762	6	0.02	16	380	13	0.04	<2	10	23
CC131559		10	<1	0.08	10	0.29	210	<1	0.01	6	240	6	0.03	<2	3	19
CC131560		10	<1	0.07	10	0.41	282	1	0.01	19	240	9	0.03	<2	3	24
CC131571		10	1	0.12	30	0.61	739	<1	0.02	18	630	11	0.05	<2	8	44
CC131572		<10	<1	0.05	10	0.27	234	<1	0.01	12	500	7	0.03	<2	2	17
CC131573		<10	<1	0.10	10	0.51	311	<1	0.02	18	530	8	0.03	<2	4	19
CC131574		10	<1	0.18	20	0.51	476	<1	0.01	15	300	11	0.03	<2	8	19
CC131575		10	<1	0.13	10	0.48	419	3	0.01	10	200	9	0.03	<2	3	18
CC131576		10	<1	0.08	20	0.37	234	1	0.01	15	550	8	0.03	<2	4	17
CC131577		10	<1	0.07	10	0.38	241	1	0.02	11	370	7	0.03	<2	3	20
CC131578		<10	<1	0.07	10	0.44	257	<1	0.01	14	430	7	0.03	<2	3	15
CC131579		<10	<1	0.05	10	0.25	276	1	0.01	10	410	8	0.01	<2	2	11
CC131580		<10	<1	0.06	10	0.26	181	<1	0.01	11	540	5	0.01	<2	2	12
CC131601		10	<1	0.05	10	0.37	193	1	0.01	7	220	10	0.02	<2	2	16
CC131602		10	<1	0.06	20	0.89	479	<1	0.02	9	600	7	0.03	<2	6	32
CC131603		10	<1	0.08	20	0.68	393	<1	0.02	18	670	6	0.03	<2	6	24
CC131604		10	<1	0.10	10	0.96	683	<1	0.01	10	520	8	0.03	<2	8	18
CC131605		10	<1	0.09	10	0.61	413	<1	0.02	17	600	8	0.04	<2	6	20



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC131031		<20	0.03	<10	<10	82	<10	80
CC131032		<20	0.06	<10	<10	54	<10	66
CC131033		<20	0.10	<10	<10	56	<10	50
CC131034		<20	0.10	<10	<10	62	<10	57
CC131035		<20	0.09	<10	<10	52	<10	46
CC131461								
CC131462								
CC131463								
CC131464								
CC131465								
CC131466								
CC131467								
CC131468								
CC131469								
CC131470								
CC131551		<20	0.06	<10	<10	47	<10	30
CC131552		<20	0.08	<10	<10	63	<10	56
CC131553		<20	0.12	<10	<10	78	<10	70
CC131554		<20	0.09	<10	<10	58	<10	48
CC131555		20	0.06	<10	<10	62	<10	58
CC131556		<20	0.08	<10	<10	54	<10	45
CC131557		<20	0.16	<10	<10	95	20	64
CC131558		<20	0.23	<10	<10	117	10	100
CC131559		<20	0.08	<10	<10	64	<10	37
CC131560		<20	0.13	<10	<10	84	<10	50
CC131571		<20	0.07	<10	<10	89	<10	71
CC131572		<20	0.08	<10	<10	52	<10	30
CC131573		<20	0.10	<10	<10	66	<10	51
CC131574		<20	0.10	<10	<10	69	<10	54
CC131575		<20	0.15	<10	<10	74	<10	47
CC131576		<20	0.10	<10	<10	61	<10	40
CC131577		<20	0.11	<10	<10	71	<10	45
CC131578		<20	0.10	<10	<10	59	<10	43
CC131579		<20	0.06	<10	<10	52	<10	35
CC131580		<20	0.05	<10	<10	44	<10	29
CC131601		<20	0.14	<10	<10	86	<10	37
CC131602		<20	0.07	<10	<10	73	<10	50
CC131603		<20	0.11	<10	<10	62	<10	54
CC131604		<20	0.07	<10	<10	79	<10	59
CC131605		<20	0.08	<10	<10	64	<10	54



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**CERTIFICATE OF ANALYSIS WH11119995**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC131606		Not Recvd														
CC131607		0.32	0.002	<0.2	1.92	9	<10	170	0.5	<2	0.18	<0.5	8	22	15	2.52
CC131608		0.38	0.001	<0.2	1.91	9	<10	210	0.6	<2	0.30	<0.5	8	25	14	2.69
CC131609		0.41	0.001	<0.2	1.90	12	<10	180	0.5	<2	0.22	<0.5	9	25	14	2.62
CC131610		Not Recvd														
CC131721		0.29	<0.001	<0.2	1.65	11	<10	190	<0.5	<2	0.43	<0.5	7	21	12	3.34
CC131722		0.41	<0.001	<0.2	1.34	3	<10	180	<0.5	<2	0.45	<0.5	6	16	12	2.29
CC131723		0.34	0.002	0.5	2.01	6	<10	210	0.5	<2	0.50	<0.5	7	23	15	2.86
CC131724		0.29	0.001	<0.2	2.33	10	<10	180	<0.5	<2	0.19	<0.5	9	30	18	3.31
CC131725		0.31	<0.001	<0.2	1.82	4	<10	220	<0.5	<2	0.29	<0.5	9	19	11	2.71
CC131726		0.22	<0.001	<0.2	1.13	2	<10	150	<0.5	<2	0.22	<0.5	6	12	7	1.78
CC131727		0.35	0.010	0.2	1.04	7	<10	140	<0.5	<2	0.45	<0.5	6	17	9	1.75
CC131729		0.29	0.004	<0.2	1.05	<2	<10	160	0.6	<2	0.52	<0.5	5	14	8	1.73
CC131730		0.28	0.003	0.2	0.82	5	<10	90	<0.5	<2	0.26	<0.5	5	15	7	1.67
CC131741		0.13	<0.001	<0.2	1.41	6	<10	200	<0.5	<2	0.29	<0.5	6	17	13	2.33
CC131742		0.30	0.001	0.3	1.74	6	<10	270	0.5	<2	0.44	<0.5	10	24	20	3.47
CC131743		0.22	<0.001	<0.2	2.95	13	<10	280	0.6	<2	0.23	<0.5	11	27	15	3.70
CC131744		0.28	<0.001	<0.2	2.48	10	<10	250	0.6	<2	0.27	<0.5	11	33	15	3.33
CC131745		0.19	0.011	<0.2	0.18	<2	<10	30	<0.5	<2	0.13	<0.5	1	1	5	0.31
CC131746		0.18	<0.001	<0.2	0.83	2	<10	150	<0.5	<2	0.45	<0.5	5	10	8	1.64
CC131747		0.27	0.010	<0.2	0.89	4	<10	130	<0.5	<2	0.33	<0.5	5	11	5	1.58
CC131761		0.21	0.002	<0.2	0.67	4	<10	70	<0.5	<2	0.10	<0.5	3	11	7	1.35
CC131762		0.22	0.002	<0.2	1.46	6	<10	160	<0.5	<2	0.18	<0.5	6	18	15	1.93
CC131763		0.24	0.004	<0.2	2.80	9	<10	260	0.7	<2	0.22	<0.5	12	30	22	3.41
CC131764		0.27	<0.001	<0.2	3.11	7	<10	220	1.0	<2	0.15	<0.5	12	20	12	4.12
CC131765		0.24	0.002	<0.2	2.73	10	<10	220	0.7	<2	0.17	<0.5	12	23	13	3.69
CC131766		0.24	0.002	<0.2	2.71	10	<10	160	0.7	<2	0.19	<0.5	11	34	17	3.20
CC131767		0.32	<0.001	<0.2	1.84	11	<10	230	0.8	<2	0.22	<0.5	12	20	9	3.80
CC131768		0.25	0.002	<0.2	1.98	8	<10	360	0.5	<2	0.49	<0.5	8	28	11	3.06
CC131769		0.28	<0.001	<0.2	1.49	5	<10	200	<0.5	<2	0.31	<0.5	6	18	19	2.03
CC131770		0.23	0.002	<0.2	1.63	9	<10	190	<0.5	<2	0.22	<0.5	5	19	18	2.93
CC131794		Not Recvd														
CC131795		Not Recvd														
CC131796		0.38	<0.001	<0.2	1.40	5	<10	170	0.5	<2	0.42	<0.5	7	9	8	2.43
CC131797		0.27	0.004	0.2	1.18	8	<10	100	<0.5	<2	0.30	<0.5	5	17	7	1.85
CC131798		0.16	0.003	<0.2	0.69	5	<10	50	<0.5	<2	0.22	<0.5	3	13	5	1.35
CC131799		0.13	<0.001	0.2	1.31	5	<10	140	<0.5	<2	0.35	<0.5	5	12	11	1.57
CC131800		0.33	0.005	<0.2	1.32	7	<10	110	<0.5	<2	0.28	<0.5	9	15	10	2.15
CC131830		0.28	0.002	<0.2	1.05	9	<10	70	<0.5	<2	0.26	<0.5	5	18	8	1.97
CC131831		0.30	<0.001	<0.2	1.28	4	<10	270	<0.5	<2	0.36	<0.5	8	8	7	2.07



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC131606		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC131607		10	<1	0.06	10	0.49	256	<1	0.02	11	370	6	0.04	<2	4	16
CC131608		10	1	0.08	20	0.57	346	<1	0.02	12	540	7	0.02	<2	6	21
CC131609		10	<1	0.07	10	0.47	303	<1	0.01	15	520	5	0.03	<2	4	15
CC131610																
CC131721		10	<1	0.06	10	0.53	253	<1	0.02	8	730	12	0.04	<2	4	27
CC131722		<10	<1	0.05	10	0.44	321	<1	0.02	7	690	7	0.05	<2	3	27
CC131723		10	<1	0.07	20	0.60	290	<1	0.02	9	650	10	0.05	<2	5	35
CC131724		10	<1	0.09	10	0.56	271	<1	0.01	16	200	7	0.03	<2	3	22
CC131725		10	<1	0.14	20	0.65	628	<1	0.02	9	480	5	0.03	<2	5	19
CC131726		<10	<1	0.07	10	0.27	170	<1	0.02	6	280	2	0.04	<2	2	17
CC131727		<10	<1	0.08	10	0.39	186	<1	0.03	7	700	4	0.05	<2	3	27
CC131729		<10	<1	0.06	20	0.36	191	<1	0.02	6	830	4	0.05	<2	3	33
CC131730		<10	<1	0.05	10	0.26	288	<1	0.02	6	750	4	0.04	<2	2	16
CC131741		10	<1	0.05	10	0.39	326	<1	0.02	8	720	6	0.05	<2	2	24
CC131742		10	<1	0.11	20	0.57	789	<1	0.02	12	970	16	0.05	<2	4	29
CC131743		10	<1	0.19	10	0.82	372	<1	0.02	16	320	9	0.03	<2	4	18
CC131744		10	<1	0.11	10	0.68	321	<1	0.02	18	350	8	0.03	<2	5	24
CC131745		<10	<1	0.03	<10	0.02	21	<1	0.05	1	320	<2	<0.01	<2	<1	12
CC131746		<10	<1	0.08	10	0.32	246	<1	0.03	4	690	2	0.04	<2	2	28
CC131747		<10	<1	0.09	10	0.34	192	<1	0.02	5	610	3	0.03	<2	3	17
CC131761		10	<1	0.05	10	0.12	106	1	0.01	5	140	4	0.03	<2	1	12
CC131762		<10	1	0.06	10	0.30	217	<1	0.02	11	260	7	0.03	<2	3	18
CC131763		10	<1	0.11	10	0.79	432	<1	0.02	21	310	8	0.03	<2	6	20
CC131764		10	<1	0.14	20	0.60	566	<1	0.01	12	400	14	0.03	<2	9	15
CC131765		10	1	0.10	10	0.94	637	<1	0.02	13	240	13	0.03	<2	6	16
CC131766		10	<1	0.08	10	0.57	307	<1	0.02	22	370	8	0.03	<2	4	16
CC131767		<10	<1	0.10	10	0.53	713	<1	0.01	10	360	11	0.02	<2	6	14
CC131768		10	<1	0.11	20	0.68	350	<1	0.02	13	520	7	0.03	<2	5	28
CC131769		<10	<1	0.07	10	0.38	203	<1	0.02	9	460	6	0.04	<2	2	24
CC131770		10	1	0.08	10	0.28	223	1	0.02	8	300	9	0.03	2	3	22
CC131794																
CC131795																
CC131796		<10	<1	0.12	20	0.53	580	<1	0.02	6	640	12	0.01	<2	5	22
CC131797		<10	<1	0.06	10	0.39	212	<1	0.02	9	610	5	0.02	<2	2	19
CC131798		<10	<1	0.05	10	0.23	113	<1	0.02	5	500	5	<0.01	<2	2	13
CC131799		<10	<1	0.06	20	0.25	311	<1	0.04	5	600	8	0.04	<2	2	30
CC131800		10	<1	0.09	10	0.38	619	<1	0.03	7	600	19	0.01	<2	2	25
CC131830		<10	<1	0.05	20	0.29	210	<1	0.01	9	600	6	<0.01	<2	2	17
CC131831		<10	<1	0.11	20	0.45	779	<1	0.03	3	830	14	0.02	2	4	24



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC131606		<20	0.06	<10	<10	60	<10	41
CC131607		<20	0.08	<10	<10	59	<10	47
CC131608		<20	0.08	<10	<10	56	<10	44
CC131609		<20	0.08	<10	<10	56	<10	44
CC131610		<20	0.08	<10	<10	56	<10	44
CC131721		<20	0.12	<10	<10	84	<10	51
CC131722		<20	0.09	<10	<10	58	<10	44
CC131723		<20	0.11	<10	<10	74	<10	50
CC131724		<20	0.12	<10	<10	76	<10	63
CC131725		<20	0.13	<10	<10	60	<10	48
CC131726		<20	0.10	<10	<10	47	<10	29
CC131727		<20	0.08	<10	<10	42	<10	41
CC131729		<20	0.07	<10	10	44	<10	42
CC131730		<20	0.05	<10	<10	42	<10	34
CC131741		<20	0.08	<10	<10	61	<10	47
CC131742		<20	0.12	<10	<10	91	<10	59
CC131743		20	0.23	<10	<10	86	<10	68
CC131744		<20	0.11	<10	<10	71	<10	60
CC131745		<20	0.03	<10	<10	13	<10	7
CC131746		<20	0.07	<10	10	37	<10	39
CC131747		<20	0.05	<10	<10	33	<10	35
CC131761		<20	0.10	<10	<10	58	<10	23
CC131762		<20	0.06	<10	<10	45	<10	32
CC131763		<20	0.11	<10	<10	72	<10	60
CC131764		20	0.02	<10	<10	70	<10	57
CC131765		20	0.08	<10	<10	75	<10	61
CC131766		<20	0.10	<10	<10	63	<10	52
CC131767		20	0.04	<10	<10	61	<10	69
CC131768		<20	0.11	<10	<10	65	<10	62
CC131769		<20	0.06	<10	<10	48	<10	36
CC131770		<20	0.10	<10	<10	74	<10	34
CC131794		<20	0.10	<10	<10	74	<10	34
CC131795		<20	0.10	<10	<10	74	<10	34
CC131796		<20	0.03	<10	<10	46	<10	55
CC131797		<20	0.06	<10	<10	41	<10	45
CC131798		<20	0.04	<10	<10	32	<10	26
CC131799		<20	0.05	<10	<10	38	<10	31
CC131800		<20	0.08	<10	<10	53	<10	48
CC131830		<20	0.06	<10	<10	47	<10	34
CC131831		<20	0.02	<10	<10	36	<10	54



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC131832		0.37	0.034	<0.2	1.28	4	<10	170	<0.5	<2	0.31	<0.5	6	17	9	2.38
CC131833		0.43	0.001	<0.2	0.93	4	<10	120	<0.5	<2	0.24	<0.5	5	11	12	1.61
CC131834		0.10	<0.001	<0.2	0.67	4	<10	50	<0.5	<2	0.15	<0.5	1	6	11	0.63
CC131835		0.20	<0.001	<0.2	1.02	6	<10	150	<0.5	<2	0.30	<0.5	3	10	12	1.20
CC131836		0.44	<0.001	<0.2	1.40	11	<10	120	<0.5	<2	0.25	<0.5	5	20	11	2.62
CC131837		0.24	0.002	<0.2	1.60	12	<10	140	<0.5	<2	0.34	<0.5	7	24	11	2.97
CC131838		0.19	<0.001	<0.2	1.62	10	<10	120	<0.5	<2	0.26	<0.5	6	25	16	2.74
CC131839		0.58	0.002	<0.2	2.75	8	<10	460	0.6	<2	0.54	<0.5	10	23	14	3.60
CC131901		0.27	0.002	<0.2	1.35	4	<10	250	<0.5	<2	0.64	<0.5	7	11	15	2.02
CC131902		0.25	0.003	<0.2	1.55	3	<10	240	<0.5	<2	0.75	<0.5	8	13	15	2.68
CC131903		0.20	0.002	<0.2	1.38	5	<10	210	<0.5	<2	0.61	<0.5	5	12	15	1.87
CC131904		0.22	0.004	0.2	1.75	6	<10	260	0.5	<2	0.54	<0.5	7	20	21	2.64
CC131905		0.34	0.002	<0.2	1.78	7	<10	180	<0.5	<2	0.45	<0.5	8	27	13	2.84
CC131906		0.27	0.003	<0.2	2.02	9	<10	210	<0.5	<2	0.39	<0.5	10	27	15	3.06
CC131907		0.31	0.003	<0.2	1.85	11	<10	180	<0.5	<2	0.31	<0.5	8	23	14	2.70
CC131908		0.24	0.002	<0.2	2.34	14	<10	130	0.5	<2	0.18	<0.5	9	30	19	3.17
CC131909		0.26	0.003	<0.2	2.51	15	<10	170	0.5	<2	0.25	<0.5	10	25	18	2.82
CC131910		0.23	0.002	<0.2	2.68	9	<10	220	<0.5	<2	0.26	<0.5	11	23	19	3.63
CC131911		0.32	0.003	<0.2	1.20	4	<10	160	<0.5	<2	0.30	<0.5	6	19	10	2.12
CC131912		0.22	0.003	0.4	1.82	5	<10	150	<0.5	<2	0.47	<0.5	6	25	17	2.45
CC131913		0.25	0.004	<0.2	1.56	10	<10	120	<0.5	<2	0.21	<0.5	7	19	13	3.09
CC131914		0.17	0.001	0.2	2.23	8	<10	360	0.6	<2	0.48	<0.5	11	12	20	2.45
CC131915		0.25	0.001	<0.2	0.61	2	<10	60	<0.5	<2	0.24	<0.5	3	4	13	0.94
CC131916		0.32	0.002	<0.2	2.10	7	<10	290	0.6	<2	0.50	<0.5	8	21	16	2.96
CC131917		0.28	0.001	<0.2	1.06	4	<10	170	<0.5	<2	0.55	<0.5	5	11	8	1.94
CC131918		0.40	0.002	<0.2	1.64	10	<10	170	<0.5	<2	0.44	<0.5	9	24	12	2.82
CC131919		0.35	0.006	<0.2	1.84	7	<10	180	<0.5	<2	0.59	<0.5	9	21	10	3.15
CC131920		0.31	0.012	<0.2	1.18	7	<10	130	<0.5	<2	0.32	<0.5	6	15	8	2.20
CC132011		0.13	0.002	0.2	1.51	5	<10	150	<0.5	<2	0.31	<0.5	5	15	18	1.66
CC132012		0.25	0.003	<0.2	1.36	6	<10	140	<0.5	<2	0.32	<0.5	5	20	17	1.99
CC132013		0.25	0.003	<0.2	1.78	9	<10	270	0.5	<2	0.47	<0.5	8	25	20	2.74
CC132014		0.23	0.002	<0.2	1.93	2	<10	210	<0.5	<2	0.33	<0.5	7	23	12	1.95
CC132015		0.24	0.002	<0.2	1.59	9	<10	230	<0.5	<2	0.42	<0.5	7	21	10	2.51
CC132016		0.25	<0.001	<0.2	2.00	5	<10	190	0.5	<2	0.45	<0.5	9	14	14	3.16
CC132017		0.28	0.005	<0.2	1.90	9	<10	180	<0.5	<2	0.16	<0.5	7	22	17	2.73
CC132018		0.22	0.005	<0.2	1.28	5	<10	100	<0.5	<2	0.26	<0.5	6	14	9	1.98
CC132019		Destroyed														
CC132022		0.27	0.029	<0.2	1.46	6	<10	140	0.5	<2	0.54	<0.5	7	13	6	2.57
CC132023		0.26	0.002	<0.2	1.41	8	<10	100	<0.5	<2	0.25	<0.5	6	19	9	2.59
CC132024		0.24	0.001	<0.2	0.96	8	<10	90	<0.5	<2	0.22	<0.5	4	15	9	1.94



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC131832		<10	<1	0.11	10	0.46	314	<1	0.02	9	590	6	<0.01	<2	3	19
CC131833		<10	<1	0.06	10	0.20	225	1	0.03	5	500	5	0.02	<2	1	20
CC131834		<10	<1	0.04	10	0.08	36	<1	0.04	2	430	3	0.03	<2	<1	16
CC131835		<10	<1	0.08	10	0.19	152	<1	0.04	5	440	3	0.02	<2	2	24
CC131836		10	<1	0.08	10	0.41	229	1	0.02	10	360	7	0.01	<2	3	19
CC131837		10	<1	0.08	10	0.49	335	<1	0.02	13	430	8	0.01	<2	3	24
CC131838		10	<1	0.07	10	0.44	212	1	0.02	10	450	9	0.02	<2	3	24
CC131839		10	<1	0.25	20	0.93	479	<1	0.02	12	510	11	<0.01	<2	6	44
CC131901		<10	<1	0.09	20	0.42	397	<1	0.03	5	790	5	0.04	<2	4	32
CC131902		10	<1	0.09	20	0.64	370	<1	0.02	6	840	6	0.04	<2	7	33
CC131903		<10	<1	0.08	10	0.39	329	<1	0.03	6	690	5	0.04	<2	3	30
CC131904		10	<1	0.12	30	0.56	340	<1	0.02	10	660	9	0.02	<2	6	34
CC131905		10	<1	0.08	10	0.65	378	<1	0.02	12	620	9	0.01	<2	5	31
CC131906		10	<1	0.09	10	0.66	428	<1	0.02	13	730	9	0.02	<2	4	27
CC131907		<10	<1	0.12	10	0.57	395	<1	0.02	13	590	6	<0.01	<2	4	21
CC131908		10	<1	0.09	10	0.52	266	1	0.02	17	470	9	0.01	<2	4	19
CC131909		10	<1	0.10	20	0.53	291	<1	0.02	17	510	8	0.01	<2	4	22
CC131910		10	<1	0.07	10	0.75	378	1	0.03	14	250	9	0.01	<2	3	29
CC131911		<10	<1	0.09	10	0.46	270	<1	0.02	10	300	6	0.01	<2	4	19
CC131912		10	<1	0.07	40	0.67	261	<1	0.02	9	1180	10	0.08	<2	6	34
CC131913		10	1	0.10	10	0.55	318	<1	0.02	11	340	7	0.02	<2	3	23
CC131914		10	<1	0.12	30	0.32	1225	<1	0.04	6	490	8	0.04	<2	5	34
CC131915		<10	<1	0.04	10	0.08	120	<1	0.04	2	500	<2	0.04	<2	2	20
CC131916		10	<1	0.22	30	0.73	295	<1	0.03	8	530	8	0.02	<2	9	36
CC131917		<10	<1	0.11	20	0.42	267	1	0.02	5	780	5	0.02	<2	4	33
CC131918		<10	<1	0.11	10	0.66	277	<1	0.02	11	730	8	0.01	<2	4	25
CC131919		10	<1	0.17	20	0.80	340	<1	0.02	11	1000	9	0.01	<2	5	28
CC131920		<10	<1	0.08	10	0.43	293	1	0.02	7	450	6	0.01	<2	3	21
CC132011		<10	<1	0.05	10	0.26	205	<1	0.04	7	460	7	0.02	<2	2	27
CC132012		<10	<1	0.07	10	0.44	239	1	0.02	13	600	8	0.02	2	2	23
CC132013		10	<1	0.07	10	0.62	495	1	0.02	11	1010	11	0.04	<2	4	39
CC132014		10	<1	0.06	10	0.59	221	<1	0.02	11	520	11	0.01	<2	4	28
CC132015		<10	<1	0.08	10	0.59	291	<1	0.02	9	660	10	0.02	<2	3	30
CC132016		10	<1	0.22	10	0.75	570	1	0.01	8	590	9	0.01	<2	5	20
CC132017		10	<1	0.06	10	0.51	262	1	0.01	18	260	8	<0.01	<2	3	16
CC132018		<10	<1	0.06	10	0.35	205	1	0.02	7	470	5	<0.01	<2	3	18
CC132019																
CC132022		<10	<1	0.09	20	0.50	469	<1	0.01	5	750	9	<0.01	<2	4	30
CC132023		<10	<1	0.10	10	0.43	264	<1	0.01	9	580	4	0.01	2	3	17
CC132024		<10	<1	0.06	10	0.28	159	<1	0.02	6	440	7	0.01	<2	2	19



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**CERTIFICATE OF ANALYSIS WH11119995**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC131832		<20	0.12	<10	<10	60	<10	42
CC131833		<20	0.06	<10	<10	46	<10	30
CC131834		<20	0.03	<10	<10	14	<10	13
CC131835		<20	0.05	<10	<10	29	<10	25
CC131836		<20	0.09	<10	<10	68	<10	45
CC131837		<20	0.09	<10	<10	68	<10	47
CC131838		<20	0.11	<10	<10	74	<10	39
CC131839		<20	0.19	<10	<10	89	<10	61
CC131901		<20	0.07	<10	<10	44	<10	62
CC131902		<20	0.07	<10	10	65	<10	58
CC131903		<20	0.05	<10	<10	43	<10	43
CC131904		<20	0.07	<10	<10	61	<10	51
CC131905		<20	0.09	<10	<10	67	<10	53
CC131906		<20	0.08	<10	<10	72	<10	56
CC131907		<20	0.11	<10	<10	62	<10	49
CC131908		<20	0.12	<10	<10	71	<10	51
CC131909		<20	0.10	<10	<10	61	<10	44
CC131910		<20	0.23	<10	<10	90	<10	70
CC131911		<20	0.08	<10	<10	49	<10	39
CC131912		<20	0.08	<10	<10	60	<10	69
CC131913		<20	0.13	<10	<10	66	<10	44
CC131914		<20	0.06	<10	<10	66	<10	32
CC131915		<20	0.04	<10	<10	30	<10	16
CC131916		<20	0.14	<10	<10	75	<10	51
CC131917		<20	0.08	<10	10	46	<10	42
CC131918		<20	0.13	<10	<10	66	<10	55
CC131919		<20	0.18	<10	<10	81	<10	64
CC131920		<20	0.10	<10	<10	56	<10	42
CC132011		<20	0.06	<10	<10	40	<10	29
CC132012		<20	0.08	<10	<10	50	<10	49
CC132013		<20	0.09	<10	<10	72	<10	60
CC132014		<20	0.11	<10	<10	45	<10	49
CC132015		<20	0.13	<10	<10	72	<10	57
CC132016		<20	0.10	<10	<10	71	<10	58
CC132017		<20	0.11	<10	<10	66	<10	47
CC132018		<20	0.08	<10	<10	50	<10	35
CC132019								
CC132022		<20	0.01	<10	<10	50	<10	43
CC132023		<20	0.10	<10	<10	63	<10	45
CC132024		<20	0.07	<10	<10	54	<10	34





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To: ARCHER, CATHRO AND ASSOCIATES (1981)  
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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC132025		0.22	0.004	<0.2	3.00	8	<10	440	0.5	<2	0.70	<0.5	13	26	19	4.59
CC132026		0.19	0.004	<0.2	3.03	4	<10	420	0.6	<2	0.93	<0.5	12	22	27	3.78
CC132027		0.11	0.001	<0.2	1.32	7	<10	160	<0.5	<2	0.38	<0.5	5	13	21	1.92
CC132028		0.33	0.003	<0.2	2.02	8	<10	250	0.5	<2	0.61	<0.5	9	23	16	3.27
CC132029		0.27	0.002	<0.2	2.07	9	<10	180	0.5	<2	0.29	<0.5	7	24	13	2.97
CC132030		0.32	0.001	<0.2	0.68	3	<10	100	<0.5	<2	0.35	<0.5	4	8	4	1.38
CC132121		0.28	0.009	<0.2	1.62	9	<10	90	<0.5	<2	0.41	<0.5	8	43	22	2.69
CC132122		0.16	0.001	<0.2	0.37	3	<10	100	<0.5	<2	0.31	<0.5	1	4	12	0.69
CC132123		0.25	0.002	0.2	1.06	7	<10	220	<0.5	<2	0.31	<0.5	6	16	18	2.06
CC132124		0.34	0.003	0.3	1.96	13	<10	120	<0.5	<2	0.19	<0.5	7	27	16	3.06
CC132125		0.40	0.003	<0.2	2.02	7	<10	310	<0.5	<2	0.55	<0.5	7	23	12	3.14
CC132126		0.41	0.007	0.2	1.67	5	<10	310	<0.5	<2	0.52	<0.5	6	21	12	2.17
CC132127		0.14	0.001	0.3	0.89	2	<10	190	<0.5	<2	0.30	<0.5	4	10	12	1.21
CC132128		0.25	0.002	0.2	0.80	5	<10	150	<0.5	<2	0.43	<0.5	4	13	13	1.72
CC132129		0.39	0.002	0.2	1.08	11	<10	190	<0.5	<2	0.38	<0.5	6	18	16	2.11
CC132131		0.32	0.003	0.4	2.12	11	<10	110	<0.5	<2	0.23	<0.5	7	29	16	3.05
CC132132		0.31	0.010	0.2	1.85	10	<10	110	<0.5	<2	0.20	<0.5	8	23	16	2.56
CC132133		0.42	0.006	<0.2	1.36	5	<10	290	0.5	3	0.40	<0.5	9	15	25	2.97
CC132134		0.36	0.002	0.4	1.96	11	<10	260	0.5	3	0.27	<0.5	7	23	42	2.93
CC132135		0.24	0.004	0.5	1.72	10	<10	170	<0.5	3	0.18	<0.5	5	19	31	2.63
CC132136		0.35	0.009	0.2	1.69	10	<10	100	<0.5	<2	0.22	<0.5	7	22	17	2.64
CC132137		0.26	0.002	<0.2	2.05	18	<10	120	0.6	<2	0.35	<0.5	9	42	20	3.34
CC132138		0.22	0.002	<0.2	1.93	13	<10	110	0.5	<2	0.31	<0.5	6	39	14	2.65
CC132139		0.31	0.009	<0.2	1.77	47	<10	80	0.7	<2	0.57	<0.5	10	33	22	4.45
CC132140		0.30	0.002	<0.2	1.90	12	<10	100	0.6	<2	0.58	<0.5	8	40	18	2.74
CC132218		0.13	0.003	<0.2	0.92	9	<10	70	<0.5	<2	0.38	<0.5	6	15	14	1.36
CC132219		0.28	0.003	<0.2	1.83	20	<10	120	0.5	<2	0.50	<0.5	9	34	28	2.71
CC132220		0.30	0.003	<0.2	1.87	13	<10	120	0.5	<2	0.48	<0.5	10	31	21	2.85
CC136021		0.29	0.002	0.4	1.72	15	<10	260	<0.5	<2	0.14	<0.5	8	20	54	2.86
CC136022		0.30	0.001	<0.2	1.80	8	<10	210	<0.5	<2	0.25	<0.5	7	23	17	3.03
CC136023		0.25	<0.001	0.2	1.51	7	<10	160	<0.5	<2	0.23	<0.5	6	17	19	2.22
CC136024		0.29	0.002	<0.2	1.21	8	<10	230	<0.5	<2	0.43	<0.5	7	19	20	2.16
CC136025		0.30	0.002	<0.2	1.00	4	<10	340	<0.5	<2	0.87	<0.5	5	10	23	1.85
CC136026		0.37	0.002	0.3	1.51	9	<10	260	0.5	<2	0.70	<0.5	6	17	36	2.43
CC136027		0.30	0.002	<0.2	1.28	9	<10	140	<0.5	<2	0.41	<0.5	7	20	18	2.25
CC136028		0.32	0.004	0.2	1.54	8	<10	210	<0.5	<2	0.24	<0.5	8	21	19	2.23
CC136029		0.37	0.002	<0.2	1.98	10	<10	200	<0.5	<2	0.17	<0.5	10	19	24	2.96
CC136030		0.35	0.002	0.2	1.44	8	<10	220	<0.5	<2	0.25	<0.5	7	21	16	2.59
CC136031		0.34	0.002	0.2	1.63	10	<10	260	<0.5	<2	0.25	<0.5	7	25	20	2.53
CC136032		0.25	0.001	<0.2	1.73	9	<10	190	<0.5	<2	0.16	<0.5	6	21	16	2.47



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC132025		10	<1	0.17	20	0.93	657	1	0.02	10	850	9	0.04	<2	8	42
CC132026		10	<1	0.29	50	1.20	528	<1	0.02	10	1030	9	0.07	<2	13	46
CC132027		<10	<1	0.08	10	0.35	306	<1	0.03	6	300	4	0.01	<2	2	31
CC132028		10	<1	0.24	40	0.87	427	<1	0.02	10	740	6	0.01	<2	8	38
CC132029		10	<1	0.14	10	0.58	291	1	0.02	12	370	8	0.01	<2	4	22
CC132030		<10	<1	0.06	10	0.28	216	<1	0.02	3	690	5	<0.01	<2	2	20
CC132121		10	<1	0.12	10	0.72	311	<1	0.02	27	670	7	0.03	<2	3	26
CC132122		<10	<1	0.03	10	0.05	60	<1	0.04	3	540	2	0.04	<2	1	25
CC132123		<10	<1	0.10	10	0.34	302	<1	0.02	8	310	7	0.02	<2	3	25
CC132124		10	<1	0.08	10	0.49	256	1	0.01	13	330	12	0.01	<2	4	17
CC132125		10	<1	0.21	20	0.63	303	<1	0.02	9	700	7	0.02	<2	5	31
CC132126		10	<1	0.20	20	0.61	252	<1	0.02	8	690	6	0.01	<2	4	29
CC132127		<10	<1	0.06	30	0.20	253	<1	0.03	5	650	4	0.04	<2	3	24
CC132128		<10	<1	0.05	20	0.25	207	<1	0.03	6	650	5	0.04	<2	2	28
CC132129		<10	<1	0.06	30	0.36	311	<1	0.02	9	610	7	0.02	<2	3	23
CC132131		10	<1	0.08	10	0.54	255	1	0.01	15	320	10	0.01	<2	4	18
CC132132		<10	<1	0.09	10	0.44	284	<1	0.02	14	430	13	0.01	<2	4	15
CC132133		<10	<1	0.13	20	0.61	567	<1	0.02	8	700	12	0.01	<2	5	22
CC132134		10	<1	0.11	20	0.45	288	1	0.02	12	340	20	0.01	<2	6	23
CC132135		10	<1	0.08	20	0.33	195	1	0.02	9	360	28	0.02	<2	4	18
CC132136		<10	<1	0.08	10	0.44	294	<1	0.02	14	420	10	0.01	<2	4	17
CC132137		10	<1	0.15	10	0.64	405	1	0.02	23	770	13	0.04	<2	3	33
CC132138		10	<1	0.21	20	0.72	238	<1	0.01	19	470	11	0.02	<2	4	28
CC132139		10	<1	0.11	20	0.57	278	1	0.02	22	770	12	0.03	3	4	44
CC132140		10	<1	0.14	20	0.64	222	<1	0.02	22	580	11	0.03	2	4	36
CC132218		<10	<1	0.05	10	0.23	264	<1	0.04	9	720	4	0.06	<2	1	31
CC132219		10	<1	0.12	10	0.60	339	1	0.02	31	410	6	0.03	<2	4	37
CC132220		10	<1	0.12	20	0.54	437	1	0.02	22	560	6	0.03	<2	4	37
CC136021		10	<1	0.14	10	0.50	324	4	0.01	11	210	7	0.01	<2	4	16
CC136022		10	<1	0.17	10	0.60	304	2	0.02	13	240	8	0.01	<2	4	23
CC136023		10	<1	0.10	10	0.40	246	2	0.02	10	210	7	0.01	2	3	20
CC136024		<10	<1	0.13	20	0.44	308	2	0.01	10	270	6	0.01	<2	4	25
CC136025		<10	<1	0.14	20	0.34	361	2	0.02	7	630	5	0.04	<2	5	47
CC136026		10	<1	0.16	20	0.43	376	3	0.01	10	490	7	0.03	<2	7	41
CC136027		10	<1	0.13	10	0.44	390	2	0.02	11	310	6	0.01	<2	3	24
CC136028		<10	<1	0.07	10	0.35	481	2	0.01	14	360	6	0.01	<2	3	19
CC136029		10	<1	0.11	10	0.52	559	3	0.01	11	350	7	0.01	<2	4	18
CC136030		10	<1	0.10	10	0.42	319	3	0.01	12	200	9	<0.01	<2	3	22
CC136031		10	<1	0.10	10	0.43	440	2	0.01	14	220	8	<0.01	<2	3	22
CC136032		10	<1	0.06	10	0.40	200	2	0.01	13	160	10	<0.01	<2	2	18



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**CERTIFICATE OF ANALYSIS WH11119995**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm
		20	0.01	10	10	1	10	2
CC132025		<20	0.20	<10	<10	132	<10	83
CC132026		20	0.31	<10	10	118	<10	90
CC132027		<20	0.10	<10	<10	51	<10	39
CC132028		<20	0.18	<10	<10	82	<10	64
CC132029		<20	0.15	<10	<10	75	<10	52
CC132030		<20	0.05	<10	<10	33	<10	28
CC132121		<20	0.10	<10	<10	54	<10	55
CC132122		<20	0.03	<10	<10	18	<10	12
CC132123		<20	0.06	<10	<10	46	<10	36
CC132124		<20	0.10	<10	<10	73	<10	46
CC132125		<20	0.18	<10	<10	82	<10	59
CC132126		<20	0.17	<10	<10	58	<10	53
CC132127		<20	0.04	<10	<10	27	<10	29
CC132128		<20	0.05	<10	<10	44	<10	36
CC132129		<20	0.06	<10	<10	51	<10	37
CC132131		<20	0.10	<10	<10	73	<10	50
CC132132		<20	0.08	<10	<10	53	<10	41
CC132133		<20	0.11	<10	<10	62	<10	50
CC132134		<20	0.07	<10	<10	65	<10	44
CC132135		<20	0.07	<10	<10	64	<10	34
CC132136		<20	0.08	<10	<10	56	<10	41
CC132137		<20	0.08	<10	<10	55	<10	69
CC132138		<20	0.12	<10	<10	41	<10	69
CC132139		<20	0.05	<10	<10	49	<10	85
CC132140		<20	0.08	<10	<10	46	<10	69
CC132218		<20	0.05	<10	<10	29	<10	29
CC132219		<20	0.11	<10	<10	49	<10	65
CC132220		<20	0.10	<10	<10	54	<10	54
CC136021		<20	0.10	<10	<10	62	10	49
CC136022		<20	0.12	<10	<10	71	<10	58
CC136023		<20	0.08	<10	<10	51	<10	37
CC136024		<20	0.07	<10	<10	43	<10	39
CC136025		<20	0.04	<10	<10	35	<10	41
CC136026		<20	0.06	<10	<10	49	<10	42
CC136027		<20	0.09	<10	<10	51	<10	43
CC136028		<20	0.06	<10	<10	48	<10	40
CC136029		<20	0.07	<10	<10	65	<10	57
CC136030		<20	0.09	<10	<10	62	<10	52
CC136031		<20	0.09	<10	<10	58	<10	50
CC136032		<20	0.09	<10	<10	56	<10	45



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC136033		0.25	0.002	<0.2	1.56	6	<10	510	0.5	<2	0.70	<0.5	8	17	21	2.39
CC136034	Destroyed															
CC136035		0.31	0.017	<0.2	1.84	10	<10	180	<0.5	<2	0.19	<0.5	7	21	14	3.09
CC136036		0.31	0.001	<0.2	0.72	3	<10	140	<0.5	<2	0.27	<0.5	4	8	9	1.56
CC136037	Destroyed															
CC136038		0.15	0.002	<0.2	0.72	2	<10	210	<0.5	<2	0.26	<0.5	3	7	19	1.11
CC136039	Destroyed															
CC136040		0.30	0.001	<0.2	1.27	7	<10	420	<0.5	<2	0.65	<0.5	11	14	19	2.41
CC136141		0.09	0.005	<0.2	1.29	7	<10	170	<0.5	<2	0.27	<0.5	6	17	19	2.29
CC136142		0.11	0.025	0.4	0.88	5	<10	160	<0.5	<2	0.32	<0.5	5	16	11	1.73
CC136143		0.42	0.001	<0.2	0.89	4	<10	200	<0.5	<2	0.44	<0.5	4	12	9	1.30
CC136144		0.43	0.003	0.2	1.44	8	<10	270	0.5	<2	0.51	<0.5	6	18	20	2.34
CC136145	Destroyed															
CC136146		0.45	0.003	0.5	1.32	4	<10	290	<0.5	2	0.43	<0.5	6	15	31	2.41
CC136147		0.37	0.001	0.4	1.58	8	<10	280	0.6	<2	0.45	<0.5	11	16	61	4.16
CC136148		0.48	0.001	0.3	1.12	4	<10	400	0.6	<2	0.70	<0.5	7	13	47	2.71
CC136149		0.46	0.002	0.3	1.00	5	<10	330	0.6	<2	0.49	<0.5	7	12	30	3.09
CC136150		0.46	0.001	<0.2	0.88	4	<10	220	<0.5	<2	0.25	<0.5	9	11	27	1.92
CC136001		0.35	0.001	<0.2	1.42	7	<10	120	<0.5	<2	0.21	<0.5	6	23	13	2.79
CC136002		0.15	0.002	0.8	1.42	4	<10	280	<0.5	<2	0.48	<0.5	4	12	66	1.57
CC136003		0.45	<0.001	0.2	2.64	10	<10	210	0.5	<2	0.21	<0.5	12	23	58	3.39
CC136004		0.42	0.001	0.6	1.63	9	<10	160	<0.5	<2	0.23	<0.5	6	21	62	2.47
CC136005		0.38	0.002	0.3	1.50	6	<10	110	<0.5	<2	0.16	<0.5	9	18	39	2.90
CC136006		0.42	0.002	0.2	1.01	3	<10	140	<0.5	<2	0.21	<0.5	5	12	27	1.94
CC136007		0.33	<0.001	0.3	0.96	3	<10	120	<0.5	<2	0.27	<0.5	5	12	32	1.85
CC136008		0.31	0.001	0.2	1.59	3	<10	300	<0.5	<2	0.46	<0.5	8	16	20	2.24
CC136009		0.28	0.001	0.3	0.50	4	<10	220	<0.5	<2	0.48	<0.5	9	8	23	2.98
CC136010		0.21	0.002	<0.2	1.95	3	<10	480	<0.5	<2	0.63	<0.5	10	20	18	2.81
CC136011		0.54	0.003	<0.2	1.93	9	<10	340	0.5	<2	0.52	<0.5	10	20	18	3.75
CC136012		0.40	0.001	<0.2	1.66	15	<10	290	<0.5	<2	0.45	<0.5	10	18	12	3.65
CC136013		0.35	0.006	0.7	1.88	11	<10	790	0.7	2	0.77	<0.5	7	20	47	3.05
CC136014		0.28	0.002	0.9	1.67	8	<10	590	0.5	<2	0.42	<0.5	5	11	34	2.15
CC136015		0.32	0.001	0.2	1.47	7	<10	130	<0.5	<2	0.13	<0.5	6	17	15	2.53
CC136016		0.34	0.002	<0.2	1.83	7	<10	230	<0.5	2	0.26	<0.5	10	16	23	3.32
CC136017		0.35	0.013	0.3	1.00	6	<10	290	<0.5	<2	0.41	<0.5	6	11	40	2.09
CC136018		0.23	0.001	0.2	1.47	3	<10	380	0.5	2	0.35	<0.5	8	11	46	2.60
CC136019		0.47	0.001	<0.2	1.97	9	<10	290	0.5	2	0.26	<0.5	10	20	33	2.96
CC136020		0.59	0.004	0.2	1.64	11	<10	210	<0.5	2	0.19	<0.5	7	16	24	2.63
CC132130		0.26	0.002	<0.2	1.48	10	<10	100	<0.5	<2	0.16	<0.5	5	24	13	2.70



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Project: Wolverine- BBB

**CERTIFICATE OF ANALYSIS WH11119995**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC136033		<10	<1	0.17	30	0.44	626	2	0.02	10	650	7	0.03	<2	6	48
CC136034																
CC136035		10	<1	0.12	10	0.49	260	2	0.01	11	230	8	0.01	<2	4	15
CC136036		<10	<1	0.13	10	0.23	217	1	0.02	4	490	4	0.01	<2	3	19
CC136037																
CC136038		<10	<1	0.06	30	0.14	162	1	0.03	4	380	2	0.02	<2	2	24
CC136039																
CC136040		<10	<1	0.16	40	0.37	821	2	0.02	8	530	5	0.04	<2	6	46
CC136141		<10	<1	0.11	20	0.43	323	1	0.01	9	520	6	<0.01	<2	3	16
CC136142		<10	<1	0.09	10	0.29	365	1	0.02	7	640	5	0.02	<2	2	21
CC136143		<10	<1	0.07	10	0.28	472	1	0.02	6	580	6	0.03	<2	3	31
CC136144		10	<1	0.13	30	0.45	270	3	0.01	8	470	9	0.03	<2	6	28
CC136145																
CC136146		10	<1	0.13	20	0.46	396	4	0.01	7	510	15	0.02	<2	4	26
CC136147		10	<1	0.21	30	0.73	737	3	0.02	7	420	16	0.02	3	8	22
CC136148		<10	<1	0.13	30	0.30	411	2	0.01	7	530	11	0.04	4	8	36
CC136149		<10	1	0.13	20	0.27	491	1	0.01	7	390	16	0.02	5	8	29
CC136150		<10	<1	0.11	20	0.19	848	2	0.02	6	310	10	0.01	<2	3	20
CC136001		10	<1	0.18	10	0.59	297	2	0.01	10	140	7	0.01	<2	3	16
CC136002		<10	<1	0.11	80	0.20	300	2	0.03	6	580	4	0.05	<2	7	34
CC136003		10	<1	0.29	10	0.78	410	2	0.01	16	360	10	0.01	<2	6	18
CC136004		10	<1	0.10	10	0.37	202	2	0.02	12	290	10	0.01	<2	3	17
CC136005		10	<1	0.11	10	0.39	629	2	0.02	8	340	7	0.01	<2	3	11
CC136006		10	<1	0.10	20	0.35	212	2	0.02	6	320	6	0.01	<2	2	14
CC136007		<10	<1	0.09	10	0.30	211	2	0.02	7	430	4	0.01	<2	3	15
CC136008		10	<1	0.22	10	0.61	501	1	0.02	7	690	6	0.03	<2	4	23
CC136009		<10	<1	0.02	20	0.08	1135	1	0.03	7	1070	4	0.07	<2	2	31
CC136010		10	<1	0.36	20	0.74	698	<1	0.02	9	840	11	0.04	2	6	34
CC136011		10	<1	0.39	20	0.85	397	<1	0.02	7	900	11	0.02	<2	6	24
CC136012		10	1	0.31	20	0.78	427	1	0.02	6	930	12	0.01	<2	5	20
CC136013		10	<1	0.19	60	0.40	535	1	0.02	10	1040	8	0.12	<2	11	54
CC136014		<10	<1	0.17	40	0.26	642	<1	0.03	8	570	5	0.06	<2	8	38
CC136015		10	<1	0.10	10	0.41	265	1	0.01	9	300	11	0.02	2	3	10
CC136016		10	1	0.26	10	0.64	487	1	0.02	8	610	10	0.01	3	4	16
CC136017		<10	<1	0.10	10	0.38	220	<1	0.02	6	550	9	0.03	<2	3	24
CC136018		10	1	0.14	20	0.39	541	<1	0.02	5	480	9	0.02	<2	5	25
CC136019		10	<1	0.17	10	0.58	606	<1	0.01	12	360	9	0.01	<2	5	18
CC136020		10	<1	0.15	10	0.44	489	1	0.01	7	280	11	0.01	<2	3	21
CC132130		10	1	0.06	10	0.34	205	1	0.01	10	290	9	0.02	<2	3	15



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Project: Wolverine- BBB

**CERTIFICATE OF ANALYSIS WH11119995**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
		20	0.01	10	10	1	10	2
CC136033		<20	0.06	<10	<10	48	<10	42
CC136034								
CC136035		<20	0.08	<10	<10	61	<10	41
CC136036		<20	0.07	<10	<10	38	<10	28
CC136037								
CC136038		<20	0.05	<10	<10	28	<10	22
CC136039								
CC136040		<20	0.06	<10	<10	49	<10	39
CC136141		<20	0.08	<10	<10	51	<10	43
CC136142		<20	0.06	<10	<10	42	<10	35
CC136143		<20	0.06	<10	<10	30	<10	46
CC136144		<20	0.07	<10	<10	49	<10	50
CC136145								
CC136146		<20	0.06	<10	<10	56	10	51
CC136147		20	0.10	<10	<10	79	10	77
CC136148		<20	0.05	<10	<10	54	<10	50
CC136149		<20	0.04	<10	<10	51	<10	62
CC136150		<20	0.07	<10	<10	50	<10	36
CC136001		<20	0.16	<10	<10	77	<10	47
CC136002		<20	0.04	<10	<10	36	<10	21
CC136003		<20	0.17	<10	<10	77	10	57
CC136004		<20	0.10	<10	<10	60	<10	38
CC136005		<20	0.13	<10	<10	79	<10	50
CC136006		<20	0.11	<10	<10	55	<10	34
CC136007		<20	0.07	<10	<10	47	<10	32
CC136008		<20	0.14	<10	<10	54	<10	58
CC136009		<20	0.08	<10	<10	78	<10	34
CC136010		<20	0.18	<10	<10	66	<10	80
CC136011		20	0.23	<10	<10	87	<10	77
CC136012		20	0.19	<10	<10	82	<10	68
CC136013		<20	0.06	<10	<10	64	<10	55
CC136014		<20	0.04	<10	<10	43	<10	54
CC136015		<20	0.09	<10	<10	58	<10	41
CC136016		<20	0.16	<10	<10	78	<10	58
CC136017		<20	0.05	<10	<10	46	<10	48
CC136018		<20	0.05	<10	<10	49	<10	51
CC136019		<20	0.11	<10	<10	64	<10	53
CC136020		<20	0.12	<10	<10	71	<10	48
CC132130		<20	0.09	<10	<10	64	<10	39



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To: **ARCHER, CATHRO AND ASSOCIATES (1981)  
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**CERTIFICATE WH11120314**

Project: Wolverine- BBB  
 P.O. No.:  
 This report is for 186 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28-JUN- 2011.  
 The following have access to data associated with this certificate:  
 JOAN MARIACHER                      HEATHER SMITH

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED  
 ATTN: JOAN MARIACHER  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH11120314**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC131731		0.25	0.001	<0.2	1.81	7	<10	170	<0.5	<2	0.29	<0.5	7	21	14	2.51
CC131732		0.26	0.004	<0.2	1.73	5	<10	180	<0.5	<2	0.60	<0.5	9	24	16	2.55
CC131733		0.12	<0.001	<0.2	0.78	<2	<10	90	<0.5	<2	0.38	<0.5	4	9	17	1.29
CC131734		0.15	0.006	<0.2	2.28	6	<10	260	0.7	<2	0.61	<0.5	11	11	13	3.44
CC131735		0.22	0.001	<0.2	1.19	3	<10	180	<0.5	<2	0.26	<0.5	6	16	10	2.28
CC131736		0.19	0.001	<0.2	1.58	2	<10	200	<0.5	<2	0.27	<0.5	5	16	14	2.09
CC131737		0.13	0.004	<0.2	1.38	8	<10	150	<0.5	<2	0.35	<0.5	6	20	12	2.35
CC131738		0.26	<0.001	<0.2	0.63	<2	<10	90	<0.5	<2	0.18	<0.5	10	6	17	1.10
CC131739		0.32	0.002	<0.2	1.42	6	<10	190	<0.5	<2	0.32	<0.5	8	19	12	2.66
CC131740		0.14	<0.001	<0.2	1.14	3	<10	180	<0.5	<2	0.40	<0.5	9	13	13	1.81
CC131751		0.19	<0.001	<0.2	1.56	4	<10	100	<0.5	<2	0.31	<0.5	6	15	11	2.45
CC131752		0.23	<0.001	<0.2	3.17	5	<10	280	1.1	<2	0.71	<0.5	12	22	28	3.42
CC131753		0.19	0.003	<0.2	1.72	8	<10	140	<0.5	<2	0.27	<0.5	6	22	14	2.90
CC131754		0.18	0.002	<0.2	2.07	8	<10	170	<0.5	<2	0.17	<0.5	4	24	16	2.49
CC131755		0.24	0.005	<0.2	2.36	10	<10	160	<0.5	<2	0.22	<0.5	8	30	14	3.03
CC131756		0.27	0.003	<0.2	3.31	11	<10	180	0.7	<2	0.26	<0.5	12	38	18	3.97
CC131757		0.23	0.003	<0.2	2.44	11	<10	200	0.5	<2	0.27	<0.5	11	30	16	3.05
CC131758		0.25	<0.001	<0.2	2.87	9	<10	200	0.7	<2	0.33	<0.5	10	20	14	3.22
CC131759		0.24	<0.001	<0.2	2.32	6	<10	190	0.8	<2	0.19	<0.5	10	10	7	3.69
CC131760		0.26	0.001	<0.2	1.72	4	<10	160	<0.5	<2	0.35	<0.5	8	15	9	2.65
CC131771		0.28	0.001	0.2	2.16	9	<10	290	0.5	<2	0.24	<0.5	7	24	12	3.16
CC131772		0.28	0.002	<0.2	2.22	8	<10	790	0.6	<2	0.27	<0.5	6	28	18	3.17
CC131773		0.24	0.002	<0.2	2.04	8	<10	440	0.7	<2	0.41	<0.5	9	31	18	2.96
CC131774		0.32	0.001	<0.2	2.23	6	<10	190	0.5	<2	0.14	<0.5	8	18	14	3.11
CC131775		0.30	<0.001	<0.2	2.52	10	<10	280	0.6	<2	0.28	<0.5	11	29	24	3.38
CC131776		0.34	0.003	<0.2	2.41	10	<10	220	0.5	<2	0.31	<0.5	11	32	26	3.58
CC131777		0.32	0.010	<0.2	2.20	9	<10	170	0.6	<2	0.24	<0.5	8	24	17	2.73
CC131778		0.35	0.001	<0.2	2.21	9	<10	170	0.5	<2	0.22	<0.5	11	27	17	3.27
CC131779		0.28	0.001	<0.2	1.51	7	<10	170	<0.5	<2	0.21	<0.5	5	18	16	2.51
CC131780		0.26	0.001	<0.2	2.56	8	<10	210	<0.5	<2	0.30	<0.5	11	30	21	3.18
CC131781		0.23	0.001	<0.2	1.90	13	<10	120	<0.5	<2	0.21	<0.5	7	30	16	3.41
CC131782		0.21	0.002	<0.2	2.45	10	<10	410	0.7	<2	0.63	<0.5	10	33	25	3.37
CC131783		0.21	0.003	<0.2	2.64	9	<10	390	0.9	<2	0.57	<0.5	10	30	30	3.45
CC131784		0.23	0.006	<0.2	2.04	5	<10	210	0.5	<2	0.40	<0.5	8	25	19	2.81
CC131785		0.28	0.001	<0.2	1.46	5	<10	140	<0.5	<2	0.30	<0.5	6	19	25	2.54
CC131786		0.23	0.001	<0.2	1.68	7	<10	170	0.5	<2	0.45	<0.5	8	22	17	2.47
CC131787		0.14	0.010	<0.2	1.51	7	<10	170	<0.5	<2	0.44	<0.5	7	20	15	2.43
CC131788		0.22	0.001	<0.2	1.33	5	<10	140	<0.5	<2	0.31	<0.5	7	20	13	2.35
CC131789		0.28	0.001	<0.2	1.35	4	<10	170	<0.5	<2	0.26	<0.5	5	13	17	1.41
CC131790		0.28	0.003	<0.2	1.70	5	<10	200	<0.5	<2	0.36	<0.5	8	22	15	2.58





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Project: Wolverine- BBB

**CERTIFICATE OF ANALYSIS WH11120314**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC131731		10	<1	0.08	10	0.52	287	<1	0.02	14	360	6	0.02	<2	4	22
CC131732		<10	<1	0.07	10	0.59	468	<1	0.02	15	450	6	0.03	<2	4	33
CC131733		<10	<1	0.03	10	0.17	215	<1	0.03	5	650	3	0.04	<2	1	25
CC131734		10	1	0.13	20	0.92	907	<1	0.02	7	910	13	0.02	<2	9	32
CC131735		10	<1	0.11	10	0.44	292	<1	0.02	8	200	5	0.02	<2	3	26
CC131736		10	1	0.09	10	0.40	328	<1	0.03	7	500	5	0.03	<2	3	26
CC131737		<10	<1	0.09	10	0.45	280	<1	0.02	11	450	6	0.02	<2	3	28
CC131738		<10	<1	0.03	10	0.11	1160	<1	0.03	3	470	3	0.03	<2	1	19
CC131739		10	<1	0.08	10	0.47	444	<1	0.02	10	600	6	0.03	<2	3	25
CC131740		<10	<1	0.04	10	0.22	952	1	0.03	6	960	6	0.07	<2	1	36
CC131751		10	<1	0.08	10	0.52	352	1	0.02	10	270	12	0.02	<2	3	31
CC131752		10	<1	0.11	40	0.71	1280	1	0.02	12	580	11	0.03	<2	6	65
CC131753		10	1	0.07	10	0.41	286	1	0.02	10	470	10	0.02	<2	3	26
CC131754		10	<1	0.04	10	0.23	104	1	0.02	10	560	9	0.02	<2	3	20
CC131755		10	1	0.08	10	0.57	279	1	0.02	17	330	9	0.02	<2	4	20
CC131756		10	1	0.11	10	0.80	501	1	0.02	23	440	11	0.03	<2	6	23
CC131757		10	1	0.12	20	0.65	403	<1	0.02	21	500	9	0.02	<2	5	20
CC131758		10	1	0.13	20	0.83	540	<1	0.02	13	560	12	0.04	<2	4	21
CC131759		10	1	0.10	20	0.67	703	<1	0.02	6	410	14	0.02	<2	6	16
CC131760		10	<1	0.08	10	0.56	549	<1	0.02	8	360	10	0.02	<2	4	28
CC131771		10	<1	0.09	20	0.46	328	1	0.02	11	380	11	0.02	<2	5	21
CC131772		10	<1	0.11	20	0.47	286	1	0.02	13	290	47	0.02	<2	5	24
CC131773		<10	<1	0.09	30	0.60	433	<1	0.02	18	470	8	0.02	<2	9	31
CC131774		10	1	0.09	10	0.49	399	2	0.02	10	310	11	0.02	<2	5	17
CC131775		10	1	0.10	10	0.80	597	<1	0.02	18	420	9	0.02	2	8	25
CC131776		10	<1	0.11	10	0.70	480	1	0.02	17	360	10	0.02	<2	5	29
CC131777		10	<1	0.08	20	0.47	295	<1	0.02	16	400	8	0.02	<2	5	18
CC131778		10	<1	0.08	20	0.48	799	1	0.02	13	500	9	0.03	<2	4	21
CC131779		10	<1	0.07	10	0.32	181	1	0.02	8	350	8	0.02	<2	2	27
CC131780		10	<1	0.09	10	0.72	512	<1	0.02	19	370	8	0.02	<2	5	22
CC131781		10	<1	0.08	10	0.56	308	1	0.02	16	390	8	0.02	<2	4	18
CC131782		10	1	0.09	20	0.69	570	1	0.03	20	840	9	0.05	<2	6	36
CC131783		10	<1	0.09	30	0.67	552	1	0.02	18	750	9	0.04	<2	7	37
CC131784		10	<1	0.07	20	0.62	320	1	0.02	15	640	8	0.01	<2	5	27
CC131785		10	1	0.05	10	0.42	240	1	0.02	11	420	9	0.02	<2	3	28
CC131786		10	1	0.06	20	0.55	452	<1	0.02	14	560	6	0.02	<2	4	30
CC131787		<10	<1	0.10	10	0.55	336	<1	0.02	12	580	5	0.02	<2	3	29
CC131788		10	1	0.09	10	0.48	303	<1	0.02	11	440	6	0.01	<2	3	23
CC131789		<10	<1	0.07	10	0.24	219	<1	0.03	8	490	5	0.03	<2	2	25
CC131790		10	<1	0.09	10	0.57	380	<1	0.02	12	600	7	0.01	<2	4	25



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**CERTIFICATE OF ANALYSIS WH11120314**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC131731		<20	0.08	<10	<10	56	<10	48
CC131732		<20	0.07	<10	<10	55	<10	56
CC131733		<20	0.04	<10	<10	33	<10	29
CC131734		<20	0.04	<10	<10	72	<10	69
CC131735		<20	0.11	<10	<10	62	<10	48
CC131736		<20	0.07	<10	<10	47	<10	43
CC131737		<20	0.10	<10	<10	57	<10	55
CC131738		<20	0.04	<10	<10	28	<10	19
CC131739		<20	0.11	<10	<10	72	<10	52
CC131740		<20	0.04	<10	<10	42	<10	35
CC131751		<20	0.13	<10	<10	69	<10	50
CC131752		<20	0.07	<10	<10	83	<10	53
CC131753		<20	0.10	<10	<10	78	<10	44
CC131754		<20	0.11	<10	<10	65	<10	30
CC131755		<20	0.14	<10	<10	76	<10	52
CC131756		<20	0.16	<10	<10	83	<10	67
CC131757		<20	0.14	<10	<10	65	<10	55
CC131758		<20	0.13	<10	<10	72	<10	58
CC131759		<20	0.01	<10	<10	57	<10	57
CC131760		<20	0.09	<10	<10	66	<10	45
CC131771		<20	0.06	<10	<10	78	<10	50
CC131772		<20	0.05	<10	<10	74	<10	52
CC131773		<20	0.08	<10	<10	64	<10	54
CC131774		<20	0.06	<10	<10	72	<10	44
CC131775		<20	0.09	<10	<10	76	<10	60
CC131776		<20	0.07	<10	<10	75	<10	70
CC131777		<20	0.05	<10	<10	54	<10	47
CC131778		<20	0.09	<10	<10	75	<10	53
CC131779		<20	0.07	<10	<10	66	<10	37
CC131780		<20	0.11	<10	<10	72	<10	63
CC131781		<20	0.10	<10	<10	77	<10	59
CC131782		<20	0.08	<10	<10	78	<10	64
CC131783		<20	0.06	<10	<10	77	<10	66
CC131784		<20	0.07	<10	<10	62	<10	54
CC131785		<20	0.07	<10	<10	66	<10	53
CC131786		<20	0.05	<10	<10	54	<10	53
CC131787		<20	0.11	<10	<10	57	<10	57
CC131788		<20	0.10	<10	<10	56	<10	56
CC131789		<20	0.05	<10	<10	30	<10	35
CC131790		<20	0.11	<10	<10	63	<10	51



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**CERTIFICATE OF ANALYSIS WH11120314**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC131811		0.19	0.003	<0.2	3.24	9	<10	200	0.6	<2	0.17	<0.5	12	29	19	3.51
CC131812		0.26	0.001	<0.2	3.90	10	<10	300	0.7	<2	0.23	<0.5	13	28	17	3.91
CC131813		0.21	0.003	<0.2	3.56	8	<10	340	0.7	<2	0.24	<0.5	14	22	15	4.14
CC131814		0.23	0.002	<0.2	1.77	7	<10	140	<0.5	<2	0.23	<0.5	7	24	14	2.75
CC131815		0.22	0.002	0.6	1.69	4	<10	230	0.6	<2	0.67	<0.5	7	15	18	2.34
CC131816		0.22	0.002	<0.2	3.51	9	<10	300	0.6	<2	0.35	<0.5	12	24	19	3.53
CC131817		0.28	0.023	<0.2	1.01	<2	<10	200	<0.5	<2	0.55	<0.5	5	12	11	1.63
CC131818		0.15	0.004	0.2	1.42	5	<10	380	0.6	<2	0.71	<0.5	7	12	18	2.55
CC131819		0.29	0.001	<0.2	1.75	4	<10	250	<0.5	<2	0.36	<0.5	10	14	9	3.15
CC131820		0.22	0.001	<0.2	1.05	3	<10	190	<0.5	<2	0.30	<0.5	6	12	20	1.76
CC131821		0.32	0.001	<0.2	1.39	2	<10	360	<0.5	<2	0.38	<0.5	7	12	12	2.85
CC131822		0.20	0.002	0.2	1.75	7	<10	870	0.9	<2	0.42	<0.5	9	22	20	3.14
CC131823		0.25	0.005	<0.2	1.40	5	<10	140	<0.5	<2	0.19	<0.5	5	17	10	2.06
CC131824		0.18	0.008	<0.2	1.76	11	<10	150	<0.5	<2	0.19	<0.5	8	27	13	2.93
CC131825		0.16	0.002	<0.2	1.91	9	<10	170	<0.5	<2	0.23	<0.5	7	26	17	2.74
CC131826		0.29	0.001	<0.2	0.49	<2	<10	60	<0.5	<2	0.11	<0.5	2	7	15	0.84
CC131827		0.38	0.001	<0.2	1.26	2	<10	150	<0.5	<2	0.24	<0.5	6	16	10	1.97
CC131828		0.15	<0.001	<0.2	0.75	2	<10	60	<0.5	<2	0.14	<0.5	3	10	8	1.21
CC131829		0.27	<0.001	<0.2	0.54	<2	<10	70	<0.5	<2	0.12	<0.5	2	6	11	0.73
CC131830		Not Recvd														
CC131841		0.09	<0.001	<0.2	2.03	3	<10	190	<0.5	<2	0.65	<0.5	7	11	19	2.44
CC131842		<0.02	0.001	<0.2	1.00	2	<10	110	<0.5	<2	0.35	<0.5	7	11	10	2.10
CC131843		0.27	<0.001	<0.2	1.94	8	<10	130	<0.5	<2	0.30	<0.5	8	21	12	3.31
CC131844		0.24	<0.001	<0.2	2.05	<2	<10	350	<0.5	<2	0.59	<0.5	10	12	12	3.26
CC131845		0.02	<0.001	<0.2	1.88	9	<10	140	<0.5	<2	0.20	<0.5	7	22	13	3.09
CC131846		0.31	0.001	<0.2	1.74	7	<10	180	<0.5	<2	0.38	<0.5	7	23	15	2.89
CC131847		0.30	<0.001	<0.2	1.65	8	<10	150	<0.5	<2	0.21	<0.5	7	20	15	2.56
CC131848		0.34	0.008	<0.2	0.92	7	<10	90	<0.5	<2	0.18	<0.5	5	17	9	1.94
CC131849		0.38	<0.001	<0.2	1.31	3	<10	140	<0.5	<2	0.29	<0.5	6	14	10	2.00
CC131850		0.28	0.001	<0.2	1.95	10	<10	120	<0.5	<2	0.19	<0.5	7	28	20	3.16
CC131861		0.28	<0.001	<0.2	2.20	<2	<10	380	0.5	<2	0.64	<0.5	10	19	14	2.92
CC131862		0.38	0.009	0.2	1.95	2	<10	340	<0.5	<2	0.85	<0.5	8	19	25	2.16
CC131863		0.20	<0.001	<0.2	1.26	15	<10	190	<0.5	<2	0.52	<0.5	8	13	12	5.82
CC131864		0.39	0.002	<0.2	1.84	5	<10	320	<0.5	<2	0.59	<0.5	12	19	13	3.22
CC131865		0.23	0.001	<0.2	2.06	<2	<10	230	<0.5	<2	0.50	<0.5	9	20	13	2.51
CC131866		0.31	0.015	<0.2	1.71	8	<10	190	<0.5	<2	0.21	<0.5	9	20	12	2.74
CC131867		0.33	0.009	<0.2	0.78	3	<10	130	<0.5	<2	0.27	<0.5	5	10	15	1.30
CC131868		0.28	0.006	<0.2	1.01	2	<10	170	<0.5	<2	0.48	<0.5	6	13	8	2.00
CC131869		0.42	<0.001	<0.2	1.05	3	<10	230	<0.5	<2	0.35	<0.5	7	12	8	2.03
CC131870		0.28	0.007	<0.2	1.08	3	<10	220	<0.5	<2	0.34	<0.5	7	14	10	1.91



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**CERTIFICATE OF ANALYSIS WH11120314**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC131811		10	<1	0.13	10	0.79	482	<1	0.02	19	350	9	0.02	<2	6	18
CC131812		10	<1	0.17	10	0.80	550	1	0.02	18	550	9	0.02	<2	7	56
CC131813		10	<1	0.19	10	0.99	672	<1	0.02	15	560	11	0.02	<2	7	30
CC131814		10	<1	0.09	10	0.47	237	1	0.02	14	410	7	0.02	<2	4	19
CC131815		10	1	0.09	40	0.47	439	<1	0.03	8	1010	4	0.07	<2	5	56
CC131816		10	1	0.29	10	0.77	580	1	0.02	16	880	9	0.03	<2	5	28
CC131817		<10	<1	0.07	10	0.33	314	1	0.02	6	770	4	0.04	<2	3	32
CC131818		<10	<1	0.12	50	0.44	539	1	0.02	8	790	6	0.06	<2	7	44
CC131819		10	<1	0.27	10	0.85	575	1	0.02	6	730	6	0.02	<2	7	22
CC131820		<10	<1	0.08	10	0.34	283	1	0.02	6	380	5	0.02	<2	3	24
CC131821		<10	<1	0.17	20	0.51	462	<1	0.02	6	510	6	0.02	<2	7	25
CC131822		<10	1	0.09	70	0.41	488	1	0.01	12	420	13	0.02	2	15	35
CC131823		<10	1	0.06	10	0.32	201	<1	0.02	9	260	7	0.01	<2	3	17
CC131824		10	<1	0.09	10	0.50	284	1	0.01	14	230	7	0.01	<2	3	17
CC131825		10	<1	0.10	10	0.54	300	1	0.02	15	360	9	0.01	2	4	19
CC131826		<10	<1	0.04	<10	0.08	72	<1	0.03	4	240	3	0.01	<2	1	14
CC131827		<10	<1	0.10	10	0.38	259	<1	0.01	11	580	4	0.01	<2	3	16
CC131828		<10	<1	0.05	10	0.16	116	<1	0.03	5	330	2	0.01	<2	1	13
CC131829		<10	1	0.04	10	0.06	51	<1	0.03	3	270	3	0.02	<2	<1	16
CC131830																
CC131841		10	<1	0.07	10	0.68	440	<1	0.02	5	560	5	0.03	<2	6	52
CC131842		<10	<1	0.06	10	0.32	429	<1	0.02	5	640	5	0.02	<2	2	26
CC131843		10	<1	0.10	10	0.52	335	1	0.02	10	540	9	0.02	<2	3	23
CC131844		10	1	0.20	20	0.95	565	<1	0.03	7	760	12	0.02	<2	5	37
CC131845		10	<1	0.09	10	0.47	264	1	0.01	12	310	11	0.01	<2	3	21
CC131846		10	1	0.07	10	0.53	331	1	0.02	12	490	8	0.01	<2	4	27
CC131847		10	<1	0.10	10	0.45	305	1	0.01	12	350	5	0.01	<2	3	18
CC131848		10	<1	0.06	10	0.29	295	1	0.01	9	300	5	0.01	<2	2	14
CC131849		<10	<1	0.11	10	0.40	267	<1	0.02	9	480	5	0.01	<2	3	25
CC131850		10	<1	0.08	10	0.43	212	1	0.02	15	460	8	0.02	<2	3	20
CC131861		10	<1	0.21	20	1.04	314	1	0.02	11	740	10	0.01	2	12	27
CC131862		10	<1	0.07	30	0.62	320	<1	0.02	10	1010	7	0.07	<2	7	39
CC131863		10	<1	0.04	10	0.39	528	1	0.02	5	760	4	0.04	<2	3	28
CC131864		10	<1	0.14	20	0.80	1125	<1	0.02	9	800	6	0.02	<2	6	29
CC131865		10	<1	0.08	20	0.67	255	<1	0.01	8	700	5	0.02	<2	7	25
CC131866		10	<1	0.13	10	0.54	313	1	0.01	10	290	9	<0.01	<2	4	19
CC131867		<10	<1	0.08	10	0.24	147	<1	0.03	4	560	3	0.01	<2	2	15
CC131868		<10	<1	0.07	20	0.34	201	1	0.01	5	780	4	0.02	<2	3	26
CC131869		<10	<1	0.07	20	0.33	486	<1	0.02	5	490	5	0.02	<2	4	22
CC131870		<10	<1	0.05	20	0.29	345	<1	0.01	5	670	6	0.02	<2	4	21



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**CERTIFICATE OF ANALYSIS WH11120314**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC131811		<20	0.12	<10	<10	74	<10	57
CC131812		<20	0.14	<10	<10	83	<10	60
CC131813		<20	0.18	<10	<10	94	<10	67
CC131814		<20	0.10	<10	<10	65	<10	43
CC131815		<20	0.08	<10	<10	62	<10	56
CC131816		<20	0.24	<10	<10	81	<10	72
CC131817		<20	0.07	<10	10	41	<10	44
CC131818		<20	0.06	<10	<10	61	<10	60
CC131819		<20	0.13	<10	<10	75	<10	69
CC131820		<20	0.06	<10	<10	42	<10	37
CC131821		<20	0.08	<10	<10	58	<10	59
CC131822		<20	0.03	<10	<10	63	<10	46
CC131823		<20	0.05	<10	<10	48	<10	34
CC131824		<20	0.09	<10	<10	65	<10	50
CC131825		<20	0.11	<10	<10	62	<10	48
CC131826		<20	0.05	<10	<10	27	<10	15
CC131827		<20	0.08	<10	<10	44	<10	33
CC131828		<20	0.05	<10	<10	32	<10	22
CC131829		<20	0.04	<10	<10	23	<10	14
CC131830								
CC131841		<20	0.10	<10	<10	58	<10	54
CC131842		<20	0.07	<10	<10	57	<10	39
CC131843		<20	0.20	<10	<10	95	<10	54
CC131844		<20	0.21	<10	<10	78	<10	67
CC131845		<20	0.06	<10	<10	61	<10	46
CC131846		<20	0.09	<10	<10	70	<10	45
CC131847		<20	0.09	<10	<10	59	<10	40
CC131848		<20	0.09	<10	<10	59	<10	33
CC131849		<20	0.09	<10	<10	47	<10	37
CC131850		<20	0.10	<10	<10	63	<10	45
CC131861		20	0.13	<10	<10	86	<10	68
CC131862		<20	0.10	<10	<10	55	<10	62
CC131863		<20	0.10	<10	<10	74	<10	48
CC131864		<20	0.14	<10	<10	78	<10	63
CC131865		<20	0.13	<10	<10	68	<10	58
CC131866		<20	0.10	<10	<10	61	<10	43
CC131867		<20	0.06	<10	<10	34	<10	21
CC131868		<20	0.07	<10	10	59	<10	40
CC131869		<20	0.06	<10	<10	45	<10	40
CC131870		<20	0.05	<10	<10	45	<10	38



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC131881		0.29	0.008	0.2	0.92	3	<10	180	<0.5	<2	0.31	<0.5	3	7	19	1.60
CC131882		0.31	<0.001	<0.2	1.38	2	<10	230	<0.5	<2	0.89	<0.5	6	16	18	1.73
CC131883		0.29	<0.001	<0.2	0.74	<2	<10	250	<0.5	<2	0.47	<0.5	5	9	13	1.19
CC131884		0.07	0.007	<0.2	1.27	3	<10	180	<0.5	<2	0.47	<0.5	7	16	10	2.22
CC131885		0.19	0.009	0.4	1.36	3	<10	250	0.5	<2	0.50	<0.5	5	11	11	1.47
CC131886		0.24	0.001	<0.2	1.15	7	<10	90	<0.5	<2	0.21	<0.5	6	19	8	2.22
CC131887		0.47	0.005	<0.2	1.21	7	<10	130	<0.5	<2	0.23	<0.5	7	18	9	2.32
CC131888		0.20	0.001	<0.2	1.43	4	<10	210	<0.5	<2	0.69	<0.5	7	14	18	2.01
CC131889		0.49	<0.001	<0.2	1.03	3	<10	190	<0.5	<2	0.87	<0.5	6	11	11	1.71
CC131890		0.54	0.001	0.2	0.85	3	<10	110	<0.5	<2	0.36	<0.5	4	9	13	1.26
CC131891		0.32	<0.001	0.3	0.87	3	<10	100	<0.5	<2	0.38	<0.5	6	11	12	1.56
CC131892		0.17	0.002	<0.2	1.67	9	<10	150	0.5	<2	0.43	<0.5	7	23	19	2.34
CC131893		0.23	0.008	0.9	1.18	<2	<10	130	0.5	<2	0.63	<0.5	5	8	23	1.04
CC131894		0.28	0.001	<0.2	1.12	6	<10	170	<0.5	<2	0.39	<0.5	6	23	14	2.40
CC131895		0.26	<0.001	<0.2	1.17	5	<10	180	<0.5	<2	0.42	<0.5	4	14	10	1.55
CC131896		0.08	0.001	<0.2	1.59	7	<10	120	0.5	<2	0.40	<0.5	7	22	14	2.30
CC131897		Not Recvd														
CC131898		0.42	0.017	<0.2	0.92	7	<10	120	<0.5	<2	0.33	<0.5	5	17	9	1.61
CC131899		<0.02	<0.001	0.2	0.55	<2	<10	80	<0.5	<2	0.15	<0.5	3	7	7	0.97
CC131900		<0.02	0.003	<0.2	1.24	4	<10	200	<0.5	<2	0.30	<0.5	9	16	10	2.32
CC131951		0.32	<0.001	<0.2	1.50	5	<10	280	<0.5	<2	0.60	<0.5	8	16	13	2.39
CC131952		0.21	<0.001	0.3	0.86	3	<10	180	<0.5	<2	0.38	<0.5	6	11	13	1.62
CC131953		0.25	<0.001	<0.2	1.53	5	<10	240	<0.5	<2	0.35	<0.5	9	16	11	2.54
CC131954		0.16	<0.001	<0.2	0.70	3	<10	150	<0.5	<2	0.33	<0.5	5	9	8	1.49
CC131955		0.31	0.001	<0.2	1.47	9	<10	240	<0.5	<2	0.39	<0.5	9	23	12	2.56
CC131956		0.33	<0.001	<0.2	0.54	2	<10	100	<0.5	<2	0.26	<0.5	4	7	9	1.09
CC131957		0.22	<0.001	<0.2	2.90	6	<10	470	0.7	<2	0.47	0.5	12	16	16	3.78
CC131958		0.45	0.001	<0.2	1.47	8	<10	90	<0.5	<2	0.14	<0.5	4	23	9	2.60
CC131959		0.18	<0.001	<0.2	2.24	8	<10	200	<0.5	<2	0.28	<0.5	11	22	17	3.29
CC131960		0.31	0.001	<0.2	2.65	9	<10	430	0.6	<2	0.26	<0.5	11	21	19	3.35
CC132211		0.26	0.005	0.2	1.75	40	<10	130	0.7	<2	0.50	<0.5	7	28	22	2.94
CC132212		0.29	<0.001	<0.2	1.27	11	<10	100	<0.5	<2	0.31	<0.5	6	19	11	2.01
CC132213		0.35	0.001	<0.2	1.62	20	<10	120	0.5	<2	0.42	<0.5	6	23	18	2.36
CC132214		0.19	0.005	<0.2	1.55	18	<10	120	0.5	<2	0.45	<0.5	7	25	17	2.35
CC132215		0.23	0.001	<0.2	1.33	14	<10	130	<0.5	<2	0.62	<0.5	6	20	17	1.98
CC132216		0.22	0.004	0.2	1.37	14	<10	110	<0.5	<2	0.38	<0.5	5	22	17	1.87
CC132217		0.26	0.006	0.3	1.93	59	<10	160	0.6	<2	0.57	<0.5	7	32	27	2.55
CC132231		0.20	<0.001	<0.2	1.94	15	<10	110	1.3	<2	0.21	<0.5	17	39	36	5.39
CC132232		0.25	0.001	<0.2	2.49	34	<10	100	1.5	<2	0.09	<0.5	25	35	49	4.27
CC132233		0.26	0.005	<0.2	2.07	22	<10	100	0.6	<2	0.17	<0.5	14	29	20	2.94



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**CERTIFICATE OF ANALYSIS WH11120314**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC131881		<10	<1	0.04	20	0.10	52	<1	0.03	4	580	2	0.05	<2	4	19
CC131882		<10	<1	0.08	20	0.43	168	3	0.02	7	750	5	0.07	<2	5	61
CC131883		<10	<1	0.02	10	0.16	667	<1	0.03	4	860	2	0.05	<2	1	37
CC131884		<10	<1	0.05	20	0.44	259	<1	0.02	6	800	5	0.03	<2	4	22
CC131885		<10	<1	0.05	50	0.18	195	1	0.02	5	680	6	0.06	<2	3	29
CC131886		10	<1	0.04	10	0.33	200	<1	0.01	9	410	5	0.01	<2	2	14
CC131887		10	<1	0.07	10	0.43	271	1	0.01	9	320	5	0.01	<2	3	15
CC131888		<10	<1	0.07	30	0.33	430	<1	0.02	7	790	4	0.04	<2	4	36
CC131889		<10	<1	0.05	20	0.31	329	<1	0.02	6	500	3	0.04	<2	3	42
CC131890		<10	<1	0.02	20	0.18	161	<1	0.02	5	630	<2	0.04	<2	2	24
CC131891		<10	<1	0.02	20	0.17	231	<1	0.02	4	670	3	0.04	<2	2	25
CC131892		10	<1	0.05	20	0.46	262	1	0.01	11	670	6	0.03	<2	3	28
CC131893		<10	<1	0.02	50	0.10	171	<1	0.03	4	1180	3	0.10	<2	1	44
CC131894		10	<1	0.06	10	0.42	248	1	0.01	10	300	6	0.02	<2	3	29
CC131895		10	<1	0.04	10	0.28	164	<1	0.02	6	370	4	0.02	<2	2	28
CC131896		10	<1	0.05	20	0.47	242	<1	0.02	11	430	6	0.01	<2	3	37
CC131897																
CC131898		<10	<1	0.06	10	0.32	169	<1	0.02	8	760	4	0.01	<2	2	18
CC131899		<10	<1	0.03	10	0.11	74	<1	0.02	3	320	2	0.01	<2	1	14
CC131900		10	<1	0.09	10	0.46	474	1	0.02	7	490	5	0.01	<2	3	20
CC131951		10	<1	0.10	10	0.56	367	<1	0.02	7	500	4	0.03	<2	4	37
CC131952		<10	<1	0.04	20	0.17	322	1	0.03	4	820	2	0.05	<2	2	26
CC131953		10	<1	0.15	10	0.57	472	1	0.02	8	420	6	0.01	<2	4	22
CC131954		<10	<1	0.04	10	0.19	190	<1	0.02	4	490	3	0.02	<2	2	21
CC131955		10	<1	0.12	10	0.56	404	1	0.02	11	440	7	0.01	<2	4	23
CC131956		<10	<1	0.03	<10	0.11	113	<1	0.03	3	430	<2	0.01	<2	1	18
CC131957		10	<1	0.13	20	1.01	643	3	0.01	7	470	38	<0.01	2	9	23
CC131958		10	<1	0.07	10	0.41	189	<1	0.01	11	200	8	<0.01	<2	3	12
CC131959		10	<1	0.11	10	0.63	538	<1	0.02	13	340	9	<0.01	<2	6	22
CC131960		10	1	0.20	20	0.74	536	<1	0.02	15	480	10	<0.01	<2	6	19
CC132211		10	<1	0.24	20	0.43	369	<1	0.02	19	750	9	0.04	<2	4	41
CC132212		<10	<1	0.10	10	0.35	235	<1	0.02	12	340	7	0.01	<2	3	23
CC132213		<10	1	0.11	20	0.40	290	<1	0.02	14	660	7	0.04	<2	3	31
CC132214		10	<1	0.10	20	0.45	330	<1	0.02	16	590	5	0.02	2	3	31
CC132215		<10	1	0.09	10	0.35	279	<1	0.02	12	760	5	0.04	<2	2	41
CC132216		<10	1	0.08	10	0.40	188	<1	0.02	16	590	7	0.02	<2	3	28
CC132217		10	1	0.09	20	0.51	338	<1	0.02	23	840	7	0.04	<2	4	39
CC132231		10	1	0.37	50	0.73	565	2	0.01	44	610	26	<0.01	<2	6	14
CC132232		10	1	0.13	30	0.82	961	<1	0.01	44	340	26	0.02	<2	5	11
CC132233		10	<1	0.09	10	0.58	382	<1	0.02	29	360	10	0.02	<2	3	14



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC131881		<20	0.03	<10	<10	34	<10	14
CC131882		<20	0.09	<10	70	44	<10	47
CC131883		<20	0.04	<10	<10	26	<10	30
CC131884		<20	0.08	<10	<10	49	<10	43
CC131885		<20	0.02	<10	<10	30	<10	25
CC131886		<20	0.07	<10	<10	53	<10	33
CC131887		<20	0.09	<10	<10	57	<10	42
CC131888		<20	0.05	<10	<10	48	<10	35
CC131889		<20	0.06	<10	<10	41	<10	63
CC131890		<20	0.04	<10	<10	31	<10	25
CC131891		<20	0.04	<10	<10	43	<10	24
CC131892		<20	0.06	<10	<10	56	<10	41
CC131893		<20	0.02	<10	<10	21	<10	14
CC131894		<20	0.11	<10	<10	67	<10	48
CC131895		<20	0.06	<10	<10	42	<10	28
CC131896		<20	0.08	<10	<10	54	<10	40
CC131897								
CC131898		<20	0.07	<10	<10	35	<10	33
CC131899		<20	0.05	<10	<10	28	<10	18
CC131900		<20	0.10	<10	<10	58	<10	45
CC131951		<20	0.12	<10	<10	58	<10	54
CC131952		<20	0.05	<10	<10	44	<10	27
CC131953		<20	0.14	<10	<10	65	<10	50
CC131954		<20	0.06	<10	<10	41	<10	28
CC131955		<20	0.10	<10	<10	59	<10	55
CC131956		<20	0.04	<10	<10	31	<10	20
CC131957		20	0.04	<10	<10	72	<10	76
CC131958		<20	0.13	<10	<10	82	<10	50
CC131959		<20	0.08	<10	<10	76	<10	57
CC131960		<20	0.16	<10	<10	81	<10	58
CC132211		<20	0.09	<10	<10	49	<10	64
CC132212		<20	0.09	<10	<10	42	<10	41
CC132213		<20	0.08	<10	<10	49	<10	48
CC132214		<20	0.09	<10	<10	48	<10	51
CC132215		<20	0.07	<10	<10	41	<10	44
CC132216		<20	0.08	<10	<10	38	<10	46
CC132217		<20	0.07	<10	<10	51	<10	60
CC132231		20	0.14	<10	<10	56	<10	111
CC132232		<20	0.05	<10	<10	50	<10	87
CC132233		<20	0.09	<10	<10	55	<10	55





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**CERTIFICATE OF ANALYSIS WH11120314**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC132234		0.28	0.002	<0.2	2.23	22	<10	130	0.6	<2	0.26	<0.5	10	35	19	3.57
CC132235		0.28	<0.001	<0.2	2.08	38	<10	110	0.6	<2	0.15	<0.5	10	33	24	4.13
CC132236		0.19	0.001	<0.2	1.82	34	<10	130	0.7	<2	0.40	<0.5	10	31	24	3.12
CC132237		0.25	0.002	0.2	1.12	49	<10	110	0.8	<2	0.36	<0.5	7	16	17	2.52
CC132238		0.25	<0.001	0.2	1.56	18	<10	110	0.7	<2	0.30	<0.5	9	25	23	2.86
CC132239		0.26	0.006	<0.2	1.97	25	<10	130	0.6	<2	0.33	<0.5	10	35	21	3.33
CC132240		0.28	0.001	0.2	1.57	15	<10	120	0.5	<2	0.35	<0.5	8	23	20	2.62
CC132411		0.37	0.007	<0.2	2.12	9	<10	150	0.7	<2	0.54	<0.5	9	31	26	2.86
CC132412		0.33	0.001	<0.2	2.04	14	<10	120	0.6	<2	0.35	<0.5	8	30	22	2.86
CC132413		0.36	0.001	<0.2	3.19	15	<10	150	1.0	<2	0.18	<0.5	16	44	31	4.41
CC132414		0.20	0.001	<0.2	2.30	26	<10	190	0.7	<2	0.23	<0.5	10	36	36	4.37
CC132415		0.28	0.002	0.2	2.49	32	<10	130	0.8	<2	0.14	<0.5	9	34	21	3.87
CC132416		0.31	0.001	<0.2	1.92	15	<10	160	0.6	<2	0.34	<0.5	9	39	23	3.16
CC132417		0.33	<0.001	<0.2	1.85	7	<10	140	0.5	<2	0.28	<0.5	10	38	20	2.79
CC132418		0.22	0.006	<0.2	1.74	8	<10	140	<0.5	<2	0.28	<0.5	9	32	18	2.74
CC132419		0.35	0.002	<0.2	1.59	19	<10	120	0.7	<2	0.27	<0.5	13	36	34	4.30
CC136261		0.28	0.002	0.2	2.38	10	<10	350	0.6	<2	0.14	<0.5	12	16	22	4.06
CC136262		0.32	0.003	<0.2	2.07	11	<10	270	0.5	<2	0.29	<0.5	7	29	19	3.17
CC136263		0.24	0.005	<0.2	0.64	4	<10	150	<0.5	<2	0.26	<0.5	5	12	14	1.91
CC136264		0.18	0.001	0.2	1.76	7	<10	340	0.6	<2	0.41	<0.5	7	16	17	2.71
CC136265		0.26	0.002	<0.2	1.68	12	<10	220	<0.5	<2	0.23	<0.5	6	26	14	2.80
CC136266		0.45	<0.001	0.2	1.01	5	<10	170	<0.5	<2	0.29	<0.5	4	18	11	2.00
CC136267		0.21	0.007	<0.2	1.19	9	<10	180	<0.5	<2	0.27	<0.5	6	17	8	1.95
CC136268		0.33	0.003	0.2	1.30	<2	<10	470	<0.5	<2	0.64	<0.5	6	13	29	1.97
CC136269		0.46	0.002	<0.2	1.12	2	<10	380	0.5	<2	0.57	<0.5	5	13	25	2.00
CC136270		0.37	0.001	<0.2	1.19	3	<10	260	<0.5	<2	0.42	<0.5	5	12	15	1.93
CC136401		0.56	0.003	<0.2	2.37	16	<10	430	0.6	<2	0.26	<0.5	14	48	21	3.63
CC136402		0.35	0.002	<0.2	2.58	14	<10	190	0.5	<2	0.17	<0.5	9	29	15	3.86
CC136403		0.47	0.002	<0.2	2.75	6	<10	360	0.5	<2	0.25	<0.5	11	25	12	4.40
CC136404		0.28	0.002	<0.2	1.81	10	<10	280	<0.5	<2	0.22	<0.5	8	24	14	2.61
CC136405		0.20	0.006	<0.2	1.64	6	<10	130	<0.5	<2	0.19	<0.5	6	20	19	3.10
CC136406		0.24	0.003	<0.2	4.02	16	<10	380	0.6	<2	0.46	<0.5	14	31	39	5.19
CC136407		0.26	0.001	0.4	2.89	8	<10	260	0.7	2	0.16	<0.5	12	26	28	3.98
CC136408		0.31	0.001	0.4	3.76	19	<10	290	0.8	2	0.18	<0.5	15	24	43	5.82
CC136409		0.21	0.001	<0.2	2.91	8	<10	240	0.5	<2	0.22	<0.5	11	22	18	3.87
CC136410		0.29	0.001	<0.2	2.78	16	<10	230	0.5	<2	0.16	<0.5	12	29	39	3.88
CC136431		0.32	0.001	0.5	2.70	12	<10	230	0.5	<2	0.23	<0.5	10	27	101	4.36
CC136432		0.37	0.005	0.5	2.68	13	<10	290	<0.5	3	0.25	<0.5	10	28	72	3.98
CC136433		0.36	0.015	<0.2	1.93	5	<10	370	<0.5	<2	0.33	<0.5	10	26	17	3.07
CC136434		0.21	<0.001	<0.2	1.84	<2	<10	400	<0.5	<2	0.44	<0.5	11	15	12	3.39



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC132234		10	1	0.09	10	0.66	353	<1	0.01	25	360	12	0.01	<2	4	24
CC132235		10	1	0.11	10	0.53	396	<1	0.02	21	470	15	0.01	<2	3	14
CC132236		10	<1	0.10	20	0.55	363	<1	0.02	22	540	11	0.02	<2	3	35
CC132237		<10	<1	0.09	30	0.24	294	<1	0.02	18	530	8	0.01	2	3	29
CC132238		10	<1	0.09	20	0.46	459	<1	0.02	20	570	11	0.02	<2	2	30
CC132239		10	1	0.11	20	0.61	442	<1	0.01	23	420	9	0.01	<2	4	25
CC132240		10	1	0.10	20	0.31	364	<1	0.03	14	710	4	0.02	<2	3	29
CC132411		<10	1	0.13	20	0.49	368	<1	0.03	22	700	7	0.03	<2	5	40
CC132412		10	1	0.19	10	0.58	341	<1	0.02	24	650	8	0.01	<2	4	23
CC132413		10	1	0.38	20	0.90	388	<1	0.02	39	310	10	0.01	<2	6	16
CC132414		10	1	0.30	20	0.64	643	<1	0.02	23	370	14	0.01	<2	4	27
CC132415		10	<1	0.30	20	0.58	336	<1	0.02	22	310	12	0.01	<2	5	14
CC132416		10	1	0.27	20	0.66	377	<1	0.02	23	430	8	<0.01	2	8	32
CC132417		10	1	0.25	20	0.69	278	<1	0.02	24	610	7	<0.01	<2	4	19
CC132418		10	1	0.13	10	0.59	220	<1	0.02	21	710	7	0.01	<2	4	18
CC132419		10	1	0.34	20	0.61	535	<1	0.02	33	790	18	0.02	3	4	19
CC136261		10	<1	0.15	10	0.50	674	3	0.02	6	550	10	0.01	<2	7	17
CC136262		10	1	0.10	20	0.55	344	1	0.02	16	370	11	<0.01	<2	5	22
CC136263		<10	<1	0.05	10	0.21	246	<1	0.02	6	550	4	0.01	<2	2	16
CC136264		10	1	0.19	40	0.51	390	<1	0.02	10	390	8	0.02	<2	6	28
CC136265		10	1	0.12	10	0.51	238	<1	0.02	13	260	9	<0.01	<2	3	18
CC136266		10	1	0.08	20	0.37	179	<1	0.02	7	200	6	<0.01	<2	3	17
CC136267		<10	<1	0.08	10	0.39	229	<1	0.02	10	380	5	<0.01	<2	3	17
CC136268		<10	<1	0.16	30	0.37	445	2	0.02	13	730	10	0.07	<2	5	48
CC136269		<10	<1	0.12	20	0.29	342	3	0.01	10	660	6	0.06	<2	5	39
CC136270		<10	<1	0.15	20	0.36	369	1	0.01	9	510	7	0.04	<2	4	31
CC136401		10	<1	0.25	10	0.72	989	2	0.01	24	310	8	0.02	<2	5	25
CC136402		10	<1	0.14	10	0.73	335	2	0.01	18	320	10	0.02	<2	4	18
CC136403		10	<1	0.29	10	0.93	425	1	0.01	15	340	13	0.02	<2	6	23
CC136404		10	<1	0.09	10	0.49	253	1	0.01	18	270	8	0.02	<2	3	19
CC136405		10	<1	0.06	10	0.42	246	1	0.01	12	240	9	0.02	<2	3	18
CC136406		10	<1	0.26	10	0.96	789	1	0.01	23	530	14	0.03	<2	8	48
CC136407		10	1	0.16	20	0.73	404	1	0.01	13	290	12	0.02	4	7	16
CC136408		10	<1	0.42	10	0.85	781	2	0.01	13	640	11	0.03	<2	12	19
CC136409		10	<1	0.16	10	0.78	610	1	0.01	12	390	10	0.02	<2	7	26
CC136410		10	<1	0.16	10	0.58	346	2	0.01	21	360	10	0.02	<2	5	21
CC136431		10	<1	0.11	10	0.63	443	2	0.01	16	430	13	0.02	<2	6	21
CC136432		10	<1	0.20	10	0.71	386	2	0.01	17	410	13	0.03	<2	4	20
CC136433		10	<1	0.17	20	0.66	627	1	<0.01	15	390	8	0.02	<2	5	21
CC136434		10	<1	0.40	20	0.84	653	2	0.01	7	700	6	0.03	<2	8	23



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC132234		<20	0.10	<10	<10	72	<10	63
CC132235		<20	0.08	<10	<10	72	<10	58
CC132236		<20	0.06	<10	<10	55	<10	56
CC132237		<20	0.02	<10	<10	32	<10	41
CC132238		<20	0.05	<10	<10	49	<10	58
CC132239		<20	0.08	<10	<10	61	<10	62
CC132240		<20	0.08	<10	<10	66	<10	52
CC132411		<20	0.09	<10	<10	54	<10	59
CC132412		<20	0.12	<10	<10	55	<10	55
CC132413		<20	0.16	<10	<10	67	<10	75
CC132414		<20	0.11	<10	<10	74	<10	76
CC132415		<20	0.11	<10	<10	59	<10	61
CC132416		<20	0.17	<10	<10	58	<10	57
CC132417		<20	0.17	<10	<10	54	<10	67
CC132418		<20	0.12	<10	<10	48	<10	60
CC132419		<20	0.12	<10	<10	53	<10	93
CC136261		<20	0.07	<10	<10	83	<10	70
CC136262		<20	0.11	<10	<10	72	<10	54
CC136263		<20	0.06	<10	<10	51	<10	40
CC136264		<20	0.10	<10	<10	61	<10	49
CC136265		<20	0.12	<10	<10	69	<10	57
CC136266		<20	0.10	<10	<10	54	<10	39
CC136267		<20	0.08	<10	<10	45	<10	37
CC136268		<20	0.06	<10	<10	43	<10	61
CC136269		<20	0.05	<10	<10	44	<10	49
CC136270		<20	0.07	<10	<10	42	<10	52
CC136401		<20	0.16	<10	<10	85	<10	76
CC136402		<20	0.17	<10	<10	93	<10	74
CC136403		<20	0.20	<10	<10	107	<10	94
CC136404		<20	0.10	<10	<10	58	<10	45
CC136405		<20	0.15	<10	<10	81	<10	46
CC136406		<20	0.21	<10	<10	115	<10	100
CC136407		20	0.11	<10	<10	87	<10	67
CC136408		20	0.20	<10	<10	124	<10	81
CC136409		<20	0.16	<10	<10	99	<10	59
CC136410		<20	0.11	<10	<10	78	<10	59
CC136431		<20	0.12	<10	<10	96	10	66
CC136432		<20	0.19	<10	<10	97	10	73
CC136433		<20	0.14	<10	<10	74	<10	58
CC136434		20	0.13	<10	<10	80	<10	66



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**CERTIFICATE OF ANALYSIS WH11120314**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC136435		0.36	0.009	<0.2	2.05	5	<10	390	<0.5	<2	0.26	<0.5	8	24	19	3.14
CC136436		0.42	0.033	<0.2	1.86	3	<10	440	<0.5	<2	0.38	<0.5	9	21	18	3.38
CC136437		0.37	0.002	<0.2	1.37	7	<10	400	<0.5	<2	0.24	<0.5	5	17	21	1.92
CC136438		0.38	0.001	<0.2	1.52	11	<10	270	<0.5	<2	0.25	<0.5	6	23	23	2.60
CC136439		0.38	0.001	0.2	1.58	3	<10	280	<0.5	<2	0.32	<0.5	7	20	23	2.48
CC136440		0.30	0.005	<0.2	1.47	8	<10	140	<0.5	<2	0.12	<0.5	6	19	12	2.06
CC136441		0.37	0.002	<0.2	1.77	5	<10	250	<0.5	<2	0.16	<0.5	8	22	12	2.73
CC136442		0.32	0.001	<0.2	1.58	9	<10	260	<0.5	<2	0.22	<0.5	8	22	17	2.64
CC136443		0.39	0.002	<0.2	2.06	6	<10	230	0.5	<2	0.24	<0.5	11	19	16	3.34
CC136444		0.47	0.007	<0.2	1.91	9	<10	180	0.5	<2	0.19	<0.5	7	24	25	2.98
CC136445		0.36	0.003	1.1	2.79	12	<10	300	0.8	<2	0.25	<0.5	13	24	59	3.80
CC136446		0.46	0.001	<0.2	1.07	7	<10	170	<0.5	<2	0.26	<0.5	6	19	16	2.23
CC136447		0.40	0.002	<0.2	1.69	7	<10	150	<0.5	<2	0.26	<0.5	8	19	15	3.03
CC136448		0.49	0.001	<0.2	0.92	4	<10	220	<0.5	<2	0.39	<0.5	7	17	10	2.63
CC136449		0.36	0.002	0.2	2.21	11	<10	240	0.5	<2	0.25	<0.5	9	26	16	3.01
CC136450		0.31	0.013	<0.2	1.74	6	<10	240	<0.5	<2	0.16	<0.5	9	26	18	2.64
CC136451		0.36	0.007	<0.2	3.46	12	<10	350	0.7	<2	0.33	<0.5	12	21	35	4.35
CC136452		0.39	0.001	<0.2	1.35	6	<10	100	<0.5	<2	0.21	<0.5	7	22	12	2.35
CC136453		0.35	0.014	<0.2	2.12	8	<10	190	<0.5	<2	0.24	<0.5	8	24	18	3.53
CC136454		0.40	0.002	<0.2	1.42	9	<10	190	<0.5	<2	0.29	<0.5	7	21	18	2.42
CC136455		0.36	0.001	<0.2	1.72	8	<10	220	<0.5	<2	0.25	<0.5	7	22	18	2.85
CC136456		0.44	0.001	<0.2	1.28	5	<10	170	<0.5	<2	0.27	<0.5	5	15	16	2.01
CC136457		0.45	0.002	<0.2	1.69	8	<10	180	<0.5	<2	0.21	<0.5	8	22	15	2.72
CC136458		0.49	0.005	<0.2	0.97	4	<10	210	<0.5	<2	0.29	<0.5	5	14	14	2.02
CC136459		0.50	0.001	<0.2	1.58	5	<10	290	0.5	<2	0.42	<0.5	7	19	16	2.85
CC136460		0.42	0.003	<0.2	1.50	8	<10	130	<0.5	<2	0.17	<0.5	7	22	12	2.81



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC136435		10	<1	0.15	30	0.63	412	1	0.01	13	260	8	0.02	<2	6	24
CC136436		10	<1	0.30	20	0.73	427	1	0.01	11	530	9	0.02	<2	6	23
CC136437		<10	<1	0.06	10	0.30	153	1	<0.01	13	190	8	0.01	<2	2	17
CC136438		10	<1	0.12	20	0.41	416	1	0.01	12	300	9	0.02	<2	3	22
CC136439		10	<1	0.09	10	0.51	316	1	0.01	15	250	10	0.01	<2	3	27
CC136440		<10	<1	0.06	10	0.32	142	1	<0.01	13	190	7	0.01	<2	2	11
CC136441		10	<1	0.14	10	0.52	349	1	<0.01	13	310	8	0.02	<2	4	16
CC136442		10	<1	0.10	10	0.42	492	3	0.01	17	320	9	0.02	<2	4	20
CC136443		10	<1	0.14	10	0.48	837	5	<0.01	13	460	10	0.02	<2	6	20
CC136444		10	<1	0.11	10	0.42	409	7	0.01	16	300	9	0.02	<2	4	18
CC136445		10	<1	0.17	20	0.54	898	13	0.01	18	430	16	0.02	2	8	19
CC136446		<10	<1	0.09	10	0.39	287	2	<0.01	11	350	9	0.01	<2	3	17
CC136447		10	<1	0.13	10	0.60	393	2	<0.01	10	240	8	0.01	<2	5	20
CC136448		<10	<1	0.17	20	0.44	420	2	0.01	9	680	8	0.02	<2	4	22
CC136449		10	<1	0.14	10	0.56	401	2	0.01	15	390	10	0.02	<2	4	22
CC136450		10	<1	0.07	10	0.45	455	1	0.01	15	380	7	0.02	<2	3	17
CC136451		10	<1	0.15	20	1.17	590	1	0.01	14	340	13	0.02	<2	6	20
CC136452		10	<1	0.06	10	0.37	252	6	<0.01	11	640	7	0.02	<2	2	15
CC136453		10	<1	0.12	10	0.63	339	4	0.01	13	270	15	0.02	<2	5	23
CC136454		<10	<1	0.10	10	0.45	349	1	0.02	11	390	10	0.02	<2	4	23
CC136455		10	1	0.08	10	0.43	342	3	0.02	12	350	9	0.02	<2	4	25
CC136456		<10	<1	0.08	10	0.31	270	1	0.02	8	490	6	0.02	<2	3	22
CC136457		10	1	0.09	10	0.47	463	2	0.02	12	400	9	0.02	<2	4	19
CC136458		<10	<1	0.09	10	0.37	283	3	0.02	8	610	4	0.03	<2	3	22
CC136459		10	<1	0.13	30	0.55	466	2	0.02	10	610	8	0.02	<2	7	28
CC136460		<10	<1	0.08	10	0.38	272	1	0.01	12	370	7	0.02	<2	4	14



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Project: Wolverine- BBB

**CERTIFICATE OF ANALYSIS WH11120314**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC136435		<20	0.09	<10	<10	72	<10	55
CC136436		<20	0.15	<10	<10	77	<10	59
CC136437		<20	0.04	<10	<10	38	<10	32
CC136438		<20	0.09	<10	<10	60	<10	51
CC136439		<20	0.08	<10	<10	54	<10	55
CC136440		<20	0.06	<10	<10	45	<10	33
CC136441		<20	0.08	<10	<10	58	<10	56
CC136442		<20	0.07	<10	<10	55	<10	49
CC136443		<20	0.06	<10	<10	65	<10	72
CC136444		<20	0.07	<10	<10	59	<10	48
CC136445		20	0.06	<10	<10	71	<10	67
CC136446		<20	0.07	<10	<10	48	<10	43
CC136447		<20	0.11	<10	<10	70	<10	53
CC136448		<20	0.10	<10	<10	59	<10	48
CC136449		<20	0.11	<10	<10	70	<10	52
CC136450		<20	0.09	<10	<10	63	<10	56
CC136451		20	0.31	<10	<10	107	<10	71
CC136452		<20	0.08	<10	<10	55	<10	39
CC136453		<20	0.13	<10	<10	77	<10	57
CC136454		<20	0.08	<10	<10	53	<10	46
CC136455		<20	0.10	<10	<10	72	<10	48
CC136456		<20	0.07	<10	<10	46	<10	35
CC136457		<20	0.10	<10	<10	61	<10	49
CC136458		<20	0.08	<10	<10	44	<10	38
CC136459		<20	0.09	<10	<10	59	<10	55
CC136460		<20	0.07	<10	<10	59	<10	42



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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

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**CERTIFICATE WH11120315**

Project: Wolverine - BBB  
 P.O. No.:  
 This report is for 227 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28-JUN- 2011.  
 The following have access to data associated with this certificate:  
 JOAN MARIACHER                      HEATHER SMITH

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Wolverine - BBB

**CERTIFICATE OF ANALYSIS WH11120315**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC131036		0.30	<0.001	<0.2	1.77	8	<10	120	<0.5	<2	0.24	<0.5	41	386	20	3.35
CC131037		0.28	<0.001	<0.2	1.56	5	<10	120	<0.5	<2	0.20	<0.5	45	329	21	2.94
CC131038		0.26	<0.001	<0.2	1.45	8	<10	130	<0.5	<2	0.21	<0.5	23	94	16	2.64
CC131039		0.26	<0.001	<0.2	1.38	4	<10	130	<0.5	<2	0.19	<0.5	26	108	20	2.67
CC131040		0.43	<0.001	<0.2	1.34	2	<10	110	<0.5	<2	0.25	<0.5	15	79	16	2.46
CC131111		0.34	<0.001	<0.2	1.57	16	<10	110	0.7	<2	0.41	<0.5	16	24	34	3.28
CC131112		0.38	0.002	<0.2	1.92	32	<10	90	0.6	<2	0.14	<0.5	15	41	28	3.92
CC131113		0.28	NSS	0.5	2.67	98	<10	360	1.3	<2	0.87	<0.5	19	55	88	4.14
CC131114		0.28	<0.001	<0.2	1.19	31	<10	100	<0.5	<2	0.56	<0.5	12	34	22	2.79
CC131115		0.21	<0.001	<0.2	0.91	34	<10	90	<0.5	<2	0.71	<0.5	11	27	18	2.27
CC131116		0.22	0.001	<0.2	1.69	21	<10	130	0.6	<2	0.89	<0.5	16	111	35	2.82
CC131222		0.21	0.005	<0.2	1.50	10	<10	100	0.7	<2	0.25	<0.5	10	32	19	2.52
CC131223		0.22	0.001	<0.2	1.67	29	<10	100	0.8	<2	0.16	<0.5	15	33	20	3.00
CC131224		0.21	0.002	<0.2	1.59	42	<10	100	0.6	<2	0.18	<0.5	11	29	17	3.13
CC131225		0.16	0.027	<0.2	1.76	85	<10	100	0.6	<2	0.22	<0.5	14	43	20	3.12
CC131226		0.21	0.004	<0.2	1.45	78	<10	80	0.8	<2	0.11	<0.5	21	30	31	4.31
CC131227		0.27	0.003	<0.2	1.52	33	<10	80	0.6	<2	0.15	<0.5	13	29	21	3.01
CC131228		0.11	0.001	<0.2	1.39	36	<10	90	<0.5	<2	0.18	<0.5	11	28	16	2.55
CC131229		0.08	0.133	0.4	1.42	854	<10	130	0.6	<2	0.16	<0.5	8	30	23	3.15
CC131230		0.16	0.039	0.2	1.45	358	<10	80	0.5	<2	0.21	<0.5	8	31	16	2.87
CC131232		0.16	0.016	0.7	2.16	128	<10	170	1.5	<2	0.27	<0.5	26	82	71	4.19
CC131233		0.16	0.003	0.2	2.12	61	<10	150	0.7	<2	0.44	<0.5	20	149	44	3.80
CC131234		0.18	0.004	<0.2	1.82	29	<10	130	0.5	<2	0.35	<0.5	15	138	31	3.52
CC131235		0.16	<0.001	<0.2	1.68	21	<10	100	<0.5	<2	0.24	<0.5	12	57	19	2.86
CC131236		0.26	<0.001	<0.2	1.56	39	<10	100	0.9	<2	0.27	<0.5	13	44	14	2.61
CC131237		0.18	<0.001	<0.2	2.05	96	<10	110	1.1	<2	0.31	<0.5	19	84	25	3.70
CC131238		0.15	0.019	0.7	2.17	223	<10	100	1.9	<2	0.52	<0.5	32	168	47	6.03
CC131255		0.11	<0.001	<0.2	1.00	20	<10	80	<0.5	<2	0.13	<0.5	8	21	11	2.04
CC131256		0.12	<0.001	<0.2	0.61	11	<10	50	<0.5	<2	0.19	<0.5	7	10	12	1.67
CC131257		0.17	0.003	<0.2	1.77	67	<10	140	0.6	<2	0.24	<0.5	17	30	32	3.86
CC131258		0.17	0.001	<0.2	2.47	16	<10	190	1.0	<2	0.39	<0.5	16	42	35	4.36
CC131291		0.31	<0.001	<0.2	0.75	5	<10	50	<0.5	<2	0.20	<0.5	6	13	6	1.33
CC131292		0.30	0.001	<0.2	0.96	32	<10	70	<0.5	<2	0.25	<0.5	4	18	12	1.90
CC131293		0.22	<0.001	<0.2	0.94	9	<10	60	<0.5	<2	0.22	<0.5	5	16	7	1.66
CC131355		0.21	<0.001	<0.2	1.05	6	<10	100	0.7	<2	0.12	<0.5	15	14	21	3.18
CC131356		0.25	<0.001	0.4	1.30	12	<10	60	0.5	<2	0.17	<0.5	7	25	19	3.18
CC131357		0.21	<0.001	<0.2	1.70	15	<10	100	1.1	<2	0.17	<0.5	13	22	29	4.80
CC131501		0.19	<0.001	0.2	3.12	13	<10	310	0.5	<2	0.33	<0.5	13	24	32	4.68
CC131502		0.21	<0.001	0.3	1.85	9	<10	160	<0.5	<2	0.17	<0.5	7	19	31	2.95
CC131503		0.22	<0.001	<0.2	2.22	8	<10	280	<0.5	2	0.31	<0.5	8	20	12	3.28





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Project: Wolverine - BBB

**CERTIFICATE OF ANALYSIS WH11120315**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC131036		<10	<1	0.05	10	4.11	626	<1	0.03	590	290	5	0.02	2	6	23
CC131037		<10	<1	0.05	10	3.95	490	<1	0.02	578	180	5	0.01	<2	6	17
CC131038		<10	<1	0.05	10	1.58	391	<1	0.02	229	260	5	0.01	<2	4	19
CC131039		<10	<1	0.05	10	1.67	465	<1	0.02	214	270	5	0.01	<2	4	18
CC131040		<10	<1	0.03	10	1.38	272	<1	0.02	203	520	4	0.01	<2	3	17
CC131111		10	<1	0.09	10	0.25	430	3	0.01	45	1350	13	0.01	<2	5	26
CC131112		10	<1	0.08	10	0.42	413	<1	0.01	40	510	5	0.02	2	5	21
CC131113		10	4	0.18	30	0.35	1860	1	0.02	61	1080	10	0.13	4	12	88
CC131114		<10	<1	0.05	10	0.42	342	<1	0.02	24	790	6	0.02	<2	4	38
CC131115		<10	<1	0.04	10	0.31	281	1	0.02	19	900	4	0.04	<2	3	42
CC131116		10	1	0.05	10	0.79	282	<1	0.02	79	950	8	0.03	2	7	54
CC131222		10	<1	0.16	20	0.53	273	<1	0.01	23	470	11	0.01	2	4	19
CC131223		10	<1	0.13	20	0.59	487	<1	0.01	30	300	11	0.01	2	4	13
CC131224		10	<1	0.09	10	0.39	202	<1	0.01	21	390	12	0.01	2	3	18
CC131225		10	<1	0.22	20	0.72	394	<1	0.02	29	550	9	0.01	2	4	17
CC131226		<10	<1	0.11	30	0.40	559	<1	0.01	38	390	18	0.04	5	4	14
CC131227		10	<1	0.09	10	0.43	301	<1	0.01	25	450	10	0.02	2	3	15
CC131228		10	<1	0.08	10	0.39	264	<1	0.01	22	430	7	0.02	<2	3	14
CC131229		<10	1	0.19	20	0.27	166	<1	0.01	18	610	13	0.27	16	3	24
CC131230		10	1	0.11	20	0.42	161	<1	0.01	18	650	13	0.02	9	3	15
CC131232		10	<1	0.15	20	0.58	1190	1	0.02	48	1000	12	0.05	2	12	29
CC131233		10	<1	0.12	20	1.23	528	1	0.02	65	720	10	0.03	2	7	40
CC131234		10	1	0.11	10	1.34	307	<1	0.02	52	420	7	0.01	2	6	28
CC131235		10	<1	0.06	10	0.69	257	<1	0.01	30	260	7	0.01	<2	4	20
CC131236		10	<1	0.06	20	0.74	562	1	0.01	43	560	18	<0.01	5	3	22
CC131237		10	<1	0.07	30	1.12	761	<1	0.01	58	600	13	0.01	4	5	26
CC131238		10	<1	0.12	30	1.48	1350	1	0.01	152	1160	35	0.06	11	10	45
CC131255		<10	1	0.04	10	0.23	218	<1	0.03	13	350	7	0.01	<2	2	14
CC131256		<10	<1	0.04	10	0.13	149	<1	0.03	7	560	6	0.02	<2	1	17
CC131257		10	<1	0.11	20	0.74	461	1	0.02	21	530	9	0.07	2	7	32
CC131258		10	1	0.12	20	0.70	563	<1	0.02	34	900	9	0.01	<2	5	30
CC131291		<10	<1	0.05	10	0.22	207	<1	0.01	9	590	3	<0.01	<2	1	12
CC131292		<10	<1	0.07	10	0.25	140	<1	<0.01	14	430	8	<0.01	<2	2	13
CC131293		<10	<1	0.06	10	0.25	151	<1	<0.01	12	590	4	<0.01	<2	2	12
CC131355		<10	<1	0.14	20	0.11	539	<1	<0.01	15	470	25	<0.01	<2	3	20
CC131356		10	<1	0.15	10	0.33	306	<1	0.01	16	440	11	0.01	<2	2	16
CC131357		<10	<1	0.18	20	0.28	491	<1	<0.01	22	580	24	0.03	<2	6	25
CC131501		10	<1	0.22	10	0.96	614	<1	0.01	14	400	11	0.01	<2	7	30
CC131502		10	<1	0.06	10	0.45	193	<1	0.02	11	200	8	0.01	<2	2	18
CC131503		10	<1	0.11	10	0.71	304	<1	0.01	11	160	8	<0.01	<2	4	24

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Wolverine - BBB

**CERTIFICATE OF ANALYSIS WH11120315**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm
		20	0.01	10	10	1	10	2
CC131036	<20	0.08	<10	<10	50	<10	48	
CC131037	<20	0.07	<10	<10	42	<10	42	
CC131038	<20	0.07	<10	<10	46	<10	42	
CC131039	<20	0.08	<10	<10	46	<10	41	
CC131040	<20	0.07	<10	<10	45	<10	35	
CC131111	<20	0.01	<10	<10	44	<10	75	
CC131112	<20	0.06	<10	<10	64	<10	59	
CC131113	<20	0.01	<10	<10	58	<10	54	
CC131114	<20	0.05	<10	<10	53	<10	50	
CC131115	<20	0.03	<10	<10	41	<10	56	
CC131116	<20	0.04	<10	<10	64	<10	75	
CC131222	<20	0.07	<10	<10	41	<10	52	
CC131223	<20	0.07	<10	<10	47	<10	58	
CC131224	<20	0.06	<10	<10	53	<10	50	
CC131225	<20	0.10	<10	<10	50	<10	58	
CC131226	<20	0.04	<10	<10	40	<10	79	
CC131227	<20	0.05	<10	<10	47	<10	57	
CC131228	<20	0.07	<10	<10	48	<10	43	
CC131229	<20	0.03	<10	<10	40	<10	41	
CC131230	<20	0.04	<10	<10	41	<10	43	
CC131232	<20	0.03	<10	<10	66	<10	51	
CC131233	<20	0.06	<10	<10	74	<10	64	
CC131234	<20	0.10	<10	<10	103	<10	49	
CC131235	<20	0.06	<10	<10	67	<10	42	
CC131236	<20	0.02	<10	<10	35	<10	61	
CC131237	<20	0.03	<10	<10	51	<10	63	
CC131238	<20	0.01	<10	<10	61	<10	128	
CC131255	<20	0.06	<10	<10	47	<10	39	
CC131256	<20	0.06	<10	<10	44	<10	29	
CC131257	<20	0.04	<10	<10	71	<10	49	
CC131258	<20	0.04	<10	<10	70	<10	71	
CC131291	<20	0.04	<10	<10	26	<10	22	
CC131292	<20	0.04	<10	<10	36	<10	32	
CC131293	<20	0.04	<10	<10	31	<10	23	
CC131355	<20	0.01	<10	<10	32	<10	51	
CC131356	<20	0.07	<10	<10	54	<10	51	
CC131357	<20	0.02	<10	<10	48	<10	91	
CC131501	<20	0.23	<10	<10	108	<10	68	
CC131502	<20	0.16	<10	<10	75	<10	63	
CC131503	<20	0.13	<10	<10	76	<10	58	



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To: ARCHER, CATHRO AND ASSOCIATES (1981)  
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**CERTIFICATE OF ANALYSIS WH11120315**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC131504		0.26	<0.001	<0.2	2.59	6	<10	270	<0.5	<2	0.30	<0.5	11	19	12	3.69
CC131505		0.21	0.001	<0.2	2.68	8	<10	280	<0.5	2	0.19	<0.5	11	26	16	4.22
CC131506		0.25	0.002	0.3	1.93	13	<10	210	<0.5	<2	0.14	<0.5	9	23	16	3.03
CC131507		0.38	<0.001	<0.2	3.53	7	<10	290	0.7	<2	0.26	<0.5	14	16	15	4.47
CC131508		0.28	0.001	<0.2	1.61	11	<10	140	0.5	<2	0.25	<0.5	8	20	14	2.77
CC131509		0.32	<0.001	<0.2	2.41	16	<10	150	<0.5	<2	0.19	<0.5	9	27	18	3.41
CC131510		0.23	<0.001	<0.2	2.58	7	<10	470	3.4	<2	0.98	<0.5	26	358	67	4.31
CC131511		0.24	<0.001	<0.2	1.87	11	<10	180	<0.5	<2	0.21	<0.5	8	34	17	2.90
CC131512		0.29	<0.001	0.2	2.09	17	<10	220	0.5	5	0.21	<0.5	8	25	23	2.79
CC131513		0.23	0.002	0.4	2.16	13	<10	180	0.5	2	0.18	<0.5	9	31	20	3.01
CC131514		0.31	<0.001	<0.2	2.31	15	<10	250	0.6	<2	0.24	<0.5	10	32	30	2.76
CC131515		0.28	<0.001	0.2	2.53	13	<10	190	0.5	<2	0.24	<0.5	11	29	25	3.26
CC131516		0.26	<0.001	0.2	2.88	12	<10	220	0.5	2	0.40	<0.5	10	24	23	3.11
CC131517		0.24	<0.001	<0.2	2.99	9	<10	170	0.5	2	0.42	<0.5	10	23	24	2.89
CC131518		0.30	<0.001	<0.2	2.57	10	<10	210	0.5	<2	0.39	<0.5	10	13	11	2.76
CC131519		0.21	<0.001	<0.2	3.01	16	<10	190	0.5	<2	0.29	<0.5	10	26	28	3.87
CC131520		0.23	<0.001	0.2	2.78	11	<10	170	<0.5	2	0.26	<0.5	8	22	15	3.76
CC131521		0.45	0.003	<0.2	1.46	6	<10	310	0.7	2	0.44	<0.5	7	18	13	3.22
CC131522		0.49	0.008	<0.2	1.68	9	<10	360	0.5	<2	0.32	<0.5	8	23	15	2.46
CC131523		0.33	0.004	<0.2	2.66	9	<10	230	0.6	<2	0.23	<0.5	7	29	26	3.28
CC131524		0.29	0.001	0.3	1.35	9	<10	100	<0.5	<2	0.17	<0.5	3	17	10	2.11
CC131525		0.32	0.001	0.2	1.36	7	<10	160	<0.5	<2	0.18	<0.5	4	18	16	2.03
CC131526		0.42	0.004	0.2	1.21	10	<10	120	<0.5	<2	0.15	<0.5	5	17	11	2.28
CC131527		0.38	0.002	0.2	1.81	11	<10	400	0.6	<2	0.42	<0.5	8	25	19	2.82
CC131528		0.40	0.003	0.2	1.32	11	<10	180	<0.5	2	0.21	<0.5	6	22	13	2.78
CC131529		0.35	0.003	0.2	1.46	6	<10	230	<0.5	3	0.43	<0.5	6	20	11	2.42
CC131530		0.39	0.002	<0.2	2.52	12	<10	300	0.6	<2	0.28	<0.5	10	26	16	3.32
CC131531		0.33	0.004	0.3	2.82	10	<10	160	0.6	<2	0.28	<0.5	10	36	19	3.33
CC131532		0.33	0.002	<0.2	1.73	11	<10	120	<0.5	<2	0.16	<0.5	7	24	16	2.74
CC131533		0.31	0.001	<0.2	2.90	11	<10	230	0.8	<2	0.14	<0.5	14	20	12	4.11
CC131534		0.39	0.002	<0.2	3.18	12	<10	210	0.7	<2	0.22	<0.5	14	36	19	3.62
CC131535		0.40	0.003	<0.2	1.95	9	<10	240	0.6	<2	0.26	<0.5	8	21	13	2.77
CC131536		0.39	0.002	<0.2	2.13	12	<10	170	<0.5	<2	0.16	<0.5	6	24	15	2.97
CC131537		0.35	0.001	<0.2	2.65	13	<10	160	0.5	<2	0.21	<0.5	13	27	16	3.25
CC131538		0.53	0.002	<0.2	2.14	9	<10	260	0.6	<2	0.29	<0.5	8	25	18	2.99
CC131539		0.38	0.002	<0.2	2.15	9	<10	230	0.5	<2	0.33	<0.5	8	26	16	2.91
CC131540		0.40	0.004	<0.2	2.46	10	<10	240	0.6	<2	0.32	<0.5	10	28	20	3.13
CC131541		0.38	0.006	<0.2	1.96	8	<10	210	0.5	<2	0.37	<0.5	8	28	19	2.63
CC131542		0.37	0.003	<0.2	1.80	12	<10	180	<0.5	<2	0.36	<0.5	8	26	18	2.42
CC131543		0.35	0.004	<0.2	1.72	12	<10	110	<0.5	<2	0.24	<0.5	5	26	21	2.89



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**CERTIFICATE OF ANALYSIS WH11120315**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC131504		10	<1	0.14	10	0.84	423	<1	0.01	10	190	9	<0.01	<2	5	24
CC131505		10	<1	0.12	10	0.81	354	<1	0.01	13	230	10	0.01	<2	5	19
CC131506		10	<1	0.05	10	0.47	452	<1	0.01	12	180	9	<0.01	<2	3	13
CC131507		10	<1	0.19	20	0.93	574	<1	0.01	8	360	12	<0.01	<2	14	24
CC131508		10	<1	0.16	20	0.57	522	<1	0.01	10	480	8	<0.01	<2	4	21
CC131509		10	<1	0.19	10	0.67	315	<1	0.01	15	350	10	0.01	<2	5	19
CC131510		10	<1	0.46	20	2.99	736	1	0.03	170	3590	7	0.01	<2	13	123
CC131511		10	<1	0.25	20	0.60	279	<1	0.01	19	410	7	0.01	<2	4	18
CC131512		10	<1	0.11	10	0.46	344	<1	0.01	17	220	16	0.01	<2	4	20
CC131513		10	<1	0.07	10	0.49	285	<1	0.01	17	150	15	<0.01	<2	3	19
CC131514		<10	<1	0.11	10	0.62	400	<1	0.01	22	180	10	<0.01	<2	5	22
CC131515		10	<1	0.13	10	0.61	388	<1	0.01	21	350	9	0.01	<2	5	22
CC131516		10	<1	0.15	10	0.65	441	<1	0.01	16	370	13	0.01	<2	4	34
CC131517		10	<1	0.10	10	0.59	382	<1	0.01	14	310	20	0.01	<2	4	47
CC131518		10	<1	0.13	10	0.74	423	<1	0.01	6	220	12	<0.01	<2	5	43
CC131519		10	<1	0.11	10	0.59	347	<1	0.01	17	340	11	0.01	<2	5	31
CC131520		10	<1	0.11	10	0.52	331	<1	0.01	13	330	9	0.02	<2	4	27
CC131521		<10	<1	0.18	40	0.53	412	1	0.01	8	690	7	0.02	<2	11	26
CC131522		<10	<1	0.10	20	0.51	433	<1	0.01	12	590	7	0.01	<2	6	24
CC131523		10	<1	0.17	10	0.56	342	<1	0.01	16	420	9	0.01	<2	6	19
CC131524		10	<1	0.05	10	0.19	137	1	<0.01	6	310	9	<0.01	<2	2	18
CC131525		<10	<1	0.07	10	0.32	184	<1	0.01	8	260	7	<0.01	<2	3	16
CC131526		10	<1	0.06	10	0.32	204	<1	0.01	7	270	7	0.01	<2	3	13
CC131527		10	<1	0.10	20	0.58	376	<1	0.01	14	570	8	0.01	<2	6	28
CC131528		10	<1	0.08	10	0.44	311	<1	0.01	10	250	8	<0.01	<2	4	15
CC131529		<10	<1	0.09	10	0.62	329	<1	0.01	9	470	15	0.01	<2	5	24
CC131530		10	<1	0.12	20	0.61	468	<1	0.01	17	430	12	0.01	<2	6	20
CC131531		10	<1	0.12	10	0.67	357	<1	0.01	18	530	10	0.01	<2	5	25
CC131532		10	<1	0.07	10	0.43	256	1	0.02	15	380	8	0.02	<2	3	14
CC131533		10	<1	0.15	20	0.55	603	<1	0.02	12	510	15	0.02	3	7	14
CC131534		10	<1	0.13	10	0.79	489	<1	0.02	21	320	8	0.01	<2	6	23
CC131535		10	<1	0.11	10	0.46	501	<1	0.02	12	430	8	0.01	<2	6	20
CC131536		10	<1	0.08	10	0.41	274	1	0.02	12	370	6	0.02	<2	4	17
CC131537		10	<1	0.14	10	0.63	564	<1	0.02	17	470	9	0.02	<2	6	16
CC131538		10	<1	0.08	20	0.65	371	<1	0.02	13	550	6	0.01	<2	6	20
CC131539		10	<1	0.10	10	0.68	395	<1	0.02	14	550	6	0.01	<2	5	21
CC131540		10	<1	0.09	10	0.67	445	<1	0.02	17	490	6	0.01	<2	6	22
CC131541		10	<1	0.09	20	0.64	335	<1	0.02	17	680	5	0.01	<2	6	23
CC131542		10	<1	0.09	10	0.51	349	<1	0.02	20	660	5	0.01	<2	4	20
CC131543		10	<1	0.06	10	0.42	188	<1	0.02	14	340	8	0.01	<2	3	23

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH11120315**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm
		20	0.01	10	10	1	10	2
CC131504	<20	0.16	<10	<10	84	<10	72	
CC131505	<20	0.20	<10	<10	105	<10	92	
CC131506	<20	0.10	<10	<10	74	<10	65	
CC131507	20	0.05	<10	<10	95	<10	67	
CC131508	<20	0.14	<10	<10	65	<10	50	
CC131509	<20	0.14	<10	<10	73	<10	58	
CC131510	<20	0.32	<10	<10	121	<10	83	
CC131511	<20	0.16	<10	<10	61	<10	52	
CC131512	<20	0.07	<10	<10	57	<10	49	
CC131513	<20	0.10	<10	<10	67	<10	62	
CC131514	<20	0.10	<10	<10	55	<10	55	
CC131515	<20	0.11	<10	<10	66	<10	52	
CC131516	<20	0.15	<10	<10	66	<10	50	
CC131517	<20	0.13	<10	<10	66	<10	50	
CC131518	<20	0.04	<10	<10	54	<10	45	
CC131519	<20	0.14	<10	<10	87	<10	57	
CC131520	<20	0.09	<10	<10	84	<10	55	
CC131521	20	0.11	<10	<10	64	<10	54	
CC131522	<20	0.08	<10	<10	51	<10	41	
CC131523	<20	0.10	<10	<10	68	<10	64	
CC131524	<20	0.08	<10	<10	63	<10	27	
CC131525	<20	0.08	<10	<10	49	<10	31	
CC131526	<20	0.09	<10	<10	60	<10	31	
CC131527	<20	0.09	<10	<10	61	<10	45	
CC131528	<20	0.10	<10	<10	65	<10	42	
CC131529	<20	0.08	<10	<10	57	<10	48	
CC131530	<20	0.09	<10	<10	70	<10	52	
CC131531	<20	0.13	<10	<10	70	<10	55	
CC131532	<20	0.09	<10	<10	64	<10	42	
CC131533	<20	0.03	<10	<10	77	<10	60	
CC131534	<20	0.11	<10	<10	77	<10	63	
CC131535	<20	0.06	<10	<10	57	<10	47	
CC131536	<20	0.09	<10	<10	74	<10	46	
CC131537	<20	0.10	<10	<10	68	<10	60	
CC131538	<20	0.08	<10	<10	68	<10	51	
CC131539	<20	0.11	<10	<10	69	<10	54	
CC131540	<20	0.07	<10	<10	67	<10	55	
CC131541	<20	0.09	<10	<10	61	<10	51	
CC131542	<20	0.09	<10	<10	53	<10	47	
CC131543	<20	0.11	<10	<10	78	<10	40	



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC131544		0.38	0.003	<0.2	1.60	8	<10	140	<0.5	<2	0.25	<0.5	6	19	14	2.27
CC131545		0.39	0.003	<0.2	1.85	11	<10	160	<0.5	<2	0.35	<0.5	6	26	13	2.57
CC131546		0.42	0.002	<0.2	2.15	8	<10	200	0.6	<2	0.50	<0.5	7	27	21	2.73
CC131547		0.28	0.001	<0.2	1.63	9	<10	180	<0.5	<2	0.53	<0.5	7	24	26	2.69
CC131548		0.38	0.001	<0.2	2.05	10	<10	170	0.5	<2	0.52	<0.5	8	24	23	2.65
CC131549		0.45	0.001	<0.2	1.96	12	<10	150	<0.5	<2	0.32	<0.5	9	27	21	2.94
CC131550		0.35	0.001	<0.2	1.95	12	<10	180	0.5	<2	0.33	<0.5	7	28	19	2.75
CC131561		0.36	<0.001	<0.2	2.38	5	<10	330	0.6	<2	0.25	<0.5	10	14	16	3.53
CC131562		0.21	0.002	0.2	2.32	10	<10	110	<0.5	<2	0.13	<0.5	6	21	18	3.51
CC131563		0.38	0.002	<0.2	1.81	10	<10	120	<0.5	<2	0.21	<0.5	8	27	14	2.61
CC131564		0.40	0.003	<0.2	2.13	9	<10	190	0.5	<2	0.37	<0.5	9	30	16	3.06
CC131565		0.27	<0.001	0.2	1.16	6	<10	220	<0.5	<2	0.66	<0.5	10	13	15	1.66
CC131566		0.28	<0.001	<0.2	2.77	10	<10	230	<0.5	<2	0.19	<0.5	11	24	16	4.25
CC131567		0.40	0.001	<0.2	1.19	5	<10	120	<0.5	<2	0.24	<0.5	4	14	9	1.62
CC131568		0.42	0.001	<0.2	1.38	9	<10	160	<0.5	<2	0.25	<0.5	7	18	13	2.05
CC131569		0.47	0.001	<0.2	1.89	9	<10	180	<0.5	<2	0.31	<0.5	7	27	13	2.66
CC131570		0.50	0.003	<0.2	1.81	10	<10	200	<0.5	<2	0.39	<0.5	8	24	14	2.86
CC131581		0.36	0.003	<0.2	2.01	13	<10	180	<0.5	<2	0.24	<0.5	8	31	18	2.83
CC131582		0.38	0.004	<0.2	1.94	14	<10	330	0.5	<2	0.29	<0.5	10	26	22	3.14
CC131583		0.29	0.008	<0.2	1.86	12	<10	110	<0.5	<2	0.18	<0.5	8	24	16	2.48
CC131584		0.31	0.002	<0.2	1.26	8	<10	370	0.8	<2	0.28	<0.5	8	13	15	3.03
CC131585		0.31	0.003	<0.2	1.62	8	<10	380	0.8	<2	0.26	<0.5	10	17	18	3.38
CC131586		0.37	0.004	<0.2	2.33	10	<10	200	0.5	<2	0.20	<0.5	10	26	34	3.01
CC131587		0.26	0.002	<0.2	1.90	9	<10	150	0.5	<2	0.19	<0.5	6	22	25	2.89
CC131588		Destroyed														
CC131589		0.36	0.003	<0.2	1.57	12	<10	180	<0.5	<2	0.22	<0.5	8	21	18	2.68
CC131590		0.22	0.002	<0.2	1.91	8	<10	140	<0.5	<2	0.15	<0.5	6	22	22	2.69
CC131591		0.26	0.001	<0.2	1.87	7	<10	340	0.5	<2	0.25	<0.5	10	17	13	3.15
CC131592		0.33	0.003	<0.2	2.97	7	<10	220	0.7	<2	0.28	<0.5	12	27	17	3.73
CC131593		0.23	0.002	<0.2	1.56	8	<10	200	<0.5	<2	0.38	<0.5	6	22	20	2.33
CC131594		0.30	0.001	<0.2	1.88	7	<10	230	<0.5	<2	0.35	<0.5	8	21	12	2.78
CC131595		0.32	<0.001	<0.2	1.61	7	<10	130	<0.5	<2	0.23	<0.5	7	23	11	2.74
CC131596		0.33	0.002	<0.2	1.67	6	<10	240	0.5	<2	0.41	<0.5	8	18	16	2.67
CC131597		0.36	0.011	<0.2	1.73	5	<10	210	<0.5	<2	0.36	<0.5	7	23	15	2.63
CC131598		Destroyed														
CC131599		0.24	0.003	<0.2	2.09	6	<10	170	<0.5	<2	0.25	<0.5	7	25	15	2.94
CC131600		0.25	0.002	<0.2	1.99	12	<10	200	<0.5	<2	0.38	<0.5	7	27	17	2.93
CC131611		0.33	0.001	<0.2	2.35	7	<10	230	0.6	<2	0.26	<0.5	11	26	13	3.36
CC131612		0.41	0.004	<0.2	2.55	5	<10	290	0.6	<2	0.32	<0.5	11	30	22	3.46
CC131613		0.37	0.004	<0.2	2.07	8	<10	160	0.5	<2	0.23	<0.5	9	30	18	2.85

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ARCHER, CATHRO AND ASSOCIATES (1981)  
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**CERTIFICATE OF ANALYSIS WH11120315**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC131544		10	<1	0.07	10	0.40	246	<1	0.03	11	370	11	0.01	<2	3	19
CC131545		10	<1	0.07	20	0.49	257	<1	0.02	12	410	8	0.02	<2	4	21
CC131546		10	<1	0.08	20	0.64	326	<1	0.02	17	770	5	0.03	<2	5	31
CC131547		10	<1	0.05	10	0.47	333	<1	0.03	11	1110	6	0.05	<2	3	35
CC131548		10	<1	0.08	20	0.62	395	<1	0.02	14	760	6	0.02	<2	5	38
CC131549		10	<1	0.10	10	0.60	357	<1	0.02	16	520	6	0.01	<2	4	23
CC131550		10	<1	0.09	20	0.56	354	<1	0.02	16	500	7	0.02	<2	4	22
CC131561		10	<1	0.38	20	0.86	428	<1	0.04	8	380	7	0.01	<2	6	22
CC131562		10	<1	0.08	10	0.47	210	1	0.03	11	250	9	0.01	<2	5	16
CC131563		<10	<1	0.10	10	0.45	267	<1	0.02	16	440	6	0.01	<2	3	15
CC131564		10	<1	0.11	10	0.64	485	<1	0.02	15	450	7	0.01	<2	5	25
CC131565		<10	<1	0.05	40	0.28	1245	<1	0.04	6	1390	2	0.09	<2	3	44
CC131566		10	<1	0.09	10	0.89	581	1	0.03	13	250	10	0.02	<2	5	16
CC131567		<10	<1	0.07	10	0.31	179	2	0.03	8	390	4	0.02	<2	2	19
CC131568		10	<1	0.06	10	0.38	339	<1	0.02	10	370	3	0.01	<2	3	18
CC131569		10	<1	0.08	10	0.55	324	<1	0.02	13	290	6	0.01	<2	4	23
CC131570		10	<1	0.08	10	0.58	444	1	0.02	11	350	6	0.01	<2	4	25
CC131581		10	<1	0.12	10	0.53	320	<1	0.02	16	430	6	0.01	<2	5	19
CC131582		10	<1	0.19	20	0.70	555	<1	0.03	14	500	10	0.01	<2	6	21
CC131583		<10	<1	0.08	10	0.37	210	<1	0.02	17	440	5	0.01	<2	3	15
CC131584		<10	<1	0.11	30	0.28	592	2	0.02	7	390	11	0.01	<2	9	19
CC131585		10	<1	0.14	30	0.46	742	<1	0.02	10	550	10	0.01	<2	9	19
CC131586		10	<1	0.17	10	0.56	361	<1	0.02	16	400	6	0.01	<2	6	18
CC131587		10	<1	0.11	10	0.43	296	1	0.02	12	400	9	0.01	<2	4	18
CC131588																
CC131589		<10	1	0.12	10	0.45	394	<1	0.02	15	400	13	<0.01	<2	5	18
CC131590		10	1	0.06	10	0.28	319	<1	0.02	12	410	11	0.01	<2	3	14
CC131591		10	1	0.27	20	0.62	512	<1	0.02	10	450	9	0.01	<2	7	21
CC131592		10	1	0.14	20	0.79	496	<1	0.02	17	410	11	0.01	<2	7	22
CC131593		10	1	0.08	20	0.46	258	<1	0.02	12	410	8	0.02	<2	3	27
CC131594		10	1	0.09	20	0.61	337	<1	0.02	12	410	9	<0.01	<2	5	21
CC131595		10	<1	0.08	10	0.50	295	<1	0.01	13	310	8	0.01	<2	3	17
CC131596		10	<1	0.08	20	0.54	337	<1	0.02	11	380	10	<0.01	<2	5	23
CC131597		<10	1	0.08	10	0.52	357	<1	0.02	14	450	7	<0.01	<2	5	23
CC131598																
CC131599		10	1	0.07	10	0.58	297	<1	0.01	13	310	11	<0.01	<2	4	19
CC131600		10	<1	0.07	10	0.61	315	<1	0.02	13	390	10	0.01	<2	4	25
CC131611		10	<1	0.12	20	0.71	537	<1	0.02	13	450	14	0.01	<2	6	21
CC131612		10	<1	0.10	20	0.88	461	<1	0.02	16	530	11	<0.01	<2	8	23
CC131613		10	<1	0.07	10	0.55	309	<1	0.02	16	640	10	0.01	<2	4	18

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**CERTIFICATE OF ANALYSIS WH11120315**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC131544		<20	0.09	<10	<10	57	<10	40
CC131545		<20	0.10	<10	<10	67	<10	47
CC131546		<20	0.09	<10	<10	64	<10	52
CC131547		<20	0.06	<10	<10	64	<10	43
CC131548		<20	0.07	<10	<10	58	<10	49
CC131549		<20	0.14	<10	<10	69	<10	52
CC131550		<20	0.11	<10	<10	64	<10	55
CC131561		20	0.14	<10	<10	81	<10	62
CC131562		<20	0.15	<10	<10	93	<10	51
CC131563		<20	0.10	<10	<10	56	<10	45
CC131564		<20	0.13	<10	<10	75	<10	65
CC131565		<20	0.06	<10	<10	52	<10	40
CC131566		<20	0.15	<10	<10	101	<10	86
CC131567		<20	0.06	<10	<10	41	<10	35
CC131568		<20	0.07	<10	<10	49	<10	39
CC131569		<20	0.09	<10	<10	62	<10	50
CC131570		<20	0.09	<10	<10	67	<10	50
CC131581		<20	0.11	<10	<10	66	<10	55
CC131582		<20	0.14	<10	<10	74	<10	61
CC131583		<20	0.08	<10	<10	52	<10	38
CC131584		<20	0.03	<10	<10	57	<10	51
CC131585		20	0.09	<10	<10	67	<10	59
CC131586		<20	0.12	<10	<10	65	<10	51
CC131587		<20	0.10	<10	<10	68	<10	45
CC131588								
CC131589		<20	0.11	<10	<10	59	<10	48
CC131590		<20	0.09	<10	<10	55	<10	34
CC131591		<20	0.17	<10	<10	70	<10	51
CC131592		<20	0.14	<10	<10	83	<10	60
CC131593		<20	0.09	<10	<10	56	<10	48
CC131594		<20	0.10	<10	<10	63	<10	51
CC131595		<20	0.11	<10	<10	62	<10	53
CC131596		<20	0.08	<10	<10	62	<10	49
CC131597		<20	0.06	<10	<10	54	<10	48
CC131598								
CC131599		<20	0.10	<10	<10	71	<10	54
CC131600		<20	0.12	<10	<10	73	<10	61
CC131611		<20	0.11	<10	<10	71	<10	57
CC131612		<20	0.14	<10	<10	80	<10	61
CC131613		<20	0.09	<10	<10	62	<10	48





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**CERTIFICATE OF ANALYSIS WH11120315**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC131614		0.27	0.001	<0.2	1.96	8	<10	230	0.5	2	0.25	<0.5	8	24	15	3.38
CC131615		0.41	0.001	<0.2	2.71	7	<10	160	0.6	<2	0.18	<0.5	12	22	32	3.57
CC131616		0.35	0.001	<0.2	2.23	7	<10	210	<0.5	<2	0.29	<0.5	9	22	11	3.69
CC131617		0.38	0.001	<0.2	2.19	7	<10	220	0.7	<2	0.58	<0.5	10	13	11	3.27
CC131618		0.25	0.001	<0.2	1.91	6	<10	140	<0.5	<2	0.30	<0.5	8	23	17	2.40
CC131619		0.31	0.001	<0.2	1.81	4	<10	170	<0.5	<2	0.42	<0.5	8	21	11	2.62
CC131620		0.37	0.002	<0.2	1.49	4	<10	190	<0.5	<2	0.32	<0.5	6	19	8	2.21
CC131621		0.29	0.002	<0.2	1.72	8	<10	170	<0.5	<2	0.41	<0.5	7	23	17	2.75
CC131622		0.29	0.001	<0.2	1.51	6	<10	270	0.5	<2	0.45	<0.5	6	17	15	2.49
CC131623		0.29	0.002	<0.2	1.78	4	<10	270	0.5	<2	0.72	<0.5	8	19	18	2.79
CC131624		0.25	<0.001	<0.2	1.81	7	<10	270	<0.5	<2	0.28	<0.5	9	21	11	2.75
CC131625		0.31	0.001	<0.2	1.86	8	<10	280	0.6	<2	0.72	<0.5	10	18	17	3.04
CC131626		0.32	0.002	<0.2	1.79	7	<10	140	<0.5	<2	0.18	<0.5	8	22	13	2.62
CC131627		0.34	0.002	<0.2	1.46	3	<10	290	0.5	<2	0.49	<0.5	7	11	11	2.68
CC131628		0.27	0.001	<0.2	1.04	3	<10	170	<0.5	<2	0.40	<0.5	6	10	9	1.96
CC131629		0.19	0.002	<0.2	1.91	4	<10	310	<0.5	<2	0.62	<0.5	8	19	17	2.49
CC131630		0.41	0.002	<0.2	0.51	2	<10	80	<0.5	<2	0.36	<0.5	5	8	3	1.83
CC131631		0.32	0.002	<0.2	1.34	6	<10	220	<0.5	<2	0.31	<0.5	8	31	15	2.32
CC131632		0.28	0.006	<0.2	1.19	8	<10	200	<0.5	<2	0.23	<0.5	6	19	11	2.22
CC131633		0.42	<0.001	<0.2	1.61	8	<10	370	0.6	<2	0.30	<0.5	9	17	16	3.60
CC131634		0.24	<0.001	<0.2	1.05	4	<10	390	0.6	<2	0.81	<0.5	6	10	16	2.17
CC131635		0.38	0.001	<0.2	1.92	9	<10	350	0.5	<2	0.24	<0.5	9	20	16	3.24
CC131636		0.18	<0.001	<0.2	0.96	2	<10	120	<0.5	<2	0.26	<0.5	4	12	14	1.65
CC131637		0.45	0.008	<0.2	2.34	8	<10	180	0.5	<2	0.27	<0.5	9	29	19	3.02
CC131638		0.39	0.002	<0.2	2.20	8	<10	250	<0.5	<2	0.35	<0.5	9	29	21	3.41
CC131639		0.15	<0.001	<0.2	2.94	11	<10	160	0.5	<2	0.22	<0.5	10	42	17	3.84
CC131640		0.38	0.002	<0.2	3.23	12	<10	290	0.6	<2	0.26	<0.5	12	30	17	3.82
CC131641		0.23	<0.001	0.2	1.68	5	<10	220	0.5	<2	0.44	<0.5	5	13	13	1.84
CC131642		0.31	0.001	<0.2	1.47	4	<10	150	<0.5	<2	0.27	<0.5	5	16	15	2.37
CC131643		0.11	0.001	<0.2	1.74	6	<10	170	0.5	<2	0.21	<0.5	5	18	12	2.17
CC131644		0.11	0.010	<0.2	2.04	9	<10	200	0.6	<2	0.23	<0.5	8	29	13	2.88
CC131645		0.27	<0.001	<0.2	1.09	2	<10	230	<0.5	<2	0.31	<0.5	4	11	11	1.94
CC131646		0.40	<0.001	<0.2	1.69	5	<10	250	<0.5	<2	0.32	<0.5	11	21	17	3.01
CC131647		0.24	<0.001	<0.2	1.14	2	<10	200	<0.5	<2	0.55	<0.5	6	11	13	1.98
CC131648		0.34	<0.001	<0.2	1.31	<2	<10	230	<0.5	<2	0.85	<0.5	5	20	14	1.75
CC131649		0.33	0.002	<0.2	1.02	<2	<10	170	<0.5	<2	0.64	<0.5	4	21	14	1.32
CC131650		0.26	<0.001	<0.2	0.84	<2	<10	140	<0.5	<2	0.37	<0.5	4	15	15	1.04
CC131651		0.27	0.001	<0.2	2.68	8	<10	240	<0.5	<2	0.28	<0.5	11	27	16	2.96
CC131652		0.35	<0.001	<0.2	1.17	3	<10	170	<0.5	<2	0.52	<0.5	6	12	8	2.37
CC131653		0.26	<0.001	<0.2	1.24	3	<10	200	<0.5	<2	0.42	<0.5	6	14	10	2.07

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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC131614		10	1	0.09	20	0.67	429	<1	0.02	11	460	9	0.01	<2	5	20
CC131615		10	1	0.11	10	0.70	477	1	0.01	12	500	12	0.01	<2	5	15
CC131616		10	<1	0.21	10	0.80	394	<1	0.02	12	320	10	<0.01	<2	5	17
CC131617		10	1	0.11	30	0.81	722	<1	0.02	5	620	12	<0.01	<2	8	28
CC131618		10	<1	0.08	10	0.47	270	<1	0.02	14	560	8	0.01	<2	3	22
CC131619		10	1	0.07	10	0.55	399	<1	0.02	12	640	8	<0.01	<2	4	23
CC131620		<10	1	0.07	10	0.47	265	<1	0.02	9	340	7	<0.01	<2	4	19
CC131621		10	1	0.09	10	0.51	335	<1	0.02	12	390	8	0.01	<2	4	27
CC131622		10	1	0.10	30	0.42	364	<1	0.02	9	450	8	0.01	<2	4	29
CC131623		10	<1	0.11	30	0.59	423	<1	0.02	11	720	8	0.03	<2	9	33
CC131624		10	1	0.15	10	0.65	467	<1	0.02	11	430	9	<0.01	<2	5	18
CC131625		10	<1	0.16	30	0.61	551	<1	0.02	10	670	11	0.02	<2	8	32
CC131626		10	1	0.09	10	0.46	244	<1	0.02	13	310	9	0.01	<2	3	13
CC131627		10	<1	0.10	20	0.53	405	<1	0.02	5	820	8	0.01	<2	7	26
CC131628		<10	1	0.07	10	0.33	282	<1	0.02	4	680	6	0.01	<2	3	35
CC131629		10	1	0.11	20	0.52	399	<1	0.03	9	790	8	0.04	<2	5	52
CC131630		<10	<1	0.03	10	0.19	203	<1	0.01	4	860	4	<0.01	<2	2	14
CC131631		10	1	0.11	10	0.48	388	1	0.02	16	350	9	0.01	<2	3	23
CC131632		10	1	0.10	10	0.34	285	<1	0.02	10	240	9	<0.01	<2	3	19
CC131633		10	1	0.19	20	0.46	520	3	0.02	9	300	14	<0.01	<2	5	24
CC131634		<10	<1	0.20	20	0.33	394	1	0.03	6	550	8	0.05	<2	6	59
CC131635		10	1	0.22	10	0.51	374	2	0.02	12	310	9	<0.01	<2	5	20
CC131636		<10	<1	0.07	10	0.24	198	<1	0.02	8	280	5	0.01	2	3	17
CC131637		10	<1	0.13	10	0.59	317	<1	0.02	18	290	7	0.01	2	5	23
CC131638		10	<1	0.12	10	0.70	518	<1	0.02	15	330	9	0.01	<2	5	36
CC131639		10	<1	0.12	10	0.66	328	<1	0.02	21	310	9	0.01	2	5	24
CC131640		10	<1	0.10	10	0.75	381	<1	0.02	18	360	9	0.01	<2	4	26
CC131641		10	<1	0.10	30	0.33	376	<1	0.03	7	610	4	0.03	<2	4	32
CC131642		10	<1	0.06	20	0.44	244	<1	0.02	8	240	7	0.01	<2	3	21
CC131643		10	<1	0.09	20	0.34	195	<1	0.02	10	490	6	0.03	<2	4	18
CC131644		10	<1	0.10	10	0.53	291	<1	0.01	15	400	7	0.01	2	5	19
CC131645		<10	<1	0.08	10	0.23	266	<1	0.03	5	400	6	0.02	<2	3	20
CC131646		10	<1	0.17	10	0.53	1055	<1	0.01	9	310	9	0.01	<2	5	26
CC131647		<10	<1	0.07	30	0.30	405	<1	0.03	6	640	5	0.04	2	4	31
CC131648		<10	<1	0.07	20	0.47	171	<1	0.02	9	920	6	0.05	<2	4	38
CC131649		<10	<1	0.06	20	0.38	129	<1	0.02	9	780	4	0.04	<2	4	29
CC131650		<10	<1	0.06	20	0.27	110	<1	0.02	9	790	4	0.02	<2	3	18
CC131651		10	1	0.12	10	0.58	475	<1	0.02	16	450	6	0.02	<2	4	22
CC131652		<10	<1	0.07	20	0.42	373	<1	0.02	6	850	4	0.01	<2	4	26
CC131653		<10	<1	0.06	20	0.39	260	<1	0.02	7	750	4	0.02	<2	4	29

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**CERTIFICATE OF ANALYSIS WH11120315**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC131614		<20	0.13	<10	<10	78	<10	49
CC131615		<20	0.04	<10	<10	71	<10	49
CC131616		<20	0.21	<10	<10	86	<10	66
CC131617		20	0.03	<10	<10	62	<10	55
CC131618		<20	0.09	<10	<10	52	<10	44
CC131619		<20	0.07	<10	<10	57	<10	48
CC131620		<20	0.08	<10	<10	53	<10	41
CC131621		<20	0.10	<10	<10	68	<10	49
CC131622		<20	0.07	<10	<10	58	<10	45
CC131623		<20	0.06	<10	<10	59	<10	57
CC131624		<20	0.08	<10	<10	59	<10	51
CC131625		<20	0.06	<10	<10	64	<10	74
CC131626		<20	0.10	<10	<10	59	<10	43
CC131627		<20	0.06	<10	<10	63	<10	57
CC131628		<20	0.09	<10	<10	51	<10	42
CC131629		<20	0.11	<10	10	59	<10	60
CC131630		<20	0.09	<10	<10	58	<10	32
CC131631		<20	0.12	<10	<10	62	<10	50
CC131632		<20	0.09	<10	<10	54	<10	38
CC131633		20	0.08	<10	<10	62	<10	56
CC131634		<20	0.07	<10	<10	44	<10	47
CC131635		<20	0.09	<10	<10	61	<10	52
CC131636		<20	0.05	<10	<10	41	<10	31
CC131637		<20	0.09	<10	<10	64	<10	51
CC131638		<20	0.14	<10	<10	84	<10	62
CC131639		<20	0.15	<10	<10	91	<10	70
CC131640		<20	0.19	<10	<10	90	<10	72
CC131641		<20	0.04	<10	<10	39	<10	33
CC131642		<20	0.08	<10	<10	60	<10	41
CC131643		<20	0.03	<10	<10	47	<10	41
CC131644		<20	0.06	<10	<10	61	<10	53
CC131645		<20	0.03	<10	<10	47	<10	33
CC131646		<20	0.08	<10	<10	71	<10	58
CC131647		<20	0.05	<10	<10	49	<10	39
CC131648		<20	0.10	<10	<10	39	<10	40
CC131649		<20	0.07	<10	<10	45	<10	46
CC131650		<20	0.05	<10	<10	32	<10	30
CC131651		<20	0.15	<10	<10	66	<10	50
CC131652		<20	0.09	<10	<10	61	<10	44
CC131653		<20	0.08	<10	10	46	<10	54



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**CERTIFICATE OF ANALYSIS WH11120315**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC131654		0.30	<0.001	<0.2	1.29	6	<10	80	<0.5	<2	0.21	<0.5	5	19	12	2.28
CC131655		0.23	<0.001	<0.2	2.61	7	<10	180	0.5	<2	0.29	<0.5	10	25	13	3.01
CC131656		0.34	<0.001	<0.2	2.25	3	<10	230	<0.5	<2	0.45	<0.5	9	13	9	2.38
CC131657		0.32	0.021	<0.2	1.48	<2	<10	310	<0.5	<2	0.52	<0.5	7	19	8	2.49
CC131658		0.23	<0.001	<0.2	1.87	2	<10	440	<0.5	<2	0.58	<0.5	10	22	13	3.36
CC131659		0.38	0.006	<0.2	1.06	<2	<10	220	<0.5	<2	0.38	<0.5	6	14	8	2.13
CC131660		0.34	0.007	<0.2	1.62	3	<10	290	<0.5	<2	0.59	<0.5	9	22	14	3.18
CC131661		0.39	<0.001	<0.2	1.16	4	<10	150	<0.5	<2	0.26	<0.5	6	14	23	1.91
CC131662	Destroyed															
CC131663	Destroyed															
CC131664		0.38	0.001	<0.2	1.75	3	<10	180	<0.5	<2	0.32	<0.5	6	24	16	2.22
CC131665		0.23	0.001	0.2	1.78	3	<10	200	<0.5	<2	0.39	<0.5	6	19	21	1.95
CC131666		0.26	<0.001	<0.2	0.99	<2	<10	110	<0.5	<2	0.20	<0.5	3	11	10	1.37
CC131667		0.36	0.001	<0.2	1.94	4	<10	230	<0.5	<2	0.37	<0.5	7	27	17	2.44
CC131668		0.39	0.001	<0.2	2.13	2	<10	250	0.6	<2	0.43	<0.5	16	29	26	2.72
CC131669		0.27	<0.001	<0.2	1.27	5	<10	130	<0.5	<2	0.18	<0.5	5	15	13	2.05
CC131670		0.31	0.004	<0.2	1.63	8	<10	150	<0.5	<2	0.20	<0.5	10	20	14	3.02
CC131671	Destroyed															
CC131672		0.27	<0.001	<0.2	3.86	13	<10	190	0.7	<2	0.30	<0.5	12	40	31	3.54
CC131673		0.31	<0.001	<0.2	3.02	11	<10	170	0.5	<2	0.18	<0.5	10	39	19	3.90
CC131674		0.35	0.027	<0.2	2.45	12	<10	220	0.5	<2	0.34	<0.5	10	34	21	3.25
CC131675		0.05	0.001	<0.2	2.30	6	<10	200	0.5	<2	0.37	<0.5	13	22	22	3.04
CC131676		0.24	0.002	<0.2	0.82	6	<10	80	<0.5	<2	0.19	<0.5	6	15	8	1.69
CC131677		0.31	<0.001	<0.2	1.49	8	<10	110	<0.5	<2	0.16	<0.5	7	21	11	2.80
CC131678		0.38	0.015	<0.2	2.31	13	<10	230	<0.5	<2	0.23	<0.5	11	25	15	3.25
CC131679		0.34	0.008	<0.2	1.28	6	<10	260	<0.5	<2	0.27	<0.5	9	15	13	2.71
CC131680		0.33	<0.001	<0.2	1.53	9	<10	190	<0.5	<2	0.24	<0.5	9	19	11	2.30
CC131681		0.21	<0.001	<0.2	1.41	<2	<10	270	<0.5	<2	0.47	<0.5	8	12	16	1.86
CC131682		0.34	<0.001	<0.2	0.89	2	<10	130	<0.5	<2	0.37	<0.5	9	11	8	3.04
CC131683		0.38	0.001	<0.2	0.92	2	<10	130	<0.5	<2	0.28	<0.5	7	13	8	1.89
CC131684		0.27	<0.001	<0.2	0.91	4	<10	70	<0.5	<2	0.25	<0.5	7	16	7	1.90
CC131685		0.26	<0.001	<0.2	0.66	<2	<10	80	<0.5	<2	0.22	<0.5	6	8	5	1.77
CC131686		0.33	0.001	<0.2	1.28	7	<10	120	<0.5	<2	0.29	<0.5	8	17	10	2.28
CC131687		0.37	<0.001	<0.2	1.87	4	<10	250	0.7	<2	0.76	<0.5	10	19	18	3.05
CC131688		0.31	<0.001	0.2	1.60	3	<10	210	0.5	<2	0.62	<0.5	10	16	23	2.39
CC131689	Destroyed															
CC131690		0.27	0.002	<0.2	1.84	5	<10	320	<0.5	<2	0.61	<0.5	12	32	19	3.08
CC131691		0.46	0.004	<0.2	0.77	4	<10	100	<0.5	<2	0.33	<0.5	6	16	8	1.68
CC131692		0.25	<0.001	<0.2	1.12	4	<10	150	<0.5	<2	0.33	<0.5	8	15	12	2.13
CC131693		0.60	0.003	<0.2	1.00	5	<10	110	<0.5	<2	0.30	<0.5	7	18	8	1.96



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC131654		<10	<1	0.07	10	0.33	224	<1	0.01	10	500	5	0.01	<2	2	15
CC131655		10	<1	0.17	10	0.57	462	<1	0.02	12	860	6	0.02	<2	4	21
CC131656		10	<1	0.12	10	0.41	593	<1	0.02	7	990	5	0.02	2	2	22
CC131657		10	<1	0.22	20	0.70	305	<1	0.02	7	1020	4	0.01	<2	4	22
CC131658		10	<1	0.20	20	0.70	523	<1	0.02	9	830	5	0.03	<2	7	32
CC131659		<10	<1	0.08	10	0.38	306	<1	0.02	7	620	3	0.02	<2	3	19
CC131660		10	<1	0.14	20	0.59	470	<1	0.03	9	1000	8	0.03	<2	5	31
CC131661		<10	<1	0.06	10	0.29	402	<1	0.03	9	500	7	0.02	<2	2	22
CC131662																
CC131663																
CC131664		10	<1	0.08	10	0.49	191	<1	0.02	12	680	7	0.03	<2	3	23
CC131665		10	<1	0.06	20	0.45	269	<1	0.03	9	680	8	0.05	<2	3	31
CC131666		<10	<1	0.04	10	0.23	144	<1	0.03	5	400	3	0.03	<2	2	18
CC131667		10	<1	0.09	10	0.63	246	<1	0.01	13	690	10	0.02	<2	4	28
CC131668		10	<1	0.08	20	0.65	681	<1	0.02	13	900	13	0.05	<2	5	36
CC131669		10	<1	0.05	10	0.22	347	<1	0.02	6	380	9	0.01	<2	2	15
CC131670		10	<1	0.12	10	0.56	611	<1	0.02	11	320	8	0.02	<2	3	17
CC131671																
CC131672		10	<1	0.12	10	0.70	347	<1	0.02	24	350	9	0.03	<2	5	38
CC131673		10	<1	0.10	10	0.74	351	<1	0.02	22	240	10	0.02	2	5	21
CC131674		10	<1	0.11	10	0.62	353	<1	0.02	22	450	7	0.02	<2	4	25
CC131675		10	<1	0.11	10	0.65	521	<1	0.02	16	620	6	0.01	<2	5	29
CC131676		<10	<1	0.04	10	0.23	143	<1	0.02	9	470	5	0.01	<2	2	12
CC131677		10	1	0.07	10	0.39	219	1	0.02	10	450	9	0.01	<2	3	15
CC131678		10	<1	0.12	10	0.54	356	<1	0.01	18	430	9	0.01	2	5	23
CC131679		<10	<1	0.11	10	0.38	450	1	0.02	8	360	8	0.01	<2	4	20
CC131680		<10	<1	0.08	20	0.38	252	<1	0.02	13	440	6	<0.01	<2	4	18
CC131681		<10	1	0.09	30	0.39	212	<1	0.03	7	740	4	0.04	<2	5	29
CC131682		10	1	0.05	10	0.30	294	<1	0.02	5	910	3	0.02	<2	4	20
CC131683		<10	<1	0.06	10	0.28	247	<1	0.02	7	580	4	<0.01	<2	3	16
CC131684		<10	<1	0.05	10	0.28	187	<1	0.01	10	530	4	0.01	<2	2	13
CC131685		<10	<1	0.07	10	0.26	231	<1	0.03	4	630	4	0.02	<2	2	17
CC131686		10	<1	0.09	10	0.41	273	<1	0.02	10	430	5	0.01	<2	3	19
CC131687		10	<1	0.07	50	0.66	529	<1	0.02	11	820	7	0.04	<2	9	39
CC131688		10	<1	0.08	50	0.44	444	<1	0.03	8	750	7	0.05	<2	6	37
CC131689																
CC131690		10	1	0.07	20	0.77	615	<1	0.03	15	760	14	0.03	<2	5	35
CC131691		<10	<1	0.06	20	0.29	145	<1	0.02	7	670	3	0.01	<2	2	16
CC131692		<10	<1	0.05	20	0.31	482	<1	0.03	8	550	4	0.03	<2	2	22
CC131693		<10	<1	0.05	20	0.30	169	<1	0.01	9	670	4	0.01	<2	3	16

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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC131654		<20	0.08	<10	<10	49	<10	32
CC131655		<20	0.14	<10	<10	65	<10	55
CC131656		<20	0.13	<10	<10	56	<10	38
CC131657		<20	0.18	<10	<10	61	<10	55
CC131658		<20	0.17	<10	<10	86	<10	67
CC131659		<20	0.10	<10	<10	56	<10	37
CC131660		<20	0.14	<10	<10	83	<10	56
CC131661		<20	0.06	<10	<10	46	<10	41
CC131662								
CC131663								
CC131664		<20	0.09	<10	<10	54	<10	45
CC131665		<20	0.08	<10	<10	48	<10	44
CC131666		<20	0.06	<10	<10	34	<10	27
CC131667		<20	0.10	<10	<10	70	<10	57
CC131668		<20	0.10	<10	<10	61	<10	57
CC131669		<20	0.11	<10	<10	63	<10	36
CC131670		<20	0.17	<10	<10	86	<10	53
CC131671								
CC131672		<20	0.14	<10	<10	77	<10	62
CC131673		<20	0.15	<10	<10	95	<10	73
CC131674		<20	0.12	<10	<10	68	<10	55
CC131675		<20	0.11	<10	<10	67	<10	53
CC131676		<20	0.05	<10	<10	42	<10	26
CC131677		<20	0.10	<10	<10	73	<10	41
CC131678		<20	0.05	<10	<10	64	<10	60
CC131679		<20	0.04	<10	<10	57	<10	53
CC131680		<20	0.06	<10	<10	47	<10	34
CC131681		<20	0.07	<10	<10	38	<10	42
CC131682		<20	0.11	<10	<10	92	<10	48
CC131683		<20	0.04	<10	<10	41	<10	30
CC131684		<20	0.06	<10	<10	43	<10	28
CC131685		<20	0.07	<10	<10	42	<10	34
CC131686		<20	0.09	<10	<10	55	<10	45
CC131687		<20	0.06	<10	<10	69	<10	54
CC131688		<20	0.08	<10	<10	58	<10	49
CC131689								
CC131690		<20	0.06	<10	<10	73	<10	52
CC131691		<20	0.06	<10	<10	45	<10	28
CC131692		<20	0.06	<10	<10	50	<10	35
CC131693		<20	0.05	<10	<10	46	<10	31



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Project: Wolverine - BBB

**CERTIFICATE OF ANALYSIS WH11120315**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC131694		0.23	0.001	<0.2	1.38	6	<10	210	<0.5	<2	0.58	<0.5	9	18	16	2.47
CC131695		0.28	0.001	<0.2	1.36	4	<10	160	<0.5	<2	0.38	<0.5	9	21	11	2.46
CC131696		0.38	0.001	<0.2	1.62	5	<10	240	<0.5	<2	0.66	<0.5	12	22	25	2.86
CC131697		0.60	0.004	<0.2	1.62	4	<10	220	<0.5	<2	0.52	<0.5	11	22	17	2.75
CC131698		0.31	<0.001	<0.2	2.43	5	<10	220	0.7	<2	0.66	<0.5	13	22	17	3.66
CC131699		0.42	0.002	<0.2	1.80	2	<10	200	0.5	<2	0.39	<0.5	11	20	13	2.79
CC131700		0.75	0.005	<0.2	2.06	3	<10	270	0.5	<2	0.45	<0.5	14	20	15	3.55
CC131701		0.49	0.005	<0.2	1.63	13	<10	100	<0.5	<2	0.14	<0.5	9	24	11	3.68
CC131702		0.46	0.003	<0.2	1.70	8	<10	120	<0.5	<2	0.23	<0.5	10	23	13	2.71
CC131703		0.36	<0.001	<0.2	1.75	5	<10	200	<0.5	<2	0.19	<0.5	10	18	17	2.51
CC131704		0.31	<0.001	<0.2	2.08	7	<10	150	<0.5	<2	0.18	<0.5	12	26	11	3.39
CC131705		0.35	<0.001	<0.2	2.25	8	<10	250	<0.5	<2	0.29	<0.5	11	24	16	2.92
CC131706		0.38	0.003	<0.2	1.61	4	<10	150	<0.5	<2	0.41	<0.5	9	17	9	2.39
CC131707		0.23	<0.001	<0.2	2.57	8	<10	130	0.5	<2	0.23	<0.5	11	22	21	2.67
CC131708		0.46	0.001	<0.2	2.98	11	<10	200	0.6	<2	0.25	<0.5	11	34	17	3.86
CC131709		0.34	0.001	<0.2	2.03	11	<10	100	<0.5	<2	0.14	<0.5	10	27	15	3.46
CC131710		0.37	<0.001	<0.2	1.66	4	<10	490	0.6	<2	0.42	<0.5	10	13	20	2.38
CC131711		0.39	0.011	<0.2	1.70	5	<10	160	<0.5	<2	0.49	<0.5	12	22	16	3.09
CC131712		0.31	<0.001	<0.2	1.63	6	<10	180	0.5	2	0.84	<0.5	9	21	23	2.60
CC131713		0.39	<0.001	<0.2	1.06	5	<10	90	<0.5	<2	0.33	<0.5	5	14	8	1.79
CC131714		0.27	<0.001	<0.2	2.46	3	<10	120	0.5	<2	0.16	<0.5	10	16	15	3.60
CC131715		0.46	0.001	<0.2	1.79	2	<10	220	0.5	<2	0.40	<0.5	7	14	13	2.56
CC131716		0.34	<0.001	<0.2	1.49	4	<10	170	<0.5	<2	0.35	<0.5	5	14	12	1.89
CC131717		0.33	0.010	<0.2	1.41	2	<10	200	<0.5	<2	0.40	<0.5	5	14	14	1.94
CC131718		0.43	0.001	<0.2	1.53	3	<10	180	<0.5	<2	0.37	<0.5	6	17	13	2.22
CC131719		0.22	<0.001	<0.2	1.72	3	<10	240	<0.5	<2	0.46	<0.5	6	19	11	2.27
CC131720		0.21	0.001	<0.2	1.70	4	<10	210	<0.5	<2	0.50	<0.5	8	18	13	2.41

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Wolverine - BBB

**CERTIFICATE OF ANALYSIS WH11120315**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC131694		10	<1	0.06	10	0.50	325	<1	0.02	10	630	6	0.03	<2	3	32
CC131695		10	<1	0.07	10	0.47	316	<1	0.02	11	380	7	0.01	<2	3	22
CC131696		10	<1	0.07	20	0.54	568	<1	0.03	12	780	6	0.05	<2	4	36
CC131697		10	1	0.06	20	0.54	432	<1	0.02	12	660	5	0.03	<2	4	29
CC131698		10	<1	0.11	30	1.06	392	<1	0.02	10	760	9	0.01	<2	9	30
CC131699		10	<1	0.13	30	0.77	291	<1	0.02	10	650	7	0.01	<2	8	21
CC131700		10	<1	0.11	20	0.71	591	<1	0.02	10	480	6	0.01	<2	7	23
CC131701		10	<1	0.11	10	0.44	320	1	0.02	11	450	8	0.01	<2	3	14
CC131702		10	<1	0.09	10	0.48	347	<1	0.02	14	450	6	0.01	<2	3	16
CC131703		10	<1	0.10	10	0.45	668	<1	0.02	10	310	5	0.01	<2	4	18
CC131704		10	<1	0.08	10	0.56	508	1	0.01	16	290	8	<0.01	<2	3	19
CC131705		10	1	0.08	10	0.54	452	<1	0.02	16	260	7	<0.01	<2	3	30
CC131706		10	<1	0.08	10	0.47	263	<1	0.02	11	670	4	<0.01	<2	3	24
CC131707		10	<1	0.09	10	0.53	265	<1	0.02	14	500	4	0.01	<2	3	17
CC131708		10	1	0.09	20	0.54	299	1	0.02	17	400	12	0.01	<2	4	29
CC131709		10	<1	0.06	10	0.53	305	1	0.02	15	380	8	0.01	2	3	17
CC131710		10	<1	0.15	30	0.30	651	<1	0.02	15	600	6	0.02	<2	7	29
CC131711		10	<1	0.10	10	0.62	525	<1	0.02	11	380	8	0.01	<2	5	26
CC131712		<10	<1	0.09	20	0.54	566	1	0.02	13	700	8	0.03	<2	4	38
CC131713		<10	<1	0.09	10	0.33	253	1	0.02	8	350	3	0.02	<2	2	20
CC131714		10	1	0.08	10	0.79	511	<1	0.02	8	420	7	0.01	<2	6	19
CC131715		10	1	0.13	20	0.62	441	<1	0.02	7	630	5	0.02	<2	5	44
CC131716		10	<1	0.10	10	0.41	227	1	0.03	8	530	5	0.03	<2	3	34
CC131717		<10	<1	0.09	10	0.37	333	1	0.03	8	610	4	0.04	<2	2	39
CC131718		<10	<1	0.07	10	0.39	371	1	0.02	9	710	7	0.03	<2	3	28
CC131719		<10	<1	0.06	10	0.43	320	1	0.02	9	780	8	0.04	<2	3	39
CC131720		10	1	0.06	10	0.44	430	<1	0.02	9	780	10	0.05	<2	3	39

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**CERTIFICATE OF ANALYSIS WH11120315**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC131694		<20	0.09	<10	<10	58	<10	46
CC131695		<20	0.09	<10	<10	59	<10	46
CC131696		<20	0.08	<10	<10	69	<10	52
CC131697		<20	0.09	<10	<10	69	<10	51
CC131698		<20	0.15	<10	<10	121	<10	73
CC131699		<20	0.14	<10	<10	75	<10	56
CC131700		<20	0.08	<10	<10	78	<10	55
CC131701		<20	0.13	<10	<10	96	<10	48
CC131702		<20	0.10	<10	<10	62	<10	46
CC131703		<20	0.09	<10	<10	57	<10	38
CC131704		<20	0.12	<10	<10	86	<10	58
CC131705		<20	0.12	<10	<10	68	<10	49
CC131706		<20	0.12	<10	<10	55	<10	37
CC131707		<20	0.15	<10	<10	60	<10	44
CC131708		<20	0.16	<10	<10	89	<10	54
CC131709		<20	0.09	<10	<10	72	<10	47
CC131710		<20	0.02	<10	<10	50	<10	49
CC131711		<20	0.07	<10	<10	68	<10	63
CC131712		<20	0.07	<10	<10	60	<10	57
CC131713		<20	0.07	<10	<10	42	<10	33
CC131714		<20	0.08	<10	<10	83	<10	60
CC131715		<20	0.09	<10	<10	61	<10	47
CC131716		<20	0.08	<10	<10	46	<10	41
CC131717		<20	0.07	<10	<10	47	<10	43
CC131718		<20	0.08	<10	<10	54	<10	49
CC131719		<20	0.09	<10	<10	54	<10	60
CC131720		<20	0.08	<10	<10	54	<10	57



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**CERTIFICATE OF ANALYSIS WH11120315**

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non- sufficient sample.



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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
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**CERTIFICATE WH11122915**

Project: Wolverine- BBB  
 P.O. No.:  
 This report is for 222 Soil samples submitted to our lab in Whitehorse, YT, Canada on 1-JUL- 2011.  
 The following have access to data associated with this certificate:  
 JOAN MARIACHER                      HEATHER SMITH

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH11122915**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC131140		0.20	0.001	<0.2	1.42	7	<10	170	<0.5	<2	0.22	<0.5	19	72	24	2.61
CC131151		0.25	<0.001	<0.2	1.70	2	<10	70	<0.5	<2	0.15	<0.5	30	251	29	2.13
CC131429		0.16	0.002	0.2	1.88	12	<10	100	0.5	<2	0.15	<0.5	10	36	21	3.40
CC131430		0.19	0.006	<0.2	1.25	10	<10	80	<0.5	<2	0.16	<0.5	7	25	15	3.02
CC131606		0.31	0.002	<0.2	1.82	9	<10	200	0.5	<2	0.38	<0.5	9	27	21	2.83
CC131610		0.36	0.002	<0.2	2.26	5	<10	100	0.5	<2	0.20	<0.5	10	24	14	2.96
Cc131840		0.28	0.001	<0.2	2.64	6	<10	330	0.5	<2	0.51	<0.5	11	21	17	3.81
CC131969		0.32	0.004	0.3	2.22	14	<10	350	0.8	<2	0.72	<0.5	15	50	33	4.07
CC131970		0.24	0.011	0.2	2.10	15	<10	330	0.6	<2	0.74	<0.5	14	47	29	3.81
CC132260		0.41	0.008	<0.2	1.34	163	<10	160	<0.5	<2	0.37	<0.5	7	24	23	2.14
CC132430		0.22	<0.001	0.2	2.69	7	<10	210	0.8	<2	0.17	<0.5	15	43	41	5.06
CC136071		0.32	<0.001	<0.2	1.82	9	<10	190	<0.5	<2	0.14	<0.5	8	25	16	3.07
CC136072		0.24	<0.001	0.2	1.30	4	<10	180	0.5	<2	0.53	<0.5	5	11	35	1.62
CC136073		0.32	0.001	<0.2	1.75	8	<10	250	0.5	<2	0.29	<0.5	12	25	19	3.00
CC136074		0.34	0.006	<0.2	1.55	10	<10	190	<0.5	<2	0.22	<0.5	7	23	13	2.73
CC136075		0.21	0.003	0.2	1.97	5	<10	420	0.7	<2	0.75	<0.5	9	17	22	2.97
CC136076		0.16	<0.001	0.2	0.89	2	<10	160	<0.5	<2	0.34	<0.5	5	9	14	1.93
CC136077		0.33	0.001	<0.2	1.66	7	<10	180	<0.5	<2	0.16	<0.5	9	17	13	2.53
CC136078		0.19	<0.001	<0.2	0.96	5	<10	190	<0.5	<2	0.33	<0.5	5	14	12	1.81
CC136079	Destroyed															
CC136080		0.21	0.005	0.3	1.39	4	<10	320	0.7	<2	0.65	<0.5	4	9	30	1.77
CC136081		0.34	0.005	<0.2	2.02	7	<10	320	0.6	<2	0.46	<0.5	13	19	21	3.85
CC136082		0.36	0.007	<0.2	1.44	8	<10	230	<0.5	<2	0.29	<0.5	8	22	12	2.33
CC136083		0.35	<0.001	<0.2	1.11	8	<10	200	<0.5	<2	0.24	<0.5	8	16	17	2.06
CC136084		0.21	0.003	0.2	0.70	4	<10	150	<0.5	<2	0.16	<0.5	4	9	9	1.29
CC136085		0.26	<0.001	<0.2	1.08	8	<10	200	<0.5	<2	0.19	<0.5	6	17	10	2.31
CC136086		0.30	0.001	<0.2	1.75	10	<10	370	<0.5	<2	0.35	<0.5	9	23	15	2.73
CC136087		0.16	0.002	0.3	1.38	6	<10	650	<0.5	<2	1.10	<0.5	7	18	39	2.24
CC136088		0.28	0.005	0.3	2.05	6	<10	720	0.7	<2	0.81	<0.5	10	21	58	3.00
CC136089		0.22	0.002	0.2	2.20	6	<10	260	<0.5	<2	0.27	<0.5	10	15	34	3.47
CC136090		0.27	0.003	0.3	1.85	10	<10	170	<0.5	<2	0.21	<0.5	7	20	19	2.78
CC136099		0.38	0.001	0.2	1.63	6	<10	300	<0.5	<2	0.48	<0.5	7	20	27	2.02
CC136100		0.25	0.001	0.3	1.51	2	<10	330	<0.5	<2	0.58	<0.5	6	15	25	2.31
CC136101	Destroyed															
CC136102		0.22	0.001	0.3	1.20	5	<10	300	<0.5	2	0.40	<0.5	4	12	24	1.68
CC136103		0.24	0.002	0.3	0.67	6	<10	210	<0.5	2	0.44	<0.5	4	6	18	0.93
CC136104		0.41	0.001	<0.2	1.34	10	<10	350	0.6	<2	0.53	<0.5	6	20	14	2.85
CC136105		0.33	<0.001	<0.2	1.86	6	<10	540	<0.5	<2	0.44	<0.5	10	14	16	3.08
CC136106		0.34	0.030	<0.2	0.86	10	<10	90	<0.5	<2	0.17	<0.5	5	15	7	1.92
CC136107		0.43	0.002	<0.2	1.63	7	<10	330	<0.5	<2	0.50	<0.5	6	22	22	2.23



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC131140		<10	<1	0.04	10	1.89	349	<1	0.02	210	310	6	0.01	<2	3	20
CC131151		<10	<1	0.02	<10	3.73	225	<1	0.02	559	130	3	<0.01	<2	2	10
CC131429		<10	<1	0.11	10	0.40	231	<1	0.01	32	240	10	<0.01	<2	3	15
CC131430		<10	<1	0.11	10	0.29	210	<1	0.01	16	430	9	<0.01	<2	2	15
CC131606		<10	<1	0.08	20	0.62	426	<1	0.01	16	590	7	<0.01	<2	6	24
CC131610		<10	<1	0.08	10	0.46	411	<1	0.01	13	520	8	0.01	<2	4	16
Cc131840		10	<1	0.26	20	0.86	551	<1	0.02	12	340	8	0.01	<2	5	40
CC131969		10	<1	0.19	30	0.91	754	1	0.02	30	1010	19	0.01	3	10	51
CC131970		<10	<1	0.18	20	0.89	661	1	0.03	26	960	17	0.02	2	9	57
CC132260		<10	<1	0.04	10	0.40	273	1	0.01	15	440	7	0.02	<2	2	26
CC132430		10	<1	0.47	30	0.72	554	<1	0.01	45	260	11	0.01	<2	6	23
CC136071		10	<1	0.10	10	0.39	262	2	0.01	15	340	7	<0.01	<2	3	16
CC136072		<10	<1	0.10	100	0.24	309	<1	0.03	5	660	4	0.02	<2	9	33
CC136073		10	<1	0.17	30	0.54	786	1	0.01	11	180	11	0.01	<2	5	27
CC136074		10	<1	0.09	10	0.37	220	1	0.01	13	210	8	0.01	<2	3	20
CC136075		<10	1	0.24	70	0.58	559	<1	0.02	10	690	7	0.06	<2	11	51
CC136076		<10	<1	0.08	20	0.14	138	<1	0.03	4	650	2	0.03	<2	3	28
CC136077		<10	<1	0.15	10	0.40	533	1	0.02	10	250	10	0.01	<2	4	15
CC136078		<10	<1	0.09	20	0.26	209	<1	0.03	7	460	3	0.01	<2	3	23
CC136079																
CC136080		<10	<1	0.14	40	0.23	209	<1	0.03	7	630	4	0.05	<2	5	42
CC136081		10	<1	0.33	20	0.83	862	<1	0.02	9	320	10	0.01	<2	9	29
CC136082		<10	<1	0.10	30	0.41	299	<1	0.01	14	340	7	<0.01	<2	5	18
CC136083		<10	<1	0.09	10	0.36	303	<1	0.02	10	220	7	<0.01	<2	3	19
CC136084		<10	<1	0.06	10	0.15	120	<1	0.03	6	200	3	<0.01	<2	1	13
CC136085		<10	<1	0.09	10	0.30	279	1	0.02	9	210	8	<0.01	<2	3	17
CC136086		<10	<1	0.16	10	0.48	408	1	0.02	14	250	8	0.01	<2	5	24
CC136087		<10	<1	0.15	20	0.46	390	<1	0.03	11	770	7	0.06	<2	6	57
CC136088		<10	<1	0.23	190	0.72	722	<1	0.02	13	620	8	0.03	<2	12	56
CC136089		10	<1	0.15	10	0.74	408	1	0.02	8	320	8	0.01	<2	5	23
CC136090		<10	<1	0.08	10	0.42	218	1	0.02	11	440	8	0.01	2	3	16
CC136099		<10	<1	0.18	20	0.59	255	<1	0.02	9	650	8	0.03	<2	5	26
CC136100		<10	<1	0.16	20	0.49	250	<1	0.02	7	750	6	0.04	<2	6	31
CC136101																
CC136102		<10	<1	0.12	20	0.38	152	<1	0.03	7	440	7	0.05	<2	5	24
CC136103		<10	<1	0.05	<10	0.16	249	<1	0.04	4	430	6	0.05	<2	1	24
CC136104		10	<1	0.21	10	0.52	300	1	0.02	9	750	11	0.04	<2	5	29
CC136105		10	<1	0.24	10	0.75	1060	<1	0.02	7	560	10	0.01	<2	7	25
CC136106		10	<1	0.11	10	0.32	215	1	0.02	7	150	6	0.01	<2	2	13
CC136107		10	<1	0.20	20	0.60	309	<1	0.02	11	680	6	0.04	2	6	34



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC131140		<20	0.07	<10	<10	51	<10	39
CC131151		<20	0.08	<10	<10	31	<10	29
CC131429		<20	0.08	<10	<10	66	<10	49
CC131430		<20	0.07	<10	<10	60	<10	44
CC131606		<20	0.09	<10	<10	62	<10	53
CC131610		<20	0.05	<10	<10	54	<10	49
Cc131840		<20	0.21	<10	<10	90	<10	64
CC131969		<20	0.12	<10	<10	93	<10	91
CC131970		<20	0.10	<10	<10	82	<10	96
CC132260		<20	0.05	<10	<10	47	<10	36
CC132430		<20	0.17	<10	<10	66	<10	76
CC136071		<20	0.09	<10	<10	66	<10	45
CC136072		20	0.04	<10	<10	41	<10	23
CC136073		<20	0.11	<10	<10	71	<10	55
CC136074		<20	0.08	<10	<10	64	<10	39
CC136075		20	0.09	<10	<10	66	<10	48
CC136076		<20	0.06	<10	<10	56	<10	29
CC136077		<20	0.08	<10	<10	54	<10	53
CC136078		<20	0.06	<10	<10	44	<10	29
CC136079								
CC136080		<20	0.04	<10	10	36	<10	29
CC136081		20	0.15	<10	<10	83	<10	65
CC136082		<20	0.07	<10	<10	48	<10	40
CC136083		<20	0.07	<10	<10	44	<10	35
CC136084		<20	0.06	<10	<10	36	<10	19
CC136085		<20	0.07	<10	<10	50	<10	43
CC136086		<20	0.08	<10	<10	54	<10	51
CC136087		<20	0.06	<10	<10	45	<10	43
CC136088		20	0.09	<10	<10	65	<10	52
CC136089		<20	0.18	<10	<10	87	<10	56
CC136090		<20	0.07	<10	<10	63	<10	41
CC136099		<20	0.13	<10	<10	75	<10	61
CC136100		<20	0.09	<10	<10	58	<10	55
CC136101								
CC136102		<20	0.06	<10	<10	37	<10	37
CC136103		<20	0.03	<10	<10	21	<10	25
CC136104		<20	0.10	<10	<10	63	<10	54
CC136105		<20	0.10	<10	<10	73	<10	62
CC136106		<20	0.11	<10	<10	60	<10	36
CC136107		<20	0.10	<10	<10	51	<10	64



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC136108		0.48	0.001	<0.2	1.51	4	<10	280	<0.5	<2	0.43	<0.5	7	14	22	2.78
CC136109		0.26	0.001	<0.2	1.25	3	<10	140	<0.5	<2	0.38	<0.5	5	15	16	1.64
CC136110		0.43	0.001	<0.2	1.42	6	<10	240	<0.5	<2	0.45	<0.5	6	21	19	2.17
CC136111		0.40	<0.001	<0.2	1.18	6	<10	130	<0.5	<2	0.30	<0.5	7	13	32	2.49
CC136112		0.50	<0.001	<0.2	1.30	7	<10	310	<0.5	<2	0.58	<0.5	6	15	28	2.32
CC136113		0.40	0.001	<0.2	1.20	7	<10	280	<0.5	<2	0.35	<0.5	7	15	18	2.50
CC136114		0.19	0.004	<0.2	1.86	6	<10	750	0.8	<2	0.64	<0.5	7	19	55	2.64
CC136115		0.41	<0.001	<0.2	1.80	7	<10	270	<0.5	<2	0.36	<0.5	10	13	22	3.17
CC136116		0.22	0.001	0.5	1.44	7	<10	160	<0.5	<2	0.26	<0.5	5	11	33	1.79
CC136117		0.22	0.001	0.3	1.61	9	<10	120	<0.5	2	0.22	<0.5	8	19	27	2.53
CC136118		0.49	<0.001	<0.2	1.05	11	<10	80	<0.5	<2	0.24	<0.5	6	17	16	2.03
CC136119		0.35	0.002	0.2	2.45	12	<10	210	<0.5	<2	0.27	<0.5	11	24	27	3.45
CC136120		0.28	0.020	<0.2	2.41	12	<10	250	<0.5	<2	0.27	<0.5	11	26	16	3.90
CC136151		0.29	0.002	0.2	2.79	15	<10	180	0.5	<2	0.26	<0.5	10	27	44	3.32
CC136152		0.21	0.003	<0.2	0.84	4	<10	90	<0.5	<2	0.25	<0.5	2	11	34	1.16
CC136153		0.37	0.002	<0.2	1.89	6	<10	90	<0.5	4	0.21	<0.5	6	10	42	3.04
CC136154		0.38	<0.001	<0.2	2.16	5	<10	320	<0.5	2	0.30	<0.5	10	14	69	3.38
CC136155		0.56	<0.001	<0.2	2.44	5	<10	300	0.7	<2	0.83	<0.5	8	10	61	2.46
CC136156		0.43	0.004	0.3	1.39	11	<10	70	<0.5	2	0.17	<0.5	4	20	23	2.52
CC136370		0.28	0.001	<0.2	2.56	15	<10	190	<0.5	<2	0.26	<0.5	12	39	20	3.41
CC136490		0.27	0.007	<0.2	1.84	10	<10	140	<0.5	<2	0.14	<0.5	7	20	11	2.70
CC138031		0.48	0.001	<0.2	2.03	9	<10	150	0.6	<2	0.20	<0.5	7	25	16	2.70
CC138032		0.34	<0.001	<0.2	1.46	8	<10	140	<0.5	<2	0.17	<0.5	6	22	16	2.38
CC138033		0.38	0.007	<0.2	1.68	11	<10	160	0.5	<2	0.23	<0.5	8	20	15	2.81
CC138034		0.41	0.001	<0.2	1.51	14	<10	180	<0.5	<2	0.24	<0.5	5	22	13	2.47
CC138035		0.27	0.005	<0.2	1.06	9	<10	120	<0.5	<2	0.26	<0.5	7	19	8	2.07
CC138036		0.30	0.001	<0.2	1.94	17	<10	140	<0.5	<2	0.15	<0.5	8	24	15	3.44
CC138037		0.27	0.003	<0.2	2.59	10	<10	230	<0.5	<2	0.32	<0.5	11	17	18	3.57
CC138038		0.17	0.001	<0.2	1.16	5	<10	110	<0.5	<2	0.15	<0.5	6	14	8	1.79
CC138039		0.39	0.002	<0.2	1.82	13	<10	170	<0.5	2	0.27	<0.5	9	26	18	2.52
CC138040		0.26	0.003	0.2	1.19	7	<10	260	<0.5	3	0.24	<0.5	7	14	43	2.10
CC138041		0.26	0.002	<0.2	1.31	10	<10	190	<0.5	<2	0.21	<0.5	7	18	21	2.18
CC138042		0.36	0.003	0.5	1.47	9	<10	520	0.8	<2	0.66	<0.5	7	14	120	2.24
CC138051		0.46	<0.001	0.2	2.42	11	<10	330	<0.5	<2	0.17	<0.5	11	25	20	3.45
CC138052		0.17	0.004	<0.2	2.11	11	<10	270	0.5	<2	0.24	<0.5	11	25	22	3.06
CC138053		0.34	0.004	<0.2	1.54	9	<10	190	<0.5	<2	0.22	<0.5	7	24	15	2.58
CC138054		0.42	0.002	<0.2	1.31	8	<10	120	<0.5	<2	0.14	<0.5	5	20	8	2.09
CC138055		0.39	0.001	<0.2	1.73	9	<10	180	<0.5	<2	0.25	<0.5	7	20	22	2.66
CC138056		0.28	0.001	<0.2	1.44	7	<10	160	<0.5	<2	0.22	<0.5	6	21	12	2.26
CC138057		0.38	0.002	<0.2	1.19	4	<10	360	0.6	<2	0.21	<0.5	5	14	17	2.06



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC136108		10	<1	0.28	20	0.65	310	1	0.02	6	800	8	0.01	<2	5	21
CC136109		<10	<1	0.11	10	0.44	227	<1	0.03	7	670	6	0.02	<2	3	21
CC136110		10	<1	0.09	20	0.50	316	<1	0.02	10	440	11	0.02	<2	4	28
CC136111		<10	<1	0.13	10	0.38	421	2	0.02	6	580	6	0.01	<2	5	18
CC136112		<10	<1	0.14	20	0.38	323	2	0.02	7	700	8	0.03	<2	5	35
CC136113		<10	<1	0.13	10	0.48	375	<1	0.02	7	410	10	0.01	<2	3	22
CC136114		10	<1	0.14	70	0.49	409	<1	0.01	11	870	10	0.07	<2	7	44
CC136115		10	<1	0.17	10	0.59	605	1	0.01	6	550	10	0.01	<2	7	25
CC136116		<10	<1	0.11	20	0.28	270	1	0.04	6	530	6	0.04	<2	3	22
CC136117		10	1	0.11	10	0.47	397	1	0.03	14	400	8	0.02	<2	3	19
CC136118		<10	<1	0.11	10	0.42	272	<1	0.01	10	450	8	<0.01	<2	3	16
CC136119		10	<1	0.12	10	0.73	548	1	0.02	12	460	12	0.01	<2	7	21
CC136120		10	<1	0.28	10	0.74	479	1	0.02	11	440	12	0.01	<2	6	21
CC136151		10	<1	0.12	10	0.52	331	1	0.02	18	380	8	0.02	<2	4	29
CC136152		10	<1	0.03	10	0.11	83	1	0.01	4	200	6	0.01	<2	1	30
CC136153		10	<1	0.06	10	0.47	380	1	0.01	3	420	9	0.02	<2	4	24
CC136154		10	<1	0.24	10	0.69	1035	1	0.02	7	640	12	0.03	<2	7	25
CC136155		10	<1	0.11	30	0.71	622	<1	0.01	4	610	7	0.01	<2	7	37
CC136156		10	<1	0.07	10	0.31	205	1	0.02	8	280	20	0.02	<2	2	19
CC136370		10	<1	0.14	10	0.75	548	<1	0.02	22	470	9	0.02	2	6	21
CC136490		10	<1	0.07	10	0.49	263	<1	0.02	11	140	8	0.01	<2	3	16
CC138031		10	<1	0.10	10	0.46	467	1	0.02	13	280	11	0.01	<2	3	25
CC138032		10	<1	0.09	10	0.33	279	1	0.02	11	290	6	0.01	<2	2	21
CC138033		10	<1	0.17	20	0.49	370	<1	0.01	11	190	9	0.01	<2	5	21
CC138034		10	<1	0.12	10	0.41	223	1	0.01	13	270	6	0.01	<2	4	17
CC138035		10	<1	0.13	10	0.44	434	<1	0.02	9	240	7	0.01	<2	3	18
CC138036		10	<1	0.13	10	0.49	426	1	0.01	14	300	7	0.01	<2	4	14
CC138037		10	<1	0.12	10	0.69	897	<1	0.02	8	340	9	0.01	<2	6	35
CC138038		<10	<1	0.07	<10	0.29	331	<1	0.03	7	330	4	0.01	<2	2	18
CC138039		<10	<1	0.09	10	0.47	257	<1	0.02	16	400	6	0.01	<2	3	21
CC138040		<10	<1	0.13	20	0.37	453	1	0.03	8	420	11	0.01	<2	5	21
CC138041		<10	<1	0.14	10	0.43	366	<1	0.01	10	230	7	0.01	<2	4	17
CC138042		<10	1	0.16	130	0.29	606	1	0.03	10	610	7	0.04	5	9	46
CC138051		10	<1	0.13	10	0.63	648	<1	0.02	14	270	8	<0.01	<2	4	23
CC138052		10	<1	0.16	10	0.48	606	<1	0.02	15	380	7	<0.01	<2	4	26
CC138053		10	<1	0.10	10	0.44	423	<1	0.02	11	250	7	<0.01	<2	3	22
CC138054		10	<1	0.07	10	0.36	296	1	0.01	9	220	5	<0.01	<2	2	15
CC138055		10	<1	0.10	10	0.48	479	1	0.02	10	370	7	<0.01	<2	4	24
CC138056		<10	<1	0.09	10	0.39	313	<1	0.02	11	240	8	<0.01	<2	3	21
CC138057		<10	<1	0.09	20	0.24	275	<1	0.02	7	200	10	<0.01	2	4	23





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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC136108		<20	0.13	<10	<10	68	<10	61
CC136109		<20	0.10	<10	<10	41	<10	40
CC136110		<20	0.10	<10	<10	54	<10	50
CC136111		<20	0.06	<10	<10	55	<10	55
CC136112		<20	0.05	<10	<10	48	<10	44
CC136113		<20	0.11	<10	<10	55	<10	56
CC136114		<20	0.06	<10	<10	53	<10	49
CC136115		<20	0.05	<10	<10	68	<10	72
CC136116		<20	0.06	<10	<10	45	<10	34
CC136117		<20	0.11	<10	<10	70	<10	57
CC136118		<20	0.10	<10	<10	49	<10	45
CC136119		<20	0.11	<10	<10	84	<10	63
CC136120		<20	0.15	<10	<10	94	<10	70
CC136151		<20	0.14	<10	<10	76	<10	52
CC136152		<20	0.09	<10	<10	45	<10	18
CC136153		<20	0.10	<10	<10	104	<10	45
CC136154		<20	0.13	<10	<10	85	10	72
CC136155		<20	0.01	<10	<10	54	<10	45
CC136156		<20	0.11	<10	<10	81	<10	39
CC136370		<20	0.12	<10	<10	79	<10	74
CC136490		<20	0.08	<10	<10	63	<10	48
CC138031		<20	0.07	<10	<10	62	<10	49
CC138032		<20	0.09	<10	<10	59	<10	36
CC138033		<20	0.11	<10	<10	62	<10	47
CC138034		<20	0.08	<10	<10	54	<10	40
CC138035		<20	0.10	<10	<10	53	<10	38
CC138036		<20	0.08	<10	<10	74	<10	56
CC138037		<20	0.09	<10	<10	91	<10	57
CC138038		<20	0.08	<10	<10	46	<10	35
CC138039		<20	0.09	<10	<10	57	<10	43
CC138040		<20	0.07	<10	<10	49	<10	37
CC138041		<20	0.07	<10	<10	45	<10	44
CC138042		<20	0.04	<10	<10	42	<10	39
CC138051		<20	0.14	<10	<10	85	<10	62
CC138052		<20	0.10	<10	<10	68	<10	48
CC138053		<20	0.10	<10	<10	65	<10	41
CC138054		<20	0.08	<10	<10	56	<10	38
CC138055		<20	0.09	<10	<10	69	<10	45
CC138056		<20	0.08	<10	<10	51	<10	40
CC138057		<20	0.04	<10	<10	44	<10	32



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**CERTIFICATE OF ANALYSIS WH11122915**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC138058		0.29	0.004	<0.2	1.67	13	<10	290	1.7	<2	0.23	<0.5	10	20	70	2.54
CC138059		0.33	0.004	0.2	1.58	5	<10	270	<0.5	<2	0.38	<0.5	9	19	16	2.54
CC138060		0.41	0.001	<0.2	1.67	13	<10	130	<0.5	<2	0.17	<0.5	5	22	15	2.50
CC138061		0.35	0.003	0.2	1.98	8	<10	360	<0.5	<2	0.51	<0.5	8	24	35	2.41
CC138062		0.45	0.002	<0.2	1.03	9	<10	80	<0.5	<2	0.18	<0.5	4	19	10	2.01
CC138063		0.50	0.013	<0.2	1.41	6	<10	330	<0.5	<2	0.47	<0.5	5	22	15	1.95
CC138064		0.14	0.002	<0.2	1.44	10	<10	190	<0.5	<2	0.34	<0.5	7	19	8	2.28
CC138065		0.53	0.001	<0.2	1.09	7	<10	250	<0.5	2	0.40	<0.5	5	14	9	2.29
CC138066		0.32	0.001	0.3	1.21	5	<10	250	<0.5	<2	0.57	<0.5	3	16	23	1.65
CC138067		0.61	0.001	<0.2	1.67	6	<10	240	<0.5	<2	0.38	<0.5	4	23	22	1.92
CC138068		0.60	0.002	<0.2	1.63	3	<10	190	<0.5	<2	0.37	<0.5	6	17	17	2.28
CC138069		0.40	0.001	<0.2	1.30	8	<10	170	<0.5	<2	0.36	<0.5	4	16	21	1.79
CC138070		0.63	0.001	<0.2	1.54	6	<10	280	<0.5	<2	0.49	<0.5	6	19	20	2.30
CC138101		0.26	0.004	<0.2	2.66	18	<10	190	0.5	2	0.17	<0.5	9	26	22	3.34
CC138102		0.25	0.003	<0.2	2.61	8	<10	230	0.5	<2	0.23	<0.5	10	34	34	3.44
CC138103		0.32	0.001	<0.2	1.87	13	<10	210	<0.5	<2	0.22	<0.5	10	27	14	3.30
CC138104		0.33	0.001	<0.2	1.83	11	<10	150	<0.5	2	0.13	<0.5	7	28	11	2.89
CC138105		0.47	0.001	<0.2	1.94	5	<10	330	0.6	<2	0.40	<0.5	9	17	11	3.15
CC138106		0.27	0.003	<0.2	1.52	7	<10	320	0.6	<2	0.85	<0.5	9	20	25	2.55
CC138107		0.18	0.001	<0.2	1.37	5	<10	190	<0.5	<2	0.49	<0.5	9	21	22	2.54
CC138108		0.22	<0.001	<0.2	1.08	7	<10	200	<0.5	<2	0.34	<0.5	5	12	11	1.85
CC138109		0.37	0.001	<0.2	1.25	6	<10	220	<0.5	<2	0.51	<0.5	6	21	17	2.26
CC138110		0.30	0.001	<0.2	0.95	6	<10	300	<0.5	<2	0.99	<0.5	5	12	15	1.61
CC138111		0.31	0.009	<0.2	1.39	8	<10	180	<0.5	<2	0.26	<0.5	8	18	17	2.43
CC138112		0.22	0.002	<0.2	1.74	5	<10	200	<0.5	2	0.19	<0.5	7	18	11	2.86
CC138113		0.34	0.002	<0.2	1.84	10	<10	230	<0.5	<2	0.19	<0.5	6	27	12	2.68
CC138114		0.33	0.001	<0.2	1.95	7	<10	390	0.5	2	0.30	<0.5	10	17	15	3.40
CC138115		0.20	0.010	<0.2	3.92	7	<10	340	0.9	2	0.33	<0.5	15	27	24	5.39
CC138116		0.33	0.001	<0.2	2.26	10	<10	220	<0.5	<2	0.21	<0.5	9	28	27	3.42
CC138117		0.24	0.004	<0.2	1.78	7	<10	180	<0.5	<2	0.15	<0.5	11	18	23	2.92
CC138118		0.31	0.002	<0.2	1.79	11	<10	160	<0.5	<2	0.16	<0.5	7	24	17	2.87
CC138119		0.28	0.001	<0.2	2.18	13	<10	300	<0.5	<2	0.26	<0.5	7	28	27	3.28
CC138120		0.43	0.003	<0.2	2.16	7	<10	320	0.7	<2	0.26	<0.5	10	17	16	3.41
CC138226		0.52	0.003	<0.2	1.36	5	<10	200	<0.5	<2	0.36	<0.5	8	18	15	2.64
CC138227		0.43	0.001	<0.2	1.51	4	<10	370	0.5	<2	0.52	<0.5	8	15	19	3.26
CC138228		0.33	0.001	<0.2	1.09	3	<10	560	<0.5	<2	0.43	<0.5	7	19	11	2.76
CC138229		0.12	<0.001	<0.2	0.69	<2	<10	550	<0.5	<2	0.77	<0.5	10	7	26	1.16
CC138230		0.15	0.001	<0.2	0.44	3	<10	280	<0.5	<2	0.59	<0.5	4	5	18	1.19
CC138381		0.23	0.001	<0.2	0.57	7	<10	290	<0.5	<2	0.62	<0.5	8	6	22	1.98
CC138382		0.49	0.001	<0.2	1.84	7	<10	480	0.5	2	0.49	<0.5	8	25	25	3.16



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC138058		<10	<1	0.14	30	0.32	746	<1	0.01	10	320	33	<0.01	2	7	32
CC138059		10	<1	0.09	20	0.41	555	<1	0.02	8	570	8	0.01	<2	5	30
CC138060		10	<1	0.07	10	0.33	188	1	0.01	10	140	17	<0.01	2	2	23
CC138061		<10	<1	0.18	20	0.59	386	<1	0.02	14	630	7	0.02	<2	6	37
CC138062		<10	<1	0.07	10	0.32	196	1	0.01	10	370	7	<0.01	<2	2	15
CC138063		10	<1	0.09	10	0.51	192	<1	0.02	10	690	6	0.01	<2	4	32
CC138064		10	<1	0.09	10	0.51	303	<1	0.02	10	280	8	<0.01	<2	4	23
CC138065		<10	<1	0.12	10	0.45	306	<1	0.02	6	500	4	<0.01	<2	3	26
CC138066		<10	<1	0.09	10	0.39	166	<1	0.02	8	700	4	0.02	<2	3	36
CC138067		10	<1	0.13	10	0.52	178	<1	0.01	11	600	7	0.01	<2	4	25
CC138068		10	<1	0.13	10	0.62	318	<1	0.02	9	530	6	<0.01	<2	4	23
CC138069		<10	<1	0.09	10	0.46	180	1	0.02	14	590	11	<0.01	2	3	23
CC138070		<10	<1	0.11	10	0.57	397	1	0.02	12	620	9	0.01	<2	4	31
CC138101		10	<1	0.13	20	0.52	329	<1	0.02	20	300	9	<0.01	<2	5	23
CC138102		10	<1	0.10	10	0.54	402	<1	0.03	19	210	9	<0.01	<2	3	26
CC138103		10	<1	0.12	10	0.54	760	1	0.01	13	430	8	<0.01	<2	4	24
CC138104		10	<1	0.10	10	0.48	349	1	0.01	16	340	6	<0.01	<2	3	14
CC138105		10	<1	0.21	50	0.80	602	<1	0.02	7	460	6	<0.01	<2	10	27
CC138106		<10	<1	0.15	40	0.51	1095	1	0.02	11	820	6	0.04	<2	7	50
CC138107		<10	<1	0.10	10	0.35	463	1	0.03	11	220	8	<0.01	<2	3	33
CC138108		<10	<1	0.11	10	0.29	290	<1	0.03	6	300	3	<0.01	<2	3	24
CC138109		<10	<1	0.16	20	0.49	308	<1	0.02	11	430	4	<0.01	<2	7	29
CC138110		<10	<1	0.13	20	0.33	343	<1	0.03	7	500	2	0.03	<2	4	48
CC138111		<10	<1	0.08	10	0.30	273	1	0.02	10	310	7	<0.01	<2	3	22
CC138112		10	<1	0.12	10	0.51	323	1	0.02	9	240	6	<0.01	<2	4	21
CC138113		10	<1	0.09	10	0.50	285	1	0.02	14	180	7	<0.01	<2	3	22
CC138114		10	<1	0.18	10	0.54	564	1	0.02	8	500	9	<0.01	<2	6	26
CC138115		10	<1	0.21	10	1.51	802	<1	0.02	11	450	12	<0.01	<2	14	31
CC138116		10	<1	0.10	10	0.56	351	1	0.02	16	290	8	<0.01	2	4	25
CC138117		10	<1	0.07	10	0.45	1430	1	0.02	11	360	10	<0.01	<2	4	20
CC138118		10	<1	0.09	10	0.36	263	1	0.01	12	300	8	<0.01	<2	3	19
CC138119		10	<1	0.10	10	0.54	304	1	0.01	16	290	10	<0.01	<2	4	30
CC138120		10	<1	0.29	20	0.55	788	1	0.02	10	390	10	<0.01	<2	8	22
CC138226		10	<1	0.19	10	0.59	337	<1	0.01	8	520	5	<0.01	<2	5	22
CC138227		10	<1	0.22	20	0.47	405	1	0.02	8	430	8	0.01	<2	9	30
CC138228		<10	<1	0.19	10	0.48	327	1	0.02	9	900	4	0.03	<2	4	28
CC138229		<10	<1	0.03	10	0.08	6200	1	0.04	9	1130	2	0.13	<2	1	55
CC138230		<10	<1	0.03	<10	0.06	630	1	0.04	6	760	<2	0.06	<2	1	38
CC138381		<10	<1	0.03	10	0.06	976	1	0.04	7	760	2	0.07	<2	1	43
CC138382		10	<1	0.29	20	0.68	411	1	0.01	12	650	10	0.03	<2	7	34



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC138058		30	0.02	<10	<10	46	<10	42
CC138059		<20	0.06	<10	<10	61	<10	53
CC138060		<20	0.05	<10	<10	58	<10	40
CC138061		<20	0.09	<10	<10	54	<10	57
CC138062		<20	0.06	<10	<10	48	<10	32
CC138063		<20	0.07	<10	<10	49	<10	49
CC138064		<20	0.07	<10	<10	53	<10	47
CC138065		<20	0.08	<10	<10	52	<10	44
CC138066		<20	0.06	<10	<10	35	<10	38
CC138067		<20	0.08	<10	<10	49	<10	46
CC138068		<20	0.11	<10	<10	50	<10	48
CC138069		<20	0.08	<10	<10	44	<10	45
CC138070		<20	0.10	<10	<10	53	<10	56
CC138101		<20	0.09	<10	<10	70	<10	48
CC138102		<20	0.14	<10	<10	82	<10	70
CC138103		<20	0.11	<10	<10	77	<10	56
CC138104		<20	0.09	<10	<10	65	<10	51
CC138105		20	0.10	<10	<10	72	<10	50
CC138106		<20	0.06	<10	<10	51	<10	45
CC138107		<20	0.09	<10	<10	62	<10	51
CC138108		<20	0.06	<10	<10	41	<10	28
CC138109		<20	0.09	<10	<10	49	<10	41
CC138110		<20	0.06	<10	<10	36	<10	32
CC138111		<20	0.08	<10	<10	62	<10	33
CC138112		<20	0.12	<10	<10	66	<10	46
CC138113		<20	0.11	<10	<10	65	<10	47
CC138114		<20	0.08	<10	<10	72	<10	65
CC138115		20	0.10	<10	<10	120	<10	78
CC138116		<20	0.13	<10	<10	84	<10	63
CC138117		<20	0.08	<10	<10	75	<10	51
CC138118		<20	0.11	<10	<10	70	<10	41
CC138119		<20	0.11	<10	<10	77	<10	51
CC138120		20	0.13	<10	<10	70	<10	59
CC138226		<20	0.11	<10	<10	62	<10	52
CC138227		<20	0.08	<10	<10	72	<10	55
CC138228		<20	0.10	<10	<10	68	<10	54
CC138229		<20	0.02	<10	<10	20	<10	37
CC138230		<20	0.02	<10	<10	14	<10	21
CC138381		<20	0.03	<10	<10	40	<10	23
CC138382		<20	0.11	<10	<10	74	<10	60



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To: ARCHER, CATHRO AND ASSOCIATES (1981)  
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**CERTIFICATE OF ANALYSIS WH11122915**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC138383		0.39	0.003	<0.2	1.04	3	<10	290	0.5	<2	0.35	<0.5	6	15	13	2.30
CC138501		0.33	0.004	<0.2	2.72	10	<10	870	0.5	<2	0.24	<0.5	9	19	13	4.01
CC138502		0.29	0.001	<0.2	1.13	6	<10	90	<0.5	<2	0.11	<0.5	8	13	10	1.64
CC138503		0.18	0.002	<0.2	1.76	8	<10	150	0.8	<2	0.22	<0.5	8	19	23	2.07
CC138504		0.27	0.005	<0.2	0.84	5	<10	90	0.5	<2	0.17	<0.5	3	10	23	1.18
CC138505		0.33	0.009	<0.2	1.77	7	<10	100	0.6	2	0.13	<0.5	7	23	21	2.27
CC138506		0.28	0.003	<0.2	1.82	8	<10	100	0.5	<2	0.10	<0.5	6	19	16	2.37
CC138507		0.19	0.002	0.4	0.66	2	<10	130	0.7	<2	0.23	<0.5	2	7	25	0.89
CC138508		0.29	0.001	<0.2	1.10	5	<10	170	0.5	<2	0.27	<0.5	5	11	25	1.43
CC138509		0.32	0.001	<0.2	1.86	4	<10	260	0.6	<2	0.30	<0.5	10	15	10	3.18
CC138510		0.21	0.002	<0.2	1.09	5	<10	160	<0.5	<2	0.24	<0.5	4	14	17	1.97
CC138511		0.20	0.001	<0.2	2.54	8	<10	360	0.5	<2	0.24	<0.5	9	35	20	3.59
CC138512		0.21	0.001	<0.2	1.58	6	<10	190	<0.5	<2	0.41	<0.5	5	25	26	2.70
CC138513		0.34	0.001	<0.2	1.02	3	<10	170	0.5	<2	0.45	<0.5	5	10	20	2.33
CC138514		0.22	<0.001	<0.2	1.77	4	<10	230	<0.5	<2	0.16	<0.5	8	20	17	2.63
CC138515		0.35	0.003	<0.2	2.17	7	<10	280	<0.5	<2	0.27	<0.5	9	26	26	2.96
CC138516		0.24	0.002	<0.2	1.63	6	<10	350	0.6	<2	0.73	<0.5	7	14	22	2.65
CC138517		0.17	0.004	<0.2	1.47	5	<10	360	0.6	<2	1.18	<0.5	7	14	30	2.11
CC138518		0.27	0.002	<0.2	1.54	5	<10	290	0.5	<2	0.71	<0.5	8	20	30	2.16
CC138519		0.28	0.001	0.2	2.33	2	<10	400	1.0	<2	0.78	<0.5	8	11	20	3.21
CC138520		0.25	0.002	<0.2	1.16	6	<10	130	<0.5	<2	0.32	<0.5	6	18	14	2.04
CC138521		0.35	0.001	<0.2	1.55	8	<10	230	0.6	<2	0.37	<0.5	7	21	14	2.40
CC138522		0.36	0.001	<0.2	1.37	9	<10	150	<0.5	<2	0.25	<0.5	6	19	11	2.29
CC138523		0.30	0.001	<0.2	2.47	7	<10	260	0.5	<2	0.22	<0.5	10	26	12	3.48
CC138524		0.24	0.002	<0.2	1.13	4	<10	160	<0.5	<2	0.19	<0.5	6	15	20	1.84
CC138525		0.24	0.003	<0.2	1.62	10	<10	100	<0.5	<2	0.10	<0.5	7	20	11	2.73
CC138526		0.29	0.006	<0.2	1.91	9	<10	170	0.5	<2	0.17	<0.5	9	25	21	2.57
CC138527		0.21	0.004	<0.2	1.45	10	<10	100	<0.5	<2	0.20	<0.5	3	19	22	2.56
CC138528		Destroyed														
CC138529		0.39	0.001	<0.2	1.42	15	<10	120	<0.5	<2	0.15	<0.5	5	22	13	3.03
CC138530		0.39	0.002	<0.2	3.21	8	<10	200	0.7	<2	0.10	<0.5	13	17	15	3.66
CC138611		0.37	0.001	<0.2	1.58	11	<10	200	<0.5	<2	0.27	<0.5	7	20	16	3.23
CC138612		0.26	0.008	<0.2	1.07	5	<10	190	0.5	<2	0.34	0.5	6	13	39	2.62
CC138613		0.41	<0.001	<0.2	1.99	10	<10	210	<0.5	<2	0.25	<0.5	7	19	11	3.09
CC138614		0.30	0.001	<0.2	1.59	4	<10	240	<0.5	<2	0.36	<0.5	7	16	11	2.65
CC138615		0.34	0.001	<0.2	1.70	14	<10	140	<0.5	2	0.17	<0.5	6	23	13	3.04
CC138616		0.30	0.001	0.2	0.99	4	<10	170	0.7	<2	0.22	<0.5	4	12	13	1.52
CC138617		0.36	0.013	<0.2	1.56	8	<10	140	0.6	<2	0.16	<0.5	7	20	14	2.12
CC138618		0.45	0.026	<0.2	0.82	5	<10	120	<0.5	<2	0.25	<0.5	4	14	9	1.69
CC138619		0.44	0.006	<0.2	1.08	4	<10	150	0.5	<2	0.22	<0.5	6	13	12	1.88



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC138383		<10	<1	0.21	10	0.38	345	1	0.02	7	530	7	0.02	<2	4	25
CC138501		10	<1	0.32	10	0.77	382	1	0.02	10	240	7	<0.01	<2	7	23
CC138502		10	1	0.07	10	0.15	654	1	0.01	5	260	24	0.01	<2	1	18
CC138503		10	<1	0.11	10	0.25	536	1	0.01	9	470	29	0.03	2	2	26
CC138504		<10	<1	0.07	10	0.15	191	<1	0.02	5	220	22	0.01	<2	1	20
CC138505		10	1	0.09	10	0.32	260	1	0.01	13	200	28	0.02	<2	3	18
CC138506		10	1	0.07	10	0.25	202	1	0.01	9	210	18	0.03	<2	2	15
CC138507		<10	<1	0.06	10	0.07	120	<1	0.03	5	650	7	0.05	<2	2	21
CC138508		10	<1	0.08	50	0.16	528	<1	0.02	5	230	8	0.01	<2	3	21
CC138509		10	<1	0.17	10	0.62	603	<1	0.01	9	260	12	<0.01	<2	7	20
CC138510		10	<1	0.07	30	0.22	243	1	0.02	7	170	8	0.01	<2	3	19
CC138511		10	1	0.12	10	0.53	473	1	0.02	16	230	10	0.01	<2	5	25
CC138512		10	1	0.09	10	0.42	276	1	0.02	10	260	14	0.01	<2	3	34
CC138513		<10	<1	0.12	30	0.17	347	<1	0.01	5	800	15	<0.01	<2	2	22
CC138514		10	<1	0.08	10	0.51	338	<1	0.02	11	220	8	0.01	<2	3	15
CC138515		10	<1	0.11	10	0.56	258	1	0.02	18	220	10	<0.01	<2	4	25
CC138516		10	<1	0.28	30	0.56	344	<1	0.02	8	560	7	0.04	<2	7	42
CC138517		<10	<1	0.21	50	0.45	446	<1	0.03	9	680	6	0.07	<2	6	66
CC138518		<10	<1	0.13	40	0.42	406	<1	0.02	11	700	7	0.04	<2	5	43
CC138519		10	<1	0.35	80	0.65	528	<1	0.03	7	520	9	0.03	<2	15	40
CC138520		<10	<1	0.12	10	0.43	337	<1	0.02	11	260	7	0.01	<2	3	21
CC138521		10	<1	0.15	40	0.49	268	<1	0.02	12	250	8	0.01	<2	7	23
CC138522		10	<1	0.10	10	0.40	218	<1	0.02	11	260	6	<0.01	<2	3	17
CC138523		10	<1	0.15	10	0.72	420	1	0.02	13	240	10	<0.01	<2	5	24
CC138524		<10	<1	0.06	10	0.24	407	1	0.02	8	180	5	<0.01	<2	2	21
CC138525		10	<1	0.07	10	0.34	472	1	0.02	12	590	8	0.02	<2	2	12
CC138526		<10	<1	0.08	10	0.45	271	<1	0.02	16	240	10	0.01	<2	4	16
CC138527		10	<1	0.04	10	0.20	191	1	0.02	7	250	13	0.01	<2	2	24
CC138528																
CC138529		10	<1	0.07	10	0.34	216	1	0.02	11	270	10	0.01	3	2	16
CC138530		10	<1	0.15	10	0.60	508	1	0.02	8	330	10	0.02	2	5	12
CC138611		10	<1	0.17	10	0.56	337	2	0.03	10	150	10	0.01	2	5	21
CC138612		<10	<1	0.12	30	0.26	466	1	0.03	8	350	12	0.02	2	5	24
CC138613		10	<1	0.14	10	0.56	398	1	0.02	9	260	14	0.01	<2	4	20
CC138614		10	<1	0.13	10	0.52	404	<1	0.03	8	200	11	0.01	<2	5	26
CC138615		10	<1	0.11	10	0.48	238	1	0.02	13	200	9	0.01	<2	3	13
CC138616		<10	<1	0.10	30	0.23	243	<1	0.03	7	200	12	0.01	<2	3	19
CC138617		<10	<1	0.09	10	0.34	239	<1	0.02	12	160	21	0.01	2	3	17
CC138618		<10	<1	0.08	10	0.29	178	<1	0.02	7	510	6	0.01	<2	2	14
CC138619		<10	<1	0.10	10	0.30	470	<1	0.02	7	390	14	0.01	<2	2	19



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**CERTIFICATE OF ANALYSIS WH11122915**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC138383		<20	0.08	<10	<10	51	<10	46
CC138501		<20	0.14	<10	<10	86	<10	62
CC138502		<20	0.03	<10	<10	41	<10	31
CC138503		<20	0.02	<10	<10	42	<10	39
CC138504		<20	0.03	<10	<10	28	<10	23
CC138505		20	0.04	<10	<10	44	<10	36
CC138506		<20	0.04	<10	<10	44	<10	31
CC138507		<20	0.02	<10	<10	17	<10	15
CC138508		<20	0.05	<10	<10	36	<10	21
CC138509		20	0.09	<10	<10	62	<10	54
CC138510		<20	0.10	<10	<10	61	<10	32
CC138511		<20	0.14	<10	<10	89	<10	72
CC138512		<20	0.09	<10	<10	74	<10	37
CC138513		<20	0.01	<10	<10	29	<10	38
CC138514		<20	0.10	<10	<10	63	<10	51
CC138515		<20	0.10	<10	<10	68	<10	62
CC138516		<20	0.11	<10	<10	57	<10	51
CC138517		<20	0.07	<10	<10	43	<10	43
CC138518		<20	0.06	<10	<10	47	<10	40
CC138519		30	0.08	<10	<10	67	<10	60
CC138520		<20	0.08	<10	<10	44	<10	38
CC138521		20	0.09	<10	<10	54	<10	51
CC138522		<20	0.09	<10	<10	53	<10	36
CC138523		<20	0.12	<10	<10	80	<10	68
CC138524		<20	0.07	<10	<10	47	<10	31
CC138525		<20	0.08	<10	<10	55	<10	43
CC138526		<20	0.07	<10	<10	53	<10	41
CC138527		<20	0.07	<10	<10	74	<10	33
CC138528								
CC138529		<20	0.07	<10	<10	65	<10	41
CC138530		<20	0.05	<10	<10	66	<10	44
CC138611		<20	0.12	<10	<10	77	<10	52
CC138612		<20	0.06	<10	<10	60	<10	58
CC138613		<20	0.07	<10	<10	67	<10	56
CC138614		<20	0.08	<10	<10	56	<10	55
CC138615		<20	0.10	<10	<10	69	<10	45
CC138616		<20	0.04	<10	<10	35	<10	28
CC138617		<20	0.03	<10	<10	39	<10	36
CC138618		<20	0.05	<10	<10	38	<10	31
CC138619		<20	0.04	<10	<10	38	<10	40



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC138620		0.34	0.006	<0.2	1.55	6	<10	220	0.9	<2	0.33	<0.5	7	14	17	2.63
CC138621		0.42	0.001	<0.2	1.53	6	<10	210	<0.5	<2	0.33	<0.5	8	16	11	2.70
CC138622		0.51	0.010	<0.2	2.02	8	<10	260	0.6	<2	0.29	<0.5	9	19	14	3.04
CC138623		0.48	0.004	0.2	1.88	8	<10	160	<0.5	<2	0.21	<0.5	8	26	18	2.63
CC138624		0.26	0.002	<0.2	1.59	8	<10	140	<0.5	<2	0.18	<0.5	8	19	15	2.67
CC138625		0.43	0.001	<0.2	1.77	7	<10	220	<0.5	<2	0.29	<0.5	10	23	23	2.91
CC138626		0.55	<0.001	<0.2	1.67	6	<10	280	0.7	<2	0.29	<0.5	7	12	12	2.81
CC138627		0.36	0.001	0.2	1.53	4	<10	240	0.8	<2	0.31	<0.5	5	11	23	1.69
CC138628		0.50	0.001	<0.2	1.50	5	<10	170	<0.5	<2	0.20	<0.5	6	15	10	2.45
CC138629		0.24	0.004	0.2	1.49	3	<10	310	0.6	<2	0.28	<0.5	4	10	19	1.53
CC138630		0.53	0.004	<0.2	1.27	4	<10	230	<0.5	<2	0.35	<0.5	6	15	8	2.49
CC138721		0.28	0.002	<0.2	1.68	9	<10	160	<0.5	<2	0.16	<0.5	6	18	15	2.70
CC138722		0.27	0.001	<0.2	2.89	15	<10	190	0.6	<2	0.14	<0.5	10	32	32	3.14
CC138723		0.38	0.002	<0.2	1.89	13	<10	140	<0.5	<2	0.13	<0.5	6	27	22	3.48
CC138724		0.36	0.005	<0.2	1.30	8	<10	160	<0.5	<2	0.18	<0.5	8	18	23	2.31
CC138725		0.28	0.002	<0.2	1.65	9	<10	180	<0.5	<2	0.13	<0.5	7	23	11	2.62
CC138726		0.35	0.001	<0.2	1.63	5	<10	310	0.7	<2	0.45	<0.5	7	17	14	3.04
CC138727		0.28	0.003	0.2	2.18	8	<10	250	<0.5	<2	0.23	<0.5	9	30	15	3.15
CC138728		0.31	0.002	<0.2	1.67	9	<10	180	<0.5	<2	0.16	<0.5	7	20	11	2.49
CC138729		0.26	0.001	0.2	1.43	7	<10	240	<0.5	<2	0.39	<0.5	7	17	14	2.16
CC138730		0.37	0.001	<0.2	1.42	7	<10	190	<0.5	<2	0.39	<0.5	7	20	11	2.57
CC138731		0.30	0.002	<0.2	1.48	7	<10	180	<0.5	<2	0.31	<0.5	7	21	14	2.28
CC138732		0.37	0.001	<0.2	1.52	5	<10	360	0.6	<2	0.49	<0.5	11	14	17	3.17
CC138733		0.31	0.003	0.3	1.72	4	<10	460	0.7	<2	0.84	<0.5	8	19	26	2.44
CC138734		0.24	0.005	<0.2	1.58	6	<10	360	0.6	<2	0.62	<0.5	8	21	24	2.64
CC138735		0.23	0.005	0.2	1.18	5	<10	270	0.5	<2	0.40	<0.5	6	14	27	1.95
CC138736		0.24	0.836	<0.2	0.76	5	<10	140	<0.5	<2	0.42	<0.5	5	12	12	1.47
CC138737		0.35	0.003	0.3	1.39	8	<10	290	0.5	<2	0.36	<0.5	8	21	29	2.04
CC138738		0.28	0.002	<0.2	1.56	7	<10	200	<0.5	<2	0.27	<0.5	9	22	14	2.44
CC138739		0.28	0.002	<0.2	2.11	8	<10	280	0.5	<2	0.33	<0.5	9	20	10	3.17
CC138740		0.28	0.081	<0.2	1.91	6	<10	230	<0.5	<2	0.32	<0.5	10	16	10	3.21
CC138741		0.25	0.002	<0.2	1.40	6	<10	230	<0.5	<2	0.20	<0.5	10	19	10	2.49
CC138742		0.23	0.005	0.3	2.93	13	<10	440	1.6	<2	0.51	<0.5	18	35	57	4.07
CC138743		0.27	0.010	<0.2	1.98	14	<10	220	0.5	<2	0.23	<0.5	9	23	20	3.61
CC138744		0.25	0.005	<0.2	2.73	15	<10	270	0.5	<2	0.20	<0.5	12	29	20	4.02
CC138745		0.28	0.001	<0.2	2.11	14	<10	160	0.5	<2	0.17	<0.5	9	25	23	3.20
CC138746		0.25	0.002	<0.2	2.69	4	<10	220	1.0	<2	0.18	<0.5	12	12	17	3.90
CC138747		0.32	0.001	<0.2	1.65	3	<10	350	1.2	<2	0.26	<0.5	10	12	7	3.27
CC138748		0.31	<0.001	<0.2	1.59	9	<10	110	<0.5	<2	0.15	<0.5	6	20	15	2.40
CC138749		0.21	0.001	<0.2	1.15	13	<10	110	<0.5	<2	0.18	<0.5	6	18	16	2.49





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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC138620		<10	<1	0.16	20	0.46	606	<1	0.02	7	450	23	0.02	<2	5	25
CC138621		10	<1	0.13	20	0.60	529	<1	0.02	8	510	8	0.01	<2	5	20
CC138622		10	<1	0.21	20	0.63	541	<1	0.02	11	260	11	0.01	<2	6	18
CC138623		<10	<1	0.07	10	0.51	304	<1	0.03	15	370	8	0.01	<2	3	16
CC138624		10	<1	0.10	10	0.37	563	1	0.02	11	390	14	0.01	<2	3	18
CC138625		10	<1	0.12	20	0.59	499	<1	0.02	13	370	29	0.01	<2	5	23
CC138626		<10	<1	0.19	20	0.42	363	<1	0.03	6	290	10	0.01	<2	6	18
CC138627		<10	<1	0.10	60	0.18	439	<1	0.04	7	440	8	0.03	<2	5	23
CC138628		10	<1	0.11	10	0.48	331	<1	0.03	8	230	7	0.01	<2	4	17
CC138629		<10	<1	0.08	90	0.19	286	<1	0.04	7	510	6	0.04	<2	4	26
CC138630		10	<1	0.17	10	0.56	416	<1	0.03	8	580	19	0.01	2	4	19
CC138721		10	<1	0.10	10	0.36	227	1	0.03	10	250	9	0.01	<2	3	18
CC138722		10	<1	0.08	10	0.43	276	1	0.03	22	380	11	0.02	<2	4	15
CC138723		10	<1	0.07	10	0.38	252	1	0.02	14	280	14	0.01	<2	3	15
CC138724		<10	<1	0.08	10	0.29	710	1	0.03	11	380	7	0.01	<2	2	19
CC138725		10	<1	0.11	10	0.44	268	1	0.03	14	230	8	0.01	<2	3	13
CC138726		10	<1	0.25	20	0.63	454	<1	0.03	9	370	13	0.02	<2	7	29
CC138727		10	<1	0.08	10	0.50	423	1	0.02	14	200	9	0.01	<2	4	22
CC138728		10	<1	0.14	10	0.48	337	<1	0.03	12	200	8	0.01	<2	4	15
CC138729		10	<1	0.12	20	0.39	422	1	0.03	10	340	6	0.02	<2	4	24
CC138730		<10	<1	0.23	10	0.61	336	<1	0.03	10	210	6	0.02	<2	5	23
CC138731		<10	<1	0.13	10	0.49	270	<1	0.03	14	220	6	0.01	<2	3	21
CC138732		10	<1	0.35	30	0.60	714	1	0.01	9	490	9	<0.01	<2	8	26
CC138733		10	<1	0.27	70	0.57	323	<1	0.01	9	640	7	0.05	2	13	48
CC138734		<10	1	0.18	40	0.57	360	1	0.01	12	430	7	0.01	<2	8	34
CC138735		<10	<1	0.14	60	0.38	260	1	0.01	8	360	4	<0.01	<2	6	23
CC138736		<10	<1	0.09	10	0.27	310	1	0.01	6	390	5	0.01	<2	2	27
CC138737		<10	1	0.09	50	0.39	315	1	0.01	12	420	7	<0.01	<2	6	27
CC138738		10	<1	0.11	10	0.45	341	1	<0.01	11	200	6	<0.01	<2	3	23
CC138739		10	1	0.20	10	0.70	488	1	<0.01	11	290	9	<0.01	<2	6	23
CC138740		10	<1	0.19	10	0.78	430	1	0.01	7	310	5	<0.01	<2	6	28
CC138741		<10	1	0.20	10	0.46	460	<1	<0.01	11	240	6	<0.01	<2	4	21
CC138742		10	<1	0.15	80	0.55	2010	1	0.01	24	530	14	0.01	<2	12	55
CC138743		10	1	0.15	10	0.52	472	1	<0.01	13	270	11	<0.01	<2	5	26
CC138744		10	1	0.14	10	0.63	454	1	<0.01	19	280	9	<0.01	<2	5	28
CC138745		10	<1	0.10	10	0.45	280	1	<0.01	17	340	7	<0.01	<2	4	19
CC138746		10	1	0.17	20	0.55	654	<1	<0.01	10	370	13	<0.01	<2	8	17
CC138747		10	<1	0.24	40	0.70	661	<1	<0.01	6	390	13	<0.01	<2	8	20
CC138748		10	1	0.07	10	0.31	182	1	<0.01	12	380	5	<0.01	<2	2	14
CC138749		10	<1	0.07	10	0.30	414	1	<0.01	10	290	6	<0.01	<2	2	23



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC138620		20	0.04	<10	<10	43	<10	55
CC138621		<20	0.09	<10	<10	53	<10	50
CC138622		<20	0.10	<10	<10	63	<10	47
CC138623		<20	0.08	<10	<10	54	<10	49
CC138624		<20	0.08	<10	<10	65	<10	54
CC138625		<20	0.11	<10	<10	66	<10	67
CC138626		<20	0.06	<10	<10	51	<10	44
CC138627		<20	0.02	<10	<10	35	<10	26
CC138628		<20	0.07	<10	<10	53	<10	42
CC138629		<20	0.03	<10	<10	33	<10	20
CC138630		<20	0.11	<10	<10	51	<10	59
CC138721		<20	0.10	<10	<10	58	<10	37
CC138722		<20	0.08	<10	<10	62	<10	47
CC138723		<20	0.10	<10	<10	83	<10	47
CC138724		<20	0.07	<10	<10	56	<10	35
CC138725		<20	0.09	<10	<10	57	<10	40
CC138726		20	0.11	<10	<10	59	<10	58
CC138727		<20	0.10	<10	<10	75	<10	56
CC138728		<20	0.10	<10	<10	56	<10	41
CC138729		<20	0.08	<10	<10	50	<10	35
CC138730		<20	0.11	<10	<10	57	<10	43
CC138731		<20	0.09	<10	<10	50	<10	40
CC138732		20	0.12	<10	<10	64	<10	57
CC138733		20	0.09	<10	<10	56	<10	49
CC138734		<20	0.07	<10	<10	56	<10	47
CC138735		<20	0.07	<10	<10	43	<10	31
CC138736		<20	0.05	<10	<10	34	<10	29
CC138737		<20	0.06	<10	<10	43	<10	37
CC138738		<20	0.09	<10	<10	54	<10	45
CC138739		<20	0.09	<10	<10	68	<10	50
CC138740		<20	0.10	<10	<10	70	<10	49
CC138741		<20	0.09	<10	<10	50	<10	49
CC138742		30	0.07	<10	<10	78	<10	64
CC138743		<20	0.10	<10	<10	74	<10	49
CC138744		<20	0.11	<10	<10	83	<10	64
CC138745		<20	0.09	<10	<10	66	<10	46
CC138746		<20	0.05	<10	<10	62	<10	47
CC138747		30	0.12	<10	<10	58	<10	53
CC138748		<20	0.08	<10	<10	50	<10	39
CC138749		<20	0.09	<10	<10	62	<10	34



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC138750		0.28	0.004	<0.2	1.79	10	<10	290	<0.5	<2	0.26	<0.5	10	29	17	2.62
CC138781		0.55	0.001	<0.2	1.41	9	<10	120	0.6	<2	0.17	<0.5	6	18	16	1.96
CC138782		0.47	<0.001	<0.2	0.76	4	<10	100	0.5	<2	0.13	<0.5	2	8	20	0.92
CC138783		0.67	0.001	<0.2	0.84	8	<10	90	<0.5	<2	0.16	<0.5	4	13	11	1.56
CC138784		0.23	0.001	<0.2	0.65	4	<10	50	<0.5	<2	0.08	<0.5	3	8	13	1.26
CC138785		0.33	0.002	<0.2	1.04	8	<10	110	0.5	<2	0.18	<0.5	4	13	21	1.72
CC138786		0.27	0.002	<0.2	1.02	4	<10	70	<0.5	<2	0.08	<0.5	3	9	12	1.50
CC138787		0.49	0.008	<0.2	1.80	9	<10	110	<0.5	<2	0.11	<0.5	7	23	16	2.77
CC138788		0.35	0.001	<0.2	1.17	7	<10	130	<0.5	<2	0.15	<0.5	5	16	15	1.92
CC138789		0.45	0.002	<0.2	1.30	10	<10	140	<0.5	<2	0.22	<0.5	7	18	10	2.60
CC138790		0.49	0.002	<0.2	1.58	9	<10	170	<0.5	<2	0.23	<0.5	7	23	11	2.68
CC138791		0.47	0.001	<0.2	1.75	7	<10	260	0.5	<2	0.22	<0.5	10	20	17	3.24
CC138792		0.35	0.001	0.2	1.85	7	<10	200	<0.5	<2	0.16	<0.5	10	28	11	2.86
CC138793		0.55	0.003	<0.2	2.27	5	<10	290	0.7	<2	0.38	<0.5	12	21	17	3.80
CC138794		0.45	0.002	<0.2	1.93	8	<10	330	0.6	<2	0.30	<0.5	11	18	12	3.44
CC138795		0.47	0.006	0.2	2.10	10	<10	250	<0.5	<2	0.19	<0.5	9	25	18	3.20
CC138796		0.54	0.001	<0.2	2.10	10	<10	270	<0.5	<2	0.24	<0.5	10	28	16	3.07
CC138797		0.34	0.002	0.4	1.30	3	<10	520	0.6	<2	1.04	<0.5	5	13	38	1.81
CC138798		0.30	0.003	0.3	1.01	<2	<10	430	0.5	<2	0.67	<0.5	4	11	34	1.79
CC138799		0.33	0.002	<0.2	1.82	4	<10	350	0.6	<2	0.43	<0.5	9	15	20	3.40
CC138800		0.48	0.002	<0.2	0.94	5	<10	170	<0.5	<2	0.30	<0.5	5	15	12	1.88
CC131231		0.20	0.014	<0.2	1.47	74	<10	100	0.5	<2	0.31	<0.5	8	30	17	2.69



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC138750		10	1	0.06	10	0.49	655	<1	<0.01	17	520	6	<0.01	<2	3	23
CC138781		<10	<1	0.08	10	0.26	269	1	0.01	8	390	19	<0.01	<2	2	19
CC138782		<10	<1	0.04	10	0.05	146	1	0.01	3	330	20	0.01	2	1	17
CC138783		<10	<1	0.05	10	0.22	120	1	<0.01	7	320	8	<0.01	<2	2	13
CC138784		<10	<1	0.04	<10	0.11	87	1	0.01	6	160	8	<0.01	<2	1	11
CC138785		<10	<1	0.05	10	0.21	232	1	<0.01	8	180	17	<0.01	<2	2	19
CC138786		<10	<1	0.05	10	0.14	122	1	<0.01	4	120	13	<0.01	<2	1	14
CC138787		10	1	0.07	10	0.33	255	1	<0.01	13	280	12	<0.01	<2	3	12
CC138788		<10	<1	0.07	10	0.25	176	1	<0.01	9	200	12	<0.01	<2	2	14
CC138789		10	<1	0.10	10	0.43	334	1	<0.01	8	140	12	<0.01	<2	4	18
CC138790		10	<1	0.09	10	0.48	277	1	<0.01	12	180	7	<0.01	<2	3	17
CC138791		10	<1	0.19	20	0.53	631	1	<0.01	11	260	9	<0.01	<2	5	23
CC138792		10	<1	0.15	10	0.57	449	1	<0.01	14	300	7	<0.01	2	4	15
CC138793		10	1	0.18	30	0.78	644	1	0.01	10	450	10	<0.01	<2	7	29
CC138794		10	<1	0.33	20	0.83	575	1	0.01	9	240	8	<0.01	<2	7	25
CC138795		10	<1	0.12	10	0.54	342	1	<0.01	15	230	8	<0.01	<2	4	21
CC138796		10	1	0.09	10	0.54	375	1	0.01	18	210	9	<0.01	<2	3	24
CC138797		<10	<1	0.15	80	0.36	265	<1	0.02	7	820	3	0.08	<2	8	73
CC138798		<10	<1	0.13	50	0.29	162	<1	0.03	7	780	4	0.09	<2	7	48
CC138799		10	<1	0.32	20	0.80	652	<1	0.01	8	430	9	0.01	<2	10	29
CC138800		<10	<1	0.12	20	0.40	256	<1	0.01	8	480	4	0.02	<2	3	21
CC131231		<10	1	0.14	20	0.47	182	<1	0.01	20	630	8	0.02	2	4	19



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC138750		<20	0.09	<10	<10	58	<10	52
CC138781		<20	0.04	<10	<10	45	<10	36
CC138782		<20	0.03	<10	<10	25	<10	17
CC138783		<20	0.05	<10	<10	37	<10	25
CC138784		<20	0.04	<10	<10	35	<10	20
CC138785		<20	0.03	<10	<10	43	<10	28
CC138786		<20	0.03	<10	<10	34	<10	23
CC138787		<20	0.07	<10	<10	53	<10	43
CC138788		<20	0.04	<10	<10	42	<10	33
CC138789		<20	0.10	<10	<10	63	<10	46
CC138790		<20	0.10	<10	<10	62	<10	47
CC138791		<20	0.13	<10	<10	74	<10	50
CC138792		<20	0.12	<10	<10	64	<10	65
CC138793		20	0.12	<10	<10	77	<10	61
CC138794		20	0.17	<10	<10	73	<10	60
CC138795		<20	0.09	<10	<10	70	<10	58
CC138796		<20	0.12	<10	<10	69	<10	60
CC138797		<20	0.05	<10	<10	38	<10	40
CC138798		<20	0.06	<10	<10	40	<10	33
CC138799		30	0.11	<10	<10	73	<10	74
CC138800		<20	0.07	<10	<10	42	<10	33
CC131231		<20	0.07	<10	<10	43	<10	47



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**Page: 1**  
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**CERTIFICATE WH11138856**

Project: Wolverine- BBB  
 P.O. No.:  
 This report is for 17 Soil samples submitted to our lab in Whitehorse, YT, Canada on 20- JUL- 2011.  
 The following have access to data associated with this certificate:  
 JOAN MARIACHER                      HEATHER SMITH

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Wolverine- BBB

**CERTIFICATE OF ANALYSIS WH11138856**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC132141		0.32	<0.001	<0.2	3.08	12	<10	400	0.9	<2	0.24	<0.5	13	22	14	4.59
CC132142		0.26	<0.001	<0.2	1.09	7	<10	80	<0.5	<2	0.13	<0.5	4	15	12	2.10
CC132143		0.35	0.002	<0.2	2.11	5	<10	240	0.5	2	0.24	<0.5	9	18	20	3.13
CC132144		0.16	<0.001	<0.2	2.24	4	<10	360	0.6	2	0.17	<0.5	11	15	22	3.64
CC132145		0.21	<0.001	<0.2	1.80	6	<10	170	<0.5	2	0.21	<0.5	6	25	12	2.99
CC132146		0.24	<0.001	<0.2	1.12	7	<10	120	<0.5	2	0.24	<0.5	5	21	9	2.27
CC132147		0.18	0.001	<0.2	0.32	<2	<10	60	<0.5	2	0.13	<0.5	1	3	4	0.71
CC132148		0.14	0.001	0.3	0.90	<2	<10	210	<0.5	<2	0.28	<0.5	3	11	37	1.49
CC132149		0.29	<0.001	<0.2	1.25	4	<10	260	<0.5	<2	0.38	<0.5	7	19	16	2.86
CC132150		0.09	<0.001	0.3	0.69	4	<10	370	<0.5	<2	0.77	<0.5	2	4	27	1.01
CC132151		0.25	0.001	<0.2	1.44	4	<10	340	<0.5	<2	0.50	<0.5	5	17	21	1.87
CC132152		0.50	0.021	0.2	1.13	6	<10	230	<0.5	<2	0.36	<0.5	6	16	17	2.11
CC132153		0.42	0.001	0.4	1.66	9	<10	180	<0.5	<2	0.20	<0.5	6	18	27	2.49
CC132154		0.42	<0.001	0.2	1.26	11	<10	80	<0.5	<2	0.14	<0.5	4	19	10	2.58
CC132155		0.30	0.007	0.3	2.46	5	<10	110	<0.5	2	0.10	<0.5	14	10	15	3.71
CC132156		0.49	<0.001	0.2	1.17	8	<10	250	0.5	<2	0.21	<0.5	7	10	13	2.49
CC132157		0.69	0.001	<0.2	2.20	11	<10	250	0.6	<2	0.21	<0.5	10	21	14	2.79



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Project: Wolverine- BBB

**CERTIFICATE OF ANALYSIS WH11138856**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC132141		10	1	0.31	20	0.70	535	<1	0.02	14	480	10	0.01	<2	12	20
CC132142		10	<1	0.07	10	0.25	201	<1	0.01	7	260	5	0.01	<2	2	13
CC132143		10	<1	0.16	10	0.43	484	<1	0.01	10	420	6	0.01	<2	6	19
CC132144		10	<1	0.24	20	0.45	805	<1	0.01	9	400	9	0.01	2	10	13
CC132145		10	<1	0.08	10	0.44	264	1	0.01	9	200	10	0.01	<2	4	21
CC132146		10	<1	0.07	10	0.41	188	<1	0.01	11	250	7	0.01	<2	3	18
CC132147		<10	<1	0.03	<10	0.04	55	<1	0.04	1	360	<2	0.01	<2	1	11
CC132148		<10	<1	0.05	20	0.13	105	<1	0.03	8	420	7	0.02	<2	1	26
CC132149		10	<1	0.13	20	0.51	491	<1	0.02	11	650	10	0.02	<2	5	24
CC132150		<10	1	0.04	10	0.06	266	<1	0.04	8	770	2	0.10	<2	2	65
CC132151		10	<1	0.08	20	0.45	190	<1	0.02	9	570	6	0.05	<2	5	39
CC132152		<10	<1	0.10	10	0.42	357	<1	0.02	9	640	6	0.02	<2	4	26
CC132153		10	<1	0.08	10	0.34	220	1	0.01	11	300	11	0.02	<2	3	20
CC132154		10	<1	0.07	10	0.31	176	1	0.01	8	220	9	0.01	<2	2	13
CC132155		10	<1	0.07	10	1.05	696	<1	0.01	7	300	24	0.01	<2	3	9
CC132156		<10	<1	0.14	20	0.28	465	<1	0.02	7	460	12	0.01	<2	5	16
CC132157		10	<1	0.13	20	0.46	410	<1	0.01	15	400	8	0.01	<2	6	17





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 Account: F

Project: Wolverine- BBB

**CERTIFICATE OF ANALYSIS WH11138856**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC132141		20	0.17	<10	<10	93	<10	67
CC132142		<20	0.08	<10	<10	56	<10	28
CC132143		<20	0.06	<10	<10	58	<10	44
CC132144		20	0.09	<10	<10	63	<10	49
CC132145		<20	0.11	<10	<10	76	<10	42
CC132146		<20	0.09	<10	<10	58	<10	38
CC132147		<20	0.03	<10	<10	22	<10	11
CC132148		<20	0.03	<10	<10	38	<10	25
CC132149		<20	0.09	<10	<10	58	<10	58
CC132150		<20	0.02	<10	<10	17	<10	22
CC132151		<20	0.08	<10	<10	42	<10	44
CC132152		<20	0.08	<10	<10	46	<10	40
CC132153		<20	0.05	<10	<10	57	<10	41
CC132154		<20	0.11	<10	<10	69	<10	35
CC132155		<20	0.01	<10	<10	57	<10	73
CC132156		<20	0.06	<10	<10	47	<10	41
CC132157		<20	0.08	<10	<10	54	<10	44



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 Finalized Date: 16- SEP- 2011  
 Account: F**

**CERTIFICATE WH11145416**

Project: Wolverine - BBB  
 P.O. No.:  
 This report is for 232 Soil samples submitted to our lab in Whitehorse, YT, Canada on 29-JUL-2011.  
 The following have access to data associated with this certificate:  
 JOAN MARIACHER                      HEATHER SMITH

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED  
 ATTN: JOAN MARIACHER  
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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Wolverine - BBB

**CERTIFICATE OF ANALYSIS WH11145416**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ04001		0.26	0.003	0.2	1.63	7	<10	310	0.5	<2	0.66	<0.5	10	35	24	2.72
ZZ04002		0.32	0.003	<0.2	1.73	10	<10	310	0.6	<2	0.53	<0.5	10	37	27	2.94
ZZ04003		0.16	0.006	0.2	1.73	7	<10	290	0.5	<2	0.46	<0.5	10	33	21	2.60
ZZ04004		0.28	0.002	<0.2	1.39	7	<10	150	<0.5	<2	0.25	<0.5	10	26	20	2.66
ZZ04005		0.28	0.003	<0.2	1.44	11	<10	100	<0.5	<2	0.15	<0.5	7	23	14	3.07
ZZ04006		0.24	0.003	<0.2	2.73	6	<10	80	1.1	<2	0.48	<0.5	14	43	16	3.64
ZZ04007		0.32	0.003	0.2	1.69	9	<10	310	0.5	<2	0.54	<0.5	9	32	22	2.64
ZZ04008		0.32	0.003	<0.2	1.55	6	<10	260	<0.5	<2	0.51	<0.5	11	34	18	2.76
ZZ04009		0.26	0.001	0.3	1.70	8	<10	330	0.6	<2	0.62	<0.5	10	34	25	2.70
ZZ04010		0.30	0.004	0.2	1.56	7	<10	260	<0.5	<2	0.53	<0.5	12	35	18	2.84
ZZ04011		0.26	0.004	0.2	1.48	13	<10	170	<0.5	<2	0.50	<0.5	8	29	30	2.23
ZZ04012		0.28	0.003	<0.2	1.63	8	<10	180	<0.5	<2	0.42	<0.5	9	33	19	2.52
ZZ04013		0.36	0.009	<0.2	1.65	8	<10	190	<0.5	<2	0.43	<0.5	9	33	20	2.46
ZZ04014		0.28	0.003	<0.2	1.26	5	<10	170	<0.5	<2	0.60	<0.5	7	24	20	1.93
ZZ04015		0.30	0.003	<0.2	1.68	17	<10	190	<0.5	<2	0.50	<0.5	10	33	19	2.70
ZZ04016		0.30	0.001	<0.2	3.61	9	<10	90	0.8	<2	0.43	<0.5	15	43	20	3.93
ZZ04017		0.30	<0.001	<0.2	4.47	7	<10	80	1.0	<2	0.53	<0.5	19	46	18	4.20
ZZ04018		0.26	0.002	<0.2	3.39	7	<10	80	0.8	<2	0.45	<0.5	15	46	19	4.04
ZZ04019		0.18	0.002	0.4	1.76	8	<10	330	0.6	<2	0.63	<0.5	16	26	46	2.91
ZZ04020		0.54	0.004	<0.2	1.88	9	<10	260	<0.5	<2	0.43	<0.5	11	35	21	3.09
ZZ04021		0.32	0.002	<0.2	3.54	6	<10	100	1.1	<2	0.47	<0.5	18	48	17	4.27
ZZ04022		0.30	0.002	0.3	2.23	8	<10	120	0.5	<2	0.22	<0.5	7	28	21	2.71
ZZ04023		0.28	0.004	<0.2	3.08	11	<10	150	0.6	<2	0.25	<0.5	12	39	22	3.21
ZZ04024		0.30	0.002	<0.2	2.57	11	<10	170	0.5	<2	0.24	<0.5	10	37	20	3.23
ZZ04025		0.30	0.002	<0.2	2.14	9	<10	160	<0.5	<2	0.28	<0.5	8	29	23	3.41
ZZ04026		0.24	0.004	<0.2	2.20	9	<10	120	0.5	<2	0.24	<0.5	8	30	18	2.64
ZZ04027		0.28	0.001	0.2	2.62	11	<10	130	0.6	<2	0.25	<0.5	10	35	17	3.24
ZZ04028		0.24	0.004	<0.2	1.93	10	<10	130	<0.5	<2	0.21	<0.5	8	26	22	2.74
ZZ04029		0.30	0.002	<0.2	2.07	11	<10	140	<0.5	<2	0.26	<0.5	8	28	23	2.66
ZZ04030		0.26	0.002	<0.2	1.77	11	<10	100	<0.5	<2	0.18	<0.5	8	24	16	2.34
ZZ04031		0.34	0.001	<0.2	1.71	7	<10	150	<0.5	<2	0.43	<0.5	10	32	22	2.75
ZZ04032		0.40	0.001	0.3	1.45	7	<10	150	<0.5	2	0.35	<0.5	9	32	14	2.53
ZZ04033		0.36	0.001	<0.2	1.24	4	<10	110	<0.5	<2	0.34	<0.5	8	26	12	2.13
ZZ04034		0.40	0.002	<0.2	1.43	7	<10	140	<0.5	<2	0.37	<0.5	10	29	13	2.44
ZZ04035		0.32	0.002	<0.2	1.36	7	<10	180	<0.5	<2	0.37	<0.5	8	28	15	2.32
ZZ04036		0.38	0.001	<0.2	1.99	7	<10	220	<0.5	<2	0.56	<0.5	11	47	18	3.38
ZZ04037		0.32	0.007	<0.2	1.38	7	<10	210	<0.5	<2	0.46	<0.5	8	29	13	2.53
ZZ04038		0.36	0.003	<0.2	1.30	10	<10	180	<0.5	<2	0.43	<0.5	10	28	12	2.90
ZZ04039		0.28	0.002	<0.2	1.75	8	<10	180	<0.5	<2	0.25	<0.5	6	27	16	2.54
ZZ04040		0.28	0.002	<0.2	1.55	8	<10	130	<0.5	<2	0.25	<0.5	8	31	14	2.92



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Project: Wolverine - BBB

**CERTIFICATE OF ANALYSIS WH11145416**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ04001		10	<1	0.05	20	0.62	548	<1	0.02	17	980	6	0.06	<2	4	45
ZZ04002		10	<1	0.06	20	0.59	350	<1	0.02	18	870	7	0.05	<2	6	39
ZZ04003		10	1	0.06	20	0.56	316	<1	0.02	17	650	7	0.03	2	5	35
ZZ04004		<10	<1	0.05	10	0.37	412	<1	0.02	15	410	7	0.01	2	5	22
ZZ04005		10	<1	0.05	10	0.36	393	1	0.01	12	300	8	0.01	<2	3	19
ZZ04006		10	<1	0.05	40	1.24	1695	<1	0.02	14	420	11	<0.01	<2	15	34
ZZ04007		<10	<1	0.05	20	0.55	377	<1	0.02	17	760	7	0.04	<2	5	41
ZZ04008		10	<1	0.06	20	0.61	459	<1	0.02	16	730	6	0.03	<2	5	35
ZZ04009		10	<1	0.06	20	0.56	421	<1	0.02	18	880	7	0.06	<2	5	45
ZZ04010		10	<1	0.06	10	0.66	524	<1	0.02	17	770	5	0.03	<2	5	36
ZZ04011		<10	<1	0.07	20	0.46	325	<1	0.02	23	670	9	0.04	2	7	34
ZZ04012		10	<1	0.06	10	0.58	393	1	0.01	15	660	9	0.02	<2	4	32
ZZ04013		10	<1	0.06	20	0.57	382	1	0.01	15	690	9	0.02	<2	5	31
ZZ04014		<10	<1	0.05	10	0.42	355	<1	0.02	12	750	6	0.05	<2	3	43
ZZ04015		10	<1	0.07	10	0.66	435	1	0.02	14	500	11	0.02	<2	6	36
ZZ04016		10	<1	0.03	10	1.31	1035	<1	0.02	17	270	9	0.01	<2	11	46
ZZ04017		10	<1	0.02	10	1.72	1505	<1	0.02	15	210	10	<0.01	<2	15	55
ZZ04018		10	<1	0.03	10	1.37	1090	<1	0.02	16	300	9	0.01	<2	12	46
ZZ04019		10	<1	0.05	20	0.30	1555	2	0.03	14	1250	8	0.05	<2	6	41
ZZ04020		10	<1	0.08	10	0.70	455	<1	0.02	17	530	6	0.01	<2	7	30
ZZ04021		10	<1	0.05	20	1.58	1860	<1	0.01	17	400	10	<0.01	<2	17	46
ZZ04022		10	<1	0.05	10	0.39	186	1	0.01	14	360	7	0.01	<2	3	27
ZZ04023		10	1	0.08	10	0.64	373	<1	0.02	25	420	9	0.01	2	6	27
ZZ04024		10	<1	0.08	10	0.57	295	1	0.02	23	280	8	0.01	2	4	27
ZZ04025		10	<1	0.05	10	0.45	347	1	0.02	15	320	8	0.01	<2	4	32
ZZ04026		10	<1	0.05	10	0.54	271	<1	0.02	18	240	6	0.01	<2	5	26
ZZ04027		10	1	0.06	10	0.58	322	<1	0.01	20	320	8	0.01	<2	5	28
ZZ04028		10	<1	0.06	10	0.38	296	1	0.02	14	280	8	0.01	<2	3	25
ZZ04029		10	<1	0.06	10	0.45	237	<1	0.01	16	300	8	0.01	<2	3	26
ZZ04030		10	<1	0.05	10	0.39	209	<1	0.01	17	320	6	0.01	<2	3	21
ZZ04031		10	<1	0.07	10	0.70	403	<1	0.02	14	410	15	0.01	<2	5	32
ZZ04032		10	<1	0.06	10	0.62	315	<1	0.02	13	340	9	0.01	<2	3	25
ZZ04033		<10	<1	0.05	10	0.48	263	<1	0.03	11	460	6	0.02	<2	3	25
ZZ04034		10	<1	0.07	10	0.57	369	<1	0.02	14	520	9	0.01	<2	4	24
ZZ04035		<10	<1	0.06	10	0.51	309	<1	0.02	14	420	6	0.02	<2	4	27
ZZ04036		10	<1	0.07	10	0.93	381	<1	0.02	15	410	10	0.03	<2	6	33
ZZ04037		<10	<1	0.06	10	0.56	376	<1	0.02	11	440	7	0.03	<2	4	28
ZZ04038		<10	<1	0.06	10	0.52	476	1	0.02	11	570	6	0.02	<2	4	25
ZZ04039		10	<1	0.06	10	0.44	258	1	0.02	13	360	6	0.02	<2	4	20
ZZ04040		10	<1	0.05	10	0.53	281	1	0.02	11	220	7	0.01	<2	3	21



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ04001		<20	0.04	<10	<10	63	<10	49
ZZ04002		<20	0.05	<10	<10	69	<10	51
ZZ04003		<20	0.05	<10	<10	62	<10	48
ZZ04004		<20	0.04	<10	<10	58	<10	47
ZZ04005		<20	0.07	<10	<10	72	<10	39
ZZ04006		20	0.01	<10	<10	77	<10	49
ZZ04007		<20	0.04	<10	<10	60	<10	48
ZZ04008		<20	0.05	<10	<10	63	<10	52
ZZ04009		<20	0.04	<10	<10	63	<10	49
ZZ04010		<20	0.05	<10	<10	66	<10	52
ZZ04011		<20	0.05	<10	<10	52	<10	55
ZZ04012		<20	0.06	<10	<10	59	<10	51
ZZ04013		<20	0.05	<10	<10	58	<10	51
ZZ04014		<20	0.05	<10	<10	47	<10	48
ZZ04015		<20	0.05	<10	<10	65	<10	57
ZZ04016		<20	0.02	<10	<10	89	<10	59
ZZ04017		<20	<0.01	<10	<10	95	<10	58
ZZ04018		<20	0.02	<10	<10	93	<10	61
ZZ04019		<20	0.03	<10	<10	66	<10	40
ZZ04020		<20	0.07	<10	<10	73	<10	55
ZZ04021		20	0.01	<10	<10	96	<10	59
ZZ04022		<20	0.08	<10	<10	61	<10	39
ZZ04023		<20	0.08	<10	<10	70	<10	58
ZZ04024		<20	0.10	<10	<10	72	<10	63
ZZ04025		<20	0.08	<10	<10	81	<10	54
ZZ04026		<20	0.07	<10	<10	62	<10	51
ZZ04027		<20	0.09	<10	<10	72	<10	66
ZZ04028		<20	0.08	<10	<10	66	<10	44
ZZ04029		<20	0.08	<10	<10	61	<10	44
ZZ04030		<20	0.07	<10	<10	50	<10	40
ZZ04031		<20	0.07	<10	<10	66	<10	52
ZZ04032		<20	0.08	<10	<10	64	<10	49
ZZ04033		<20	0.07	<10	<10	59	<10	40
ZZ04034		<20	0.08	<10	<10	59	<10	55
ZZ04035		<20	0.06	<10	<10	55	<10	49
ZZ04036		<20	0.08	<10	<10	83	<10	64
ZZ04037		<20	0.06	<10	<10	58	<10	56
ZZ04038		<20	0.06	<10	<10	66	<10	49
ZZ04039		<20	0.06	<10	<10	59	<10	45
ZZ04040		<20	0.09	<10	<10	84	<10	49



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ04041		0.28	0.002	<0.2	2.10	10	<10	210	0.5	<2	0.34	<0.5	8	30	28	3.06
ZZ04042		0.34	0.003	<0.2	1.36	6	<10	150	<0.5	<2	0.24	<0.5	6	21	22	2.11
ZZ04043		0.34	0.003	<0.2	2.27	9	<10	210	0.6	<2	0.26	<0.5	10	35	19	3.21
ZZ04044		0.24	0.005	<0.2	1.58	9	<10	120	<0.5	<2	0.18	<0.5	5	24	11	2.76
ZZ04045		0.22	0.002	<0.2	1.19	9	<10	90	<0.5	<2	0.16	<0.5	5	21	12	2.47
ZZ04046		0.26	0.001	<0.2	2.17	9	<10	170	0.5	<2	0.34	<0.5	9	33	14	3.23
ZZ04047		0.32	0.001	<0.2	1.92	11	<10	160	<0.5	<2	0.47	<0.5	10	33	20	2.85
ZZ04048		0.36	0.005	<0.2	1.57	11	<10	180	<0.5	<2	0.53	<0.5	6	28	17	2.12
ZZ04081		0.28	0.004	<0.2	1.61	8	<10	170	<0.5	<2	0.56	<0.5	10	41	15	2.95
ZZ04082		0.36	0.004	<0.2	1.84	8	<10	260	0.5	<2	0.62	<0.5	8	36	20	2.78
ZZ04083		0.26	0.002	<0.2	1.75	6	<10	180	<0.5	<2	0.49	<0.5	8	36	18	2.53
ZZ04084		0.32	0.006	<0.2	1.55	8	<10	180	<0.5	<2	0.49	<0.5	10	34	20	2.69
ZZ04085		0.30	0.002	<0.2	1.79	22	<10	140	<0.5	<2	0.44	<0.5	11	42	12	3.15
ZZ04086		0.26	0.006	<0.2	1.96	9	<10	170	<0.5	<2	0.42	<0.5	10	40	18	3.10
ZZ04087		0.24	0.002	<0.2	2.03	10	<10	200	0.5	<2	0.48	<0.5	10	36	26	2.77
ZZ04088		0.28	0.002	<0.2	1.79	7	<10	230	0.5	<2	0.50	<0.5	8	31	25	2.48
ZZ04089		0.36	0.002	<0.2	1.42	7	<10	160	<0.5	<2	0.44	<0.5	8	30	14	2.48
ZZ04090		0.24	0.014	<0.2	1.49	7	<10	190	<0.5	<2	0.57	<0.5	8	31	23	2.30
ZZ04091		0.34	0.020	<0.2	1.56	11	<10	180	<0.5	<2	0.43	<0.5	8	31	19	2.51
ZZ04092		0.30	0.003	<0.2	1.96	8	<10	210	0.5	<2	0.50	<0.5	8	37	31	2.67
ZZ04093		0.22	0.003	<0.2	1.63	7	<10	190	<0.5	<2	0.48	<0.5	7	29	21	2.54
ZZ04094		0.26	0.001	<0.2	1.96	9	<10	180	<0.5	<2	0.46	<0.5	10	40	18	3.20
ZZ04095		0.24	0.002	<0.2	1.18	5	<10	140	<0.5	<2	0.44	<0.5	8	22	16	1.94
ZZ04096		0.20	0.002	<0.2	1.74	7	<10	200	<0.5	<2	0.53	<0.5	10	39	23	2.99
ZZ04097		0.36	0.001	<0.2	1.52	8	<10	240	<0.5	<2	0.50	<0.5	8	33	17	2.54
ZZ04098		0.32	0.001	<0.2	1.65	8	<10	270	<0.5	<2	0.57	<0.5	10	35	15	2.89
ZZ04099		0.26	0.002	<0.2	1.95	10	<10	360	0.6	<2	0.68	<0.5	9	38	29	3.08
ZZ04100		0.30	0.002	<0.2	1.60	9	<10	260	<0.5	<2	0.46	<0.5	8	34	17	2.74
ZZ04101		0.28	0.006	<0.2	2.05	11	<10	180	<0.5	<2	0.38	<0.5	8	31	18	2.93
ZZ04102		0.26	0.003	<0.2	2.65	14	<10	380	0.6	<2	0.61	<0.5	10	43	51	3.54
ZZ04103		0.20	0.002	<0.2	1.27	7	<10	120	<0.5	<2	0.25	<0.5	5	22	19	2.27
ZZ04104		0.32	0.002	<0.2	2.19	10	<10	210	<0.5	<2	0.33	<0.5	9	32	29	2.93
ZZ04105		0.32	0.004	0.2	2.10	7	<10	310	0.7	<2	0.49	<0.5	10	37	28	3.06
ZZ04106		0.22	0.003	0.4	2.39	12	<10	400	0.8	<2	0.83	<0.5	17	36	47	3.41
ZZ04107		0.30	0.003	0.2	1.81	8	<10	310	0.7	<2	0.87	<0.5	13	36	28	3.26
ZZ04108		0.30	0.003	<0.2	1.67	9	<10	220	<0.5	<2	0.49	<0.5	12	41	16	3.54
ZZ04109		0.30	0.003	0.2	2.03	4	<10	260	0.5	<2	0.49	<0.5	10	47	23	2.78
ZZ04110		0.20	0.002	0.2	1.96	5	<10	250	0.5	<2	0.41	<0.5	12	49	18	2.78
ZZ04121		0.34	0.004	0.2	2.02	9	<10	150	<0.5	<2	0.18	<0.5	8	29	18	2.83
ZZ04122		0.34	0.006	<0.2	2.11	10	<10	180	<0.5	2	0.24	<0.5	9	32	25	2.76



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**CERTIFICATE OF ANALYSIS WH11145416**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ04041		10	<1	0.07	10	0.52	386	1	0.02	14	440	8	0.02	<2	5	27
ZZ04042		<10	<1	0.05	10	0.39	289	1	0.02	9	430	4	0.01	<2	3	20
ZZ04043		10	<1	0.08	10	0.58	424	1	0.01	17	320	7	0.01	<2	8	25
ZZ04044		10	<1	0.05	10	0.37	202	1	0.01	11	240	9	0.01	<2	3	14
ZZ04045		10	<1	0.05	10	0.34	272	1	0.01	7	200	6	0.01	<2	3	16
ZZ04046		10	<1	0.05	10	0.48	343	1	0.02	15	270	11	0.01	<2	4	24
ZZ04047		10	<1	0.07	10	0.59	596	1	0.02	14	400	8	0.02	<2	4	34
ZZ04048		<10	<1	0.06	10	0.53	179	<1	0.02	10	600	7	0.02	<2	5	30
ZZ04081		10	<1	0.09	10	0.80	447	<1	0.03	12	640	8	0.01	<2	6	30
ZZ04082		10	<1	0.08	10	0.67	367	<1	0.02	15	570	8	0.03	2	5	35
ZZ04083		10	<1	0.08	10	0.71	267	<1	0.02	13	610	11	0.02	<2	6	28
ZZ04084		10	<1	0.08	10	0.63	565	<1	0.02	13	380	12	0.02	<2	5	29
ZZ04085		10	<1	0.07	10	0.90	518	<1	0.02	13	410	15	0.01	5	6	25
ZZ04086		10	<1	0.08	10	0.85	442	<1	0.02	15	480	10	0.01	<2	7	25
ZZ04087		10	<1	0.06	20	0.63	490	1	0.02	14	660	12	0.03	<2	7	30
ZZ04088		10	<1	0.07	20	0.53	328	1	0.01	13	690	13	0.03	<2	8	28
ZZ04089		<10	<1	0.06	20	0.52	297	1	0.02	10	780	8	0.02	<2	5	25
ZZ04090		<10	<1	0.05	20	0.54	431	1	0.02	11	760	11	0.05	<2	5	35
ZZ04091		<10	<1	0.06	20	0.54	314	1	0.02	12	570	10	0.02	<2	5	26
ZZ04092		10	<1	0.07	20	0.66	383	1	0.02	19	670	16	0.03	<2	7	30
ZZ04093		10	<1	0.07	10	0.58	306	1	0.02	13	410	11	0.03	<2	5	30
ZZ04094		10	<1	0.08	10	0.84	394	1	0.02	14	420	17	0.02	<2	7	28
ZZ04095		<10	<1	0.05	10	0.47	446	1	0.03	8	560	6	0.04	<2	3	28
ZZ04096		10	<1	0.08	10	0.77	454	<1	0.02	14	490	10	0.03	<2	5	34
ZZ04097		10	<1	0.07	10	0.64	426	<1	0.02	12	530	7	0.02	<2	5	29
ZZ04098		<10	<1	0.08	10	0.69	473	<1	0.02	13	590	8	0.02	<2	7	32
ZZ04099		10	<1	0.08	30	0.66	386	1	0.02	17	640	7	0.04	<2	9	40
ZZ04100		10	<1	0.07	20	0.63	406	<1	0.02	13	420	6	0.02	<2	7	27
ZZ04101		10	<1	0.07	10	0.58	325	1	0.02	15	300	7	0.02	<2	5	28
ZZ04102		10	<1	0.09	20	0.79	411	1	0.02	21	860	9	0.04	<2	9	41
ZZ04103		10	<1	0.06	10	0.33	175	1	0.02	12	230	7	0.01	<2	2	21
ZZ04104		10	<1	0.06	10	0.56	324	1	0.01	16	300	11	0.01	2	5	25
ZZ04105		10	<1	0.08	40	0.62	444	1	0.02	17	490	9	0.01	<2	12	29
ZZ04106		10	<1	0.08	30	0.61	1685	2	0.02	20	1060	12	0.05	<2	7	55
ZZ04107		10	<1	0.07	20	0.67	928	2	0.01	16	810	9	0.04	<2	9	42
ZZ04108		10	<1	0.06	10	0.63	895	1	0.01	13	830	10	0.01	2	7	29
ZZ04109		10	<1	0.05	20	0.72	247	1	0.01	14	760	10	0.03	<2	7	30
ZZ04110		10	<1	0.05	20	0.90	334	1	0.02	15	590	9	0.01	3	8	24
ZZ04121		10	<1	0.06	10	0.45	249	1	0.01	12	230	11	<0.01	<2	4	21
ZZ04122		10	<1	0.06	10	0.56	301	1	0.01	14	260	11	<0.01	<2	5	23



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ04041		<20	0.05	<10	<10	71	<10	52
ZZ04042		<20	0.05	<10	<10	50	<10	33
ZZ04043		<20	0.08	<10	<10	75	<10	53
ZZ04044		<20	0.09	<10	<10	63	<10	35
ZZ04045		<20	0.08	<10	<10	84	<10	38
ZZ04046		<20	0.08	<10	<10	80	<10	65
ZZ04047		<20	0.07	<10	<10	72	<10	52
ZZ04048		<20	0.05	<10	<10	54	<10	44
ZZ04081		<20	0.10	<10	<10	77	<10	61
ZZ04082		<20	0.08	<10	<10	67	<10	61
ZZ04083		<20	0.08	<10	<10	67	<10	54
ZZ04084		<20	0.07	<10	<10	66	<10	51
ZZ04085		<20	0.09	<10	<10	82	<10	68
ZZ04086		<20	0.09	<10	<10	77	<10	57
ZZ04087		<20	0.07	<10	<10	67	<10	56
ZZ04088		<20	0.06	<10	<10	58	<10	54
ZZ04089		<20	0.06	<10	<10	58	<10	49
ZZ04090		<20	0.05	<10	<10	55	<10	49
ZZ04091		<20	0.06	<10	<10	60	<10	50
ZZ04092		<20	0.06	<10	<10	66	<10	56
ZZ04093		<20	0.06	<10	<10	64	<10	51
ZZ04094		<20	0.10	<10	<10	81	<10	61
ZZ04095		<20	0.06	<10	<10	45	<10	39
ZZ04096		<20	0.09	<10	<10	75	<10	65
ZZ04097		<20	0.08	<10	<10	63	<10	53
ZZ04098		<20	0.07	<10	<10	70	<10	59
ZZ04099		<20	0.06	<10	<10	72	<10	58
ZZ04100		<20	0.06	<10	<10	67	<10	53
ZZ04101		<20	0.07	<10	<10	70	<10	51
ZZ04102		<20	0.06	<10	<10	83	<10	56
ZZ04103		<20	0.08	<10	<10	61	<10	37
ZZ04104		<20	0.06	<10	<10	69	<10	48
ZZ04105		<20	0.04	<10	<10	72	<10	55
ZZ04106		<20	0.03	<10	<10	76	<10	66
ZZ04107		<20	0.03	<10	<10	76	<10	60
ZZ04108		<20	0.05	<10	<10	85	<10	71
ZZ04109		<20	0.04	<10	<10	78	<10	65
ZZ04110		<20	0.07	<10	<10	93	<10	75
ZZ04121		<20	0.06	<10	<10	75	<10	37
ZZ04122		<20	0.06	<10	<10	65	<10	44





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To: ARCHER, CATHRO AND ASSOCIATES (1981)  
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**CERTIFICATE OF ANALYSIS WH11145416**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ04123		0.24	0.008	0.2	1.35	7	<10	190	<0.5	<2	0.40	<0.5	8	25	19	2.13
ZZ04124		0.22	0.003	0.5	2.00	12	<10	300	0.9	<2	0.65	<0.5	13	37	48	3.58
ZZ04125		0.26	0.004	0.2	1.56	8	<10	190	<0.5	<2	0.64	<0.5	13	35	19	3.28
ZZ04126		0.30	0.003	0.3	1.92	8	<10	220	<0.5	3	0.69	<0.5	13	37	31	3.02
ZZ04127		0.30	0.002	<0.2	1.70	8	<10	180	<0.5	<2	0.53	<0.5	11	35	17	2.86
ZZ04128		0.38	0.002	<0.2	1.92	7	<10	190	0.5	2	0.57	<0.5	12	41	17	3.33
ZZ04129		0.34	0.002	0.2	1.96	4	<10	200	<0.5	2	0.61	<0.5	14	54	15	4.60
ZZ04130		0.32	0.003	<0.2	1.83	5	<10	160	<0.5	<2	0.50	<0.5	10	43	15	2.91
ZZ04143		0.40	0.001	<0.2	2.31	8	<10	210	0.6	<2	0.24	<0.5	15	36	22	3.53
ZZ04144		0.26	0.003	0.2	1.53	9	<10	180	<0.5	<2	0.33	<0.5	10	27	20	2.93
ZZ04145		0.30	0.004	<0.2	1.91	9	<10	180	<0.5	<2	0.32	<0.5	9	29	16	2.65
ZZ04146		0.22	0.008	<0.2	1.90	13	<10	130	<0.5	<2	0.19	<0.5	7	30	20	3.55
ZZ04147		0.24	0.007	0.2	1.98	11	<10	170	<0.5	<2	0.25	<0.5	8	30	18	2.77
ZZ04148		0.28	0.002	0.2	2.65	12	<10	230	<0.5	<2	0.38	<0.5	9	30	28	2.84
ZZ04149		0.32	0.001	<0.2	2.43	10	<10	230	0.5	<2	0.29	<0.5	9	33	21	3.16
ZZ04150		0.22	0.003	<0.2	2.11	10	<10	150	<0.5	<2	0.22	<0.5	10	29	23	2.94
ZZ04155		0.48	0.025	<0.2	2.26	14	<10	220	0.5	<2	0.49	<0.5	10	35	41	2.86
ZZ04156		0.46	0.003	<0.2	2.05	9	<10	130	<0.5	<2	0.36	<0.5	8	30	16	2.77
ZZ04157		0.50	0.004	0.2	2.23	11	<10	230	0.7	<2	0.52	<0.5	8	34	28	2.87
ZZ04158		0.48	0.002	<0.2	2.00	9	<10	150	<0.5	<2	0.22	<0.5	8	28	17	2.67
ZZ04159		0.50	0.004	0.2	2.29	10	<10	130	<0.5	<2	0.19	<0.5	9	31	21	3.21
ZZ04160		0.54	0.001	<0.2	2.30	10	<10	130	<0.5	<2	0.18	<0.5	10	30	18	3.00
ZZ04161		0.50	0.004	<0.2	1.96	10	<10	130	0.6	<2	0.23	<0.5	8	27	16	2.58
ZZ04162		0.46	0.002	<0.2	1.38	7	<10	210	0.5	<2	0.32	<0.5	13	23	13	3.46
ZZ04163		0.52	0.002	<0.2	1.74	4	<10	200	<0.5	<2	0.44	<0.5	11	31	12	3.12
ZZ04164		0.50	0.005	<0.2	1.88	4	<10	190	<0.5	<2	0.43	<0.5	10	43	15	2.42
ZZ04165		0.38	0.002	<0.2	1.71	7	<10	150	<0.5	<2	0.44	<0.5	6	32	10	1.99
ZZ04166		0.46	0.006	<0.2	1.51	12	<10	200	0.5	<2	0.63	<0.5	8	44	28	2.71
ZZ04167		0.54	0.004	<0.2	2.00	11	<10	220	0.6	<2	0.64	<0.5	14	55	23	4.25
ZZ04168		0.38	0.003	<0.2	1.69	6	<10	230	<0.5	<2	0.65	<0.5	9	37	21	2.81
ZZ04169		0.50	0.010	<0.2	1.37	22	<10	170	<0.5	<2	0.56	<0.5	8	29	17	2.48
ZZ04170		0.38	0.022	<0.2	1.72	58	<10	200	<0.5	<2	0.50	<0.5	9	36	23	2.92
ZZ04171		0.44	0.006	<0.2	1.83	24	<10	210	<0.5	<2	0.63	<0.5	7	34	17	2.58
ZZ04172		0.40	0.004	<0.2	1.49	10	<10	170	<0.5	<2	0.48	<0.5	8	29	15	2.38
ZZ04173		0.40	0.094	<0.2	1.59	8	<10	170	<0.5	<2	0.49	<0.5	8	32	15	2.61
ZZ04174		0.50	0.003	<0.2	1.47	7	<10	160	<0.5	<2	0.43	<0.5	7	29	12	2.38
ZZ04175		0.38	0.004	<0.2	1.20	7	<10	170	<0.5	<2	0.41	<0.5	6	24	18	2.19
ZZ04176		0.24	0.002	<0.2	1.16	7	<10	120	<0.5	<2	0.34	<0.5	6	26	10	2.20
ZZ04177		0.52	0.003	<0.2	1.47	8	<10	170	<0.5	<2	0.37	<0.5	7	28	16	2.31
ZZ04178		0.46	0.043	<0.2	1.44	31	<10	170	<0.5	<2	0.37	<0.5	7	28	14	2.29



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**CERTIFICATE OF ANALYSIS WH11145416**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ04123		<10	<1	0.05	20	0.48	383	1	0.02	12	580	7	0.02	<2	5	27
ZZ04124		10	<1	0.05	70	0.68	827	1	0.01	14	1170	12	0.05	2	15	41
ZZ04125		10	<1	0.05	10	0.68	743	1	0.02	13	680	11	0.03	2	6	38
ZZ04126		10	<1	0.08	20	0.81	632	2	0.02	22	750	14	0.04	<2	6	43
ZZ04127		10	<1	0.06	20	0.75	479	1	0.02	14	520	10	0.01	2	6	32
ZZ04128		10	<1	0.07	10	1.03	586	1	0.02	14	510	10	0.01	<2	8	32
ZZ04129		10	<1	0.06	30	0.92	542	1	0.02	13	830	12	0.03	2	9	34
ZZ04130		10	<1	0.06	20	0.82	256	1	0.02	12	680	8	0.01	<2	5	30
ZZ04143		10	<1	0.08	10	0.53	637	1	0.01	17	430	11	<0.01	3	8	21
ZZ04144		<10	<1	0.06	10	0.52	1030	1	0.02	11	670	11	0.02	2	5	26
ZZ04145		10	<1	0.05	10	0.60	490	1	0.01	12	470	7	0.01	<2	5	24
ZZ04146		10	<1	0.06	10	0.41	223	1	0.01	14	290	11	0.01	<2	3	22
ZZ04147		10	<1	0.07	10	0.46	238	1	0.01	14	360	8	0.01	<2	4	20
ZZ04148		10	<1	0.05	10	0.54	828	1	0.02	18	280	10	0.01	<2	4	40
ZZ04149		10	<1	0.07	10	0.57	400	1	0.01	16	300	12	0.01	2	4	32
ZZ04150		10	<1	0.08	10	0.50	297	1	0.01	13	360	7	0.01	<2	5	27
ZZ04155		10	1	0.06	10	0.62	375	2	0.02	18	520	8	0.03	<2	6	37
ZZ04156		10	<1	0.06	10	0.59	353	2	0.02	15	390	10	0.01	<2	4	26
ZZ04157		10	<1	0.07	30	0.57	357	2	0.02	18	670	11	0.03	<2	7	35
ZZ04158		10	<1	0.05	10	0.47	448	2	0.02	15	350	10	0.01	<2	4	22
ZZ04159		10	<1	0.06	10	0.55	281	2	0.02	17	310	10	0.01	<2	5	19
ZZ04160		10	1	0.05	10	0.60	294	2	0.02	17	280	12	0.01	2	5	17
ZZ04161		10	<1	0.06	10	0.48	311	2	0.02	14	310	8	0.01	<2	4	19
ZZ04162		<10	<1	0.06	20	0.33	700	2	0.02	14	420	9	0.01	2	7	20
ZZ04163		10	<1	0.06	10	0.91	692	1	0.02	11	500	8	0.02	<2	6	25
ZZ04164		10	<1	0.06	20	0.75	300	2	0.03	13	720	9	0.02	<2	8	24
ZZ04165		10	1	0.04	10	0.58	189	1	0.02	11	600	8	0.03	<2	4	29
ZZ04166		<10	<1	0.07	10	0.61	211	1	0.02	19	900	15	0.02	<2	7	41
ZZ04167		10	<1	0.10	30	1.11	475	1	0.02	19	870	11	0.02	<2	11	34
ZZ04168		10	<1	0.06	20	0.73	440	<1	0.02	12	550	8	0.03	<2	6	38
ZZ04169		<10	<1	0.06	10	0.52	365	1	0.02	10	430	8	0.03	<2	5	32
ZZ04170		10	<1	0.06	10	0.63	404	<1	0.02	13	580	13	0.03	<2	6	29
ZZ04171		10	<1	0.06	10	0.58	313	<1	0.02	12	670	12	0.04	<2	6	32
ZZ04172		<10	<1	0.05	10	0.52	324	<1	0.01	11	620	8	0.03	<2	5	27
ZZ04173		10	<1	0.06	10	0.57	374	1	0.01	11	670	9	0.03	2	6	29
ZZ04174		<10	<1	0.06	10	0.51	295	<1	0.01	10	680	12	0.03	<2	5	26
ZZ04175		<10	<1	0.04	20	0.37	297	<1	0.02	8	750	13	0.05	<2	4	28
ZZ04176		<10	<1	0.05	10	0.46	268	<1	0.01	9	620	9	0.02	<2	4	19
ZZ04177		<10	<1	0.06	20	0.50	262	<1	0.01	12	660	9	0.03	2	5	23
ZZ04178		<10	<1	0.06	10	0.49	301	<1	0.01	12	560	5	0.03	11	4	22



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**CERTIFICATE OF ANALYSIS WH11145416**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ04123		<20	0.04	<10	<10	51	<10	37
ZZ04124		<20	0.02	<10	<10	83	<10	52
ZZ04125		<20	0.04	<10	<10	80	<10	64
ZZ04126		<20	0.06	<10	<10	72	<10	72
ZZ04127		<20	0.06	<10	<10	68	<10	55
ZZ04128		<20	0.05	<10	<10	84	<10	60
ZZ04129		<20	0.07	<10	<10	87	<10	79
ZZ04130		<20	0.08	<10	<10	78	<10	61
ZZ04143		<20	0.03	<10	<10	76	<10	65
ZZ04144		<20	0.03	<10	<10	64	<10	88
ZZ04145		<20	0.05	<10	<10	63	<10	49
ZZ04146		<20	0.12	<10	<10	87	<10	48
ZZ04147		<20	0.09	<10	<10	69	<10	47
ZZ04148		<20	0.04	<10	<10	65	<10	49
ZZ04149		<20	0.07	<10	<10	80	<10	67
ZZ04150		<20	0.05	<10	<10	70	<10	49
ZZ04155		<20	0.06	<10	<10	74	<10	45
ZZ04156		<20	0.06	<10	<10	65	<10	49
ZZ04157		<20	0.05	<10	<10	64	<10	43
ZZ04158		<20	0.05	<10	<10	62	<10	47
ZZ04159		<20	0.07	<10	<10	73	<10	48
ZZ04160		<20	0.06	<10	<10	63	<10	46
ZZ04161		<20	0.06	<10	<10	56	<10	44
ZZ04162		<20	0.02	<10	<10	66	<10	52
ZZ04163		<20	<0.01	<10	<10	69	<10	60
ZZ04164		<20	0.06	<10	<10	84	<10	58
ZZ04165		<20	0.06	<10	<10	55	<10	52
ZZ04166		<20	0.07	<10	<10	73	<10	68
ZZ04167		<20	0.07	<10	<10	107	<10	76
ZZ04168		<20	0.07	<10	<10	71	<10	52
ZZ04169		<20	0.06	<10	<10	59	<10	53
ZZ04170		<20	0.07	<10	<10	71	<10	60
ZZ04171		<20	0.05	<10	<10	62	<10	66
ZZ04172		<20	0.06	<10	<10	58	<10	49
ZZ04173		<20	0.05	<10	<10	64	<10	58
ZZ04174		<20	0.05	<10	<10	58	<10	56
ZZ04175		<20	0.05	<10	<10	50	<10	40
ZZ04176		<20	0.06	<10	<10	51	<10	42
ZZ04177		<20	0.06	<10	<10	52	<10	47
ZZ04178		<20	0.06	<10	<10	53	<10	45



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**CERTIFICATE OF ANALYSIS WH11145416**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ04179		0.50	0.006	<0.2	1.46	41	<10	160	<0.5	<2	0.43	<0.5	8	30	14	2.57
ZZ04180		0.52	0.004	<0.2	1.78	16	<10	190	0.5	<2	0.49	<0.5	8	36	20	2.78
ZZ04181		0.48	0.001	<0.2	1.80	8	<10	210	<0.5	<2	0.48	<0.5	8	36	22	2.57
ZZ04182		0.54	0.003	<0.2	2.02	8	<10	210	<0.5	<2	0.63	<0.5	12	45	19	3.50
ZZ04183		0.44	0.002	<0.2	1.70	6	<10	180	<0.5	<2	0.51	<0.5	13	50	17	3.76
ZZ04184		0.40	0.002	<0.2	1.83	8	<10	240	<0.5	<2	0.60	<0.5	8	45	13	3.53
ZZ04185		0.36	0.007	<0.2	1.38	5	<10	160	<0.5	<2	0.41	<0.5	8	33	14	2.41
ZZ04186		0.52	0.003	<0.2	1.64	6	<10	170	<0.5	<2	0.52	<0.5	8	42	17	2.72
ZZ04187		0.44	0.003	<0.2	1.47	4	<10	150	<0.5	<2	0.42	<0.5	7	33	15	2.59
ZZ04188		0.40	0.002	<0.2	1.56	8	<10	130	<0.5	<2	0.32	<0.5	9	29	13	2.84
ZZ04189		0.40	0.004	<0.2	1.59	10	<10	130	<0.5	<2	0.27	<0.5	8	27	14	2.71
ZZ04190		0.36	0.003	0.2	2.39	10	<10	170	0.5	<2	0.25	<0.5	10	38	18	3.83
ZZ04191		0.36	0.016	<0.2	2.09	11	<10	130	0.5	<2	0.21	<0.5	9	29	16	2.92
ZZ04192		0.46	0.002	<0.2	1.97	8	<10	170	0.5	<2	0.27	<0.5	8	28	19	2.75
ZZ04193		0.40	0.003	<0.2	2.05	10	<10	170	<0.5	<2	0.32	<0.5	10	34	20	3.09
ZZ04194		0.54	0.004	<0.2	1.83	7	<10	180	<0.5	<2	0.46	<0.5	9	33	19	2.72
ZZ04195		0.38	0.006	<0.2	3.41	13	<10	380	1.5	<2	0.95	<0.5	17	45	61	4.24
ZZ04196		0.48	0.003	<0.2	2.09	13	<10	200	<0.5	<2	0.28	<0.5	9	32	16	3.08
ZZ04197		0.36	0.002	<0.2	1.74	10	<10	170	<0.5	<2	0.21	<0.5	7	25	20	2.70
ZZ04198		0.32	0.003	<0.2	2.30	12	<10	130	<0.5	<2	0.18	<0.5	8	34	15	3.39
ZZ04199		0.44	0.003	<0.2	1.55	11	<10	110	<0.5	<2	0.26	<0.5	6	25	13	2.57
ZZ04200		0.42	0.003	<0.2	2.00	8	<10	140	<0.5	<2	0.19	<0.5	8	27	24	2.50
ZZ04201		0.40	0.004	<0.2	2.14	9	<10	130	<0.5	<2	0.23	<0.5	8	31	14	2.97
ZZ04202		0.48	0.004	<0.2	1.31	8	<10	120	<0.5	2	0.23	<0.5	6	19	18	1.72
ZZ04203		0.40	0.002	<0.2	2.08	13	<10	130	<0.5	<2	0.25	<0.5	9	34	16	3.19
ZZ04204		0.42	0.003	<0.2	1.62	10	<10	150	<0.5	<2	0.24	<0.5	10	29	17	3.12
ZZ04205		0.46	0.016	0.4	1.98	4	<10	270	0.7	3	0.59	<0.5	10	35	23	2.99
ZZ04206		0.34	0.005	0.3	1.71	6	<10	330	0.6	<2	1.09	<0.5	9	33	37	2.55
ZZ04207		0.42	0.006	<0.2	2.11	7	<10	250	0.5	<2	0.52	<0.5	11	38	22	3.33
ZZ04208		0.38	0.002	0.2	2.04	9	<10	240	<0.5	2	0.58	<0.5	11	37	22	3.13
ZZ04209		0.48	0.002	<0.2	1.72	7	<10	170	<0.5	<2	0.43	<0.5	10	34	19	2.84
ZZ04210		0.38	0.003	<0.2	1.57	8	<10	200	<0.5	2	0.44	<0.5	9	29	20	2.46
ZZ04211		0.42	0.002	0.2	1.50	6	<10	210	<0.5	<2	0.44	<0.5	9	32	19	2.58
ZZ04212		0.38	0.007	0.3	1.90	9	<10	290	0.5	2	0.60	<0.5	9	32	30	2.93
ZZ04213		0.34	0.002	0.4	1.60	7	<10	260	<0.5	<2	0.58	<0.5	6	24	36	2.06
ZZ04214		0.50	0.005	0.2	1.54	6	<10	190	<0.5	2	0.45	<0.5	8	32	20	2.56
ZZ04215		0.42	0.002	<0.2	1.46	6	<10	130	<0.5	<2	0.41	<0.5	6	28	16	2.42
ZZ04216		0.40	0.003	<0.2	1.57	7	<10	190	<0.5	2	0.51	<0.5	9	37	14	2.86
ZZ04217		0.46	0.004	0.3	1.97	19	<10	290	<0.5	2	0.71	<0.5	9	32	30	2.67
ZZ04218		0.52	0.002	<0.2	1.44	5	<10	200	<0.5	3	0.50	<0.5	7	27	22	2.26



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ04179		<10	<1	0.07	10	0.58	338	<1	0.01	12	520	11	0.02	<2	6	23
ZZ04180		10	1	0.08	20	0.69	350	<1	0.01	13	630	9	0.03	<2	6	27
ZZ04181		10	<1	0.07	20	0.62	266	<1	0.02	13	570	8	0.03	<2	6	26
ZZ04182		10	<1	0.09	10	0.95	424	<1	0.02	14	640	8	0.03	<2	7	35
ZZ04183		10	<1	0.10	20	0.98	694	1	0.03	19	510	12	0.02	<2	8	29
ZZ04184		10	<1	0.06	10	0.82	381	<1	0.02	13	740	8	0.04	<2	6	33
ZZ04185		<10	<1	0.05	10	0.53	276	<1	0.03	11	590	6	0.02	<2	5	23
ZZ04186		10	<1	0.06	20	0.62	311	1	0.02	12	790	7	0.03	<2	6	28
ZZ04187		10	<1	0.05	10	0.53	204	1	0.02	11	670	6	0.03	2	6	22
ZZ04188		10	<1	0.06	10	0.54	314	<1	0.01	13	350	6	0.01	<2	5	21
ZZ04189		10	<1	0.06	10	0.47	296	1	0.01	13	180	7	0.01	<2	4	20
ZZ04190		10	1	0.08	10	0.65	378	1	0.01	17	380	10	0.02	<2	6	21
ZZ04191		10	<1	0.06	10	0.51	311	<1	0.01	14	310	8	0.02	<2	5	15
ZZ04192		10	<1	0.06	10	0.46	309	1	0.01	13	400	8	0.01	<2	5	21
ZZ04193		10	<1	0.07	10	0.61	362	1	0.01	17	330	7	0.01	<2	5	23
ZZ04194		10	<1	0.06	20	0.68	332	1	0.02	15	500	6	0.02	<2	6	26
ZZ04195		10	<1	0.09	40	0.68	1050	2	0.02	24	940	13	0.05	<2	8	60
ZZ04196		10	<1	0.08	10	0.52	374	1	0.01	17	280	8	0.02	<2	4	24
ZZ04197		10	<1	0.04	10	0.37	231	<1	0.01	13	270	7	0.02	<2	3	20
ZZ04198		10	1	0.07	10	0.49	262	1	0.01	16	300	9	0.02	<2	3	17
ZZ04199		<10	<1	0.05	10	0.41	291	<1	0.01	13	580	7	0.02	<2	3	16
ZZ04200		10	<1	0.06	10	0.48	309	<1	0.02	13	350	7	0.02	<2	3	17
ZZ04201		10	<1	0.06	10	0.55	289	1	0.01	14	260	9	0.02	<2	5	21
ZZ04202		<10	<1	0.04	10	0.27	202	3	0.01	8	310	7	0.02	<2	3	19
ZZ04203		10	<1	0.06	10	0.60	311	1	0.02	14	330	9	0.02	<2	5	21
ZZ04204		<10	<1	0.06	10	0.40	380	1	0.01	13	390	9	0.01	3	4	20
ZZ04205		10	<1	0.06	40	0.79	640	1	0.02	17	450	7	0.02	2	16	31
ZZ04206		10	<1	0.05	20	0.63	466	1	0.04	17	970	7	0.07	<2	5	57
ZZ04207		10	<1	0.08	20	0.88	512	1	0.04	16	370	5	0.03	<2	8	29
ZZ04208		10	<1	0.09	10	0.76	513	1	0.05	15	700	9	0.03	<2	6	36
ZZ04209		10	<1	0.08	10	0.70	408	1	0.04	14	400	7	0.03	<2	5	27
ZZ04210		<10	<1	0.06	10	0.57	382	1	0.03	14	440	6	0.03	<2	4	29
ZZ04211		<10	<1	0.06	10	0.55	503	1	0.03	12	630	6	0.03	<2	5	27
ZZ04212		10	<1	0.07	20	0.58	389	1	0.03	15	540	13	0.04	<2	8	37
ZZ04213		<10	<1	0.06	20	0.38	303	<1	0.03	11	700	8	0.04	<2	6	37
ZZ04214		<10	<1	0.08	10	0.64	311	<1	0.02	12	570	6	0.01	2	4	27
ZZ04215		10	<1	0.05	10	0.51	264	1	0.02	10	280	7	0.01	<2	3	26
ZZ04216		10	<1	0.08	10	0.68	393	1	0.03	11	510	9	0.03	<2	4	32
ZZ04217		10	<1	0.08	20	0.62	440	1	0.04	13	740	8	0.06	2	5	45
ZZ04218		<10	1	0.07	10	0.50	329	1	0.03	10	620	7	0.04	<2	4	31



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**CERTIFICATE OF ANALYSIS WH11145416**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ04179		<20	0.07	<10	<10	60	<10	53
ZZ04180		<20	0.08	<10	<10	67	<10	58
ZZ04181		<20	0.06	<10	<10	66	<10	52
ZZ04182		<20	0.09	<10	<10	88	<10	66
ZZ04183		<20	0.09	<10	<10	97	<10	76
ZZ04184		<20	0.07	<10	<10	88	<10	68
ZZ04185		<20	0.07	<10	<10	63	<10	48
ZZ04186		<20	0.09	<10	<10	75	<10	53
ZZ04187		<20	0.05	<10	<10	67	<10	47
ZZ04188		<20	0.05	<10	<10	64	<10	45
ZZ04189		<20	0.06	<10	<10	64	<10	45
ZZ04190		<20	0.08	<10	<10	82	<10	59
ZZ04191		<20	0.06	<10	<10	63	<10	47
ZZ04192		<20	0.05	<10	<10	64	<10	43
ZZ04193		<20	0.08	<10	<10	71	<10	54
ZZ04194		<20	0.07	<10	<10	67	<10	45
ZZ04195		<20	0.05	<10	<10	95	<10	70
ZZ04196		<20	0.10	<10	<10	70	<10	49
ZZ04197		<20	0.07	<10	<10	62	<10	43
ZZ04198		<20	0.11	<10	<10	73	<10	46
ZZ04199		<20	0.06	<10	<10	53	<10	44
ZZ04200		<20	0.07	<10	<10	59	<10	38
ZZ04201		<20	0.09	<10	<10	80	<10	45
ZZ04202		<20	0.04	<10	<10	42	<10	30
ZZ04203		<20	0.09	<10	<10	82	<10	54
ZZ04204		<20	0.04	<10	<10	79	<10	49
ZZ04205		<20	0.03	<10	<10	72	<10	56
ZZ04206		<20	0.07	<10	<10	64	<10	47
ZZ04207		<20	0.09	<10	<10	81	<10	59
ZZ04208		<20	0.09	<10	<10	77	<10	64
ZZ04209		<20	0.08	<10	<10	68	<10	59
ZZ04210		<20	0.06	<10	<10	57	<10	50
ZZ04211		<20	0.05	<10	<10	59	<10	48
ZZ04212		<20	0.05	<10	<10	65	<10	58
ZZ04213		<20	0.04	<10	<10	49	<10	44
ZZ04214		<20	0.08	<10	<10	61	<10	50
ZZ04215		<20	0.08	<10	<10	62	<10	44
ZZ04216		<20	0.09	<10	<10	73	<10	61
ZZ04217		<20	0.08	<10	<10	63	<10	55
ZZ04218		<20	0.06	<10	<10	52	<10	46



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**CERTIFICATE OF ANALYSIS WH11145416**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ04219		0.54	0.009	<0.2	1.60	6	<10	180	<0.5	<2	0.43	<0.5	9	34	14	2.66
ZZ04220		0.46	0.003	0.2	1.83	6	<10	240	<0.5	<2	0.55	<0.5	8	40	20	2.79
ZZ04221		0.46	0.004	0.2	1.80	8	<10	290	0.5	2	0.52	<0.5	11	39	17	3.30
ZZ04222		0.48	0.003	0.3	1.58	6	<10	220	<0.5	3	0.45	<0.5	9	29	19	2.30
ZZ04223		0.52	0.002	0.2	2.02	7	<10	250	0.7	2	0.55	<0.5	10	39	24	3.11
ZZ04224		0.46	0.003	0.2	1.99	7	<10	250	<0.5	2	0.58	<0.5	11	36	31	2.96
ZZ04225		0.52	0.002	0.2	1.92	9	<10	210	0.5	<2	0.48	<0.5	9	30	23	2.62
ZZ04226		0.44	0.001	<0.2	1.74	7	<10	190	<0.5	<2	0.58	<0.5	10	36	26	2.96
ZZ04227		0.40	0.003	<0.2	1.73	9	<10	250	<0.5	<2	0.54	<0.5	10	33	26	2.95
ZZ04228		0.58	0.018	0.2	1.62	7	<10	220	0.5	<2	0.35	<0.5	8	26	14	2.78
ZZ04229		0.58	0.001	<0.2	2.00	9	<10	290	0.6	2	0.34	<0.5	13	33	23	3.44
ZZ04230		0.40	0.035	0.2	2.24	9	<10	120	<0.5	2	0.17	<0.5	10	30	17	3.42
ZZ04231		0.48	0.001	<0.2	1.80	9	<10	120	<0.5	<2	0.21	<0.5	8	24	17	2.48
ZZ04232		0.50	0.005	0.2	2.14	11	<10	130	0.5	2	0.27	<0.5	9	30	28	2.86
ZZ04233		0.44	<0.001	0.3	2.03	8	<10	210	0.5	<2	0.27	<0.5	7	26	20	2.87
ZZ04234		0.30	0.001	0.2	2.14	7	<10	70	<0.5	<2	0.20	<0.5	5	25	15	2.82
ZZ04235		0.38	<0.001	0.2	1.80	8	<10	120	<0.5	<2	0.23	<0.5	7	28	13	2.96
ZZ04236		0.38	0.001	<0.2	1.59	11	<10	120	<0.5	2	0.21	<0.5	6	23	16	2.42
ZZ04237		0.36	0.006	<0.2	1.79	8	<10	160	<0.5	<2	0.25	<0.5	8	25	19	2.44
ZZ04238		Not Recvd														
ZZ04239		Not Recvd														
ZZ04240		Not Recvd														
ZZ04351		0.36	0.001	0.2	1.69	7	<10	150	<0.5	2	0.34	<0.5	8	25	17	2.48
ZZ04352		0.36	0.007	0.2	1.63	8	<10	230	0.6	<2	0.45	<0.5	12	34	20	3.49
ZZ04353		0.38	0.001	0.2	2.06	7	<10	260	0.5	<2	0.53	<0.5	10	41	26	3.16
ZZ04354		0.22	<0.001	<0.2	1.75	11	<10	150	<0.5	2	0.19	<0.5	7	29	15	3.18
ZZ04355		0.32	<0.001	<0.2	1.77	10	<10	130	<0.5	2	0.20	<0.5	7	26	17	2.54
ZZ04356		0.26	0.001	<0.2	2.00	8	<10	170	0.5	2	0.34	<0.5	8	31	19	2.86
ZZ04357		0.24	<0.001	<0.2	1.69	10	<10	120	<0.5	<2	0.33	<0.5	7	26	26	2.38
ZZ04358		0.30	0.001	<0.2	1.72	8	<10	350	0.5	2	0.79	<0.5	10	33	32	2.88
ZZ04359		0.36	<0.001	<0.2	1.59	7	<10	190	<0.5	2	0.42	<0.5	10	33	12	2.86
ZZ04360		0.40	0.001	<0.2	2.02	8	<10	240	0.5	<2	0.49	<0.5	13	42	15	3.57
ZZ04361		0.42	0.001	<0.2	1.71	7	<10	220	<0.5	<2	0.48	<0.5	11	39	15	3.20
ZZ04362		0.32	0.005	<0.2	2.01	7	<10	290	0.7	<2	0.59	<0.5	14	47	18	3.96
ZZ04363		0.38	0.001	0.4	2.07	6	<10	270	0.7	2	0.65	<0.5	13	45	26	3.64
ZZ04364		0.48	<0.001	<0.2	1.87	8	<10	240	<0.5	<2	0.59	<0.5	14	49	12	3.74
ZZ04365		0.40	0.007	<0.2	1.99	7	<10	230	0.5	<2	0.53	<0.5	8	40	22	3.03
ZZ04366		0.22	<0.001	<0.2	1.19	6	<10	200	<0.5	<2	0.63	<0.5	8	29	18	2.45
ZZ04367		0.20	0.001	<0.2	2.01	9	<10	280	0.5	<2	0.75	<0.5	11	47	22	4.01
ZZ04368		0.26	0.014	<0.2	1.22	4	<10	190	<0.5	<2	0.49	<0.5	7	27	9	2.13



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ04219		10	<1	0.07	10	0.66	385	<1	0.04	13	380	7	0.03	<2	5	27
ZZ04220		10	<1	0.07	10	0.73	268	<1	0.03	13	650	9	0.05	<2	6	35
ZZ04221		10	1	0.08	20	0.85	736	<1	0.03	13	550	14	0.03	2	9	32
ZZ04222		<10	<1	0.05	20	0.55	410	1	0.03	13	580	9	0.04	2	8	27
ZZ04223		10	<1	0.06	20	0.82	450	1	0.02	15	750	8	0.03	<2	9	35
ZZ04224		10	<1	0.07	10	0.86	492	1	0.03	24	610	12	0.03	<2	7	36
ZZ04225		<10	<1	0.06	20	0.61	380	1	0.02	16	420	8	0.02	<2	7	29
ZZ04226		10	<1	0.07	10	0.71	482	1	0.02	17	630	7	0.04	2	5	38
ZZ04227		10	<1	0.07	10	0.62	442	1	0.04	17	670	9	0.05	<2	4	40
ZZ04228		<10	<1	0.07	20	0.43	356	1	0.04	12	420	7	0.02	2	6	23
ZZ04229		10	<1	0.06	20	0.53	738	1	0.04	18	660	8	0.04	2	10	29
ZZ04230		10	<1	0.06	10	0.55	399	1	0.03	13	230	9	0.02	<2	5	17
ZZ04231		<10	1	0.06	10	0.48	306	<1	0.03	14	400	7	0.02	<2	4	17
ZZ04232		10	<1	0.05	10	0.58	651	<1	0.02	16	310	6	<0.01	<2	5	21
ZZ04233		10	1	0.05	10	0.50	349	1	0.02	14	310	9	0.01	<2	4	25
ZZ04234		10	<1	0.05	10	0.31	173	1	0.02	8	530	6	0.02	<2	2	20
ZZ04235		10	<1	0.05	10	0.48	239	1	0.02	12	330	6	0.01	<2	3	21
ZZ04236		<10	<1	0.05	10	0.43	246	1	0.03	14	360	6	0.02	<2	3	17
ZZ04237		10	<1	0.06	10	0.50	345	<1	0.04	13	350	6	0.03	<2	3	23
ZZ04238																
ZZ04239																
ZZ04240																
ZZ04351		10	<1	0.06	10	0.45	292	1	0.04	12	640	5	0.03	<2	5	23
ZZ04352		10	<1	0.07	20	0.61	746	1	0.04	15	610	7	0.03	<2	12	31
ZZ04353		10	<1	0.07	20	0.77	447	1	0.04	17	670	6	0.03	2	9	36
ZZ04354		10	<1	0.06	10	0.50	316	1	0.01	10	280	7	0.01	2	4	18
ZZ04355		10	<1	0.06	10	0.39	212	1	0.02	11	240	5	0.01	<2	4	19
ZZ04356		10	<1	0.07	10	0.62	350	1	0.02	12	480	7	0.02	2	6	27
ZZ04357		10	<1	0.05	10	0.42	209	1	0.02	12	580	4	0.03	<2	2	26
ZZ04358		10	<1	0.06	20	0.63	457	1	0.02	16	630	6	0.03	<2	7	46
ZZ04359		10	1	0.06	10	0.84	490	1	0.02	11	370	5	0.01	2	6	27
ZZ04360		10	1	0.09	10	1.04	645	<1	0.03	15	400	5	0.01	2	11	29
ZZ04361		10	<1	0.09	10	0.92	519	1	0.02	13	470	9	0.01	<2	7	28
ZZ04362		10	<1	0.14	20	0.93	668	1	0.02	15	640	7	0.04	2	16	31
ZZ04363		10	<1	0.07	30	1.03	533	<1	0.02	15	770	36	0.06	3	14	37
ZZ04364		10	<1	0.10	10	1.09	774	1	0.03	13	630	11	0.04	2	8	33
ZZ04365		10	1	0.11	20	0.71	302	1	0.02	12	530	7	0.05	<2	10	31
ZZ04366		10	<1	0.07	10	0.51	352	1	0.03	11	620	9	0.05	<2	3	36
ZZ04367		10	<1	0.10	20	0.85	452	<1	0.02	14	730	8	0.05	<2	8	40
ZZ04368		<10	1	0.06	10	0.48	369	1	0.02	9	550	5	0.02	<2	4	29





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Project: Wolverine - BBB

**CERTIFICATE OF ANALYSIS WH11145416**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ04219		<20	0.08	<10	<10	65	<10	49
ZZ04220		<20	0.06	<10	<10	71	<10	67
ZZ04221		<20	0.05	<10	<10	80	<10	70
ZZ04222		<20	0.04	<10	<10	56	<10	49
ZZ04223		<20	0.04	<10	<10	75	<10	56
ZZ04224		<20	0.07	<10	<10	70	<10	64
ZZ04225		<20	0.05	<10	<10	59	<10	48
ZZ04226		<20	0.07	<10	<10	69	<10	56
ZZ04227		<20	0.06	<10	<10	68	<10	54
ZZ04228		<20	0.03	<10	<10	61	<10	48
ZZ04229		<20	0.03	<10	<10	72	<10	59
ZZ04230		<20	0.06	<10	<10	78	<10	53
ZZ04231		<20	0.06	<10	<10	53	<10	42
ZZ04232		<20	0.07	<10	<10	64	<10	49
ZZ04233		<20	0.06	<10	<10	59	<10	92
ZZ04234		<20	0.08	<10	<10	63	<10	35
ZZ04235		<20	0.05	<10	<10	64	<10	43
ZZ04236		<20	0.06	<10	<10	52	<10	39
ZZ04237		<20	0.07	<10	<10	58	<10	44
ZZ04238								
ZZ04239								
ZZ04240								
ZZ04351		<20	0.06	<10	<10	57	<10	44
ZZ04352		<20	0.04	<10	<10	74	<10	64
ZZ04353		<20	0.05	<10	<10	74	<10	58
ZZ04354		<20	0.08	<10	<10	85	<10	46
ZZ04355		<20	0.07	<10	<10	63	<10	37
ZZ04356		<20	0.06	<10	<10	70	<10	45
ZZ04357		<20	0.06	<10	<10	56	<10	40
ZZ04358		<20	0.05	<10	<10	67	<10	62
ZZ04359		<20	0.06	<10	<10	70	<10	59
ZZ04360		<20	0.08	<10	<10	87	<10	59
ZZ04361		<20	0.10	<10	<10	80	<10	57
ZZ04362		<20	0.07	<10	<10	95	<10	70
ZZ04363		<20	0.02	<10	<10	90	<10	89
ZZ04364		<20	0.08	<10	<10	92	<10	79
ZZ04365		<20	0.07	<10	<10	77	<10	59
ZZ04366		<20	0.09	<10	<10	63	<10	48
ZZ04367		<20	0.08	<10	<10	94	<10	67
ZZ04368		<20	0.06	<10	<10	50	<10	48



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Project: Wolverine - BBB

**CERTIFICATE OF ANALYSIS WH11145416**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ04369		0.28	0.001	<0.2	1.61	9	<10	210	<0.5	<2	0.57	<0.5	9	38	17	2.75
ZZ04370		0.26	0.002	0.2	1.75	10	<10	300	0.6	<2	0.54	<0.5	10	35	22	3.03
ZZ04371		0.16	0.001	<0.2	1.68	5	<10	240	<0.5	<2	0.64	<0.5	11	35	23	2.93
ZZ04372		0.18	0.001	<0.2	1.52	6	<10	290	<0.5	<2	0.67	<0.5	10	28	31	2.90
ZZ04373		0.44	0.001	<0.2	1.81	9	<10	310	0.5	<2	0.74	<0.5	10	37	33	2.75
ZZ04374		0.26	<0.001	<0.2	1.27	6	<10	170	<0.5	<2	0.47	<0.5	8	25	14	2.36
ZZ04375		0.44	0.002	<0.2	2.14	8	<10	210	0.5	2	0.55	<0.5	11	39	17	3.37
ZZ04376		0.38	<0.001	<0.2	1.98	8	<10	230	0.6	<2	0.37	<0.5	11	32	16	3.32
ZZ04377		0.42	0.007	<0.2	2.12	10	<10	200	0.5	<2	0.39	<0.5	11	34	19	3.12
ZZ04378		0.28	0.001	<0.2	1.61	9	<10	180	<0.5	2	0.26	<0.5	8	24	16	2.44
ZZ04379		0.36	<0.001	<0.2	2.50	13	<10	220	0.6	3	0.52	<0.5	12	34	14	3.70
ZZ04380		0.28	0.004	<0.2	1.30	9	<10	110	<0.5	<2	0.19	<0.5	5	22	14	2.39
ZZ04381		0.30	0.001	<0.2	1.66	13	<10	210	<0.5	<2	0.27	<0.5	7	26	10	2.83
ZZ04382		0.30	<0.001	<0.2	3.21	14	<10	290	0.5	<2	0.28	<0.5	12	40	19	4.15
ZZ04383		0.28	0.007	<0.2	1.87	11	<10	220	<0.5	2	0.33	<0.5	9	29	13	2.75
ZZ04384		0.28	0.004	<0.2	1.75	13	<10	160	0.5	<2	1.07	<0.5	11	38	33	2.67
ZZ04385		0.28	0.003	<0.2	2.10	13	<10	170	0.6	2	0.72	<0.5	12	38	29	3.33
ZZ04386		0.30	0.003	<0.2	1.27	15	<10	100	<0.5	<2	0.52	<0.5	8	31	13	2.50
ZZ04387		0.26	0.007	<0.2	1.49	22	<10	120	0.5	<2	0.59	<0.5	9	37	19	2.96
ZZ04388		0.36	0.015	<0.2	1.26	24	<10	100	<0.5	2	0.54	<0.5	7	28	14	2.28
ZZ04389		0.32	0.007	<0.2	1.12	29	<10	90	<0.5	<2	0.57	<0.5	6	26	14	2.10
ZZ04390		0.28	0.001	<0.2	1.19	33	<10	130	<0.5	<2	0.42	<0.5	6	21	18	2.72
CC139801		0.34	0.006	<0.2	1.80	12	<10	170	0.5	<2	0.59	<0.5	10	49	19	3.36
CC139802		0.32	0.003	<0.2	1.60	12	<10	200	<0.5	<2	0.73	<0.5	10	42	18	3.06
CC139803		0.56	0.002	<0.2	1.48	10	<10	140	<0.5	<2	0.59	<0.5	8	40	14	3.01
CC139804		0.26	0.001	<0.2	1.37	2	<10	190	<0.5	<2	0.65	<0.5	7	32	14	1.76
CC139805		0.30	0.003	<0.2	1.56	4	<10	190	<0.5	<2	0.50	<0.5	7	33	15	2.31
CC139806		0.24	0.012	<0.2	1.51	7	<10	170	<0.5	<2	0.51	<0.5	7	30	14	2.31
CC139807		0.30	0.003	<0.2	1.83	16	<10	190	0.5	<2	0.53	<0.5	8	34	21	2.67
CC139808		0.30	0.003	<0.2	1.28	14	<10	150	<0.5	<2	0.40	<0.5	7	23	14	2.18
CC139809		0.34	<0.001	<0.2	1.53	16	<10	160	<0.5	3	0.45	<0.5	9	31	15	2.65
CC139810		0.22	0.003	<0.2	1.42	2	<10	140	<0.5	<2	0.49	<0.5	6	29	11	1.68



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Project: Wolverine - BBB

**CERTIFICATE OF ANALYSIS WH11145416**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ04369		10	<1	0.06	10	0.70	323	1	0.02	10	580	8	0.03	2	4	38
ZZ04370		10	<1	0.08	30	0.65	426	1	0.02	14	500	15	0.02	2	10	34
ZZ04371		10	<1	0.06	20	0.64	661	1	0.03	11	640	4	0.05	<2	7	40
ZZ04372		10	<1	0.06	20	0.48	1095	1	0.03	10	860	3	0.06	2	5	40
ZZ04373		10	<1	0.08	20	0.68	427	1	0.02	16	730	6	0.04	<2	7	39
ZZ04374		<10	<1	0.06	10	0.51	336	1	0.03	9	520	17	0.03	<2	4	31
ZZ04375		10	<1	0.07	10	0.90	666	<1	0.02	15	430	7	0.02	2	8	33
ZZ04376		10	<1	0.08	10	0.55	446	1	0.02	15	370	6	0.01	<2	7	25
ZZ04377		10	<1	0.08	10	0.70	501	1	0.02	16	500	7	0.01	2	6	26
ZZ04378		10	<1	0.06	10	0.45	379	1	0.02	11	630	5	0.01	<2	3	20
ZZ04379		10	<1	0.08	10	0.61	450	1	0.02	13	410	9	0.01	<2	6	32
ZZ04380		10	<1	0.05	10	0.33	217	2	0.01	7	300	7	0.01	<2	2	17
ZZ04381		10	<1	0.06	10	0.42	324	1	0.02	10	270	7	0.01	<2	3	23
ZZ04382		10	<1	0.08	10	0.64	328	1	0.02	21	310	7	0.01	<2	5	31
ZZ04383		10	<1	0.06	10	0.53	534	1	0.02	14	320	7	0.01	2	5	23
ZZ04384		10	<1	0.25	20	0.60	447	1	0.02	27	730	6	0.06	3	4	47
ZZ04385		10	<1	0.29	20	0.66	520	<1	0.02	23	680	9	0.04	2	4	41
ZZ04386		<10	<1	0.14	20	0.50	331	1	0.02	19	430	5	0.02	2	3	27
ZZ04387		10	<1	0.17	20	0.59	345	1	0.02	22	400	7	0.03	4	3	31
ZZ04388		<10	<1	0.11	20	0.44	266	1	0.02	17	390	5	0.02	<2	3	29
ZZ04389		<10	<1	0.09	10	0.41	243	1	0.02	19	430	6	0.02	2	3	27
ZZ04390		10	<1	0.14	10	0.36	385	2	0.01	10	250	12	0.01	3	3	24
CC139801		10	<1	0.08	20	0.75	325	1	0.02	15	910	9	0.01	3	7	34
CC139802		10	<1	0.07	10	0.68	490	1	0.03	12	890	10	0.03	<2	5	42
CC139803		10	<1	0.05	20	0.68	249	1	0.02	9	810	7	0.02	2	5	31
CC139804		10	<1	0.05	10	0.59	307	1	0.02	9	750	4	0.04	<2	4	34
CC139805		10	<1	0.07	10	0.65	293	1	0.02	10	520	10	0.02	<2	5	30
CC139806		10	<1	0.05	20	0.51	290	1	0.02	9	730	7	0.05	2	4	30
CC139807		10	<1	0.08	30	0.60	237	1	0.02	11	700	7	0.03	2	8	32
CC139808		<10	<1	0.06	10	0.44	269	1	0.02	8	580	8	0.02	<2	4	25
CC139809		10	<1	0.06	10	0.62	425	1	0.03	10	370	10	0.02	2	4	29
CC139810		<10	<1	0.05	10	0.58	239	1	0.03	8	610	6	0.02	2	4	27



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Project: Wolverine - BBB

**CERTIFICATE OF ANALYSIS WH11145416**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
		20	0.01	10	10	1	10	2
ZZ04369		<20	0.09	<10	<10	71	<10	51
ZZ04370		<20	0.05	<10	<10	69	<10	56
ZZ04371		<20	0.05	<10	<10	72	<10	54
ZZ04372		<20	0.06	<10	<10	68	<10	45
ZZ04373		<20	0.06	<10	<10	69	<10	57
ZZ04374		<20	0.05	<10	<10	55	<10	50
ZZ04375		<20	0.04	<10	<10	80	<10	66
ZZ04376		<20	0.05	<10	<10	70	<10	55
ZZ04377		<20	0.07	<10	<10	72	<10	55
ZZ04378		<20	0.05	<10	<10	54	<10	40
ZZ04379		<20	0.02	<10	<10	78	<10	69
ZZ04380		<20	0.08	<10	<10	66	<10	32
ZZ04381		<20	0.06	<10	<10	67	<10	43
ZZ04382		<20	0.09	<10	<10	88	<10	63
ZZ04383		<20	0.06	<10	<10	63	<10	44
ZZ04384		<20	0.10	<10	<10	44	<10	54
ZZ04385		<20	0.09	<10	<10	50	<10	66
ZZ04386		<20	0.08	<10	<10	44	<10	44
ZZ04387		<20	0.08	<10	<10	53	<10	47
ZZ04388		<20	0.05	<10	<10	39	<10	38
ZZ04389		<20	0.04	<10	<10	37	<10	39
ZZ04390		<20	0.04	<10	<10	57	<10	61
CC1 39801		<20	0.08	<10	<10	85	<10	66
CC1 39802		<20	0.07	<10	<10	77	<10	62
CC1 39803		<20	0.08	<10	<10	88	<10	57
CC1 39804		<20	0.07	<10	<10	44	<10	55
CC1 39805		<20	0.07	<10	<10	57	<10	54
CC1 39806		<20	0.07	<10	<10	58	<10	56
CC1 39807		<20	0.06	<10	<10	61	<10	57
CC1 39808		<20	0.05	<10	<10	49	<10	38
CC1 39809		<20	0.07	<10	<10	66	<10	53
CC1 39810		<20	0.07	<10	<10	40	<10	51



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**CERTIFICATE WH11177061**

Project: WLV - BBB/DDD  
 P.O. No.: BBB/DDD  
 This report is for 27 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28- AUG- 2011.  
 The following have access to data associated with this certificate:  
 JOAN MARIACHER                      HEATHER SMITH

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**  
**ATTN: JOAN MARIACHER**  
**1016- 510 W HASTINGS ST**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: WLV - BBB/DDD

**CERTIFICATE OF ANALYSIS WH11177061**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ04118		0.26	0.002	0.2	1.63	8	<10	160	<0.5	<2	0.40	<0.5	6	31	18	2.88
ZZ04119		0.30	0.003	<0.2	2.01	2	<10	170	0.5	<2	0.53	<0.5	10	38	20	2.98
ZZ04120		0.28	0.003	<0.2	1.89	11	<10	130	<0.5	<2	0.24	<0.5	7	32	15	3.11
CC140581		0.30	0.007	0.2	1.84	20	<10	120	0.7	<2	0.29	<0.5	6	26	19	2.25
CC140582		0.30	0.001	<0.2	1.10	10	<10	70	<0.5	<2	0.17	<0.5	4	22	10	2.04
CC140583		0.26	0.004	<0.2	0.69	6	<10	40	<0.5	<2	0.15	<0.5	4	16	7	1.46
CC140584		0.28	0.017	<0.2	0.85	21	<10	60	<0.5	<2	0.19	<0.5	6	20	11	2.19
CC140585		0.32	0.028	0.3	1.19	61	<10	100	0.5	<2	0.21	<0.5	7	21	15	2.82
CC140586		0.30	0.007	0.2	1.74	65	<10	90	0.7	<2	0.28	<0.5	11	33	22	3.41
CC140587		0.40	0.021	0.4	1.60	102	<10	150	0.9	<2	0.31	<0.5	8	26	20	3.20
ZZ04282		0.24	0.004	<0.2	1.14	30	<10	100	0.5	<2	0.14	<0.5	8	23	18	3.25
ZZ04283		0.30	0.007	<0.2	1.16	31	<10	110	0.6	<2	0.14	<0.5	9	24	21	3.41
ZZ04284		0.32	0.004	<0.2	1.15	27	<10	110	0.6	<2	0.14	<0.5	9	23	19	3.28
ZZ04285		0.26	0.004	<0.2	1.21	35	<10	120	0.6	<2	0.15	<0.5	11	26	22	3.67
ZZ04286		0.24	0.009	<0.2	1.73	21	<10	120	0.6	<2	0.16	<0.5	13	28	26	3.55
ZZ04287		0.24	0.006	<0.2	1.32	33	<10	100	0.7	<2	0.13	<0.5	15	24	27	3.45
ZZ27762		0.36	0.005	<0.2	1.24	21	<10	130	0.6	<2	0.28	<0.5	11	30	23	3.20
ZZ27763		0.24	0.003	<0.2	1.50	14	<10	150	1.0	<2	1.15	<0.5	12	32	29	2.98
ZZ27764		0.30	0.029	<0.2	1.20	22	<10	130	0.6	<2	0.26	<0.5	11	29	22	3.18
ZZ27766		0.20	0.003	<0.2	1.70	19	<10	150	1.3	<2	1.14	<0.5	18	37	67	3.93
ZZ27767		0.26	0.004	<0.2	1.58	11	<10	160	1.0	<2	1.26	<0.5	16	37	46	3.29
ZZ27769		0.30	0.005	0.2	1.90	19	<10	160	1.4	<2	0.96	<0.5	19	42	39	4.57
ZZ27770		0.30	0.008	<0.2	1.32	50	<10	130	1.5	<2	1.00	<0.5	16	31	34	5.42
ZZ28357		0.24	0.005	0.2	1.74	28	<10	210	1.3	<2	1.17	<0.5	16	36	40	4.53
ZZ28358		0.30	0.008	<0.2	1.36	15	<10	130	0.8	<2	0.40	<0.5	11	28	27	3.51
ZZ28359		0.22	0.004	0.2	1.88	8	<10	180	0.9	<2	0.68	<0.5	13	39	34	2.56
ZZ28360		0.14	0.009	<0.2	0.90	18	<10	140	<0.5	<2	0.59	<0.5	6	15	18	3.20



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Project: WLV - BBB/DDD

**CERTIFICATE OF ANALYSIS WH11177061**

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm	ME- ICP41 Hg ppm	ME- ICP41 K %	ME- ICP41 La ppm	ME- ICP41 Mg %	ME- ICP41 Mn ppm	ME- ICP41 Mo ppm	ME- ICP41 Na %	ME- ICP41 Ni ppm	ME- ICP41 P ppm	ME- ICP41 Pb ppm	ME- ICP41 S %	ME- ICP41 Sb ppm	ME- ICP41 Sc ppm	ME- ICP41 Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ04118		10	1	0.07	10	0.51	292	3	0.02	13	350	10	0.03	2	3	32
ZZ04119		<10	1	0.06	20	0.85	647	3	0.03	14	520	7	0.04	2	7	36
ZZ04120		10	<1	0.07	10	0.56	249	3	0.02	15	260	9	0.03	2	4	24
CC140581		<10	1	0.09	20	0.36	185	2	0.02	18	760	8	0.04	2	3	23
CC140582		<10	<1	0.08	10	0.33	271	2	0.02	11	330	5	0.03	2	2	15
CC140583		<10	<1	0.05	10	0.24	210	2	0.02	7	230	4	0.02	<2	2	13
CC140584		<10	<1	0.09	10	0.26	281	2	0.02	12	560	6	0.03	2	2	15
CC140585		<10	1	0.09	20	0.26	515	3	0.02	13	760	16	0.05	4	2	24
CC140586		10	1	0.16	20	0.50	472	3	0.02	23	800	11	0.03	4	4	18
CC140587		<10	1	0.15	20	0.31	573	4	0.01	18	890	10	0.08	5	4	42
ZZ04282		<10	1	0.15	30	0.29	273	2	0.02	18	290	16	0.03	2	3	17
ZZ04283		<10	1	0.14	20	0.30	361	2	0.02	20	320	17	0.03	2	3	16
ZZ04284		<10	1	0.15	30	0.29	348	2	0.02	18	310	16	0.03	2	3	16
ZZ04285		<10	<1	0.17	30	0.31	371	1	0.01	21	350	19	0.02	<2	3	16
ZZ04286		10	<1	0.08	20	0.33	269	1	0.02	26	270	15	0.01	<2	3	20
ZZ04287		<10	1	0.09	20	0.24	394	<1	0.02	25	310	16	0.01	2	3	19
ZZ27762		<10	1	0.16	20	0.46	410	<1	0.02	25	420	10	0.01	<2	4	26
ZZ27763		<10	1	0.10	30	0.47	286	<1	0.03	25	680	11	0.06	<2	7	49
ZZ27764		<10	1	0.16	20	0.46	408	<1	0.02	26	380	10	0.01	<2	4	25
ZZ27766		10	1	0.17	30	0.53	357	4	0.03	65	770	39	0.06	<2	9	49
ZZ27767		<10	1	0.11	30	0.60	379	1	0.03	40	570	14	0.07	<2	8	57
ZZ27769		10	<1	0.21	40	0.61	358	1	0.03	38	750	16	0.04	<2	10	43
ZZ27770		<10	1	0.13	30	0.45	643	1	0.03	35	750	12	0.04	<2	10	44
ZZ28357		10	1	0.30	50	0.40	467	<1	0.03	32	730	24	0.06	<2	8	62
ZZ28358		<10	1	0.18	30	0.37	502	1	0.02	23	640	14	0.01	<2	6	26
ZZ28359		10	<1	0.13	30	0.48	399	<1	0.03	26	530	21	0.04	<2	7	39
ZZ28360		<10	<1	0.06	10	0.18	167	1	0.02	11	640	8	0.08	<2	2	29



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Project: WLW - BBB/DDD

**CERTIFICATE OF ANALYSIS WH11177061**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ04118		<20	0.09	<10	<10	72	<10	47
ZZ04119		<20	0.04	<10	<10	70	<10	46
ZZ04120		<20	0.09	<10	<10	70	<10	46
CC140581		<20	0.02	<10	<10	40	<10	36
CC140582		<20	0.06	<10	<10	42	<10	32
CC140583		<20	0.06	<10	<10	36	<10	26
CC140584		<20	0.06	<10	<10	45	<10	32
CC140585		<20	0.05	<10	<10	49	<10	46
CC140586		<20	0.06	<10	<10	56	<10	60
CC140587		<20	0.02	<10	<10	40	<10	46
ZZ04282		<20	0.04	<10	<10	34	<10	59
ZZ04283		<20	0.04	<10	<10	35	<10	64
ZZ04284		<20	0.04	<10	<10	34	<10	61
ZZ04285		<20	0.05	<10	<10	38	<10	67
ZZ04286		<20	0.06	<10	<10	55	<10	63
ZZ04287		<20	0.04	<10	<10	40	<10	70
ZZ27762		<20	0.09	<10	<10	47	<10	62
ZZ27763		<20	0.04	<10	<10	45	<10	66
ZZ27764		<20	0.09	<10	<10	46	<10	61
ZZ27766		<20	0.04	<10	<10	49	<10	109
ZZ27767		<20	0.05	<10	<10	50	<10	75
ZZ27769		<20	0.04	<10	<10	54	<10	93
ZZ27770		<20	0.03	<10	<10	46	<10	82
ZZ28357		<20	0.07	<10	<10	48	<10	120
ZZ28358		<20	0.07	<10	<10	43	<10	80
ZZ28359		<20	0.06	<10	<10	54	<10	92
ZZ28360		<20	0.02	<10	<10	31	<10	51





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**CERTIFICATE WH11112631**

Project: BBB Wolverine  
 P.O. No.:  
 This report is for 165 Soil samples submitted to our lab in Whitehorse, YT, Canada on 19-JUN- 2011.  
 The following have access to data associated with this certificate:  
 JOAN MARIACHER                      HEATHER SMITH

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED  
 ATTN: JOAN MARIACHER  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: BBB Wolverine

**CERTIFICATE OF ANALYSIS WH11112631**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC130001		0.44	0.002	<0.2	0.85	14	<10	230	0.7	<2	0.66	<0.5	13	19	16	3.84
CC130002		0.42	<0.001	<0.2	0.61	3	<10	60	<0.5	<2	0.42	<0.5	5	13	7	1.77
CC130003		0.48	0.003	<0.2	1.80	6	<10	200	0.6	<2	0.98	<0.5	13	42	24	3.80
CC130004		0.58	<0.001	<0.2	2.74	9	<10	250	0.5	<2	0.70	<0.5	18	62	16	4.94
CC130005		0.38	0.004	<0.2	1.95	10	<10	120	0.6	<2	0.40	<0.5	12	36	19	3.63
CC130006		0.66	0.002	<0.2	2.17	9	<10	230	0.6	<2	0.80	<0.5	14	49	60	3.73
CC130007		0.50	<0.001	<0.2	1.92	11	<10	110	<0.5	<2	0.17	<0.5	8	27	18	2.78
CC130008		0.44	0.001	<0.2	2.41	4	<10	250	<0.5	<2	0.29	<0.5	12	39	14	3.49
CC130009		0.58	0.002	<0.2	2.72	10	<10	200	0.5	<2	0.31	<0.5	12	43	31	3.60
CC130010		0.60	0.001	<0.2	2.81	6	<10	160	0.6	<2	0.26	<0.5	14	45	20	3.81
CC130011		0.42	0.002	<0.2	1.16	4	<10	80	<0.5	<2	0.16	<0.5	6	19	13	2.18
CC130012		0.28	0.001	<0.2	1.70	5	<10	180	0.5	<2	0.50	<0.5	11	35	16	3.21
CC130013		0.40	0.002	<0.2	2.35	9	<10	170	0.5	<2	0.25	<0.5	12	39	22	3.27
CC130014		0.36	0.005	<0.2	1.74	10	<10	120	<0.5	<2	0.21	<0.5	9	28	19	2.93
CC130015		0.52	0.002	<0.2	1.59	7	<10	290	<0.5	<2	0.36	<0.5	9	29	16	2.44
CC130016		0.48	0.001	<0.2	1.72	6	<10	120	<0.5	<2	0.18	<0.5	8	27	19	2.49
CC130017		0.36	0.002	<0.2	2.27	11	<10	140	0.5	<2	0.24	<0.5	10	37	19	3.14
CC130018		0.46	0.001	0.2	2.17	6	<10	140	0.8	3	0.37	<0.5	11	34	51	3.32
CC130019		0.28	0.001	<0.2	1.82	6	<10	120	0.6	2	0.40	<0.5	10	28	30	3.10
CC130020		0.36	0.001	<0.2	3.48	27	<10	140	0.9	4	0.67	<0.5	14	49	25	3.88
CC130021		0.52	0.001	0.2	2.07	4	<10	120	0.5	<2	0.57	<0.5	12	38	25	2.96
CC130022		0.40	0.001	0.2	2.56	3	<10	450	0.7	2	0.74	<0.5	16	52	33	3.98
CC130023		0.48	0.004	<0.2	1.73	6	<10	170	0.6	<2	0.44	<0.5	13	30	22	3.40
CC130024		0.50	<0.001	<0.2	1.76	9	<10	110	<0.5	<2	0.37	<0.5	9	32	11	2.71
CC130025		0.46	0.001	0.2	1.17	8	<10	150	<0.5	<2	0.38	<0.5	9	24	22	2.55
CC130026		0.38	0.001	<0.2	1.26	5	<10	190	<0.5	<2	0.44	<0.5	5	25	14	2.15
CC130027		0.52	0.001	<0.2	1.14	6	<10	90	<0.5	<2	0.26	<0.5	5	20	10	1.94
CC130028		0.44	0.001	<0.2	1.69	7	<10	130	<0.5	<2	0.24	<0.5	8	34	18	2.99
CC130029		0.54	0.001	<0.2	1.99	9	<10	100	<0.5	2	0.18	<0.5	10	37	14	3.36
CC130030		0.50	0.025	<0.2	2.14	8	<10	140	<0.5	<2	0.22	<0.5	13	33	21	2.90
CC130031		0.52	0.003	<0.2	1.11	9	<10	90	<0.5	<2	0.16	<0.5	5	21	10	2.24
CC130032		0.32	0.001	<0.2	1.09	5	<10	80	<0.5	<2	0.13	<0.5	5	21	10	2.33
CC130033		0.40	0.002	<0.2	2.50	11	<10	190	0.5	<2	0.41	<0.5	12	46	23	3.72
CC130034		0.46	0.001	<0.2	2.20	6	<10	170	0.5	<2	0.51	<0.5	12	48	22	3.40
CC130035		0.38	0.001	<0.2	1.43	4	<10	100	<0.5	<2	0.27	<0.5	8	26	11	2.39
CC130036		0.42	0.012	<0.2	2.17	6	<10	510	0.7	<2	0.38	<0.5	10	36	20	3.06
CC130037		0.42	0.002	<0.2	1.44	9	<10	120	<0.5	<2	0.35	<0.5	8	25	15	2.55
CC130038		0.60	<0.001	<0.2	2.15	8	<10	270	0.5	<2	0.43	<0.5	12	34	15	3.59
CC130039		0.52	<0.001	<0.2	2.10	7	<10	200	<0.5	2	0.56	<0.5	13	46	16	3.84
CC130040		0.30	0.007	<0.2	1.58	7	<10	150	<0.5	<2	0.49	<0.5	9	35	15	2.98



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Project: BBB Wolverine

**CERTIFICATE OF ANALYSIS WH11112631**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC130001		<10	<1	0.11	10	0.26	728	1	0.01	13	340	12	0.02	<2	8	30
CC130002		<10	<1	0.04	10	0.21	208	<1	0.03	5	470	<2	0.02	<2	2	25
CC130003		10	<1	0.13	20	0.88	606	1	0.02	16	830	7	0.05	<2	12	61
CC130004		10	<1	0.13	10	1.39	776	1	0.02	20	550	8	0.02	2	14	43
CC130005		10	<1	0.07	20	0.62	558	1	0.02	15	390	9	0.01	2	8	28
CC130006		10	<1	0.12	30	1.16	585	1	0.03	20	800	6	0.04	<2	13	45
CC130007		10	<1	0.07	10	0.48	257	1	0.01	15	300	6	0.01	<2	3	13
CC130008		10	<1	0.09	10	0.90	475	1	0.02	16	290	6	0.02	<2	6	29
CC130009		10	<1	0.08	10	0.85	497	1	0.01	18	190	8	0.01	2	7	31
CC130010		10	<1	0.10	10	0.91	474	1	0.02	18	380	7	0.01	2	9	25
CC130011		10	<1	0.05	10	0.28	186	1	0.02	9	250	5	0.01	<2	2	14
CC130012		10	<1	0.11	20	0.68	519	1	0.03	13	550	5	0.02	<2	9	27
CC130013		10	<1	0.10	10	0.65	395	1	0.02	18	270	8	0.01	<2	5	24
CC130014		10	<1	0.08	10	0.47	324	1	0.02	13	370	7	0.01	<2	4	17
CC130015		<10	<1	0.07	10	0.56	487	<1	0.02	15	460	7	0.02	<2	4	24
CC130016		10	<1	0.06	10	0.47	284	1	0.02	14	350	6	0.02	<2	4	15
CC130017		10	<1	0.08	10	0.60	425	1	0.02	19	310	8	0.01	<2	5	21
CC130018		10	<1	0.10	40	0.59	391	1	0.02	17	290	11	0.01	2	8	27
CC130019		10	<1	0.05	30	0.52	477	1	0.02	13	360	9	0.02	<2	7	30
CC130020		10	<1	0.06	20	1.56	652	<1	0.02	14	380	13	0.01	2	12	53
CC130021		10	<1	0.06	40	1.05	686	<1	0.02	13	590	11	0.02	<2	12	37
CC130022		10	<1	0.08	30	1.35	926	1	0.03	17	750	16	0.04	<2	11	50
CC130023		10	<1	0.09	20	0.73	650	<1	0.01	16	540	7	0.01	<2	13	24
CC130024		10	<1	0.08	10	0.69	370	1	0.02	13	400	12	0.01	<2	5	24
CC130025		<10	<1	0.06	20	0.43	472	<1	0.02	11	510	31	0.02	2	5	22
CC130026		<10	<1	0.07	20	0.42	166	<1	0.02	9	680	9	0.02	<2	6	23
CC130027		<10	<1	0.05	10	0.35	182	<1	0.01	9	470	5	0.01	<2	3	15
CC130028		10	<1	0.06	10	0.68	259	1	0.02	11	290	7	0.01	<2	6	19
CC130029		10	<1	0.07	10	0.71	361	1	0.02	14	330	8	0.02	<2	5	14
CC130030		10	<1	0.09	10	0.59	481	<1	0.02	19	360	8	0.01	<2	5	16
CC130031		10	<1	0.05	10	0.35	178	1	0.01	9	180	6	0.01	<2	3	13
CC130032		10	<1	0.04	10	0.34	177	1	0.02	8	250	6	0.02	<2	3	11
CC130033		10	<1	0.09	10	0.93	521	1	0.02	20	390	10	0.02	<2	6	29
CC130034		10	<1	0.10	20	1.11	633	<1	0.03	16	460	7	0.02	<2	11	35
CC130035		10	<1	0.06	10	0.52	383	1	0.02	12	230	7	0.01	<2	3	19
CC130036		10	<1	0.08	20	0.71	334	1	0.02	17	250	9	0.02	<2	9	25
CC130037		10	<1	0.06	10	0.48	349	1	0.02	13	300	9	<0.01	<2	3	23
CC130038		10	<1	0.07	10	0.70	535	1	0.03	17	300	9	<0.01	<2	8	31
CC130039		10	<1	0.13	10	1.04	547	<1	0.03	15	320	9	<0.01	<2	7	34
CC130040		<10	<1	0.10	10	0.77	316	<1	0.03	14	410	6	<0.01	<2	5	27



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC130001		<20	0.02	<10	<10	64	<10	61
CC130002		<20	0.06	<10	<10	53	<10	35
CC130003		<20	0.08	<10	<10	90	<10	61
CC130004		<20	0.09	<10	<10	121	<10	82
CC130005		<20	0.06	<10	<10	83	<10	59
CC130006		<20	0.11	<10	<10	102	<10	59
CC130007		<20	0.08	<10	<10	61	<10	39
CC130008		<20	0.12	<10	<10	97	<10	52
CC130009		<20	0.10	<10	<10	91	<10	60
CC130010		<20	0.09	<10	<10	97	<10	56
CC130011		<20	0.07	<10	<10	57	<10	29
CC130012		<20	0.09	<10	<10	82	<10	51
CC130013		<20	0.11	<10	<10	80	<10	57
CC130014		<20	0.09	<10	<10	75	<10	45
CC130015		<20	0.08	<10	<10	55	<10	42
CC130016		<20	0.06	<10	<10	59	<10	44
CC130017		<20	0.10	<10	<10	72	<10	53
CC130018		<20	0.06	<10	<10	74	<10	56
CC130019		<20	0.03	<10	<10	71	<10	53
CC130020		<20	0.01	<10	<10	103	<10	65
CC130021		<20	0.03	<10	<10	86	<10	66
CC130022		<20	0.06	<10	<10	116	<10	97
CC130023		<20	0.06	<10	<10	84	<10	60
CC130024		<20	0.08	<10	<10	73	<10	77
CC130025		<20	0.04	<10	<10	58	<10	58
CC130026		<20	0.04	<10	<10	52	<10	45
CC130027		<20	0.05	<10	<10	47	<10	33
CC130028		<20	0.09	<10	<10	89	<10	40
CC130029		<20	0.11	<10	<10	89	<10	51
CC130030		<20	0.09	<10	<10	67	<10	52
CC130031		<20	0.08	<10	<10	69	<10	39
CC130032		<20	0.06	<10	<10	65	<10	33
CC130033		<20	0.12	<10	<10	99	<10	63
CC130034		<20	0.08	<10	<10	93	<10	57
CC130035		<20	0.08	<10	<10	60	<10	45
CC130036		<20	0.04	<10	<10	73	<10	51
CC130037		<20	0.06	<10	<10	64	<10	50
CC130038		<20	0.05	<10	<10	81	<10	55
CC130039		<20	0.12	<10	<10	100	<10	68
CC130040		<20	0.09	<10	<10	76	<10	50



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**CERTIFICATE OF ANALYSIS WH11112631**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC130041		0.58	0.001	<0.2	2.67	6	<10	190	0.5	<2	0.66	<0.5	15	53	21	4.17
CC130042		0.34	0.001	<0.2	1.80	8	<10	160	<0.5	<2	0.70	<0.5	11	40	15	3.52
CC130043		0.40	<0.001	<0.2	2.41	4	<10	180	<0.5	<2	0.58	<0.5	13	49	21	3.81
CC130044		0.46	0.002	<0.2	1.31	4	<10	100	<0.5	<2	0.60	<0.5	7	27	14	2.63
CC130045		0.30	0.051	<0.2	1.12	7	<10	120	<0.5	<2	0.49	<0.5	4	19	17	1.76
CC130046		0.46	0.002	<0.2	2.63	14	<10	120	<0.5	4	0.62	<0.5	12	45	14	4.34
CC130047		0.38	0.018	0.6	1.19	8	<10	100	<0.5	<2	0.31	<0.5	6	20	15	2.21
CC130048		0.46	0.002	<0.2	2.09	12	<10	190	<0.5	<2	0.25	<0.5	12	27	19	3.14
CC130049		0.38	0.002	0.2	1.69	10	<10	270	0.6	<2	0.90	<0.5	10	36	27	3.44
CC130050		0.30	0.010	<0.2	0.91	27	<10	140	<0.5	<2	0.34	<0.5	6	17	15	2.63
CC130051		0.40	0.002	<0.2	2.74	7	<10	480	0.7	<2	0.81	<0.5	15	16	15	5.34
CC130052		0.48	0.002	<0.2	1.78	7	<10	300	0.6	<2	0.40	<0.5	9	16	13	3.51
CC130053		0.44	0.001	0.2	1.71	6	<10	140	0.6	<2	0.79	<0.5	9	32	22	2.55
CC130054		0.40	0.005	<0.2	2.37	10	<10	150	<0.5	<2	0.31	<0.5	11	34	16	3.39
CC130055		0.50	<0.001	<0.2	2.76	7	<10	180	0.5	<2	0.61	<0.5	14	54	19	4.24
CC130056		0.42	0.001	<0.2	2.16	6	<10	150	<0.5	<2	0.61	<0.5	11	38	16	3.44
CC130057		0.36	0.004	<0.2	2.04	11	<10	170	0.5	<2	0.56	<0.5	11	43	19	3.07
CC130058		0.38	0.008	<0.2	1.65	11	<10	140	0.5	<2	0.52	<0.5	12	42	17	3.07
CC130059		0.22	0.001	<0.2	0.32	2	<10	70	<0.5	<2	0.53	<0.5	5	4	7	1.12
CC130060		0.24	0.002	<0.2	1.28	11	<10	110	<0.5	<2	0.52	<0.5	9	34	11	3.02
CC130061		0.26	0.002	<0.2	1.66	9	<10	160	0.5	<2	0.75	<0.5	11	39	19	3.45
CC130062		0.42	0.002	0.2	2.18	6	<10	190	0.5	<2	0.63	<0.5	9	44	26	3.21
CC130063		0.30	0.003	<0.2	1.68	4	<10	160	<0.5	<2	0.89	<0.5	8	34	22	2.29
CC130064		0.30	<0.001	<0.2	1.00	5	<10	110	<0.5	<2	0.55	<0.5	6	25	13	2.74
CC130065		0.44	<0.001	0.2	1.82	10	<10	160	0.5	<2	0.61	<0.5	13	37	17	4.03
CC130066		0.44	0.002	0.2	1.68	6	<10	140	0.5	2	0.61	<0.5	9	39	21	2.99
CC130067		0.40	0.001	<0.2	2.41	6	<10	230	0.6	<2	0.87	<0.5	17	59	20	4.80
CC130068		0.40	0.001	0.2	2.71	7	<10	290	0.5	2	0.66	<0.5	17	63	21	4.87
CC130069		0.26	0.003	<0.2	1.51	7	<10	250	<0.5	<2	0.58	<0.5	10	33	17	2.90
CC130070		0.46	0.001	<0.2	2.03	8	<10	160	<0.5	<2	0.19	<0.5	13	35	12	3.25
CC130071		0.46	<0.001	<0.2	1.20	12	<10	160	0.7	<2	0.24	<0.5	13	29	15	4.04
CC130072		0.54	<0.001	<0.2	3.99	12	<10	180	0.7	<2	0.26	<0.5	18	57	31	4.28
CC130073		0.30	0.001	<0.2	0.64	2	<10	50	<0.5	<2	0.10	<0.5	3	10	14	1.30
CC130074		0.32	0.003	<0.2	2.33	11	<10	130	<0.5	<2	0.19	<0.5	10	40	20	4.07
CC130075		0.38	0.006	<0.2	2.19	11	<10	120	<0.5	<2	0.18	<0.5	10	39	19	3.83
CC130076		0.40	0.002	<0.2	2.06	7	<10	170	<0.5	<2	0.35	<0.5	10	38	16	3.06
CC130077		0.42	0.001	<0.2	2.49	5	<10	230	0.5	<2	0.57	<0.5	15	54	23	4.17
CC130078		0.46	0.002	<0.2	2.50	8	<10	240	0.6	<2	0.52	<0.5	14	47	36	3.58
CC130079		0.32	0.001	<0.2	1.76	7	<10	160	<0.5	<2	0.56	<0.5	10	40	23	2.96
CC130080		0.42	0.010	<0.2	1.42	5	<10	140	<0.5	<2	0.61	<0.5	9	37	19	2.90



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**CERTIFICATE OF ANALYSIS WH11112631**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC130041		10	<1	0.21	10	1.33	545	<1	0.03	16	390	9	<0.01	2	10	33
CC130042		10	<1	0.08	10	0.83	382	<1	0.03	14	500	8	0.02	2	8	37
CC130043		10	<1	0.10	30	1.05	335	1	0.03	14	470	11	0.01	<2	9	28
CC130044		<10	<1	0.04	20	0.65	292	<1	0.03	9	840	4	0.03	<2	5	28
CC130045		<10	<1	0.05	10	0.32	114	<1	0.02	10	510	6	0.02	<2	3	27
CC130046		10	<1	0.07	10	1.05	448	1	0.02	14	350	8	<0.01	<2	11	33
CC130047		<10	<1	0.06	10	0.39	232	<1	0.02	10	330	8	<0.01	<2	3	20
CC130048		10	<1	0.09	10	0.56	352	<1	0.02	16	300	10	<0.01	<2	7	18
CC130049		10	<1	0.09	30	0.81	911	1	0.03	15	990	14	0.03	<2	8	44
CC130050		<10	<1	0.05	10	0.31	283	1	0.02	6	650	22	<0.01	<2	2	20
CC130051		10	<1	0.22	40	1.51	1120	1	0.03	6	1170	7	<0.01	2	22	31
CC130052		10	<1	0.12	20	0.61	533	1	0.02	11	330	9	<0.01	<2	9	22
CC130053		10	<1	0.10	60	0.67	315	<1	0.02	15	430	38	0.03	<2	11	35
CC130054		10	<1	0.10	10	0.89	358	1	0.02	15	250	9	<0.01	<2	5	25
CC130055		10	<1	0.10	20	1.48	630	<1	0.02	18	390	9	0.01	<2	7	31
CC130056		10	<1	0.06	10	0.97	544	1	0.02	12	350	13	<0.01	<2	7	30
CC130057		10	<1	0.07	10	0.60	409	1	0.02	20	250	12	<0.01	<2	6	30
CC130058		10	<1	0.08	10	0.68	505	<1	0.02	15	710	17	<0.01	2	6	27
CC130059		<10	<1	0.02	<10	0.05	627	<1	0.05	4	570	<2	0.02	<2	<1	29
CC130060		<10	<1	0.05	20	0.57	221	1	0.03	10	850	7	<0.01	<2	5	25
CC130061		10	<1	0.05	20	0.57	381	1	0.02	13	700	9	0.03	<2	8	38
CC130062		10	<1	0.10	20	0.94	345	<1	0.05	13	460	5	0.01	<2	8	35
CC130063		10	<1	0.06	20	0.61	286	<1	0.02	14	530	6	0.04	<2	6	44
CC130064		<10	<1	0.08	20	0.30	157	1	0.01	8	570	6	0.02	<2	6	30
CC130065		10	<1	0.12	20	0.73	530	1	0.02	14	540	9	0.01	2	11	34
CC130066		10	<1	0.07	40	0.73	271	1	0.02	14	650	8	0.02	<2	12	36
CC130067		10	<1	0.15	10	1.24	751	1	0.06	18	570	9	0.01	<2	14	53
CC130068		10	<1	0.17	10	1.22	587	1	0.04	20	400	13	0.01	<2	9	38
CC130069		10	<1	0.08	20	0.53	412	1	0.03	14	480	7	0.02	<2	7	32
CC130070		10	<1	0.07	10	0.71	601	1	0.02	13	350	8	<0.01	<2	5	17
CC130071		<10	<1	0.07	20	0.21	523	1	0.02	15	530	17	<0.01	4	7	15
CC130072		10	<1	0.06	10	1.33	607	<1	0.02	30	420	10	0.01	<2	9	24
CC130073		<10	<1	0.03	<10	0.12	73	<1	0.02	6	270	3	0.02	<2	1	14
CC130074		10	<1	0.06	10	0.74	380	1	0.01	16	360	10	0.02	2	6	19
CC130075		10	<1	0.06	10	0.70	357	1	0.01	15	340	8	0.02	<2	6	17
CC130076		10	<1	0.07	10	0.75	425	1	0.02	17	480	7	0.01	<2	6	26
CC130077		10	<1	0.15	20	1.42	696	1	0.03	18	820	5	0.03	<2	11	38
CC130078		10	<1	0.09	20	0.98	572	1	0.02	22	680	8	0.03	<2	7	36
CC130079		<10	<1	0.07	20	0.81	365	1	0.02	15	600	8	0.03	<2	8	34
CC130080		<10	<1	0.08	20	0.68	419	1	0.01	11	570	6	0.03	<2	7	32



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm
		20	0.01	10	10	1	10	2
CC130041	<20	0.13	<10	<10	117	<10	66	
CC130042	<20	0.06	<10	<10	84	<10	68	
CC130043	<20	0.09	<10	<10	109	<10	66	
CC130044	<20	0.04	<10	<10	70	<10	63	
CC130045	<20	0.04	<10	<10	41	<10	38	
CC130046	<20	0.05	<10	<10	107	<10	62	
CC130047	<20	0.06	<10	<10	50	<10	41	
CC130048	<20	0.06	<10	<10	64	<10	52	
CC130049	<20	0.06	<10	<10	73	<10	79	
CC130050	<20	0.04	<10	<10	55	<10	49	
CC130051	30	0.11	<10	<10	127	<10	84	
CC130052	20	0.06	<10	<10	71	<10	54	
CC130053	<20	0.06	<10	<10	64	<10	62	
CC130054	<20	0.11	<10	<10	86	<10	59	
CC130055	<20	0.17	<10	<10	116	<10	66	
CC130056	<20	0.04	<10	<10	84	<10	65	
CC130057	<20	0.05	<10	<10	71	<10	55	
CC130058	<20	0.06	<10	<10	74	<10	60	
CC130059	<20	0.04	<10	<10	25	<10	22	
CC130060	<20	0.05	<10	<10	70	<10	46	
CC130061	<20	0.03	<10	<10	77	<10	48	
CC130062	<20	0.09	<10	<10	89	<10	47	
CC130063	<20	0.04	<10	<10	62	<10	45	
CC130064	<20	0.02	<10	<10	66	<10	48	
CC130065	<20	0.04	<10	<10	93	<10	63	
CC130066	<20	0.05	<10	<10	78	<10	53	
CC130067	<20	0.08	<10	<10	121	<10	82	
CC130068	<20	0.11	<10	<10	123	<10	88	
CC130069	<20	0.05	<10	<10	73	<10	45	
CC130070	<20	0.05	<10	<10	81	<10	51	
CC130071	<20	0.01	<10	<10	86	<10	73	
CC130072	<20	0.09	<10	<10	103	<10	65	
CC130073	<20	0.04	<10	<10	40	<10	17	
CC130074	<20	0.08	<10	<10	91	<10	51	
CC130075	<20	0.08	<10	<10	86	<10	49	
CC130076	<20	0.08	<10	<10	73	<10	50	
CC130077	<20	0.10	<10	<10	112	<10	68	
CC130078	<20	0.08	<10	<10	84	<10	72	
CC130079	<20	0.06	<10	<10	74	<10	51	
CC130080	<20	0.06	<10	<10	74	<10	48	



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC130081		0.32	0.002	<0.2	1.70	8	<10	190	<0.5	<2	0.60	<0.5	10	36	18	2.88
CC130082		0.28	0.002	<0.2	1.28	9	<10	140	<0.5	2	0.53	<0.5	7	31	12	2.43
CC130083		0.40	0.001	<0.2	0.92	5	<10	100	<0.5	2	0.45	<0.5	5	22	9	1.79
CC130084		0.36	0.025	<0.2	1.29	5	<10	120	<0.5	<2	0.37	<0.5	7	28	11	2.34
CC130085		0.34	0.007	<0.2	1.51	69	<10	180	<0.5	2	0.51	<0.5	10	35	18	2.82
CC130086		0.22	0.002	<0.2	1.71	15	<10	220	<0.5	<2	0.50	<0.5	10	32	35	2.81
CC130087		0.52	0.001	<0.2	1.63	5	<10	170	<0.5	<2	0.49	<0.5	11	42	18	3.13
CC130088		0.32	0.036	<0.2	1.30	5	<10	140	<0.5	<2	0.44	<0.5	8	31	13	2.56
CC130089		0.26	0.003	0.2	1.25	5	<10	180	<0.5	<2	0.61	<0.5	7	24	17	2.41
CC130090		0.38	0.001	<0.2	1.04	8	<10	140	<0.5	<2	0.27	<0.5	5	19	11	2.11
CC130091		0.52	0.002	<0.2	0.91	5	<10	170	<0.5	<2	0.31	<0.5	5	15	9	1.91
CC130092		0.44	<0.001	<0.2	1.42	6	<10	130	<0.5	<2	0.27	<0.5	8	15	7	3.10
CC130093		0.46	0.001	<0.2	1.02	4	<10	180	0.5	<2	0.30	<0.5	9	19	12	2.58
CC130094		0.32	0.007	<0.2	1.04	13	<10	100	<0.5	<2	0.13	<0.5	8	17	10	2.17
CC130095		0.60	0.378	<0.2	1.91	31	<10	160	<0.5	<2	0.25	<0.5	11	32	24	3.57
CC130096		0.36	0.005	<0.2	1.22	20	<10	110	<0.5	<2	0.16	<0.5	6	22	12	2.71
CC130097		0.58	0.038	<0.2	1.34	32	<10	130	<0.5	<2	0.30	<0.5	10	29	21	2.96
CC130098		0.46	0.002	0.2	1.11	3	<10	270	<0.5	<2	0.39	<0.5	6	11	15	1.98
CC130099		0.34	0.002	0.3	1.86	7	<10	200	<0.5	<2	0.21	<0.5	6	19	20	3.14
CC130100		0.46	0.002	<0.2	2.63	9	<10	300	<0.5	<2	0.21	<0.5	13	20	14	4.31
CC130101		0.38	0.001	<0.2	2.43	5	<10	430	0.5	<2	0.48	<0.5	12	15	16	4.23
CC130102		0.48	0.001	<0.2	2.03	4	<10	230	<0.5	2	0.37	<0.5	12	21	19	3.47
CC130103		0.46	0.001	0.2	1.77	5	<10	210	<0.5	<2	0.32	<0.5	8	23	18	2.73
CC130104		0.44	0.015	<0.2	1.96	9	<10	130	<0.5	<2	0.23	<0.5	8	23	16	2.61
CC130105		0.32	0.009	<0.2	2.16	5	<10	270	<0.5	<2	0.37	<0.5	11	23	17	2.97
CC130106		0.60	0.005	<0.2	1.31	5	<10	170	<0.5	2	0.34	<0.5	6	21	15	2.12
CC130107		0.40	0.001	<0.2	1.29	9	<10	240	0.5	<2	0.26	<0.5	10	15	18	3.50
CC130108		0.36	0.002	0.3	3.04	10	<10	260	0.7	<2	0.20	<0.5	10	25	19	3.76
CC130109		0.48	0.005	0.2	1.32	9	<10	150	<0.5	<2	0.17	<0.5	5	18	16	2.38
CC130110		0.46	0.002	<0.2	1.96	8	<10	360	0.5	<2	0.42	<0.5	11	19	17	3.98
CC130111		0.46	0.003	0.3	2.44	11	<10	170	<0.5	<2	0.17	<0.5	10	29	20	3.37
CC130112		0.32	0.007	<0.2	1.37	9	<10	130	<0.5	<2	0.17	<0.5	5	21	14	2.45
CC130113		0.50	0.003	<0.2	2.06	18	<10	180	<0.5	<2	0.20	<0.5	7	27	21	3.87
CC130114		0.56	<0.001	<0.2	1.64	7	<10	240	<0.5	<2	0.32	<0.5	7	16	9	2.66
CC130115		0.36	0.002	<0.2	1.91	8	<10	230	0.6	<2	0.25	<0.5	6	25	15	2.86
CC130116		0.54	<0.001	<0.2	1.35	7	<10	210	<0.5	<2	0.26	<0.5	6	16	10	2.42
CC130117		0.50	0.003	<0.2	1.37	7	<10	190	<0.5	<2	0.45	<0.5	9	26	13	2.66
CC130118		0.48	0.001	<0.2	3.16	6	<10	340	0.9	<2	0.80	<0.5	19	39	9	4.80
CC130119		0.60	0.006	<0.2	1.93	8	<10	170	0.6	<2	0.34	<0.5	14	27	9	4.15
CC130120		0.40	0.001	<0.2	1.68	8	<10	120	<0.5	<2	0.29	<0.5	8	24	11	2.63





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**CERTIFICATE OF ANALYSIS WH11112631**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
CC130081		<10	<1	0.06	20	0.71	427	1	0.02	14	700	7	0.03	<2	6	35
CC130082		<10	<1	0.06	20	0.53	297	<1	0.02	10	680	6	0.03	<2	6	29
CC130083		<10	<1	0.04	10	0.43	178	<1	0.02	8	750	6	0.02	<2	3	24
CC130084		<10	<1	0.05	10	0.54	264	<1	0.02	10	560	13	0.02	<2	4	24
CC130085		<10	<1	0.06	10	0.62	547	1	0.02	12	580	9	0.04	<2	5	34
CC130086		<10	<1	0.06	10	0.57	475	1	0.02	14	660	11	0.04	2	6	34
CC130087		<10	<1	0.06	10	0.91	538	<1	0.02	15	330	11	0.02	<2	5	31
CC130088		<10	<1	0.05	10	0.60	338	<1	0.02	12	360	5	0.02	<2	4	28
CC130089		<10	<1	0.06	20	0.45	336	1	0.02	9	630	4	0.05	<2	6	39
CC130090		10	<1	0.08	10	0.39	245	1	0.02	9	200	5	0.02	<2	3	22
CC130091		<10	<1	0.06	10	0.32	232	<1	0.02	9	320	5	0.02	<2	2	22
CC130092		<10	<1	0.09	10	0.47	446	1	0.01	8	390	6	0.01	<2	5	17
CC130093		<10	<1	0.08	20	0.35	392	1	0.01	9	300	8	0.02	2	5	23
CC130094		10	<1	0.10	10	0.35	425	1	0.01	7	190	8	0.01	<2	2	13
CC130095		10	<1	0.14	10	0.59	418	1	0.01	19	290	15	0.02	2	5	21
CC130096		10	<1	0.07	10	0.34	229	1	0.01	10	290	10	0.02	<2	2	16
CC130097		<10	<1	0.13	10	0.47	505	1	0.01	15	670	14	0.02	2	4	19
CC130098		<10	<1	0.13	30	0.35	509	1	0.02	5	730	5	0.05	<2	4	28
CC130099		10	<1	0.10	10	0.38	276	2	0.01	9	280	9	0.02	<2	4	24
CC130100		10	<1	0.39	10	0.93	677	1	0.02	11	480	7	0.02	<2	7	17
CC130101		10	<1	0.50	20	1.05	763	<1	0.02	7	910	7	0.01	<2	11	27
CC130102		10	<1	0.27	10	0.86	667	1	0.02	9	610	8	0.02	<2	6	25
CC130103		10	<1	0.08	10	0.55	313	1	0.01	11	480	7	0.02	<2	4	25
CC130104		<10	<1	0.10	10	0.47	263	1	0.01	16	430	7	0.02	<2	4	18
CC130105		10	<1	0.13	20	0.59	538	1	0.03	13	590	6	0.03	<2	5	28
CC130106		<10	<1	0.07	10	0.43	308	1	0.01	10	690	6	0.02	<2	4	22
CC130107		<10	<1	0.14	20	0.40	676	1	0.02	9	560	7	0.02	3	7	18
CC130108		10	<1	0.12	20	0.57	551	1	0.01	15	470	13	0.02	<2	8	16
CC130109		10	<1	0.10	10	0.36	234	1	0.02	12	270	10	0.02	<2	3	16
CC130110		10	<1	0.25	20	0.86	616	1	0.02	10	660	7	0.02	<2	8	32
CC130111		10	<1	0.12	10	0.63	397	1	0.02	17	280	8	0.02	<2	5	18
CC130112		10	<1	0.07	10	0.37	171	1	0.02	10	230	8	0.02	<2	3	18
CC130113		10	<1	0.11	10	0.52	288	1	0.02	16	320	8	0.02	<2	4	21
CC130114		<10	<1	0.10	10	0.51	265	<1	0.01	9	580	5	0.02	<2	6	20
CC130115		10	<1	0.07	20	0.39	275	1	0.02	12	340	9	0.02	<2	4	22
CC130116		<10	<1	0.09	10	0.41	261	<1	0.01	10	370	5	0.02	<2	5	18
CC130117		<10	<1	0.08	10	0.59	443	<1	0.02	11	500	6	0.02	<2	6	29
CC130118		10	<1	0.18	30	1.48	1000	<1	0.03	17	770	7	0.02	<2	19	37
CC130119		10	<1	0.15	20	0.63	563	1	0.01	13	460	8	0.02	<2	11	25
CC130120		<10	<1	0.07	10	0.40	273	<1	0.02	12	680	6	0.02	<2	4	19



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**CERTIFICATE OF ANALYSIS WH11112631**

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC130081		<20	0.05	<10	<10	69	<10	53
CC130082		<20	0.05	<10	<10	70	<10	45
CC130083		<20	0.05	<10	<10	74	<10	40
CC130084		<20	0.06	<10	<10	57	<10	49
CC130085		<20	0.05	<10	<10	66	<10	64
CC130086		<20	0.05	<10	<10	63	<10	58
CC130087		<20	0.08	<10	<10	79	<10	57
CC130088		<20	0.06	<10	<10	66	<10	46
CC130089		<20	0.05	<10	<10	60	<10	59
CC130090		<20	0.08	<10	<10	54	<10	41
CC130091		<20	0.06	<10	<10	47	<10	42
CC130092		<20	0.05	<10	<10	61	<10	50
CC130093		<20	0.05	<10	<10	52	<10	45
CC130094		<20	0.09	<10	<10	59	<10	46
CC130095		<20	0.10	<10	<10	76	<10	72
CC130096		<20	0.09	<10	<10	64	<10	46
CC130097		<20	0.08	<10	<10	63	<10	59
CC130098		<20	0.07	<10	<10	45	<10	34
CC130099		<20	0.13	<10	<10	85	<10	35
CC130100		<20	0.23	<10	<10	104	<10	70
CC130101		20	0.17	<10	<10	99	<10	67
CC130102		<20	0.19	<10	<10	86	<10	59
CC130103		<20	0.11	<10	<10	66	<10	43
CC130104		<20	0.09	<10	<10	53	<10	42
CC130105		<20	0.12	<10	<10	68	<10	64
CC130106		<20	0.08	<10	<10	49	<10	41
CC130107		<20	0.07	<10	<10	58	<10	58
CC130108		<20	0.08	<10	<10	70	<10	57
CC130109		<20	0.09	<10	<10	59	<10	44
CC130110		<20	0.16	<10	<10	86	<10	67
CC130111		<20	0.14	<10	<10	81	<10	53
CC130112		<20	0.10	<10	<10	61	<10	36
CC130113		<20	0.11	<10	<10	80	<10	51
CC130114		<20	0.07	<10	<10	56	<10	38
CC130115		<20	0.09	<10	<10	66	<10	40
CC130116		<20	0.07	<10	<10	50	<10	36
CC130117		<20	0.08	<10	<10	58	<10	47
CC130118		20	0.13	<10	<10	115	<10	70
CC130119		<20	0.09	<10	<10	91	<10	57
CC130120		<20	0.08	<10	<10	55	<10	41



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
CC130121		0.52	0.001	<0.2	1.51	7	<10	110	<0.5	<2	0.30	<0.5	8	24	12	2.64
CC130122		0.64	0.014	<0.2	1.44	7	<10	130	0.6	2	0.26	<0.5	13	27	33	3.71
CC130123		0.56	0.002	<0.2	1.41	5	<10	220	0.8	<2	0.50	<0.5	11	30	14	4.01
CC130124		0.30	0.001	<0.2	2.27	6	<10	270	0.6	<2	0.67	<0.5	12	34	20	3.79
CC130125		0.60	0.002	<0.2	2.00	6	<10	220	0.5	<2	0.55	<0.5	9	30	16	3.24
CC130126		0.30	0.005	0.2	1.95	4	<10	240	0.5	<2	0.57	<0.5	8	31	23	2.93
CC130127		0.28	0.016	<0.2	1.58	5	<10	220	<0.5	<2	0.59	<0.5	7	26	22	2.63
CC130128		0.42	0.001	<0.2	1.97	7	<10	250	0.5	<2	0.54	<0.5	9	31	14	3.02
CC130129		0.60	0.004	<0.2	1.65	11	<10	170	<0.5	<2	0.29	<0.5	10	27	13	2.89
CC130130		0.26	0.001	0.2	1.75	8	<10	170	<0.5	<2	0.28	<0.5	10	27	19	2.86
CC130131		0.40	0.003	0.2	2.52	7	<10	160	0.5	5	0.22	<0.5	13	33	20	3.67
CC130132		0.52	0.002	<0.2	1.99	11	<10	140	<0.5	<2	0.18	<0.5	8	28	14	2.95
CC130133		0.44	0.001	<0.2	3.09	9	<10	310	0.7	<2	0.39	<0.5	16	41	19	4.53
CC130134		0.34	0.004	<0.2	2.26	8	<10	160	0.5	<2	0.34	<0.5	13	33	18	3.63
CC130135		0.22	<0.001	0.2	1.59	5	<10	130	<0.5	<2	0.28	<0.5	6	23	16	2.35
CC130136		0.70	0.001	<0.2	1.76	5	<10	150	<0.5	<2	0.39	<0.5	8	31	16	2.76
CC130137		0.18	0.002	<0.2	1.61	4	<10	210	<0.5	<2	0.56	<0.5	10	28	21	2.82
CC130138		0.40	0.003	<0.2	1.99	6	<10	190	<0.5	<2	0.52	<0.5	11	33	16	3.35
CC130139		0.44	0.001	<0.2	1.76	8	<10	200	<0.5	<2	0.45	<0.5	9	30	19	2.75
CC130140		0.20	<0.001	<0.2	0.46	<2	<10	140	<0.5	<2	0.42	<0.5	4	5	9	0.88
CC130141		0.24	0.001	<0.2	1.83	6	<10	380	0.5	<2	0.47	<0.5	8	30	20	2.81
CC130142		0.28	0.001	0.2	1.69	8	<10	130	<0.5	<2	0.21	<0.5	8	24	26	2.63
CC130143		0.42	0.002	0.2	2.46	8	<10	160	0.6	<2	0.22	<0.5	11	32	23	3.35
CC130144		0.32	0.002	<0.2	1.87	10	<10	190	<0.5	<2	0.26	<0.5	8	34	13	3.74
CC130145		0.28	0.001	<0.2	1.83	9	<10	100	<0.5	<2	0.28	<0.5	9	24	12	2.71
CC130146		0.26	0.001	0.2	1.53	4	<10	600	0.5	<2	0.31	<0.5	12	19	25	2.23
CC130147		0.38	0.015	<0.2	1.57	9	<10	100	<0.5	<2	0.18	<0.5	9	24	14	2.45
CC130148		0.22	0.002	<0.2	1.48	6	<10	90	<0.5	<2	0.16	<0.5	7	25	18	2.96
CC130149		0.42	0.001	<0.2	1.85	7	<10	90	<0.5	<2	0.20	<0.5	11	29	12	2.83
CC130150		0.50	0.005	<0.2	1.91	7	<10	100	<0.5	<2	0.21	<0.5	9	26	13	2.39
CC130151		0.50	<0.001	<0.2	0.53	<2	<10	40	<0.5	<2	0.14	<0.5	5	7	9	0.97
CC130152		0.44	0.023	<0.2	1.63	6	<10	80	<0.5	<2	0.19	<0.5	8	24	11	2.33
CC130153		0.26	0.002	<0.2	1.55	6	<10	110	<0.5	<2	0.21	<0.5	8	23	12	2.24
CC130154		0.32	0.001	<0.2	1.31	7	<10	100	<0.5	<2	0.22	<0.5	8	20	13	2.12
CC130155		0.36	0.001	<0.2	1.63	5	<10	290	0.5	<2	0.41	<0.5	9	18	14	2.41
CC130156		0.54	0.001	<0.2	1.72	5	<10	200	0.7	<2	0.46	<0.5	14	34	18	3.40
CC130157		0.26	<0.001	0.2	0.82	2	<10	60	<0.5	<2	0.16	<0.5	5	9	18	1.36
CC130158		0.36	0.001	<0.2	1.37	6	<10	90	<0.5	<2	0.18	<0.5	8	24	17	2.71
CC130159		0.18	0.002	<0.2	2.47	7	<10	120	0.5	<2	0.25	<0.5	12	35	18	3.21
CC130160		0.46	0.001	<0.2	1.43	4	<10	90	<0.5	<2	0.23	<0.5	9	24	14	2.14



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
CC130121		<10	<1	0.07	10	0.47	359	<1	0.02	13	480	6	0.02	<2	4	22
CC130122		<10	<1	0.11	10	0.39	565	1	0.01	13	340	9	0.02	2	9	20
CC130123		<10	<1	0.15	30	0.54	484	<1	0.02	13	520	11	0.02	2	20	30
CC130124		10	<1	0.14	20	0.92	705	<1	0.03	14	760	12	0.04	<2	9	46
CC130125		10	<1	0.12	10	0.66	432	<1	0.02	13	670	8	0.01	<2	9	30
CC130126		10	1	0.06	30	0.59	277	<1	0.02	13	820	8	0.05	<2	6	35
CC130127		<10	<1	0.07	20	0.47	341	<1	0.02	16	830	5	0.06	2	5	37
CC130128		<10	<1	0.07	20	0.62	271	<1	0.02	14	730	8	0.03	<2	8	36
CC130129		<10	<1	0.08	10	0.53	513	<1	0.01	14	380	9	0.02	<2	5	23
CC130130		10	<1	0.07	10	0.49	496	1	0.02	13	390	11	0.03	<2	4	25
CC130131		10	<1	0.12	10	0.78	511	1	0.01	17	350	10	0.02	<2	8	21
CC130132		10	<1	0.09	10	0.49	287	1	0.01	15	320	8	0.02	<2	4	17
CC130133		10	<1	0.28	20	1.12	732	<1	0.02	18	420	11	0.02	<2	12	32
CC130134		10	<1	0.14	10	0.80	502	1	0.02	15	360	7	0.02	<2	9	26
CC130135		10	<1	0.05	10	0.38	235	1	0.02	11	450	6	0.03	<2	3	24
CC130136		<10	<1	0.10	10	0.56	279	<1	0.02	15	650	6	0.02	<2	5	24
CC130137		10	<1	0.05	10	0.65	550	1	0.02	12	860	6	0.05	<2	3	38
CC130138		10	<1	0.07	10	0.75	449	<1	0.02	12	630	8	0.03	<2	6	34
CC130139		<10	<1	0.06	10	0.65	345	<1	0.02	14	650	8	0.03	<2	5	30
CC130140		<10	<1	0.02	<10	0.07	331	<1	0.05	3	670	<2	0.06	<2	1	29
CC130141		10	<1	0.06	10	0.60	297	1	0.02	15	780	8	0.03	<2	5	32
CC130142		10	<1	0.05	10	0.41	432	1	0.02	11	400	8	0.03	2	3	22
CC130143		10	<1	0.07	10	0.59	458	1	0.01	16	490	10	0.02	<2	5	21
CC130144		10	<1	0.07	10	0.60	348	2	0.01	15	340	9	0.02	<2	4	24
CC130145		10	1	0.05	10	0.41	241	3	0.02	16	560	10	<0.01	<2	3	18
CC130146		<10	<1	0.06	30	0.28	692	3	0.02	14	520	10	0.01	<2	5	27
CC130147		10	<1	0.07	10	0.42	231	3	0.02	16	400	9	0.01	<2	3	17
CC130148		10	<1	0.05	10	0.37	204	5	0.02	14	390	11	0.01	<2	2	18
CC130149		10	<1	0.07	10	0.52	358	2	0.02	15	520	8	<0.01	<2	5	15
CC130150		<10	<1	0.06	10	0.44	275	2	0.02	16	530	7	<0.01	<2	3	17
CC130151		<10	<1	0.03	<10	0.12	87	3	0.03	7	520	3	0.01	<2	<1	15
CC130152		10	<1	0.06	10	0.44	193	3	0.02	14	460	9	0.01	<2	3	15
CC130153		10	<1	0.05	10	0.40	226	3	0.02	14	480	9	<0.01	<2	3	18
CC130154		<10	<1	0.05	10	0.38	222	3	0.02	14	520	7	0.01	<2	2	18
CC130155		10	<1	0.08	20	0.32	330	3	0.03	13	670	11	0.03	<2	7	27
CC130156		10	<1	0.09	40	0.57	606	3	0.02	18	650	11	0.01	2	12	31
CC130157		<10	<1	0.03	10	0.14	125	3	0.04	7	480	5	0.02	<2	1	16
CC130158		10	<1	0.04	10	0.46	458	4	0.02	13	340	8	0.01	<2	3	18
CC130159		10	<1	0.07	10	0.72	441	3	0.02	18	450	11	0.01	<2	6	21
CC130160		10	<1	0.06	10	0.50	349	2	0.02	13	550	8	<0.01	<2	3	18



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC130121		<20	0.08	<10	<10	57	<10	44
CC130122		<20	0.05	<10	<10	84	<10	55
CC130123		<20	0.05	<10	<10	89	<10	70
CC130124		<20	0.08	<10	<10	90	<10	68
CC130125		<20	0.07	<10	<10	76	<10	58
CC130126		<20	0.06	<10	<10	71	<10	50
CC130127		<20	0.06	<10	<10	62	<10	51
CC130128		<20	0.06	<10	<10	83	<10	53
CC130129		<20	0.07	<10	<10	66	<10	66
CC130130		<20	0.08	<10	<10	72	<10	59
CC130131		<20	0.12	<10	<10	83	<10	61
CC130132		<20	0.10	<10	<10	70	<10	48
CC130133		<20	0.17	<10	<10	112	<10	66
CC130134		<20	0.12	<10	<10	87	<10	55
CC130135		<20	0.06	<10	<10	56	<10	41
CC130136		<20	0.09	<10	<10	66	<10	46
CC130137		<20	0.07	<10	<10	69	<10	54
CC130138		<20	0.08	<10	<10	86	<10	57
CC130139		<20	0.07	<10	<10	65	<10	48
CC130140		<20	0.03	<10	<10	24	<10	15
CC130141		<20	0.06	<10	<10	65	<10	46
CC130142		<20	0.08	<10	<10	64	<10	40
CC130143		<20	0.08	<10	<10	80	<10	55
CC130144		<20	0.14	<10	<10	96	<10	52
CC130145		<20	0.07	<10	<10	50	<10	37
CC130146		<20	0.02	<10	<10	45	<10	35
CC130147		<20	0.09	<10	<10	58	<10	36
CC130148		<20	0.10	<10	<10	77	<10	38
CC130149		<20	0.09	<10	<10	67	<10	41
CC130150		<20	0.08	<10	<10	51	<10	37
CC130151		<20	0.03	<10	<10	27	<10	13
CC130152		<20	0.08	<10	<10	51	<10	35
CC130153		<20	0.07	<10	<10	50	<10	36
CC130154		<20	0.05	<10	<10	46	<10	36
CC130155		<20	0.03	<10	<10	57	<10	42
CC130156		<20	0.05	<10	<10	78	<10	56
CC130157		<20	0.04	<10	<10	35	<10	18
CC130158		<20	0.08	<10	<10	71	<10	42
CC130159		<20	0.09	<10	<10	78	<10	52
CC130160		<20	0.07	<10	<10	54	<10	38



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC130161		0.52	0.001	<0.2	1.30	7	<10	140	<0.5	<2	0.35	<0.5	9	22	15	2.21
CC130162		0.32	0.005	<0.2	1.68	5	<10	110	<0.5	<2	0.30	<0.5	10	31	17	2.75
CC130163		0.40	0.003	<0.2	1.93	4	<10	120	<0.5	<2	0.26	<0.5	10	28	16	2.61
CC130164		0.46	0.002	<0.2	1.95	10	<10	260	0.6	<2	0.39	<0.5	13	32	21	3.38
CC130165		0.42	0.006	<0.2	1.53	7	<10	110	<0.5	<2	0.22	<0.5	9	27	13	2.65



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
CC130161		<10	<1	0.05	20	0.36	514	3	0.02	14	520	9	<0.01	<2	5	23
CC130162		10	<1	0.05	10	0.69	319	3	0.02	16	780	8	0.01	<2	4	23
CC130163		10	<1	0.06	10	0.55	303	3	0.02	16	630	11	<0.01	<2	4	23
CC130164		10	<1	0.09	20	0.63	635	3	0.02	16	410	13	<0.01	<2	10	30
CC130165		10	<1	0.06	10	0.52	258	3	0.02	16	270	10	<0.01	<2	3	21



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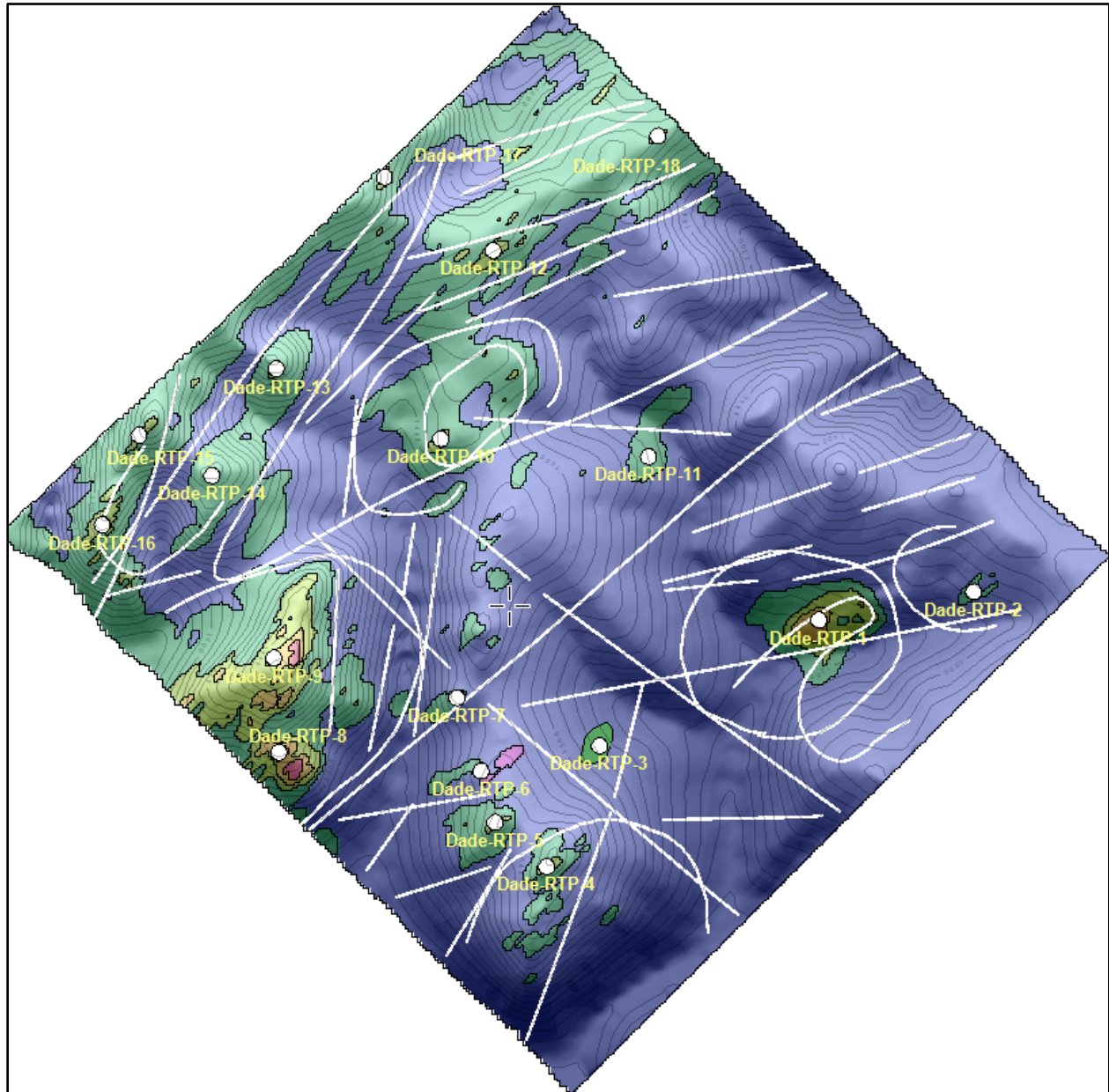
Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm	ME- ICP41 Ti %	ME- ICP41 Tl ppm	ME- ICP41 U ppm	ME- ICP41 V ppm	ME- ICP41 W ppm	ME- ICP41 Zn ppm
		20	0.01	10	10	1	10	2
CC130161		<20	0.04	<10	<10	48	<10	34
CC130162		<20	0.09	<10	<10	72	<10	46
CC130163		<20	0.08	<10	<10	59	<10	46
CC130164		<20	0.06	<10	<10	77	<10	67
CC130165		<20	0.10	<10	<10	69	<10	51



**APPENDIX IV**

**HELICOPTER-BORN GEOPHYSICAL SURVEY AND INTERPREATION DATA**

# Processing and Interpretation of the BBB Magnetic Data, Yukon, Canada



Dade Grid Classified RTP Response

## **Contents**

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Table 2. BBB grid RTP class ranges in nT .....	13
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## Introduction

This report covers the processing and basic interpretation of the New-Sense Geophysics Ltd. “BBB”.

The BBB survey grid will be reviewed first.

## BBB Survey

The BBB survey location and flight line path is seen below in Figure 1. The survey coordinates are NAD83 UTM zone 8N. There is a total of 571 line km of data on two survey grids, one of 144 km flown in 2010 and one of 427 km flown in 2011. The nominal flight line spacing for the data is 100 m. The survey grid

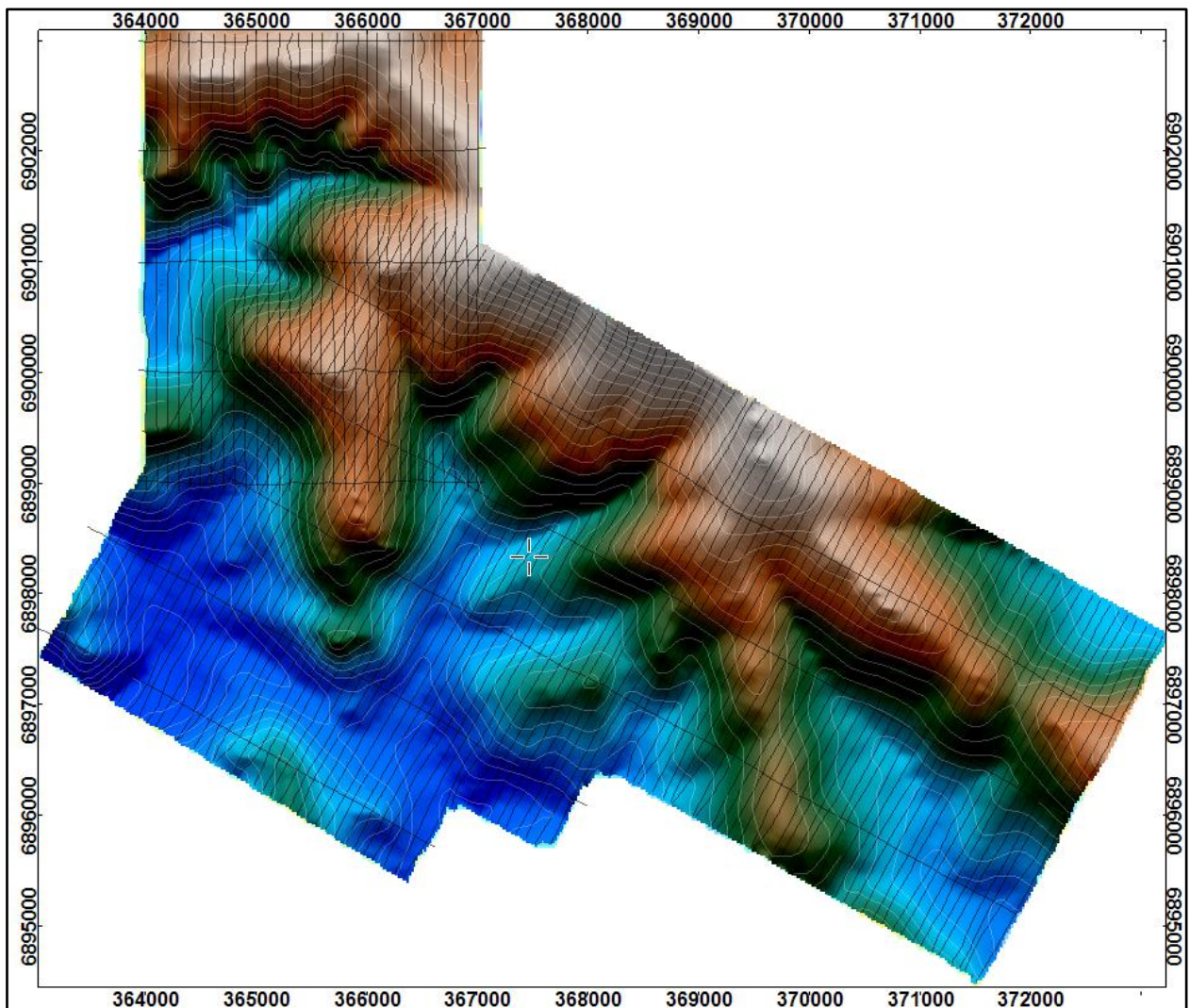


Figure 1. BBB grid flight and tie lines, 571 km total. Background image is topography. The topographic relief from lower elevations (blue) to higher elevations (light brown) ranges over 500 m.

covers significant topography with over 500 m of relief. Condor processing of the delivered data includes merging the 2010 and 2011 grids and magnetic filtering techniques that accentuate magnetic structure and response amplitude on the grid. The primary filtered grids of the total magnetic intensity (TMI) grid are the reduced-to-pole (RTP), first vertical derivative (1VD), the magnetic tilt angle (TA), and the analytic signal (AS). Sun-shaded “magnetic structure maps” also employ directional horizontal gradients that are usually parallel to flight line directions, accentuating magnetic structure perpendicular to flight lines. Radiometric data is plotted as ternary CMY color plots and potassium (K) count plots. Potassium was chosen as the primary radiometric display channel as elevated K-counts may be associated with alteration systems such as porphyries. In the following figures the geophysical response grids are draped on topography to show where higher amplitude responses are located in relation to topography. Figure 2 is a plot of the TMI draped on topography. The TMI range on the grid is ~ 900 nT. The higher amplitude magnetic and radiometric signatures appear to be partially correlated with exposed higher elevation ridgelines and mountain peaks. Lower amplitude TMI responses generally occur in lower elevation drainages. Terrain clearance (sensor altitudes) over the mountain peaks can be 200+ feet lower than over the drainage channels. Any response enhancement and attenuation evident in Figure 2 may in part be related to lower altitude sensors over the ridges and peaks, and higher altitude sensors over the drainages, respectively.

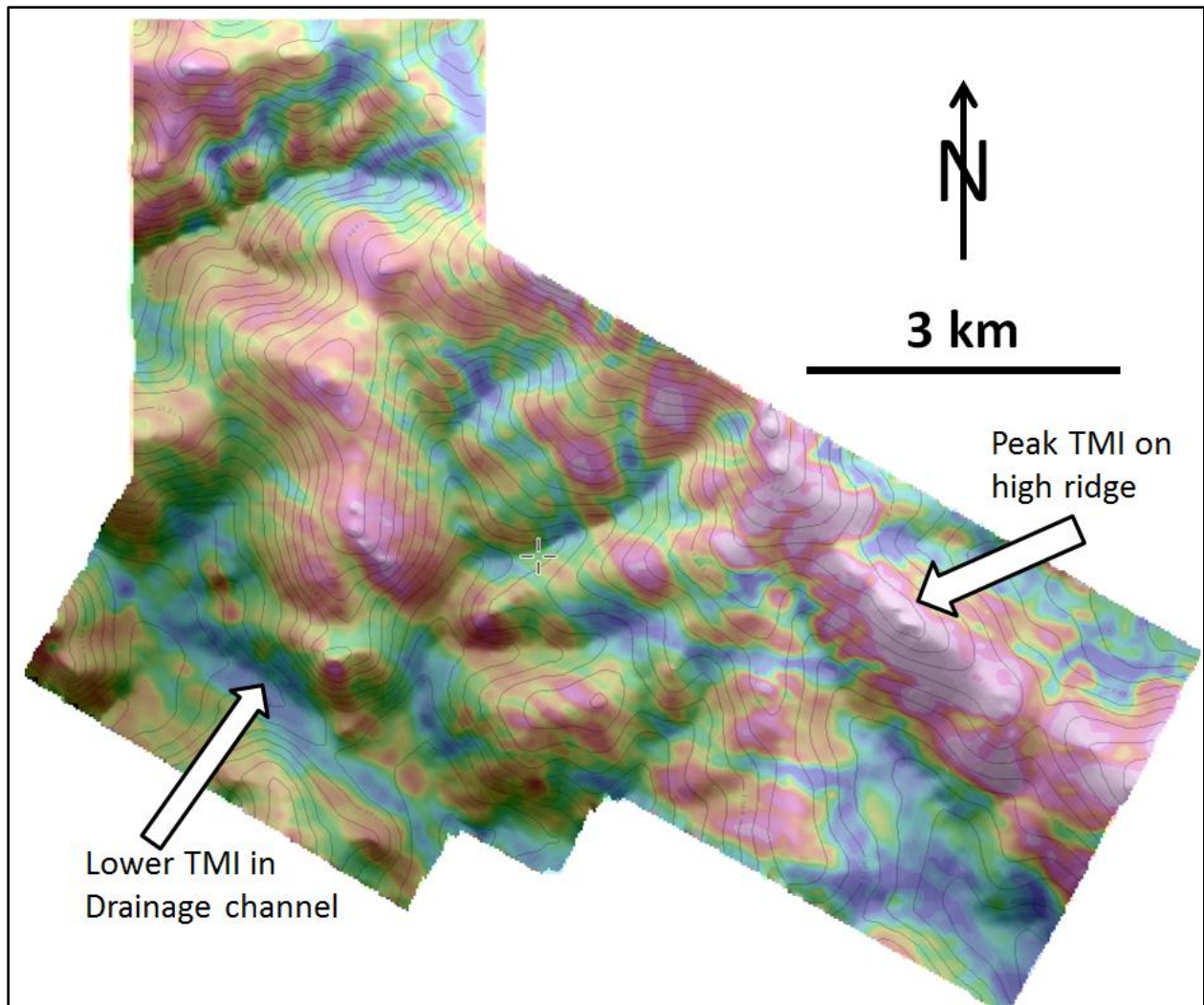


Figure 2. BBB grid TMI draped on topography. The highest amplitude responses (red) occur over a NW-SE trending ridgeline. The lower TMI amplitudes in darker blues generally trace drainage channels.

Figure 3 is a drape of the potassium (K) radiometric channel on topography. The correlation of higher K-counts over exposed ridgelines and mountain peaks, with lower counts in the drainage channels, is similar to the TMI. It is kept in mind that the correlation of higher geophysical responses over higher elevations, if due to lower sensor clearances, may at least in part be coincidental, as the northernmost drainage channel shows elevated K-counts downslope from a mountain peak with higher K-counts. It appears the nearby mountain peaks may be K sources that could be shedding more K-rich detritus into the drainage channel. The higher peaks and ridges may indeed at certain sites be the locations of more magnetic and radioactive lithologies, and not just reflect lower airborne sensor altitudes. Drainage channels may also show lower radiometric readings due to higher moisture content suppression of decay counts, not just higher sensor altitudes.



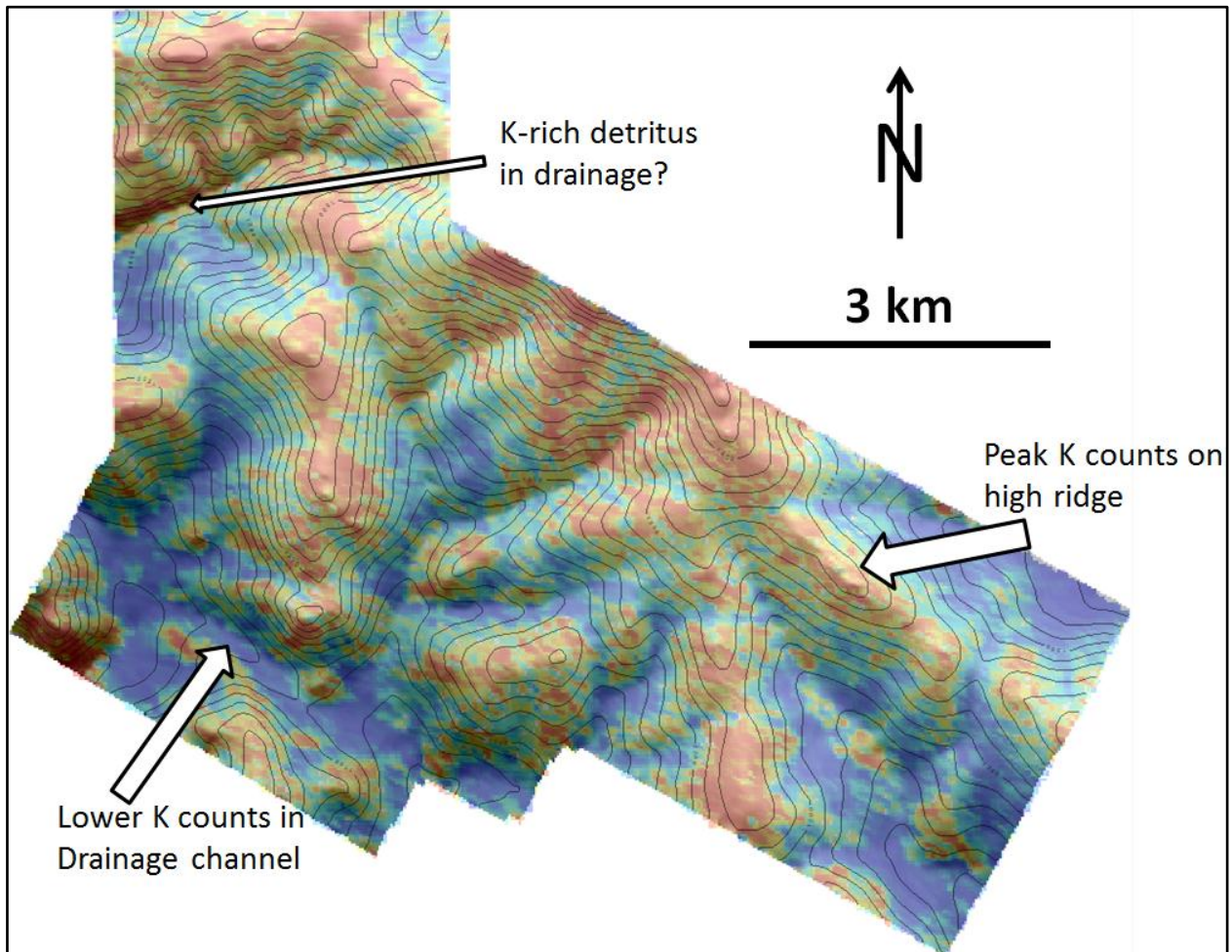


Figure 3. BBB K channel counts drape on topography. The higher counts (red) generally occur over ridges and peaks. The lower counts in darker blues generally trace drainage channels, though the pointed-out northernmost channel is an exception to this rule.

Figure 4 is a topographic drape of the RTP image. The RTP better locates the peak magnetic response than does the Figure 2 TMI image. The RTP filter mathematically treats the TMI response as if it were located at the north magnetic pole, where magnetic sources would produce vertical Z components centered above the source. The RTP responses were subsequently picked as potential reconnaissance (Recce) sites for follow-up investigation. The 19 BBB Recce Sites and their properties are listed in Table 1. The terrain elevations are provided in the “DTM” column. The airborne sensor clearance altitudes are provided in the “Rad\_Alt\_Ft column”. Peak RTP responses are provided in the “RTP” column. The analytic signal amplitude is located in the “AS\_amp” column. The radioactive potassium counts are located in the “K-counts” column. The “Notes” column provides a brief memo on the Recce Sites. The

Recce Sites are ranked from 1 to 19, with site priority in the Priority column. Site “BBB-RTP-3” is the highest ranked, on the top of a prominent NW-SE trending ridgeline.

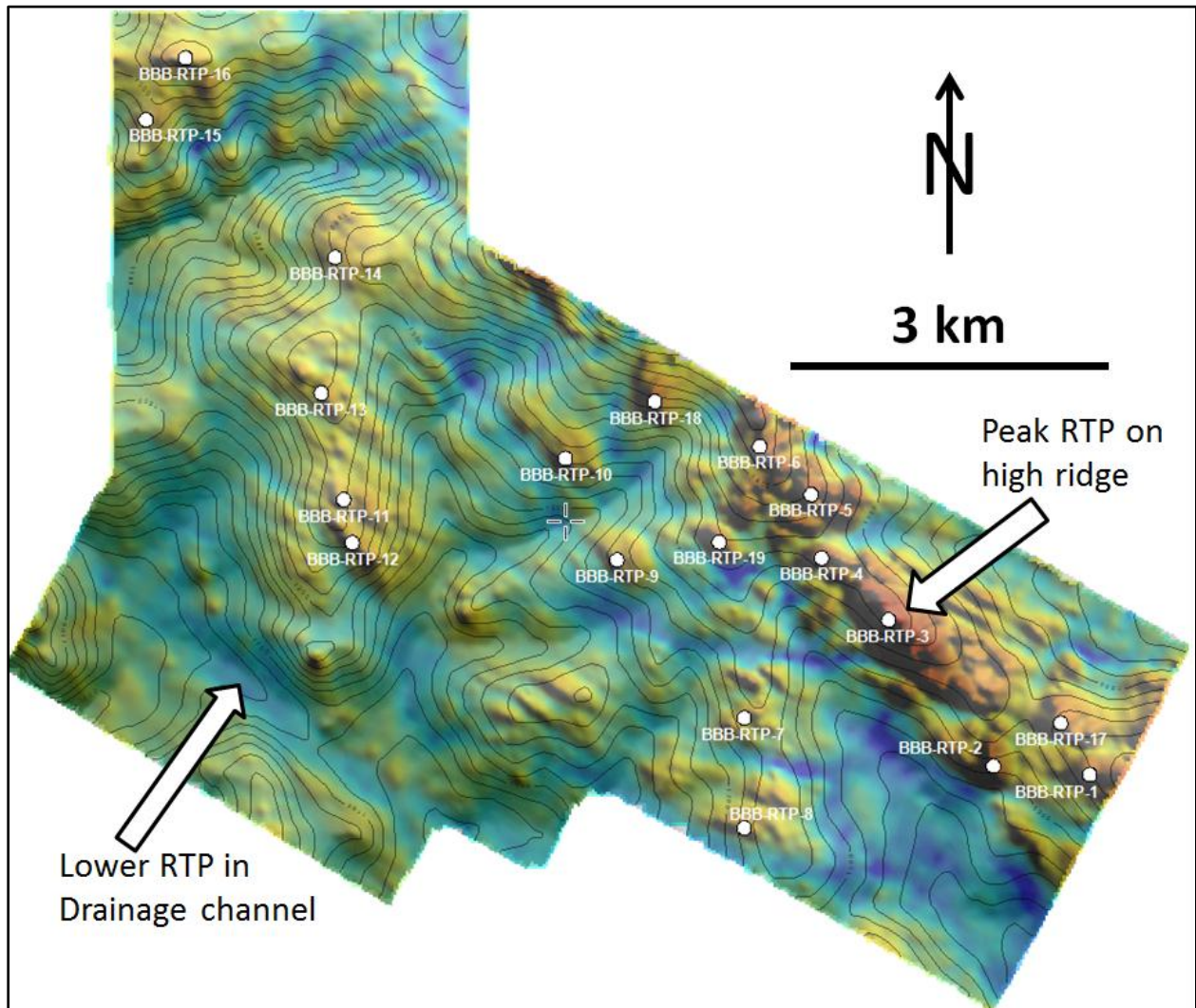


Figure 4. BBB RTP grid draped on topography with the 19 proposed reconnaissance sites posted.



**Table 1. Proposed BBB reconnaissance sites based on RTP amplitude values**

ID	X	Y	DTM	Rad_Alt_Ft	RTP	AS_amp	K-counts	Notes	Priority	Rank
BBB-RTP-1	372376.6	6896522	1277	104	57446	1.36	Slightly Elevated K	Sited on exposed NW-SE trending ridgeline	Lower	17
BBB-RTP-2	371549.3	6896596	1210	112	57471	2.14	Slightly Elevated K	An ~ 700 m traverse downslope of a SE-NW trending ridgeline, in a steep drainage valley.	Moderate	8
BBB-RTP-3	370648.1	6897852	1331	70	57815	4.88	Elevated K	Sited on exposed NW-SE trending ridgeline, lower fly height & exposed ridge may contribute to higher amplitude TMI and TC, traverse NW-SE	Highest	1
BBB-RTP-4	370072	6898384	1330	76	57498	3.43	Elevated K	Sited on exposed NW-SE trending ridgeline, lower fly height & exposed ridgeline may contribute to higher amplitude TMI and TC	Higher	4
BBB-RTP-5	369983.4	6898930	1375	107	57602	4.73	Elevated K	Sited on exposed NW-SE trending ridgeline, fly height is higher, not cause higher responses	Higher	2
BBB-RTP-6	369540.2	6899344	1430	98	57449	2.87	Highly Elevated K	Sited on exposed NW-SE trending ridgeline, fly height is higher, not cause higher responses	Higher	3

ID	X	Y	DTM	Rad_Alt_Ft	RTP	AS_amp	K-counts	Notes	Priority	Rank
BBB-RTP-7	369407.2	6897010	1251	76	57302	0.98	Elevated K	Sited on exposed NW-SE trending ridgeline, fly height is higher, not cause higher responses	Lower	18
BBB-RTP-8	369407.2	6896064	1229	78	57329	1.75	Highly Elevated K	Sited on southern slopes of a SW-NE trending ridgeline, ~ 300 m traverse below the ridge crest.	Lower	10
BBB-RTP-9	368314.1	6898369	1248	107	57332	1.64	Elevated K	Sited on the peak of a NE-SW trending drainage divide, ~1600 m traverse below the mountain peak to the north.	Lower	13
BBB-RTP-10	367870.9	6899240	1283	134	57363	2.00	Elevated K	Sited on the south slopes of a higher mountain, ~ 1300+ m traverse distance below the peak to the north.	Moderate	7
BBB-RTP-11	365965.2	6898886	1283	107	57401	2.59	Highly Elevated K	Sited on exposed NW-SE trending ridgeline, exposure may contribute to higher radiometric response	Higher	5
BBB-RTP-12	366039	6898516	1264	121	57361	2.54	Elevated K	Sited on exposed NW-SE trending ridgeline	Moderate	6

ID	X	Y	DTM	Rad_Alt_Ft	RTP	AS_amp	K-counts	Notes	Priority	Rank
BBB-RTP-13	365773.1	6899802	1316	93	57338	1.64	Highly Elevated K	Sited on exposed NW-SE trending ridgeline, exposure may contribute to higher radiometric response	Lower	11
BBB-RTP-14	365891.3	6900969	1303	112	57321	0.58	Highly Elevated K	Sited on the south slopes exposed NW-SE trending ridgeline, exposure may contribute to higher radiometric response	Lower	16
BBB-RTP-15	364266.3	6902151	1281	117	57336	1.16	Elevated K	Sited on exposed NE-SW trending ridgeline	Lower	15
BBB-RTP-16	364606.1	6902682	1370	85	57369	1.36	Highly Elevated K	Sited on exposed NE-SW trending ridgeline, exposure may contribute to higher radiometric response	Lower	12
BBB-RTP-17	372125.4	6896965	1266	96	57452	1.60	Slightly Elevated K	Sited on exposed NW-SE trending ridgeline	Lower	14
BBB-RTP-18	368639	6899728	1371	125	57449	2.30	Slightly Elevated K	Sited on upper N slopes of a NE-SW trending valley	Moderate	9
BBB-RTP-19	369192	6898521	1337	83	57461	3.39	Elevated K	Sited on upper S slope of a mountainside, ~ 1300 m traverse to peak on north.	Higher	19

Figure 5 is a drupe of the AS image on topography. Six zones have been identified where individual RTP picks have associated larger, continuous, higher amplitude AS peak responses in the shape of the outlines. The AS signatures may be traversed away from the RTP picks within the outlines to check if there is any magnetic source continuity associated with the AS and RTP responses.

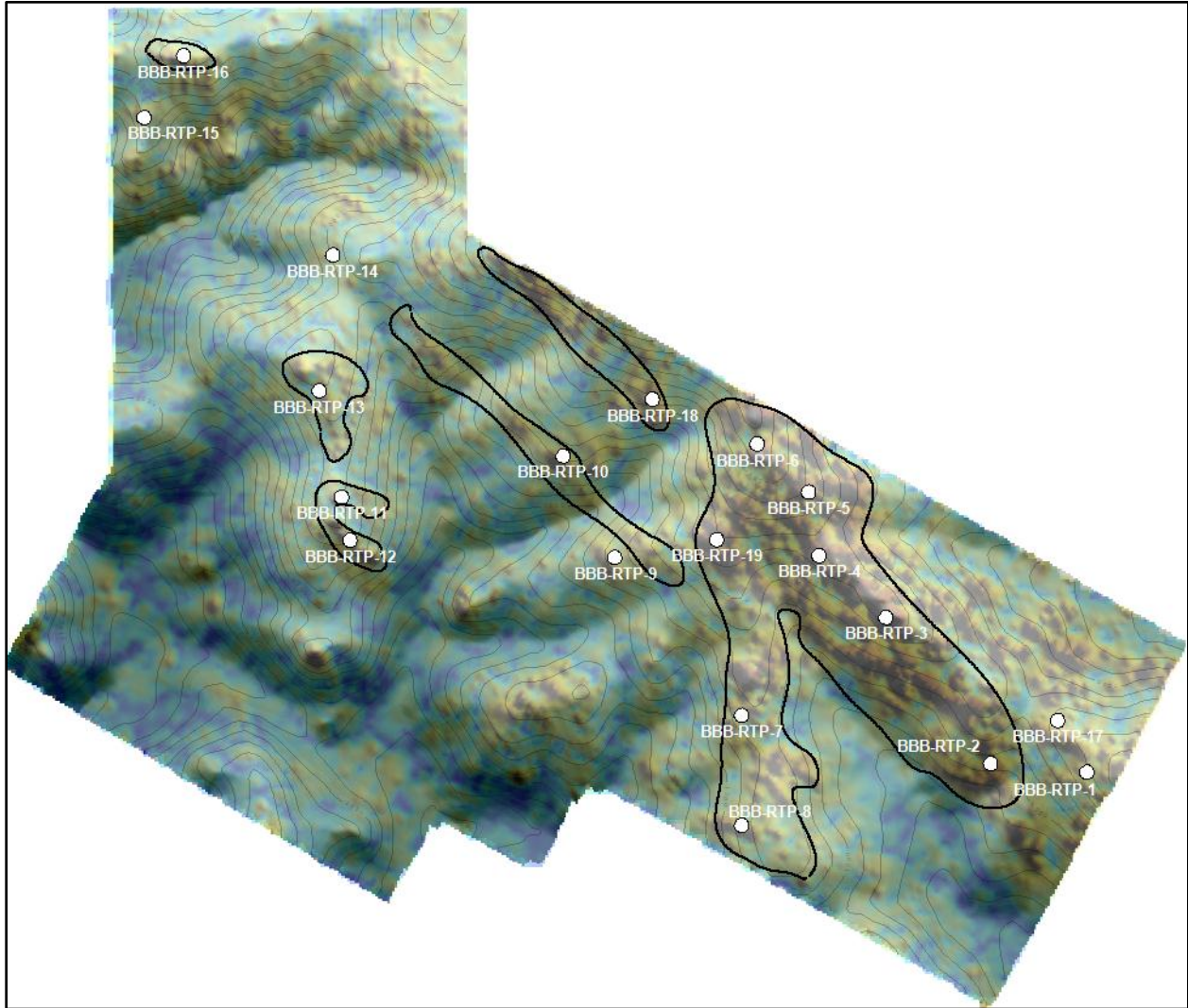


Figure 5. BBB grid, six higher amplitude AS response zones outlined in black.

Figure 6 is a basic magnetic linear interpretation of the RTP draped on the NE-SW horizontal gradient shaded grid. Some more obvious linear signatures are traced in white. Some of the linears bound what appear to be wedge shaped blocks with listric geometry noted along a few merging linears. The southern grid is characterized by a general NW-SE striking magnetic grain with major E-W crosscutting linears. The NW grid is characterized by a NE-SW striking magnetic grain. BBB grid magnetic structure often crosscuts topography though topography may factor in magnetic response amplitudes that could

cause structural misinterpretation. There may be evidence of magnetic horizon movement across one linear on the grid east as pointed out by the opposing arrows. The two smaller red outlines at map sites A and B enclose what could be interpreted as magnetic verging or V-shaped signatures. The red ellipse traces the periphery of what could be interpreted as a larger, lower-amplitude, elliptical shaped RTP signature. The ellipse is centered on a NW-SE trending stream channel though, so topographic effects can't be discounted in creating the elliptical signature. The most obvious significant magnetic signature on the grid remains the higher amplitude RTP and AS response "BBB-RTP-3" on the grid east as pointed out by the arrow.

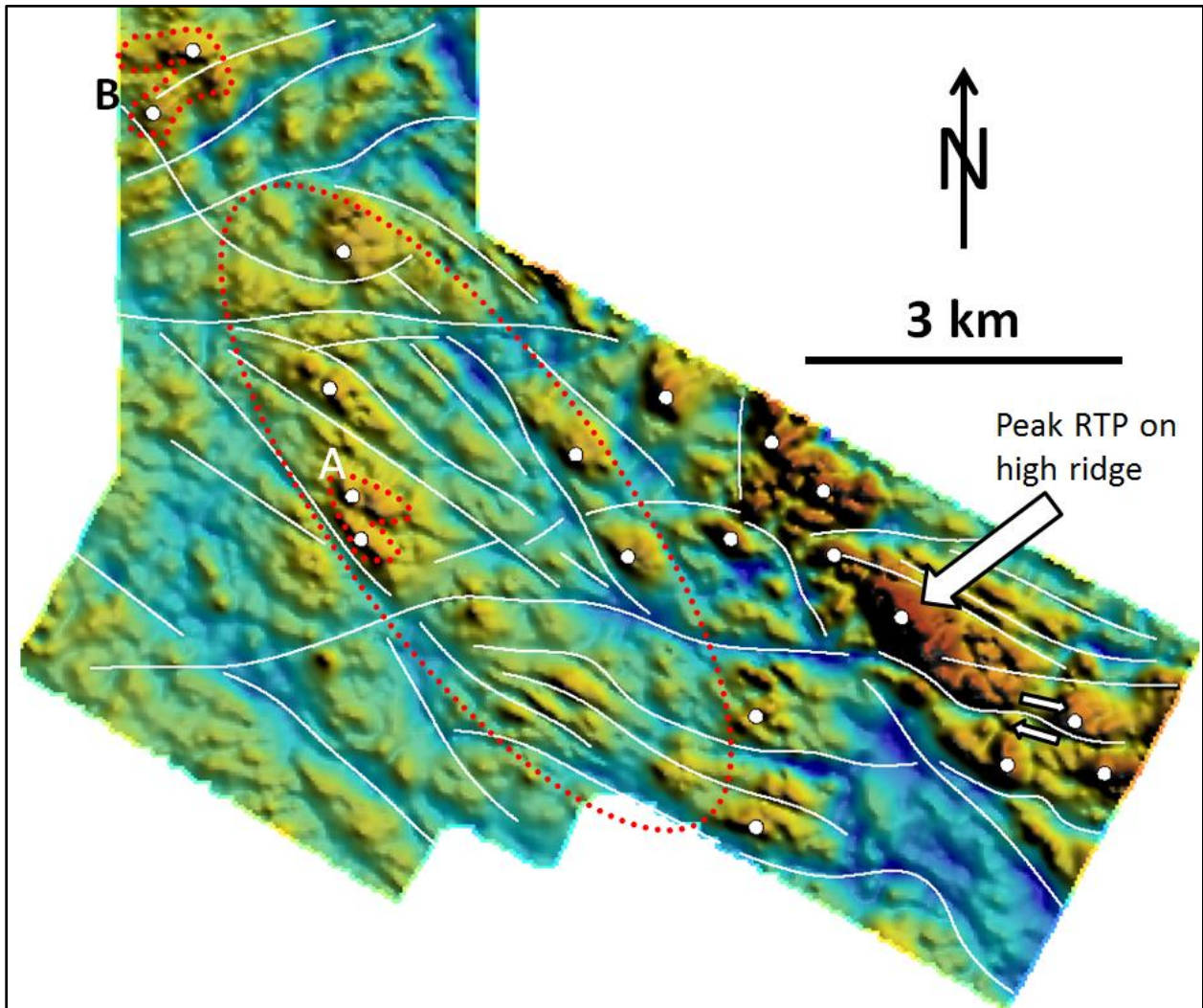


Figure 6. RTP response, BBB grid, draped on NE-SW horizontal gradient with basic interpretation.

An efficient way to simplify magnetic response data is to classify the range of RTP responses as in Figure 7. Table 2 shows the classification ranges. The highest amplitude RTP zones are clearly highlighted by color, and the two fold-shaped signatures previously highlighted by red outlines in Figure 6 are



**Table 2. BBB grid RTP class ranges in nT.**

	From ( $\geq$ )	To ( $<$ )	Value
1	56974.093750	57123.558594	1.000000
2	57123.558594	57273.023438	2.000000
3	57273.023438	57422.488281	3.000000
4	57422.488281	57571.953125	4.000000
5	57571.953125	57721.417969	5.000000
6	57721.417969	57870.882813	6.000000

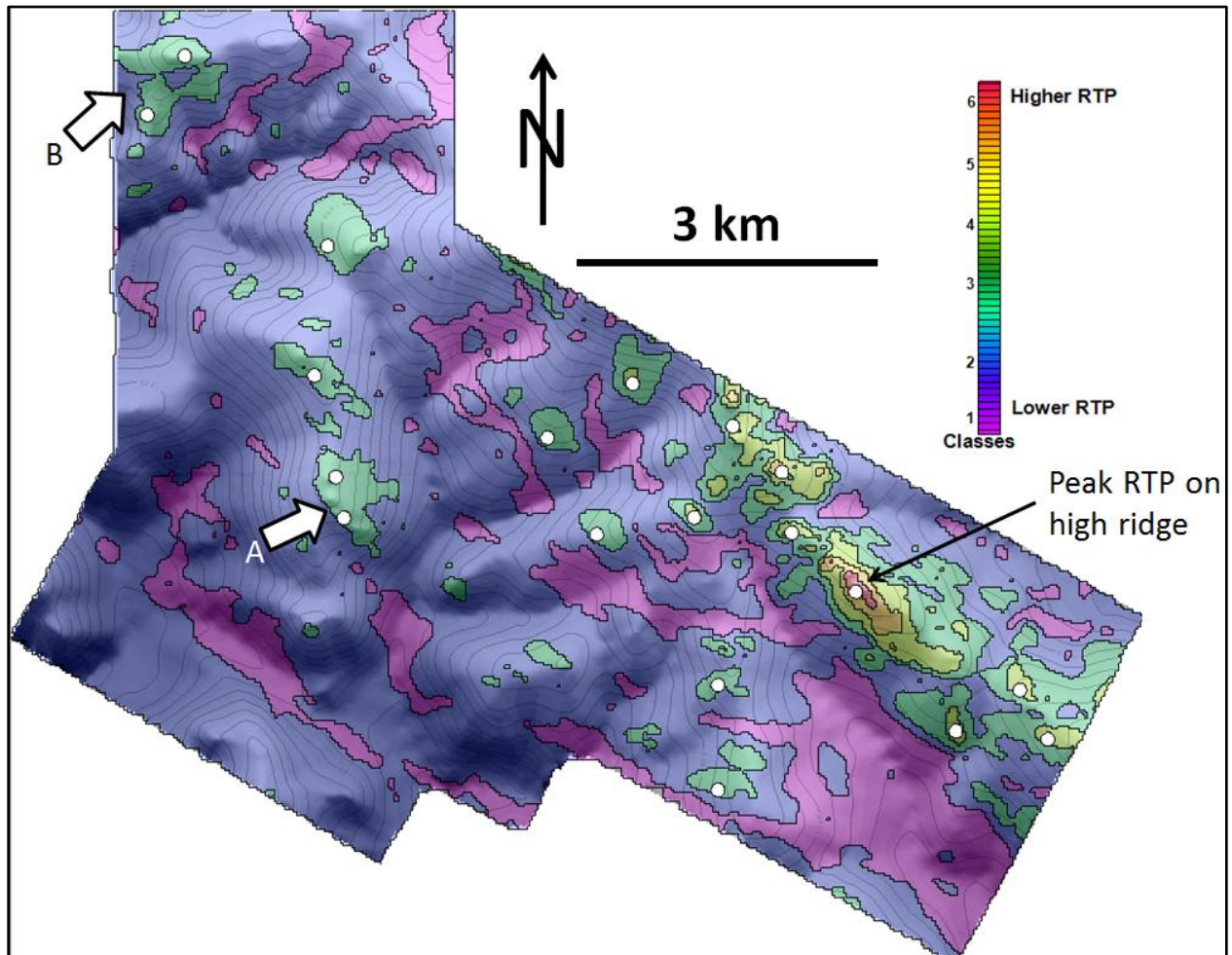


Figure 7. BBB grid RTP classified into six classes based on amplitude ranges.

similarly identified by green Class 3 outlines, as pointed out by the arrows. The red, orange, and yellow shades outline the areas of higher RTP amplitude. The green and light blue shades outline moderate amplitude responses. The darker blue and purple shades outline the lower amplitude background and drainage responses.

## Conclusions

The BBB magnetic and radiometric data were reviewed. The BBB magnetic data is comprised of separate 2010 and 2011 surveys that were merged into one grid. The range in TMI amplitude across the grid is ~ 900 nT, which does not indicate the presence of any highly magnetic rocks near surface. A basic magnetic linear interpretation of the southern grid identifies a general NW-SE striking magnetic grain with larger E-W crosscutting linears. The NW grid is characterized by a NE-SW striking magnetic grain. Overall, the BBB grid background texture shows less variability indicating more background geologic homogeneity. Nineteen proposed Recce Sites were identified on the merged BBB grid for field follow-up investigation. An RTP signature classification clearly identifies the eastern grid, centered on Recce Site "BBB-RTP-3," to contain the highest amplitude magnetic signatures. In total six Recce Sites were ranked high priority for field investigation, four were ranked moderate priority, and nine were ranked low priority.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read 'Ed Cunion', with a stylized flourish at the end.

Ed Cunion

November 14, 2011



**Logistics  
Report**

For the

**High Resolution Helicopter Magnetic and  
Gamma-ray Spectrometric Airborne Geophysical Survey**

Flown over

**BBB and Dade Blocks, YT, Canada**

From

**Carmacks, YT, Canada**

Carried out on behalf of

**WOLVERINE MINERALS CORP.**

By

**New-Sense Geophysics Limited**



Toronto, Canada  
September 27<sup>th</sup>, 2011  
(HMR110713-report)

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**AMENDMENT RECORD**

<b>Rev</b>	<b>Date</b>	<b>Description</b>	<b>Report Section</b>	<b>Prepared by</b>

**DOCUMENT RECORD**

<b>Document Identification</b>	HMR110713-report
<b>Document Custodian</b>	Field Operations Manager
<b>Relates To</b>	Final Deliverables
<b>Original Date Issued</b>	September 27 <sup>th</sup> , 2011

## 1. INTRODUCTION

A high sensitivity helicopter magnetic and gamma-ray spectrometric airborne survey was carried out for Wolverine Minerals Corp. (Client) over the project areas known as BBB and Dade blocks, located approximately 50 km west of Carmacks, YT, Canada.

New-Sense Geophysics (NSG) flew the survey under the terms of an agreement with Client dated July 13<sup>th</sup>, 2011 (Appendix G).

The survey was flown between July 13<sup>th</sup> and July 18<sup>th</sup>, 2011. A total of 396 line kilometers (BBB block) and 427 line kilometers (Dade block) of field magnetic and radiometric data was flown, collected, processed and plotted.

The geophysical equipment was comprised of 1 high-sensitivity Cesium-3 magnetometer mounted in a fixed stinger assemble, and a 1024-channel spectrometer with four downward looking crystals (total 16 liters), and one upward looking crystal (total 4 liters). Airborne ancillary equipment included; digital recorders, fluxgate magnetometer, radar altimeter, and global positioning system (GPS) receiver. The GPS receiver provided accurate real-time navigation and subsequent flight path recovery. Surface equipment included a magnetic base station with GPS time synchronization, and a PC-based field workstation which was used to check the data quality and completeness on a daily basis.

The technical objective of the survey was to provide high-resolution total field magnetic and radiometric maps suitable for anomaly delineation, detailed structural evaluation, and identification of lithologic trends. Fully corrected magnetic and radiometric maps were prepared by New-Sense Geophysics Limited, in their Toronto office, after the completion of survey activities.

This report describes the acquisition, processing, and presentation of data for the Wolverine Minerals Corp. airborne survey over BBB and Dade blocks flown from Klaza camp and Carmacks, YT, Canada (Tables 2.1-2.2 and Figure 2.1).

## 2. SURVEY LOCATION

Datum: NAD83

Projection: Universal Transverse Mercator Zone 8N

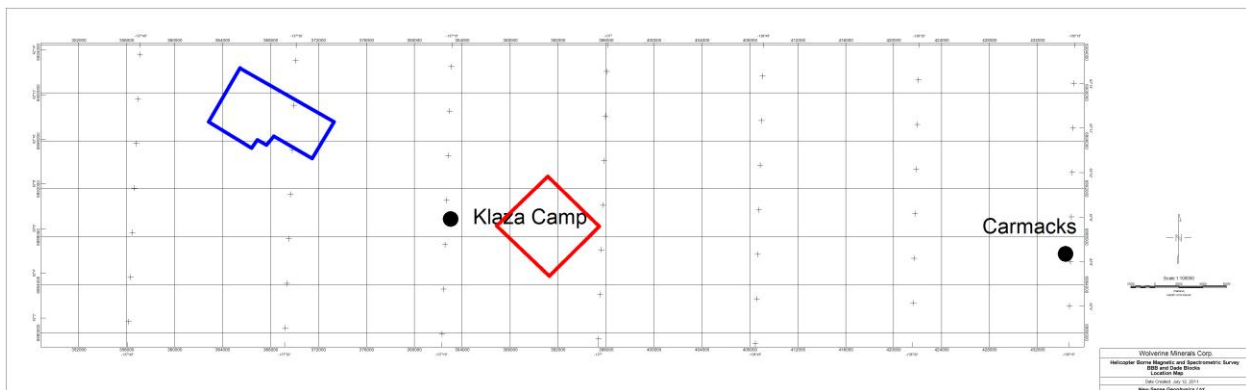
Local Datum Transform: North America – Canada and USA

**Table 2.1: BBB Block Coordinates**

UTM Zone 8N	
NAD83_X	NAD83_Y
365438	6902072
373282	6897592
371473	6894543
368259	6896403
367652	6895669
366893	6896087
366412	6895416
362831	6897580
365438	6902084

**Table 2.2: Dade Block Coordinates**

UTM Zone 8N	
NAD83_X	NAD83_Y
391140	6893040
386855	6888934
391261	6884750
395425	6888891



**Figure 2.1** Map depicting outlines of the BBB block (blue) and Dade block (red). Coordinate system, WGS84, World, UTM Z8N. UTM grid cell size 4km.

### **3. PERSONNEL**

#### **3.1 FIELD OPERATIONS**

New-Sense Geophysics Ltd., Geophysicist: Pawel Starmach

Northern Air Support Ltd., Pilot: Jim Stibbart

#### **3.2 OFFICE DATA PROCESSING AND OFFSITE QA/QC**

QA/QC (NSG): Andrei Yakovenko

Data Processing and Grids (NSG): Andrei Yakovenko  
Pawel Starmach

Maps (NSG): Andrei Yakovenko

Logistics Report (NSG): Andrei Yakovenko

#### **3.3 PROJECT MANAGEMENT**

New-Sense Geophysics Ltd.: Andrei Yakovenko, Vice President,  
Operations

Wolverine Minerals Corp. Heather Smith, P.Geo, Project  
Geologist/Supervisor

#### 4. SURVEY PARAMETERS

##### BBB block:

Traverse Line spacing:	100 m
Control Line spacing:	1000 m
Average Terrain clearance:	35 m
Navigation:	GPS
Traverse Line direction:	29 <sup>0</sup> , 209 <sup>0</sup>
Control Line direction:	119 <sup>0</sup> , 299 <sup>0</sup>
Measurement interval:	0.02/0.1 sec for magnetic; 1.0 sec for radiometric; 1.0 sec for GPS
Groundspeed (average):	141 km/hr
Measurement spacing (average):	3.9 m/0.1 sec for magnetic; 39/1.0 sec for radiometric

##### Dade block:

Traverse Line spacing:	100 m
Control Line spacing:	1000 m
Average Terrain clearance:	31 m
Navigation:	GPS
Traverse Line direction:	135 <sup>0</sup> , 315 <sup>0</sup>
Control Line direction:	45 <sup>0</sup> , 225 <sup>0</sup>
Measurement interval:	0.02/0.1 sec for magnetic; 1.0 sec for radiometric; 1.0 sec for GPS
Groundspeed (average):	109 km/hr
Measurement spacing (average):	3.1 m/0.1 sec for magnetic; 31/1.0 sec for radiometric

Airborne Digital Record:	Line Number
	Flight Number
	Radar Altimeter
	Total Field Magnetism
	Live Time
	Thorium counts
	Potassium counts
	Uranium counts
	Upward looking Uranium counts
	Cosmic counts
	Down Spectrum
	Up Spectrum
	Total Counts
	Time (System and GPS)
	Raw Global Positioning System (GPS) data
	Magnetic compensation parameters (fluxgate mag.)

Base Station Record:	Ambient Total Field Magnetism
	Raw Global Positioning System (GPS) data
	Time (System and GPS)



## **5. AIRCRAFT AND EQUIPMENT**

### **5.1 AIRCRAFT**

The aircraft used was a Bell 206 B3 helicopter (C-GMPS) equipped with a Cesium magnetometer mounted in a fixed stinger assembly and RS-500 airborne spectrometer mounted in the storage compartment. The aviation company providing the aircraft service was Northern Air Support based in Kelowna, BC, Canada.

### **5.2 AIRBORNE GEOPHYSICAL SYSTEM**

#### **5.2.1 MAGNETOMETER**

One Scintrex CS-3 optically pumped Cesium split beam sensor was mounted in a fixed stinger assembly. The magnetometer's Larmor frequency output was processed by a KMAG-4 magnetometer counter, which provides a resolution of 0.15 ppm (in a magnetic field of 50,000 nT, resolution equivalent to 0.0075 nT). The raw magnetic data was recorded at 50 Hz, anti-aliased with 51 point COSINE filter and resampled at 10 Hz .

#### **5.2.2 MAGNETIC COMPENSATION**

The proximity of the aircraft to the magnetic sensor creates a measurable anomalous response as a result of the aircraft's movement. The orientation of the aircraft with respect to the sensor and the motion of the aircraft through the earth's magnetic field are contributing factors to the strength of this response. A special calibration flight, Figure of Merit (i.e., FOM), was flown to record the information necessary to compensate for these effects.

The FOM maneuvers consist of a series of calibration lines flown at high altitude to gain information in each of the required line directions. During this procedure, pitch, roll and yaw maneuvers are performed on the aircraft (typical angle ranges are 10° pitch, 10° roll, and 10° yaw). Each variation is conducted three times in succession (first pitch, then roll, then yaw), providing a complete picture of the aircraft's effects at designated headings in all orientations.

A three-axis Bartington fluxgate magnetometer (recorded at 50 Hz) was used to measure the orientation and rates of change of the magnetic field of the aircraft, away from localized terrestrial magnetic anomalies. The QC Tools digital compensation algorithm was then applied to generate a correction factor to compensate for permanent, induced, and eddy current magnetic responses generated by the aircraft's movements.

### **5.2.3 GPS NAVIGATION**

A U-BLOX RCB-LJ sixteen channel GPS receiver, which is an integral component of the iNAV V3 computer system, was used to run the flight control system and provide precise positioning of the aircraft.

### **5.2.4 ALTIMETER**

A TRA 3500 radar altimeter was mounted inside the stinger. This instrument operates with a linear performance over the range of 0 to 2,500 feet and records the terrain clearance of the sensors. The raw radar altimeter data was recorded at 50 Hz, anti-aliased with a 21 point COSINE filter and re-sampled at 10 Hz.

### **5.2.5 GEOPHYSICAL FLIGHT CONTROL SYSTEM**

New-Sense's iNAV V3 geophysical flight control system monitored and recorded magnetometer, spectrometer, altimeter, and GPS equipment performance. Input from the various sensors was monitored every 0.005 seconds for the precise coordination of geophysical and positional measurements. The input was recorded fifty times per second (one time per second in the case of GPS and radiometric data).

GPS positional coordinates and terrain clearance were presented to the pilot by means of a panel mounted indicator display. The magnetometer response, forth difference, altimeter profile and profiles of the radiometric windows were also available on the touch screen display, for real-time monitoring of equipment performance.

### **5.2.6 SPECTROMETER**

The RS-500 Airborne Spectrometer with RSX-5 detector pack, manufactured by Radiation Solutions Inc. (RSI), was used for the survey. The RS-500 spectrometer has a multi-peak gain stabilization algorithm and is capable of recording 1024 channels with accuracy of 0.1 to 10 counts/second.

The RS-500 is connected to a crystal pack comprising four downward looking crystals (16 liters total) and one upward looking crystal (4 liters total). The downward crystals record the radiometric spectrum from 410 KeV to 2810 KeV over 1024 discrete energy windows, as well as from a cosmic ray channel that detects photons with energy levels above 3.0 MeV. From these 1024 channels, the standard Total Count, Potassium, Uranium and Thorium channels are extracted. The upward crystal is used to measure and correct for atmospheric Radon interference. The shock-protected Sodium Iodide (Thallium) crystal package is unheated and automatically stabilizes with respect to the multiple peaks. The RS-500 provides raw data that has been automatically corrected for gain, base level, ADC offset, and dead time.

### **5.2.7 IDAS DIGITAL RECORDING**

The output of the CS-3 magnetometer, fluxgate magnetometer, altimeter, temperature, pressure, GPS coordinates, and time (system and GPS), were recorded digitally on a Compact Flash drive at a sample rate of fifty times per second (one time per second for GPS) by the iNAV V3 system.

### **5.2.8 PRESSURE AND TEMPERATURE**

A Honeywell Precision Pressure Transducer, model PPT0020AWN2VA-A, was used to record the ambient pressure and temperature during the survey. The device was mounted within the helicopter stinger. The pressure and temperature output units were mbar and degrees Celsius respectively.

### **5.2.9 SPECTROMETER DIGITAL RECORDING**

The output of the RS-500 spectrometer, GPS coordinates, and time (UTC), were recorded digitally on an internal RS-500 flash drive at a sample rate of 1 Hz. After each flight the data were copied and synchronized using UTC clock with the iDAS digital records.

## **5.3 GROUND MONITORING SYSTEM**

### **5.3.1 BASE STATION MAGNETOMETER**

A Scintrex CS-3 optically pumped cesium split beam sensor was used at the base of operations within the airport boundaries, in an area of low magnetic gradient and low/free from cultural electric & magnetic noise sources. The sensitivity and absolute accuracy of the ground magnetometer is +/- 0.01 nT. Data was recorded continuously at least every one second throughout all survey operations in digital form on a TC-10 data acquisition system. Both the ground and airborne magnetic readings were synchronized based on the GPS clock.

### **5.3.2 RECORDING**

The output of the magnetic and GPS monitors was recorded digitally on a dedicated TC-10 computer. A visual record of the last three hours was graphically maintained on the computer screen to provide an up to date appraisal of magnetic activity. At the conclusion of each production flight raw GPS and magnetic data were transferred to the main field compilation computer.

#### **5.4 FIELD COMPILATION SYSTEM**

A field laptop computer was used for field data processing and presentation. The raw data was imported to Geosoft Oasis montaj for QA/QC and processing purposes. After the data was checked for quality control, the database with uncompensated magnetic readings was exported to QC Tools software package for magnetic compensation and base station data merging purposes. The compensated database was then imported back to Oasis for the subsequent and final processing.

## 6. PRE-SURVEY SPECTROMETER CALIBRATIONS

Calibrations, and testing of the RS-500 (SN 5516) airborne gamma-ray spectrometry system were carried out on July 20<sup>th</sup> and 21<sup>st</sup>, 2011 in the vicinity of the survey area. The installed equipment and configurations were selected to conform to the contracts technical specifications.

Calibration of the spectrometer system is a vital process to airborne gamma-ray spectrometry. The calibration of the spectrometer system involved three tests:

- **Calibration Pad** measurements, which are used to determine the “spectral overlap” (Compton scattering) coefficients. The calibration test was performed within a 12 month period before the survey by the manufacturer (Radiation Solutions Inc.), at its headquarters location in Mississauga, Ontario.
- **Cosmic Flight Test**, which is used to determine cosmic coefficients and aircraft background noise, was conducted on July 20<sup>th</sup>, 2011.
- **Height Attenuation Test**, which determined the altitude attenuation coefficients, was conducted on July 21<sup>st</sup>, 2011.

### 6.1 ENERGY WINDOWS

The airborne radiometric technique requires measurement of count rates for specific energy regions or windows in the natural gamma-ray spectrum. The standard energy regions (in accordance with the International Atomic Energy Agency (IAEA) 323), and their corresponding channel limits are:

**Table 6.1 Downward spectrometer energy windows**

Designation	Energy Limit (keV)		Channel Limit (inclusive)	
	Lower	Upper	Unit Values	
			Lower	Upper
Total Count (TC)	410	2810	137	937
K	1370	1570	457	523
U	1660	1860	553	620
Th	2410	2810	803	937
U (upward)	1660	1860	553	620
Cosmic	3200	infinity		

## 6.2 CALIBRATION PAD TEST

The Compton stripping coefficients as provided by RSI are listed below:

**Table 6.2 Compton stripping coefficients**

Stripping Ratios	Spectrometer (SN 5516)	“normal” values
Th into U (alpha = $a_{23}/a_{33}$ )	0.271	0.250
Th into K (beta = $a_{13}/a_{33}$ )	0.399	0.400
U into K (gamma = $a_{12}/a_{22}$ )	0.752	0.810
U into Th (a = $a_{32}/a_{22}$ )	0.046	0.060
K into Th (b = $a_{31}/a_{11}$ )	0	0
K into U (g = $a_{21}/a_{11}$ )	0	0.003

## 6.3 COSMIC FLIGHT TEST

In each of the spectral windows, the radiation increases exponentially with height due to radiation of cosmic origin. As well, the aircraft itself contributes a constant background to the count rate. By completing a series of flights within the same region, over a range of altitudes, these background contributions can be determined.

### 6.3.1 SETUP AND MEASUREMENT PROCEDURE

1. A resolution check was completed at the aircraft base prior to the cosmic test to insure the sensitivity and accuracy of the spectrometer.
2. Once the aircraft reached the desired altitude (first at ~9,200 feet), survey data were recorded for approximately ten minutes.
3. Step 2 was then repeated at the following remaining altitudes: ~10,300, 11,300 and 12,300 feet above sea level (see table 6.3).

**Table 6.3 Cosmic Test data**

Altitude (ft)	Cosmic Test Flight Data (average counts)					
	Cosmic	UU	K	U	Th	TC
9236	217	4	23	14	14	318
10293	256	4	26	15	16	358
11316	297	5	29	19	20	412
12279	344	6	32	21	23	463

### 6.3.2 RESULTS FROM COSMIC FLIGHT TEST

At each altitude, the raw data for the five windows of interest (Th, K, U, TC, and U upward) were evaluated for quality. The mean values were then extracted and plotted against the cosmic background window (see Appendix A). The result is a linear trend, where the slope and intercept represent the cosmic stripping ratio and the aircraft background respectively. The results from the graphs are summarized below.

**Table 6.4 Cosmic and aircraft background coefficients**

Cosmic Flight Test Result		
Element	Cosmic	Aircraft Background
K	0.071	7.7387
U	0.0592	0.751
Th	0.0735	0
TC	1.1587	65.06
UU	0.0168	0.0828

## 6.4 ALTITUDE ATTENUATION TEST

The height attenuation of the spectrometer systems was calculated by flying a series of passes across a line over flat ground with uniform radioelement ground concentration. The test range was flown by acquiring data on a series of seven passes over a set path, at the following altitudes: 50, 100, 150, 200, 300, 500, 700, and 1000 feet above ground.

### 6.4.1 RESULTS FROM ALTITUDE ATTENUATION TEST

The airborne data from the altitude attenuation test was checked for quality, edited and divided into lines, where each line represents a pass. The radiometric windows were then corrected for background (aircraft and cosmic) and stripped of Compton contributions. After averaging the data for each line, the four windows of interest (K, U, Th, and Total Count) were plotted against the altimeter in order to obtain the height attenuation. The results were obtained using an exponential regression, where the slope represents the attenuation coefficient and the 'y' intercept represents the counts at 0 feet (see Tables 6.7-6.8 and Appendix A).

**Table 6.5 Height Attenuation coefficients**

<b>Element</b>	<b>Altitude attenuation coefficients</b>
K	-0.014
U	-0.007
Th	-0.009
TC	-0.009

### **6.5 RADON HOVER TEST**

On all survey flights one radon normalization test was flown before or after data collection.

The test consisted of the helicopter hovering over a designated test area at nominal survey altitude once per flight. The tests consisted of the pilot being guided using the iDAS navigation system, at fixed speed, and for approximately 5 min to allow for adequate statistics to be collected.

Since no noticeable radon fluctuations were observed on any of the flights, no radon corrections were applied to the data set.

### **6.6 RADIOELEMENT GROUND CONCENTRATIONS AND SYSTEM SENSITIVITIES**

The radiometric ground concentrations were measured using a calibrated portable spectrometer (RSI-125) during the same time as the airborne altitude attenuation flights took place (i.e., July 21<sup>st</sup>, 2011). The sensor was positioned one meter above the soil and away from the operators' body in the vicinity of altitude attenuation test strip. Fourteen 300-second measurements were taken over the length of the calibration range.





The resulting mean radiometric equivalent ground concentrations for the calibration range on were as follows:

**Table 6.8 Ground concentrations**

<b>Radio Element</b>	<b>Ground Concentration</b>	
Potassium	0.9	%
Equivalent Uranium	1.86	<i>ppm</i>
Equivalent Thorium	5.28	<i>ppm</i>
Total	35.98	<i>nGy/h</i>

Using these ground concentrations and the altitude attenuation calibration flight data, the System Sensitivities were obtained:

$$S = N/C$$

**Where:**

- *S* is the sensitivity for each window
- *N* is the striped count rate in the window at the survey altitude (i.e, 30m)
- *C* is the respective ground radioelement concentration.

With the following results:

**Table 6.9 Sensitivities @ 30m from**

	<b>Sensitivities @ 30m</b>
<b>K</b>	89.34 <i>cps / (%)</i>
<b>U</b>	6.43 <i>cps / (ppm)</i>
<b>Th</b>	3.98 <i>cps / (ppm)</i>
<b>TC</b>	22.78 <i>cps / (nGy/h)</i>

Note: Determining of radioelement ground concentrations and system sensitivities were not part of the signed agreement. Such data are made available to the client as a courtesy.

## **7. OPERATIONS AND PROCEDURES**

### **7.1 FLIGHT PLANNING AND FLIGHT PATH**

The block outline coordinates (section 2.0) were used to generate pre-calculated navigation files. The navigation files were used to plan flights at the designated traverse line spacing of 100 meters and control lines of 1000.

Preliminary flight path maps and magnetic maps were plotted and updated, to monitor coverage of the survey area.

### **7.2 BASE STATION**

The magnetic base station was established in magnetically quiet area at the camp site at latitude: 62.118220; Longitude: -137.250146.

The base station readings were monitored to ensure that the diurnal variation were within the peak-to-peak envelope of 20 nT from a long chord distance equivalent to a period of two minutes.

### **7.3 AIRBORNE MAGNETOMETERS**

The FOM test of the performance of the CS-3 and fluxgate magnetometers was performed on July 20<sup>th</sup>, 2011 in order to monitor the ability of the system to remove the effects of aircraft motion on the magnetic measurement.

The FOM maneuvers consisted of a series of calibration lines flown at high altitude (10,000+ ft above sea level) to gain information in each of the required line directions. During this procedure, pitch, roll, and yaw maneuvers were performed on the aircraft.

The following ranges were used:

Pitch: 10-15°

Roll: 10-15°

Yaw: 10-15°

The total FOM noise was 1.26nT with an envelope of 0.18nT (Appendix B).

### **7.4 THORIUM RESOLUTION TESTS**

In order to monitor the resolution of the crystal pack, a twice-daily a resolution test of the spectrometer was performed in RadAssist (RSX-5 spectrometer interface program) using ~2000 thorium background counts per crystal.

The results from the resolution tests were always found to be within the contract specifications (see Appendix D for the daily test results).

## 7.5 DATA COMPILATION

Data recorded by the airborne and base station systems was transferred to the field compilation system. As each flight was completed, the following compilation operations were carried out:

### 7.5.1 FLIGHT PATH CORRECTIONS

The navigational correction process yields a flight path expressed in WGS84, World and transformed to correspond to NAD83, North America – Canada and USA.

Coordinate System

X,Y channels: **UTM\_X\_NAD83,UTM\_Y\_NAD83**

Coordinate system:  Projected (x,y)  Geographic (long, lat)  
 Unknown Copy from...

Length units: metre

Transformation: none

Orientation: none

Datum: NAD83

Ellipsoid: GRS 1980  
Major axis radius: 6378137  
Inverse Flattening: 298.25722  
Prime Meridian: 0

Local datum transform: [NAD83] (4m) North America - Canada and USA (conus, AK m)

None applied

\*Projection method: UTM zone 8N

Type: Transverse Mercator  
Latitude of natural origin: 0  
Longitude of natural origin: -135  
Scale factor at natural origin: 0.9996  
False easting: 500000  
False northing: 0

New OK Cancel

All 1.0 Hz GPS records were linearly interpolated and resampled at 10 Hz (0.1 sec) intervals.

## **7.5.2 MAGNETIC CORRECTIONS**

### **7.5.2.1 FILTERING AND COMPENSATION**

The raw 50Hz magnetic data were filtered, along with the fluxgate magnetometer data, with a 51 cosine anti-aliasing algorithm and re-sampled at 10 Hz.

The filtered and re-sampled data were stored in the MAG\_FILT channel.

Then the MAG\_FILT data were compensated for permanent, induced, and eddy current magnetic noise generated by the aircraft using data from the fluxgate magnetometer error (see Appendix B).

The compensated magnetic data were then stored in the MAG\_COMP channel.

### **7.5.2.2 DIURNAL CORRECTIONS**

The compensated magnetic data were adjusted to account for diurnal variations. When the magnetic variations recorded at the base station recognized to be caused by man-made sources, (such as equipment, vehicles passing by the sensor), they were removed and gaps interpolated.

The diurnal data were recorded at 1Hz and filtered with a 31-point low pass filter. The filtered data were then subtracted directly from the aeromagnetic measurements to provide a first order diurnal correction.

After base station removal, the total magnetic field values become very small. To bring the total magnetic measurements back to 'normal' values, project averages (i.e., BBB: 57,309.73 nT; Dade: 57,304.79) from the base station readings were added back to the magnetic data.

The resulting base station corrected data were stored in the MAG\_DIURNAL\_CORR channel.

### 7.5.2.3 HEADING CORRECTIONS

Optically pumped magnetic sensors have an inherent heading error, typically 1 to 2 nT peak-to-peak, as the sensor is rotated through 360 degrees. On flight line directions of the opposite heading, the affect is reasonably predictable.

#### BBB block:

The BBB block did not have visible systematic heading error. For that reason no heading corrections were applied to that block.

#### Dade block:

A heading test flight was flown at magnetically quite area at 10,000+ ft above sea level altitude, with the following results:

**Table 7.1 Heading Test flight results**

Direction (deg.)	Mean on line (nT)	Mean in direction (nT)	Mean on heading (nT)	Error (nT)
45	57109.4	57108.29	57107.69	-0.6
45	57107.17			
225	57106.58	57107.09	57107.69	0.6
225	57107.59			
135	57092.96	57093.92	57095.38	1.46
135	57094.88			
315	57098.21	57096.83	57095.38	-1.46
315	57095.45			
360	interpolated heading error for true north			-1

The following heading corrections were applied to the data set:

/ Geosoft Heading Correction Table

/= Direction:real:i

/= Correction:real

/ Direction Correction

45 -0.6

135 1.46

225 0.6

315 -1.46  
360 -1

The output of the heading corrected data were stored in MAG\_HEADING\_CORR channel.

#### **7.5.2.4 LAG CORRECTIONS**

There are two potential types of Lag offsets when collecting airborne data: time lag and distance lag.

NSG insures that there is no time lag in the data acquisition system by recording unique markers every 1-second based on the GPS time stamp (associated with the EXACT change in GPS positioning). This information is used to realign (if necessary) the individual data records.

The distance lag is determined by dividing the distance from the GPS antenna to the sensor head by the averaged sample rate distance.

##### BBB block:

$5.3 / 3.9 = 1.36$  records

A lag correction of -1 records was applied to the MAG\_DIURNAL\_CORR channel and stored in the MAG\_LAG\_CORR channel.

##### Dade block:

$5.3 / 3.1 = 1.71$  records

A lag correction of -2 records was applied to the MAG\_HEADING\_CORR channel for and stored in the MAG\_LAG\_CORR channel.

#### **7.5.2.5 IGRF CORRECTIONS**

The total field strength of the International Geomagnetic Reference Field (IGRF, 2010 model) was calculated for every data point, based on the spot values of Latitude, Longitude and altitude. This IGRF was removed from the measured survey data on a point-by-point basis from the lag corrected channel.

After IGRF correction the total magnetic field values become negative. To bring the total magnetic measurements back to 'normal' values an average (i.e., BBB: 57,848.05nT; Dade: 57,265.12nT) of IGRF values based on the whole project were added back to the magnetic data.

The IGRF corrections were applied to the MAG\_LAG\_CORR channel and stored in the MAG\_IGRF\_CORR channel.

### 7.5.2.6 LEVELING CORRECTIONS

After the data were corrected for IGRF, a survey traverse/control line intercepts array/matrix (i.e., Simple Leveling) was created for determining differences in magnetic field at the intersection points. The somewhat rugged terrain of the survey blocks, resulted in some line-to-line difference in altitude, and relatively strong magnetic anomalies made magnetic signal at some Traverse/Control line intersection points quite different. As a result, some of those intersection points needed to be manually adjusted in order to reduce line-to-line magnetic differences.

The resulting simple leveled magnetic data were stored in MAG\_SMPL\_LVL channel.

Further it was decided to apply microlevelling techniques to the conventionally leveled magnetic data (see Appendix F for full description of the procedure).

The following key parameters were used:

**Table 7.2 Magnetic data microlevelling parameters**

<b>Block Name</b>	<b>Line Spacing (m)</b>	<b>Line Direction (deg.)</b>	<b>Grid Cell Size (m)</b>	<b>Decorrugation Cutoff (m)</b>	<b>Amplitude Limit (nT)</b>	<b>Amplitude Limit Mode</b>	<b>Naudy Filter Limit</b>
BBB BK	100	29	20	400	13.7	clip	200
Dade BK	100	135	20	400	35	clip	0

The resulting microleveled magnetic data were stored in the TMI\_FINAL channel.

### 7.5.3 VERTICAL DERIVATIVE

A 1-st Order Vertical Derivative (VDV) dataset was calculated using 2D FFT2 algorithm based on final TMI grids. The resulting VDV grids were sampled back to the databases.

The VDV data were stored in the VDV channel.

## 7.5.4 DIGITAL TERRAIN MODEL (DTM)

The DTM data was produced by first adjusting the GPS sensor height to that of the radar altimeter height (lowering GPS height by 2.1m). Next the radar altimeter channel (in meters) was subtracted from the GPS height data producing a raw DTM channel. Due to changing satellite positions (constellation configuration) and varying atmospheric conditions, the receiver may measure slightly varying GPS heights line-to-line. In addition, due to rugged topography, the radar altimeter measures inaccurately when the helicopter is pitched forward position (example: approach a steep hill), as the radar beam would be directed away or down the slope. Because of these inherent errors, the raw DTM channel required leveling.

It was decided to apply a microlevelling technique to the raw DTM data, developed by Paterson, Grant & Watson Limited and available through Geosoft Oasis montaj as miclev.GX extension (see Appendix F for full description of the procedure).

The following key microlevelling parameters were used:

**Table 7.3 DTM data microlevelling parameters**

<b>Block Name</b>	<b>Line Spacing (m)</b>	<b>Line Direction (deg.)</b>	<b>Grid Cell Size (m)</b>	<b>Decorrugation Cutoff (m)</b>	<b>Amplitude Limit (nT)</b>	<b>Amplitude Limit Mode</b>	<b>Naudy Filter Limit</b>
BBB BK	100	29	20	400	15	clip	0
Dade BK	100	135	20	400	15	clip	0

The final DTM data were stored in the DTM channel name.

## 7.5.5 GRIDDING

The final TMI, VDV, and DTM grids were produced from the TMI\_FINAL, VDV, and DTM channels respectively.

The data were gridded using a bi-directional line gridding method with a grid cell size of 20 meters, Akima interpolation method for across and down line spline and trend angles perpendicular to those of traverse line directions (i.e., 45<sup>0</sup>).

## 7.5.6 RADIOMETRIC DATA CORRECTIONS

### 7.5.6.1 LIVE TIME CORRECTIONS

The spectrometer uses the notion of “live time” to express the relative period of time the instrument was able to register new pulses per sample interval.



The live time correction is applied to the total count, potassium, uranium, thorium and upward uranium channels.

The formula used to apply the correction is as follows:

$$C_{LT} = C_{raw} \times \left( \frac{1000}{LT} \right)$$

**Where:**

- $C_{LT}$  is the live time corrected channel
- $C_{raw}$  is the raw channel
- $LT$  is the Live Time channel

### **7.5.6.2 PRE-FILTERING**

The cosmic channel data were processed with a 15-point low pass filter to remove spikes.

The radar altimeter channel while recorded at 50Hz was filtered with 21-point COSINE filter and then sampled to 1Hz.

### **7.5.6.3 AIRCRAFT AND COSMIC BACKGROUND**

Aircraft background and cosmic stripping corrections (see section 6.3.2) were applied to the live corrected total count, potassium, uranium, thorium and upward uranium channels using the following formula:

$$C_{ac} = C_{LT} - (ac + bc \times cof)$$

**Where:**

- $C_{ac}$  is the background and cosmic corrected channel
- $C_{LT}$  is the live time corrected channel
- $ac$  is the aircraft background for this channel
- $bc$  is the cosmic stripping coefficient for this channel
- $cof$  is the filtered cosmic channel

All negative counts after this correction step were replaced with zeroes.

#### 7.5.6.4 RADON CORRECTION

No Radon corrections were applied to the data.

#### 7.5.6.5 COMPTON STRIPPING

Following the cosmic and background corrections the potassium, uranium and thorium were corrected for spectral overlap (see section 6.2). First the stripping ratios  $\alpha$ ,  $\beta$ , and  $\chi$  were modified according to altitude. Then an adjustment factor based on the reversed stripping ratio (a), uranium into thorium, was calculated.

$$\alpha h = \alpha + hef \times 0.00049$$

$$\beta h = \beta + hef \times 0.00065$$

$$\chi h = \chi + hef \times 0.00069$$

**Where:**

- $\alpha, \beta, \chi$  are the Compton stripping coefficients
- $\alpha h, \beta h, \chi h$  are the height corrected Compton stripping coefficients
- $hef$  is the height above ground in meters

The stripping corrections are then carried out using the following formulas:

$$ar = \frac{1}{1 - a\alpha h}$$

$$Th_c = (Th_{bc} - aU_{rc}) \times ar$$

$$U_c = (U_{rc} - Th_{bc}\alpha h) \times ar$$

$$K_c = K_{bc} - \beta h Th_c - \chi h U_c$$

**Where:**

- $U_c, Th_c,$  and  $K_c$  are corrected Uranium, Thorium and Potassium
- $\alpha h, \beta h, \chi h$  are the height corrected Compton stripping coefficients
- $U_{bc}, Th_{bc},$  and  $K_{bc}$  are background and cosmic corrected Uranium, Thorium and Potassium
- $ar$  is the backscatter correction
- $a$  is the reverse stripping ratio U into Th

All negative counts after this correction step were replaced with zeroes.

#### 7.5.6.6 EQUIVALENT HEIGHT AT STP

The following formula was used to calculate Equivalent Height at STP:

$$H_e = H \times \left( \frac{273.15}{T + 273.15} \right) \times \left( \frac{P}{1013.25} \right)$$

**Where:**

- $H$  is the observed height
- $H_e$  is the equivalent height at STP
- $T$  is the temperature in degrees Celsius
- $P$  is the barometric pressure in mbar.

#### 7.5.6.7 HEIGHT ATTENUATION CORRECTIONS

The Total Count, Potassium, Uranium and Thorium data were then corrected to a nominal survey altitude of 35m (see section 6.4.1) using the following equation:

$$C_a = C \times e^{-\mu(h_0 - h_e)}$$

**Where:**

- $C_a$  is the output altitude corrected channel
- $C$  is the input channel
- $\mu$  is the attenuation correction for that channel
- $h_e$  is the STP height
- $h_0$  is the nominal survey altitude

The altitude attenuation corrected data were then stored in U\_CORR, Th\_CORR, K\_CORR and TC\_CORR channels.

#### 7.5.6.8 LEVELING OF HEIGHT ATTENUATION CORRECTED DATA

The resulting height attenuation corrected data were further microleveled using the following key parameters (see Appendix F for full description of the procedure).

**Table 7.4 BBB block radioelement microlevelling parameters**

Radioelement	Line Spacing (m)	Line Direction (deg.)	Grid Cell Size (m)	Decorrugation Cutoff (m)	Amplitude Limit (nT)	Amplitude Limit Mode	Naudy Filter Limit
U	100	29	20	400	3	Clip	100
K	100	29	20	400	8	Clip	100
Th	100	29	20	400	3	Clip	100
TC	100	29	20	400	62	Clip	100

**Table 7.5 Dade block radioelement microlevelling parameters**

Radioelement	Line Spacing (m)	Line Direction (deg.)	Grid Cell Size (m)	Decorrugation Cutoff (m)	Amplitude Limit (nT)	Amplitude Limit Mode	Naudy Filter Limit
U	100	135	20	400	3	Clip	100
K	100	135	20	400	11	Clip	100
Th	100	135	20	400	3	Clip	100
TC	100	135	20	400	74	Clip	100

The resulting microleveled altitude attenuation corrected line data were then stored in the final U\_FINAL, K\_FINAL, Th\_FINAL and TC\_FINAL channels.

Note: in the instances where no microlevelling was applied (i.e., all of the control lines), the data in the final channels were copied directly from U\_CORR, Th\_CORR, K\_CORR and TC\_CORR.

#### **7.5.6.9 CONVERSION TO APPARENT RADIOELEMENT CONCENTRATIONS**

The next step is to convert the corrected potassium (K\_FINAL channel), uranium (U\_FINAL channel) and thorium (Th\_FINAL channel) to apparent radioelement concentrations (see section 6.6) using the following formula:

$$eE = C_{cor}/s$$

**Where:**

- $eE$  is the element concentration  $K_{\%}$  and equivalent element concentration of  $U_{ppm}$  &  $Th_{ppm}$
- $s$  is the experimentally determined sensitivity
- $C_{cor}$  is the fully corrected channel

The resulting apparent concentration data were stored in K\_Percent, eU and eTh channels.

Note 1: experimentally determined sensitivities (Table 6.9, Section 6.6) were used when calculating the above apparent radioelement concentrations. These channels were used in producing of the corresponding grids.

Note 2: determining of apparent radioelement concentrations were not part of the signed agreement. Such data are made available to the client as a courtesy.

#### 7.5.6.10 AIR ABSORPTION DOSE RATE

Finally the natural air absorption dose rate was determined using the following formula:

$$E = 13.078 \times K_{\%} + 5.675 \times eU_{ppm} + 2.494 \times eTh_{ppm}$$

**Where:**

- $E$  is the air absorption rate ( $nGy/h$ )
- $K_{\%}$  is the concentration of potassium (%)
- $eU_{ppm}$  is the equivalent concentration of potassium (ppm)
- $eTh_{ppm}$  is the equivalent concentration of potassium (ppm)

The resulting natural air absorption rate data were stored in E channel.

Note 1: K\_percent, eU and eTh channels (Section 7.5.5.9) were used when calculating the above air absorption rate. This channel was used in producing of the corresponding grid.

Note 2: Determining of the absorption rate was not part of the signed agreement. Such data are made available to the client as a courtesy.

A detailed description of how most of the procedures, formulae and constants were determined could be found in:

I.A.E.A. Report, *Airborne Gamma Ray Spectrometer Surveying*, Technical Report Series No. 323, 1991.

and

#### **7.5.6.11 GRIDDING**

The radiometric data were gridded from U\_FINAL, Th\_FINAL, K\_FINAL and TC\_FINAL channels (all in counts/sec) using a bi-directional line gridding method with a grid cell size of 30 meters, Akima interpolation method for across and down line spline and trend angles perpendicular to those of traverse line directions (i.e.,  $45^0$ ).

#### **7.5.6.12 TERNARY MAP**

The radioelement ternary map was produced by creating individual grids for each of the three radioelements (potassium, thorium and uranium), then assigning a specific colour to each. Cyan represents thorium, yellow uranium, and magenta potassium. The relative concentrations of the radioelements are represented by the blends of the three colours.

## 8. MAP PRODUCTS AND DIGITAL DATA DELIVERABLES

The following is the list of items delivered to **Wolverine Minerals Corp.**

### 1) **Hard Copy Maps for BBB and Dade Blocks @ 1:20,000 scale (x2):**

- Maps of Total Magnetic Intensity
- Maps of 1st order Vertical Derivative
- Maps of Digital Terrain Model
- Maps of Ternary Image (Th, U and K)
- Maps of Potassium counts
- Maps of Thorium counts
- Maps of Uranium counts
- Maps of Total Count

### 2) **Hard Copy Logistics Report (x2):**

### 3) **Digital Copy (DVD) Maps BBB and Dade Blocks @ 1:20,000 scale (x2):**

- Maps of Total Magnetic Intensity
- Maps of 1st order Vertical Derivative
- Maps of Digital Terrain Model
- Maps of Ternary Image (Th, U and K)
- Maps of Potassium counts
- Maps of Thorium counts
- Maps of Uranium counts
- Maps of Total Count

### 4) **Digital Copy Grids (DVD) for BBB and Dade Blocks (x2):**

- Grids of Total Magnetic Intensity (nT)
- Grids of 1st order Vertical Derivative (nT/m)
- Grids of Digital Terrain Model (m above MSL)
- Grids of Potassium (counts/sec)
- Grids of Thorium (counts/sec)
- Grids of Uranium (counts/sec)
- Grids of Total Count (counts/sec)

### 5) **Digital Copy (DVD) for BBB and Dade Blocks (x2):**

- Magnetism data databases: *MAGNETIC\_blockname\_BK.gdb* (See Appendix C for details)
- Radiometric data database: *RADIOMETRIC\_blockname\_BK.gdb* (See Appendix C for details)

### 6) **Digital Copy (DVD) Logistics Report (x2)**

## 9. SUMMARY

This report describes the logistics of the survey, equipment used, field procedures, data acquisition and presentation of results.

The various maps included with this report display the magnetic and radiometric properties of the survey area. It is recommended that the survey results be reviewed in detail, in conjunction with all available geophysical, geological and geochemical information.

Further processing of the data may enhance subtle features that can be of importance for exploration purposes.

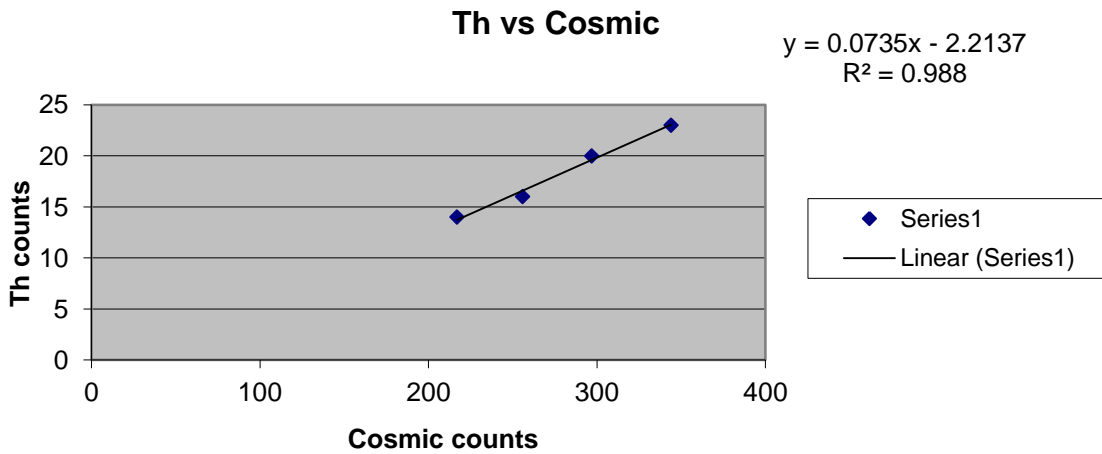
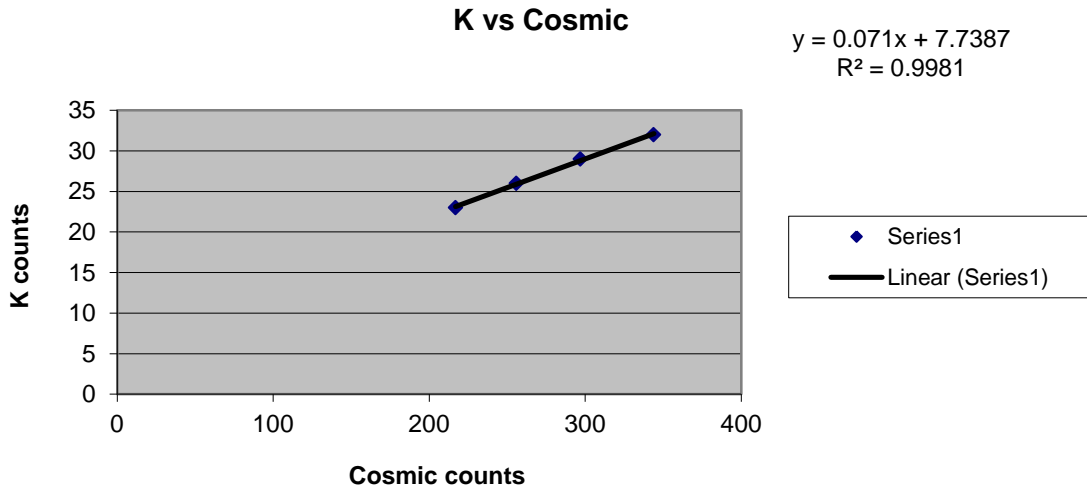
Respectfully submitted,

Andrei Yakovenko  
New-Sense Geophysics Ltd.  
Date: September 27<sup>th</sup>, 2011



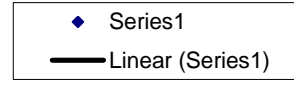
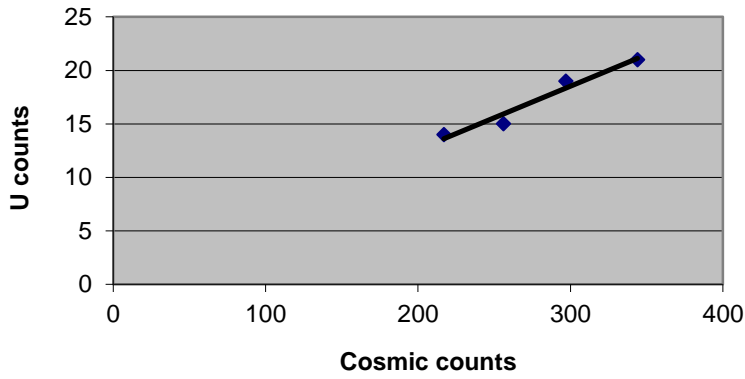
APPENDIX A: BACKGROUND, COSMIC AND ALTITUDE ATTENUATION TEST CHARTS

Background & Cosmic



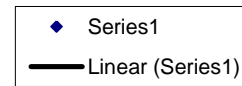
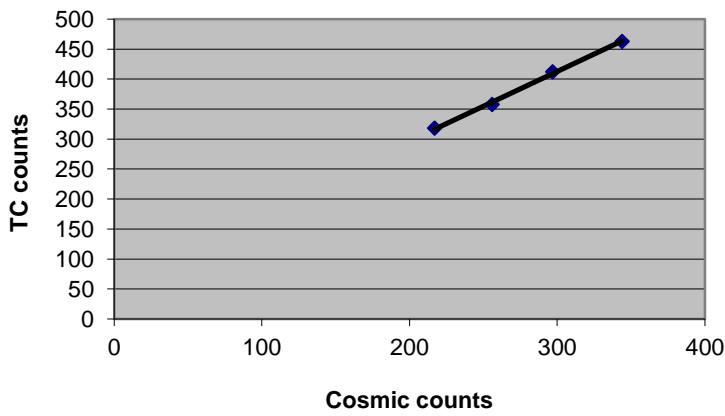
**U vs Cosmic**

$$y = 0.0592x + 0.751$$
$$R^2 = 0.956$$



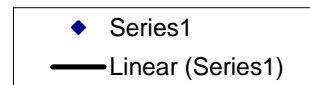
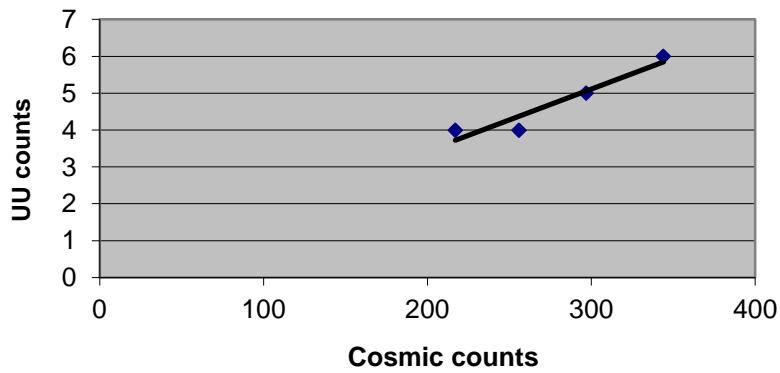
**TC vs Cosmic**

$$y = 1.1587x + 65.06$$
$$R^2 = 0.998$$



**UU vs Cosmic**

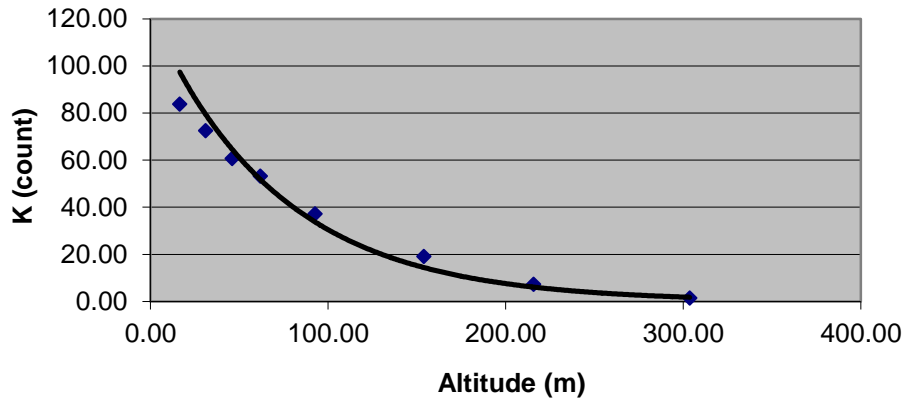
$$y = 0.0168x + 0.0828$$
$$R^2 = 0.911$$



## Altitude Attenuation Test

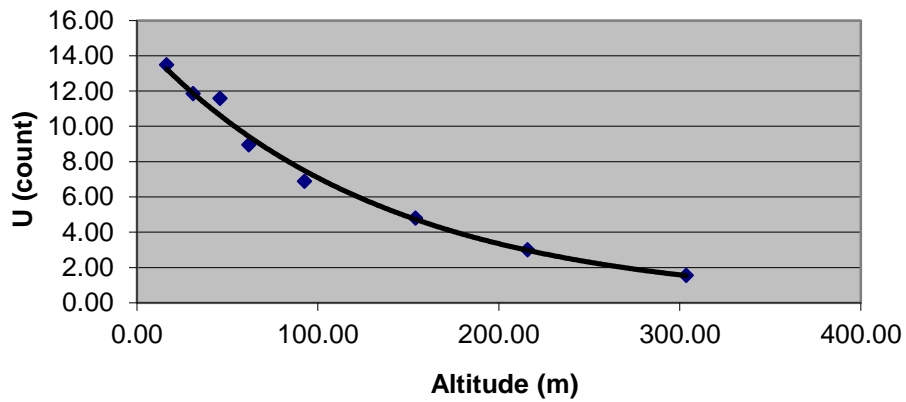
### Potassium vs Height

$$y = 122.38e^{-0.014x}$$
$$R^2 = 0.9837$$

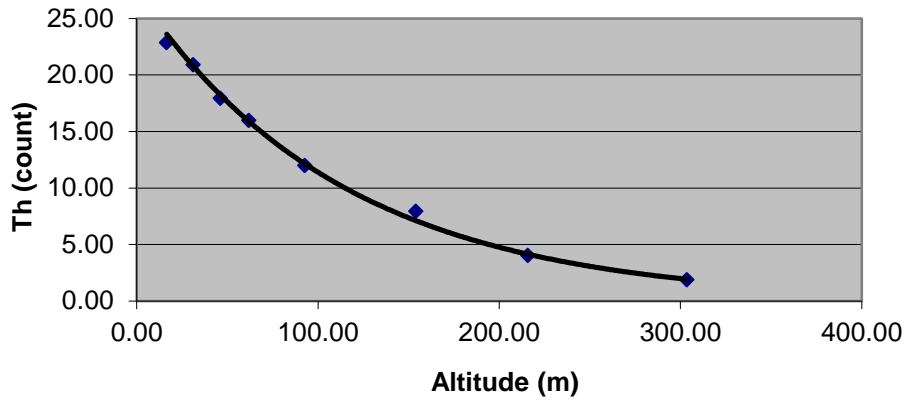


### Uranium vs Height

$$y = 14.982e^{-0.007x}$$
$$R^2 = 0.9956$$

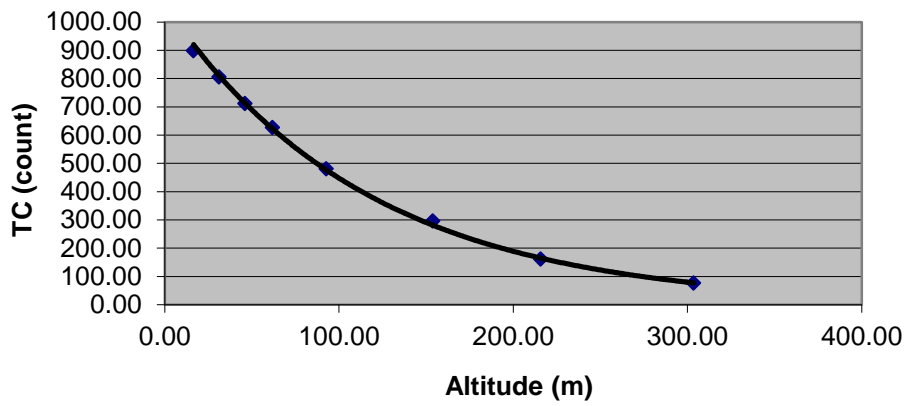


### Thorium vs Height



$$y = 27.264e^{-0.009x}$$
$$R^2 = 0.9972$$

### Total Count vs Height

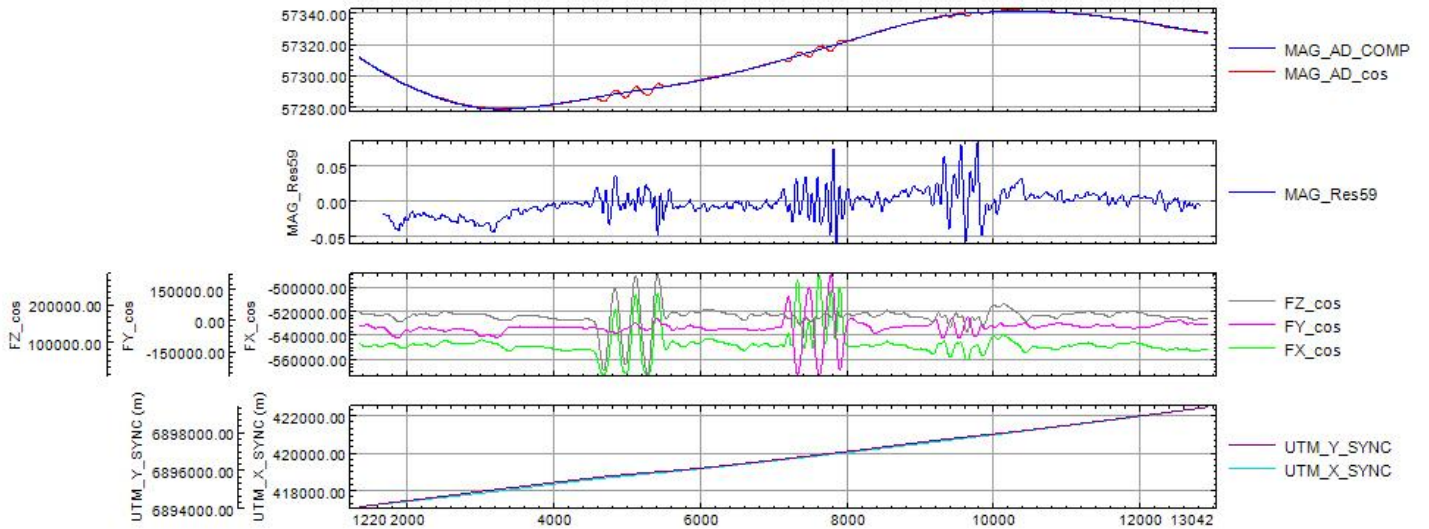


$$y = 1060.7e^{-0.009x}$$
$$R^2 = 0.9993$$

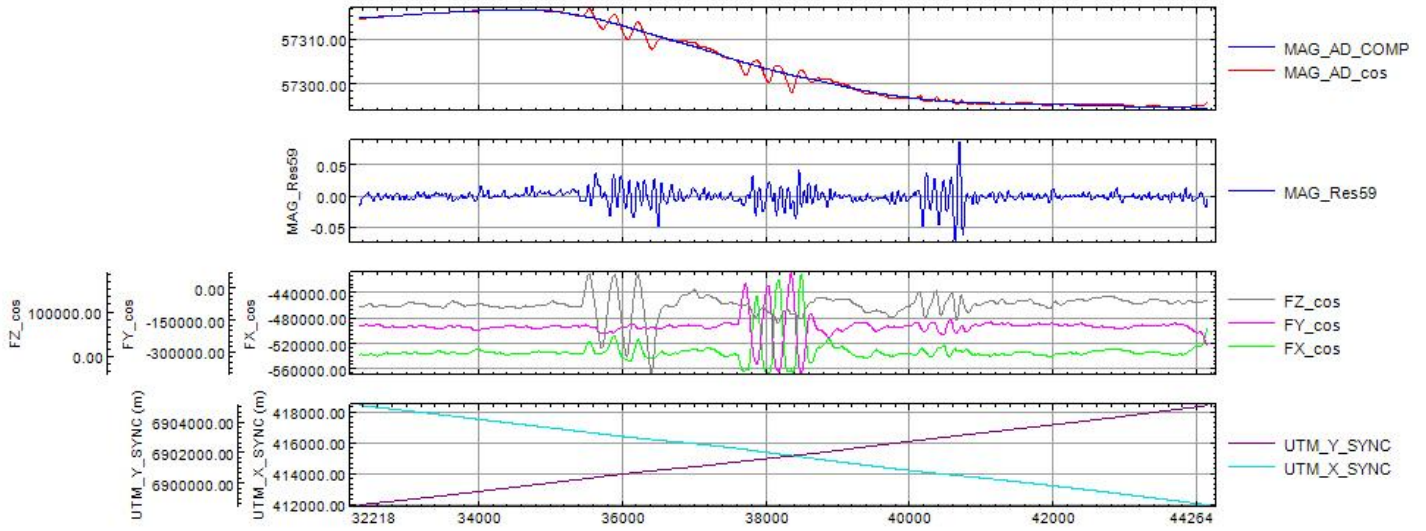
## APPENDIX B: FOM RESULTS

FOM July 20, 2011					
line	direction	pitch	roll	yaw	total
31	315	0.08	0.08	0.16	0.31
32	135	0.05	0.05	0.10	0.20
41	225	0.18	0.09	0.12	0.38
42	45	0.08	0.14	0.15	0.37
	<b>total</b>	0.38	0.36	0.53	<b>1.26</b>

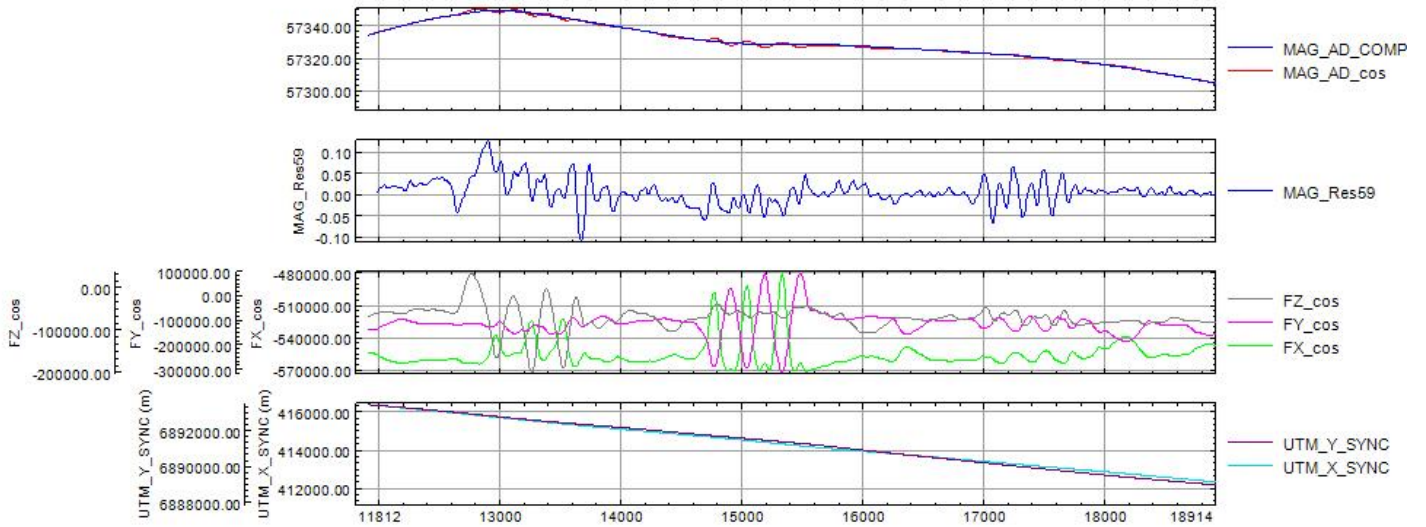
### FOM, 45 deg. direction, 07202011



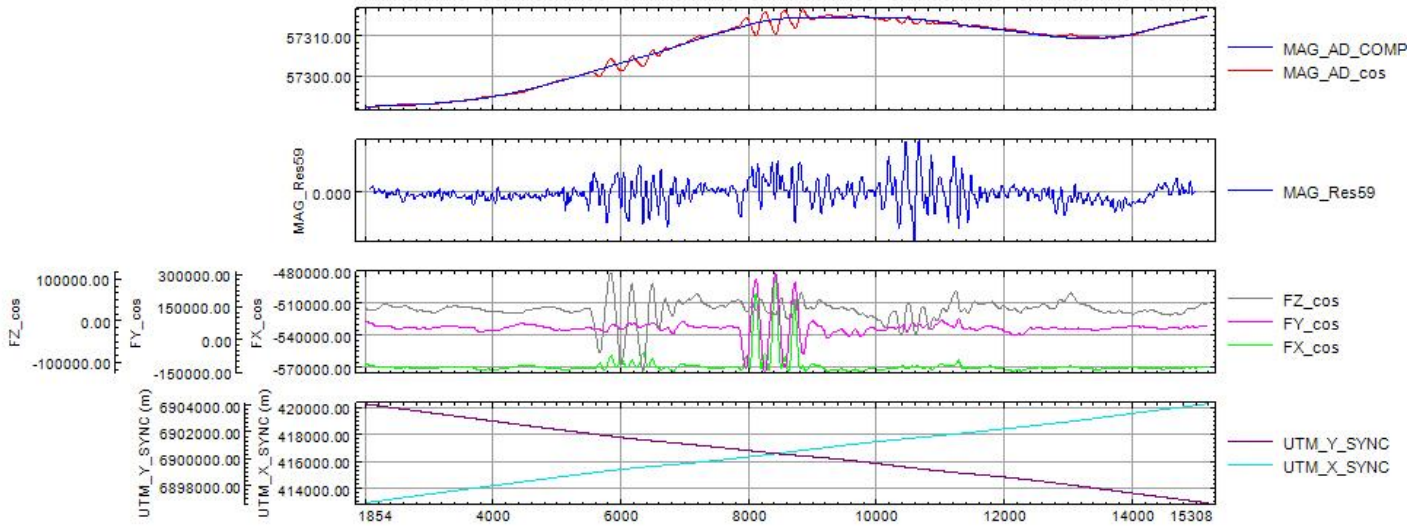
### FOM, 315 deg. direction, 07202011



### FOM, 225 deg. direction, 07202011



# FOM, 135 deg. direction, 07202011



## APPENDIX C: DATABASE DESCRIPTIONS

### Magnetic Databases for BBB and Dade Blocks

Database Name: MAGNETIC\_blockname\_BK.gdb

Format: Geosoft .gdb

Number of Channels: 28

Note: If the database is opened in Oasis montaj, please load included “*Magnetic Database Channel Display.dbview*” file to insure that ALL the channels are displayed in the same order as listed below (Database menu -> Get Saved View).

Channel Name	Units	Description
LINE	number	Line number
DATE	date	Date flown (YYMMDD)
FLIGHT	number	Flight number
FIDUCIAL	number	Fiducial count (flight specific)
SYSTEM_CLOCK	milsec	KANA8 (A/D converter) counter
UTM_X_NAD83	meters	NAD83 easting, North America, UTM Zone 8N
UTM_Y_NAD83	meters	NAD83 northing, North America, UTM Zone 8N
LATITUDE_WGS84	degrees	GPS latitude, WGS 84, World
LONGITUDE_WGS84	degrees	GPS longitude, WGS 84, World
GPS_HEIGHT_WGS84	meters	GPS height (orthometric) above MSL, WGS 84, World
UTC_DAYSEC	decimal seconds	UTC daily second counter (0-86399)
FLUX_X	volts	Fluxgate x-axis
FLUX_Y	volts	Fluxgate y-axis
FLUX_Z	volts	Fluxgate z-axis
RAD_ALT_feet	feet	Radar altimeter, height above ground
MAG_RAW	nT	Raw magnetometer data
MAG_FILT	nT	Filtered raw magnetometer data
MAG_COMP	nT	Compensated magnetometer data
DIURNAL	nT	Base station magnetometer data
MAG_DIURNAL_CORR	nT	Base station (diurnal) corrected magnetometer data
MAG_HEADING_CORR	nT	Heading corrected magnetometer data
MAG_LAG_CORR	nT	Lag corrected magnetometer data
IGRF	nT	Calculated IGRF, using 2010 model
MAG_IGRF_CORR	nT	IGRF corrected magnetometer data
MAG_SMPL_LVL	nT	Conventionally (simple) leveled magnetometer data
TMI_FINAL	nT	Microleveled MAG_SMPL_LVL data
VDV	nT/m	1 <sup>st</sup> order Vertical Derivative (VDV)
DTM	m	Digital Terrain Model



## Radiometric Databases for BBB and Dade Blocks

Database Name: `RADIOMETRIC_blockname_BK.gdb`

Format: Geosoft .gdb

Number of Channels: 35

Note: If the database is opened in Oasis montaj, please load included “*Radiometric Database Channel Display.dbview*” file to insure that ALL the channels are displayed in the same order as listed below (Database menu -> Get Saved View).

Channel Name	Units	Description
LINE	number	Line Number
FLIGHT	number	Flight Number
DATE	date	Date flown (YYMMDD)
FIDUCIAL	number	Fiducial count (line specific)
UTM_X_NAD83	meters	NAD83 easting, North America, UTM Zone 8N
UTM_Y_NAD83	meters	NAD83 northing, North America, UTM Zone 8N
LATITUDE_WGS84	degrees	GPS latitude, WGS 84, World
LONGITUDE_WGS84	degrees	GPS longitude, WGS 84, World
GPS_HEIGHT_WGS84	meters	GPS height (orthometric) above MSL, WGS 84, World
UTC_DAYSEC	seconds	UTC daily second counter (0-86399)
RAD_ALT_feet	feet	Radar altimeter, height above ground
PRESSURE	mbar	Ambient pressure output
TEMPERATURE	degrees C	Ambient temperature output
DOWN_LIVE_TIME	seconds	Live time channel
RAW_Potassium	counts/sec	Raw Potassium channel
RAW_Thorium	counts/sec	Raw Thorium channel
RAW_Uranium	counts/sec	Raw Uranium channel
RAW_TotCount	counts/sec	Raw Total Count channel
RAW_UpDet	counts/sec	Raw upward looking crystal Uranium channel
DOWN_COSMIC	counts/sec	Raw Cosmic channel from downward looking crystals
DOWN_SPECTRUM	counts/sec	1024 channel down spectrum
UP_SPECTRUM	counts/sec	1024 channel up spectrum
EQUIVALENT_HEIGHT_m	meters	Equivalent height above ground at STP
K_CORR	counts/sec	Live Time, Background, Cosmic, Compton Scattering and Altitude Attenuation corrected Potassium counts
Th_CORR	counts/sec	Live Time, Background, Cosmic, Compton Scattering and Altitude Attenuation corrected Thorium counts
U_CORR	counts/sec	Live Time, Background, Cosmic, Compton Scattering and Altitude Attenuation corrected Uranium counts
TC_CORR	counts/sec	Live Time, Background, Cosmic, Compton Scattering and Altitude Attenuation corrected Total Count counts
K_FINAL	counts/sec	Final Potassium counts; microleveled K_CORR

Th_FINAL	counts/sec	Final Thorium counts; microleveled Th_CORR
U_FINAL	counts/sec	Final Uranium counts; microleveled U_CORR
TC_FINAL	counts/sec	Final Total Count counts; microleveled TC_CORR
K_Percent	%	Estimated concentrations of Potassium
eTh	ppm	Estimated equivalent concentrations of Thorium
eU	ppm	Estimated equivalent concentrations of Uranium
E	nGy/h	Natural air absorption Dose Rate

## APPENDIX D: RSX-5 SPECTROMETER (SN 5516): DAILY RESOLUTION TESTS RESULTS

Executed 2011-07-13 RSI System Test Report RSX-5 SN5516\_1.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2002	2004	2003	2010	2004	8019
LiveTime [s]	146.88	164.859	162.891	138.862	421.772	613.492
Gain	0.969482	0.986928	0.978896	0.94458	1.119781	-
Peak	870.53 (+/- 0.633)	872.28 (+/- 0.530)	870.54 (+/- 0.586)	869.45 (+/- 0.609)	868.92 (+/- 1.149)	870.94 (+/- 0.286)
FWHM	4.73 (+/- 1.761)	4.12 (+/- 1.390)	4.94 (+/- 1.503)	4.86 (+/- 1.631)	6.99 (+/- 3.371)	4.53 (+/- 0.755)

Executed 2011-07-13 RSI System Test Report RSX-5 SN5516\_2.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2001	2005	2009	2006	2004	8021
LiveTime [s]	141.873	160.863	167.882	136.866	413.773	607.485
Gain	0.990274	1.01062	1.00541	0.969899	1.150168	-
Peak	873.00 (+/- 0.528)	872.92 (+/- 0.519)	871.69 (+/- 0.504)	872.00 (+/- 0.686)	869.83 (+/- 1.169)	872.49 (+/- 0.243)
FWHM	4.74 (+/- 1.408)	4.40 (+/- 1.387)	4.22 (+/- 1.365)	5.42 (+/- 1.802)	5.45 (+/- 3.821)	4.51 (+/- 0.618)

Executed 2011-07-14 RSI System Test Report RSX-5 SN5516\_1.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2012	2012	2005	2009	2006	8038
LiveTime [s]	146.872	168.862	165.886	139.874	451.753	621.495
Gain	1900-01-00	0.989696	0.974921	0.948716	1.125017	-
Peak	871.69 (+/- 0.697)	871.23 (+/- 0.523)	870.61 (+/- 0.561)	871.47 (+/- 0.608)	870.97 (+/- 1.420)	871.43 (+/- 0.262)
FWHM	4.43 (+/- 1.922)	4.61 (+/- 1.328)	4.32 (+/- 1.473)	5.17 (+/- 1.589)	7.87 (+/- 4.428)	4.57 (+/- 0.665)

Executed 2011-07-14 RSI System Test Report RSX-5 SN5516\_2.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	1905-07-02	2006	2001	2013	2002	8030
LiveTime [s]	150.858	162.856	167.881	143.866	403.781	625.461
Gain	1.003892	1.025439	1.013167	0.983445	1.167202	-
Peak	871.66 (+/- 0.700)	871.59 (+/- 0.549)	871.48 (+/- 0.585)	871.66 (+/- 0.649)	873.25 (+/- 1.187)	871.75 (+/- 0.317)

FWHM	4.43 (+/- 1.848)	4.12 (+/- 1.449)	4.41 (+/- 1.594)	5.07 (+/- 1.692)	6.20 (+/- 3.762)	4.42 (+/- 0.828)
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Executed 2011-07-15 RSI System Test Report RSX-5 SN5516\_1.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2009	2003	2015	2019	2002	8046
LiveTime [s]	155.861	163.867	162.881	146.863	389.77	629.471
Gain	0.974606	0.994804	0.976137	0.948134	1.137513	-
Peak	871.96 (+/- 0.566)	870.54 (+/- 0.506)	869.91 (+/- 0.689)	869.36 (+/- 0.625)	870.73 (+/- 1.115)	870.68 (+/- 0.278)
FWHM	4.65 (+/- 1.478)	4.07 (+/- 1.314)	4.89 (+/- 1.807)	5.03 (+/- 1.580)	5.45 (+/- 3.524)	4.56 (+/- 0.709)

Executed 2011-07-15 RSI System Test Report RSX-5 SN5516\_2.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2001	2007	2014	2012	2002	8034
LiveTime [s]	146.87	157.864	169.877	142.863	406.758	617.474
Gain	1.010765	1.035621	1.015185	0.988438	1.177745	-
Peak	871.87 (+/- 0.525)	871.00 (+/- 0.591)	870.56 (+/- 0.620)	870.76 (+/- 0.716)	871.21 (+/- 1.094)	871.29 (+/- 0.293)
FWHM	4.90 (+/- 1.384)	4.26 (+/- 1.595)	4.45 (+/- 1.676)	5.48 (+/- 1.976)	6.84 (+/- 3.135)	4.68 (+/- 0.769)

Executed 2011-07-16 RSI System Test Report RSX-5 SN5516\_2.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2002	2002	2007	2008	2008	8019
LiveTime [s]	144.865	161.858	156.885	145.865	410.767	609.474
Gain	1.015347	1.040305	1.02567	0.995223	1.1941	-
Peak	871.66 (+/- 0.575)	871.36 (+/- 0.567)	869.77 (+/- 0.514)	871.00 (+/- 0.683)	871.87 (+/- 1.093)	871.36 (+/- 0.328)
FWHM	4.52 (+/- 1.534)	4.68 (+/- 1.535)	3.96 (+/- 1.357)	5.18 (+/- 1.851)	6.55 (+/- 3.182)	4.60 (+/- 0.853)

Executed 2011-07-16 RSI System Test Report RSX-5 SN5516\_3.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2003	2005	2004	2001	2004	8013
LiveTime [s]	141.872	159.863	163.887	145.869	426.761	611.491
Gain	1.012286	1.035618	1.024112	0.991209	1.193651	-

Peak	871.42 (+/- 0.624)	872.22 (+/- 0.556)	871.52 (+/- 0.465)	869.98 (+/- 0.729)	874.19 (+/- 1.177)	871.58 (+/- 0.273)
FWHM	4.78 (+/- 1.662)	4.51 (+/- 1.490)	4.68 (+/- 1.246)	5.46 (+/- 2.028)	6.11 (+/- 3.543)	4.74 (+/- 0.721)

Executed 2011-07-17 RSI System Test Report RSX-5 SN5516\_1.csv

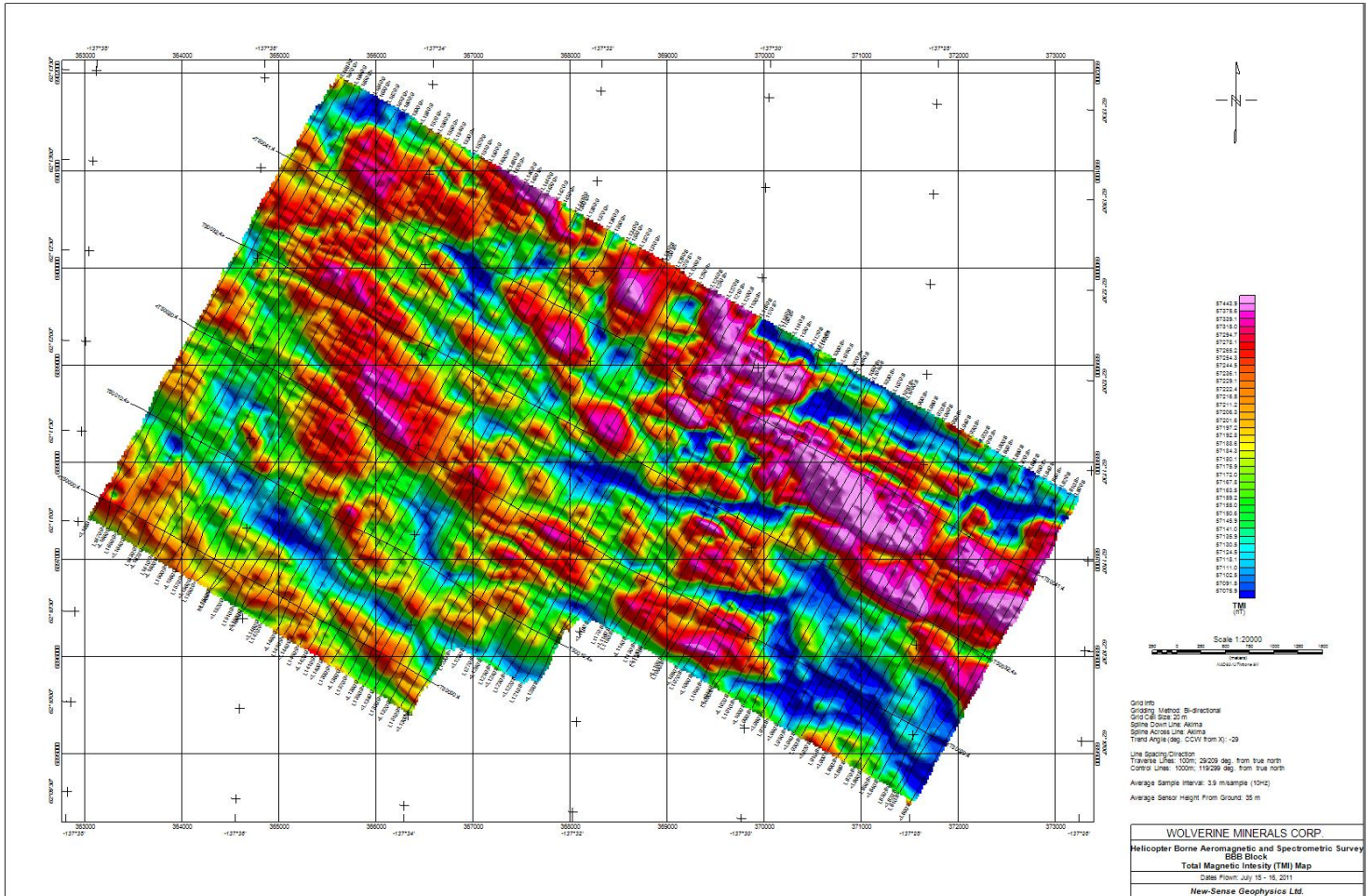
Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2011	2005	2003	2007	2002	8026
LiveTime [s]	151.868	160.867	165.885	146.861	406.772	625.481
Gain	0.987332	1.009434	0.989901	0.964836	1.162557	-
Peak	871.70 (+/- 0.605)	871.66 (+/- 0.538)	869.74 (+/- 0.490)	871.15 (+/- 0.639)	872.10 (+/- 1.047)	871.09 (+/- 0.312)
FWHM	4.45 (+/- 1.675)	4.36 (+/- 1.411)	4.58 (+/- 1.275)	4.74 (+/- 1.665)	6.21 (+/- 2.924)	4.47 (+/- 0.800)

Executed 2011-07-18 RSI System Test Report RSX-5 SN5516\_3.csv

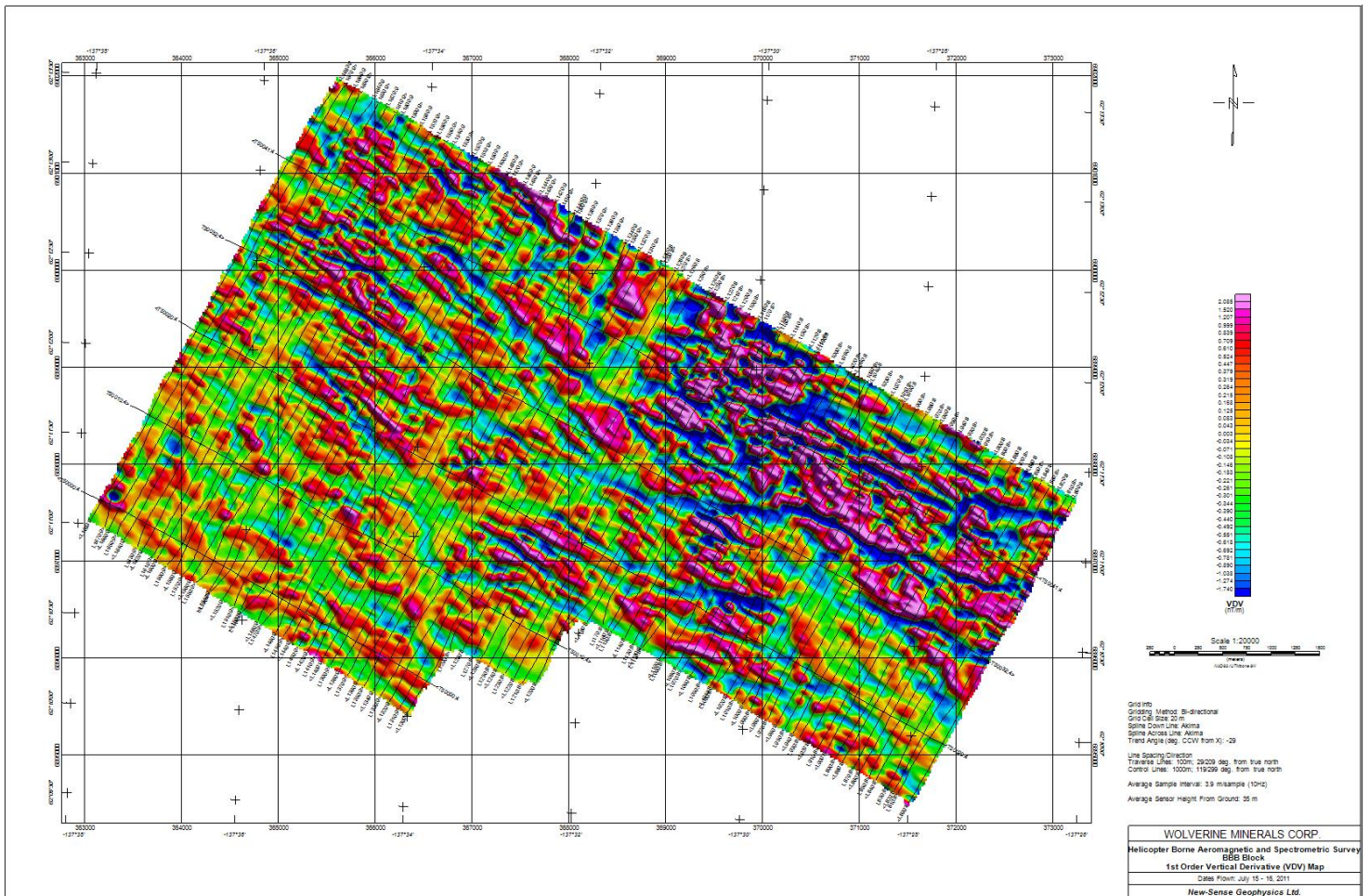
Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2001	2001	2005	2004	2002	8011
LiveTime [s]	295.811	337.806	346.831	307.8	702.672	1288.248
Gain	1.010211	1.034742	1.020914	0.990377	1.196657	-
Peak	871.74 (+/- 0.717)	872.38 (+/- 0.575)	868.78 (+/- 0.748)	870.61 (+/- 0.741)	869.79 (+/- 0.974)	871.33 (+/- 0.325)
FWHM	4.94 (+/- 1.928)	4.26 (+/- 1.548)	4.55 (+/- 2.041)	5.31 (+/- 2.052)	5.68 (+/- 3.067)	4.56 (+/- 0.847)

# APPENDIX E: IMAGES OF FINAL MAPS

## BBB Block Image of TMI FINAL Map

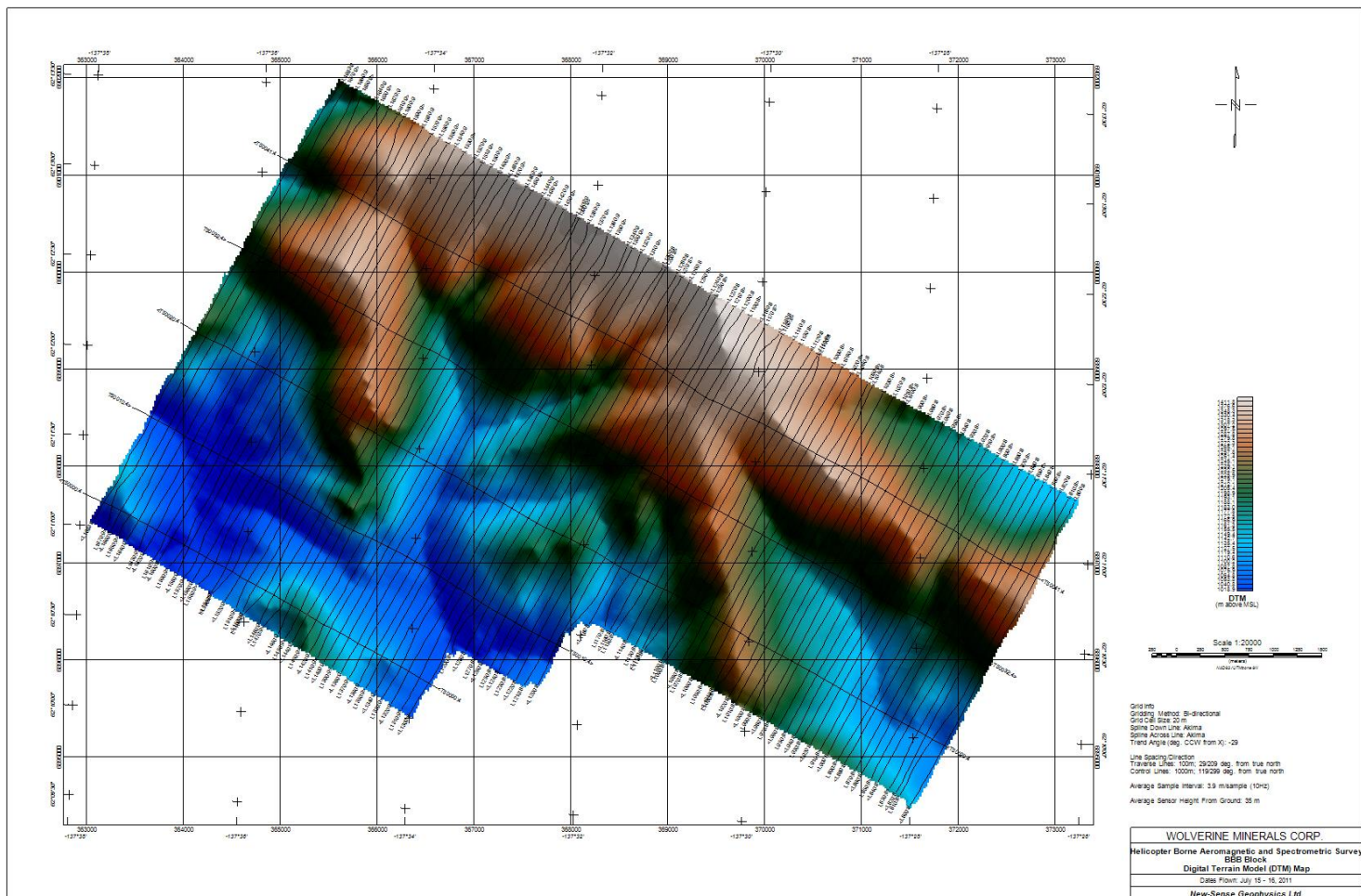


# BBB Block Image of VDV Map



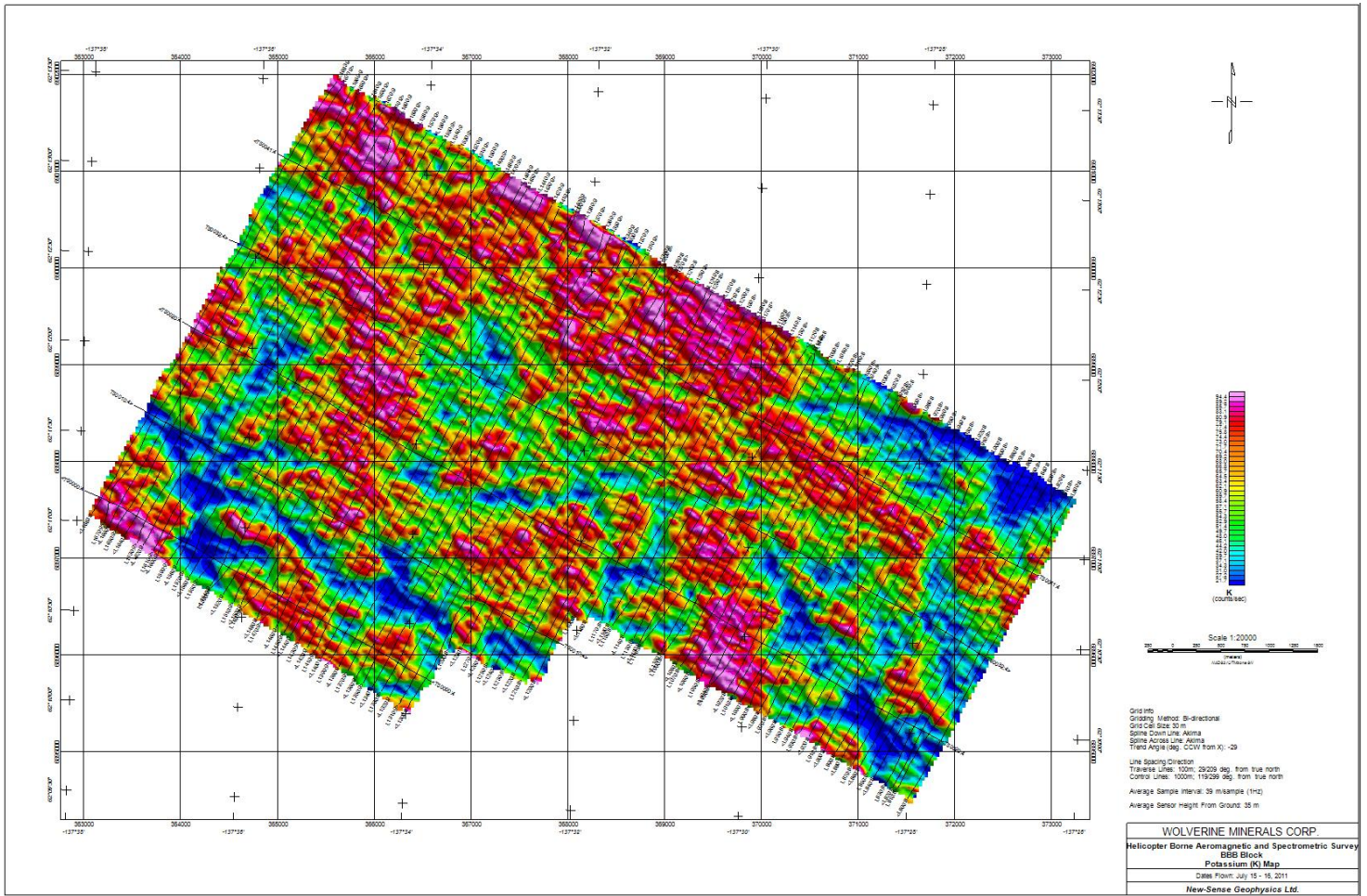


# BBB Extension Block Image of DTM Map

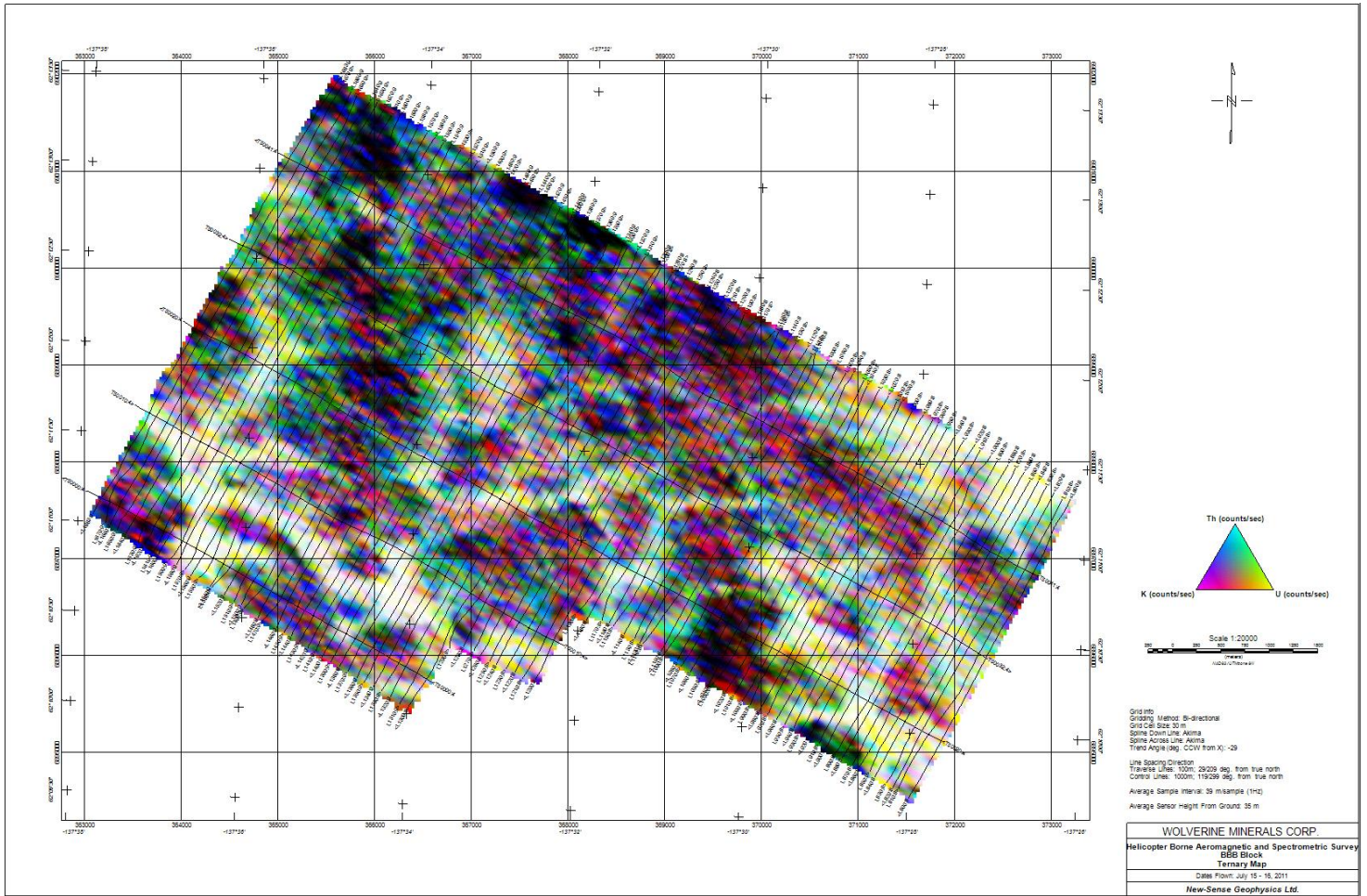




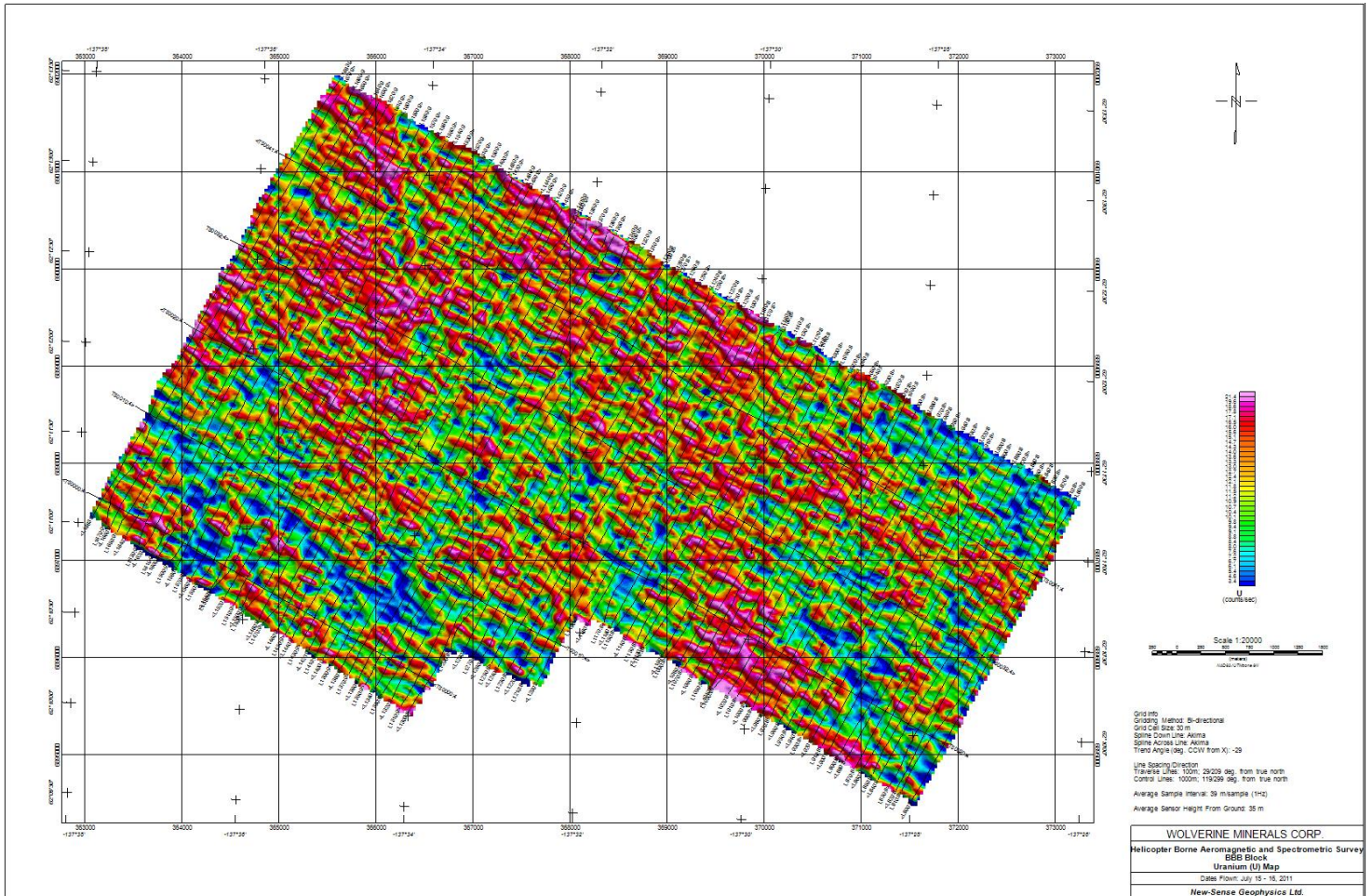
# BBB Block Image of Potassium Map



# BBB Block Image of Thorium Map

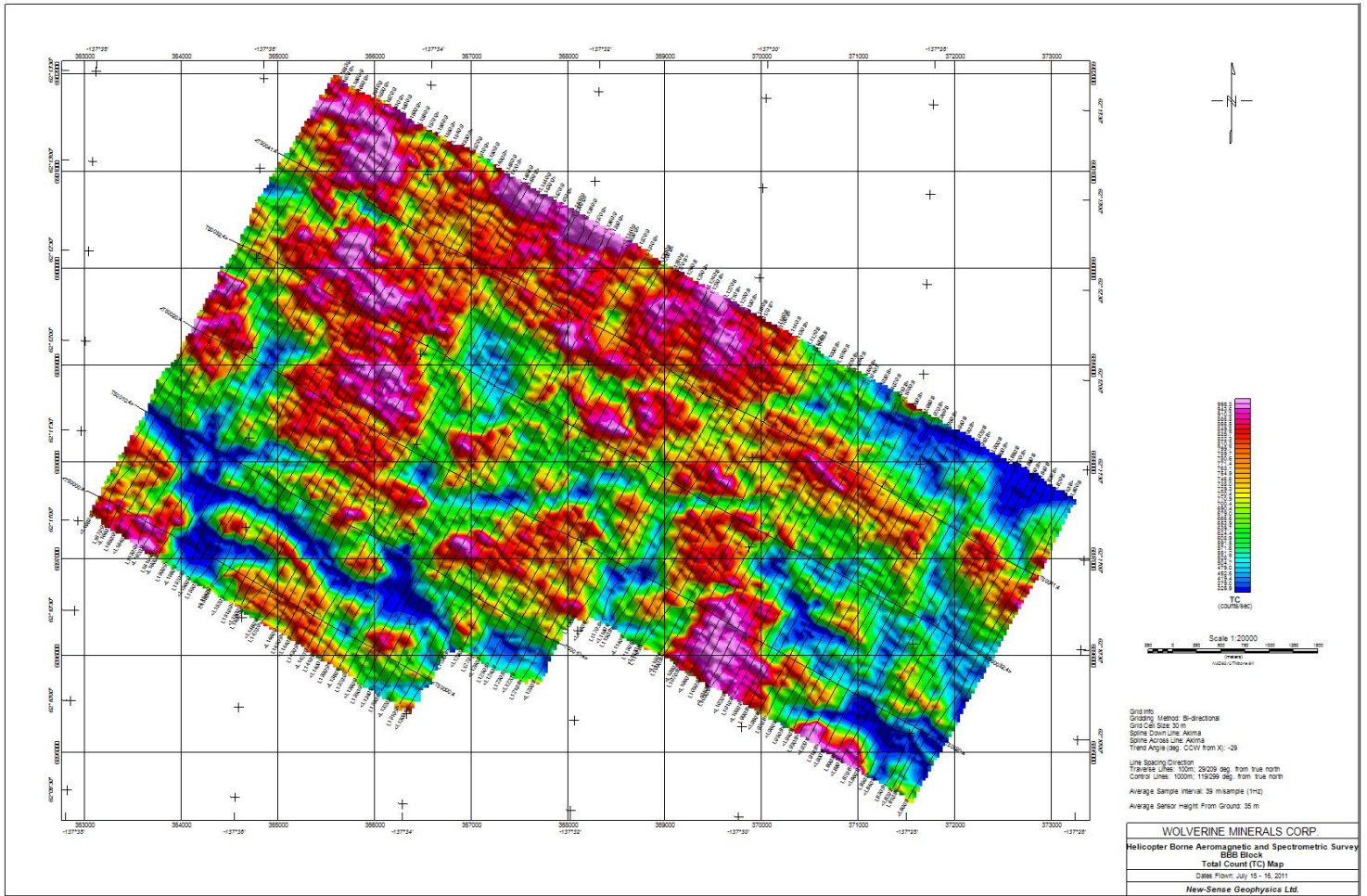


# BBB Block Image of Uranium Map

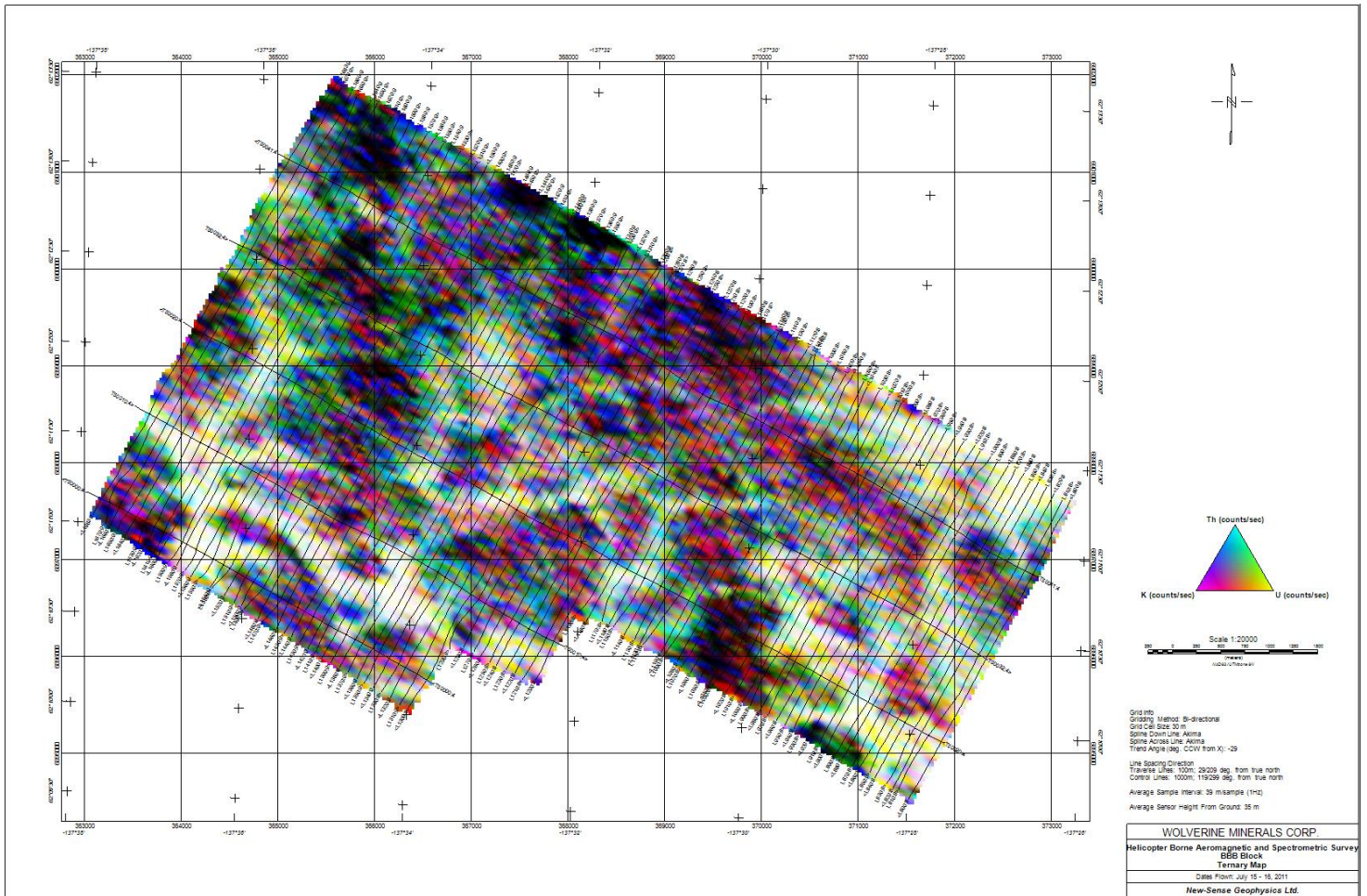




# BBB Block Image of Total Count Map

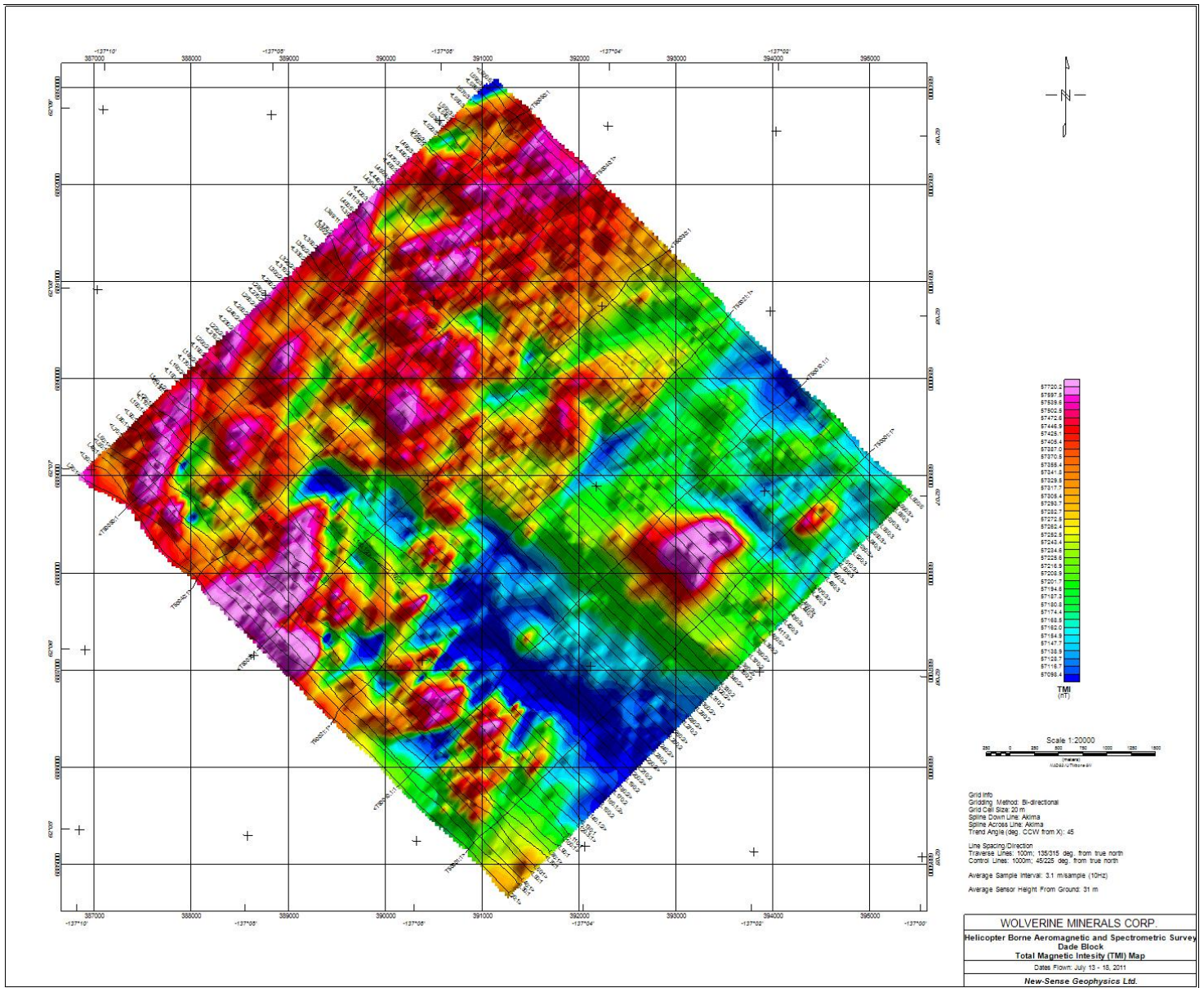


# BBB Block Image of Ternary Map

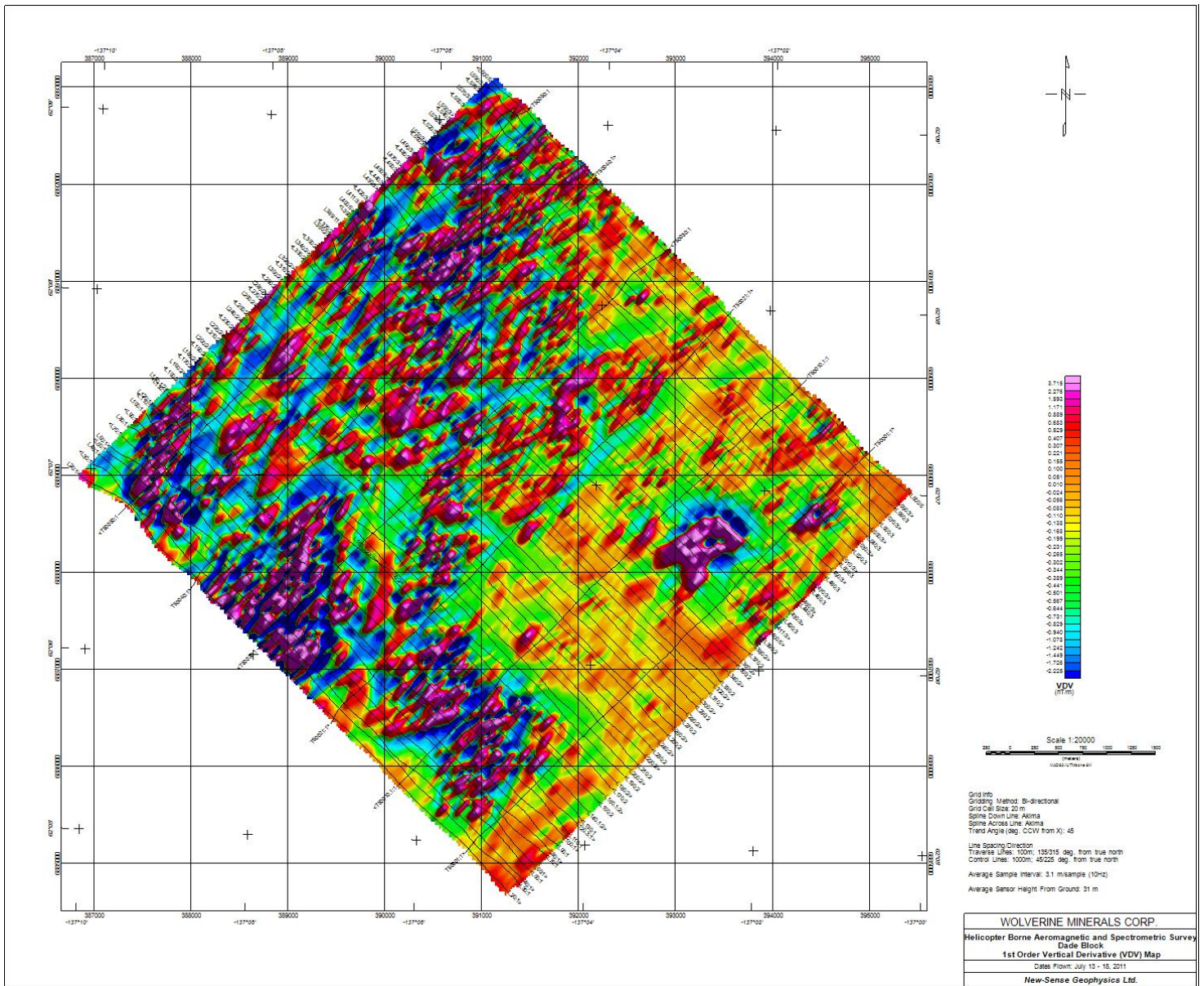




# Dade Block Image of TMI FINAL Map

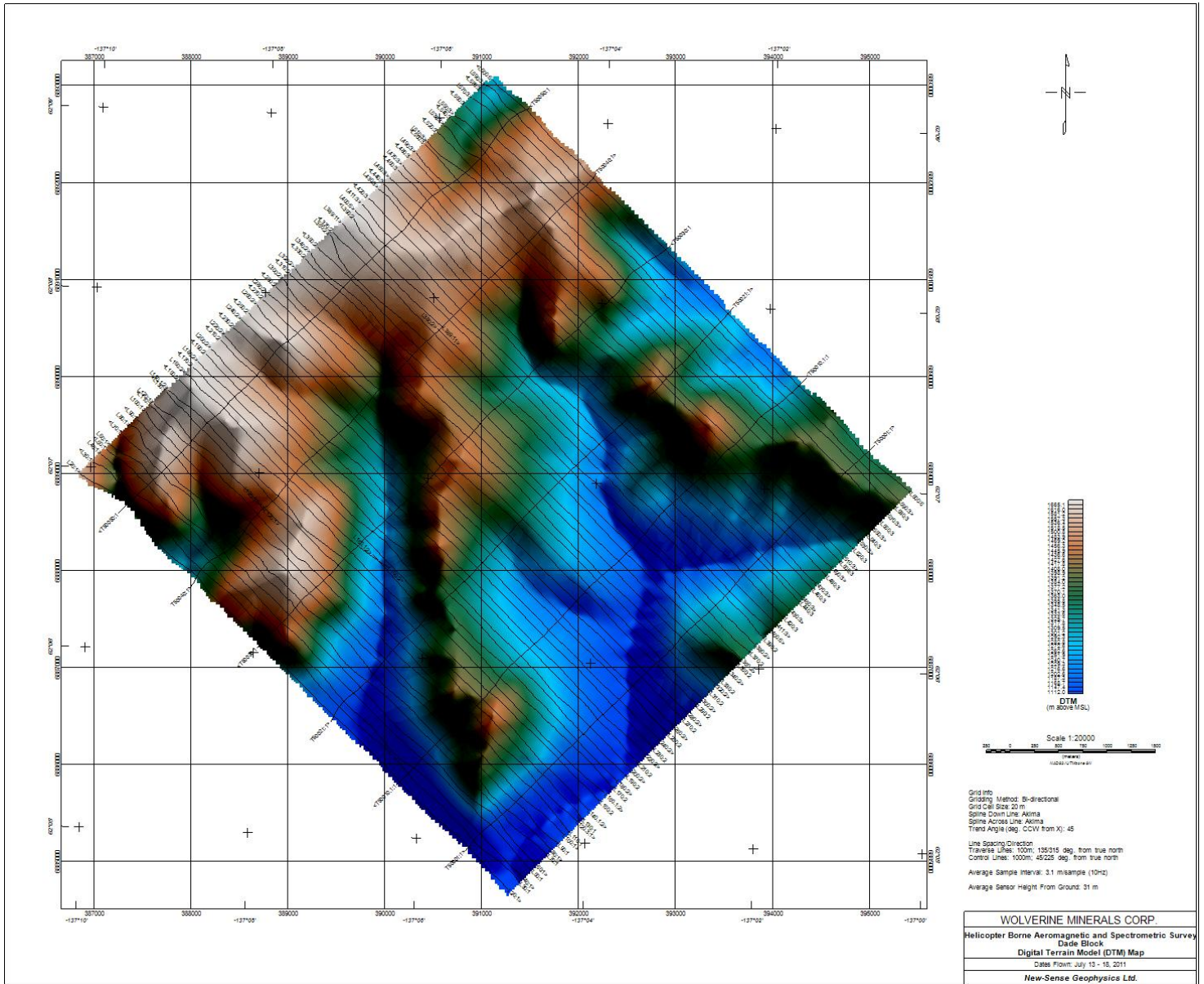


# Dade Block Image of VDV Map



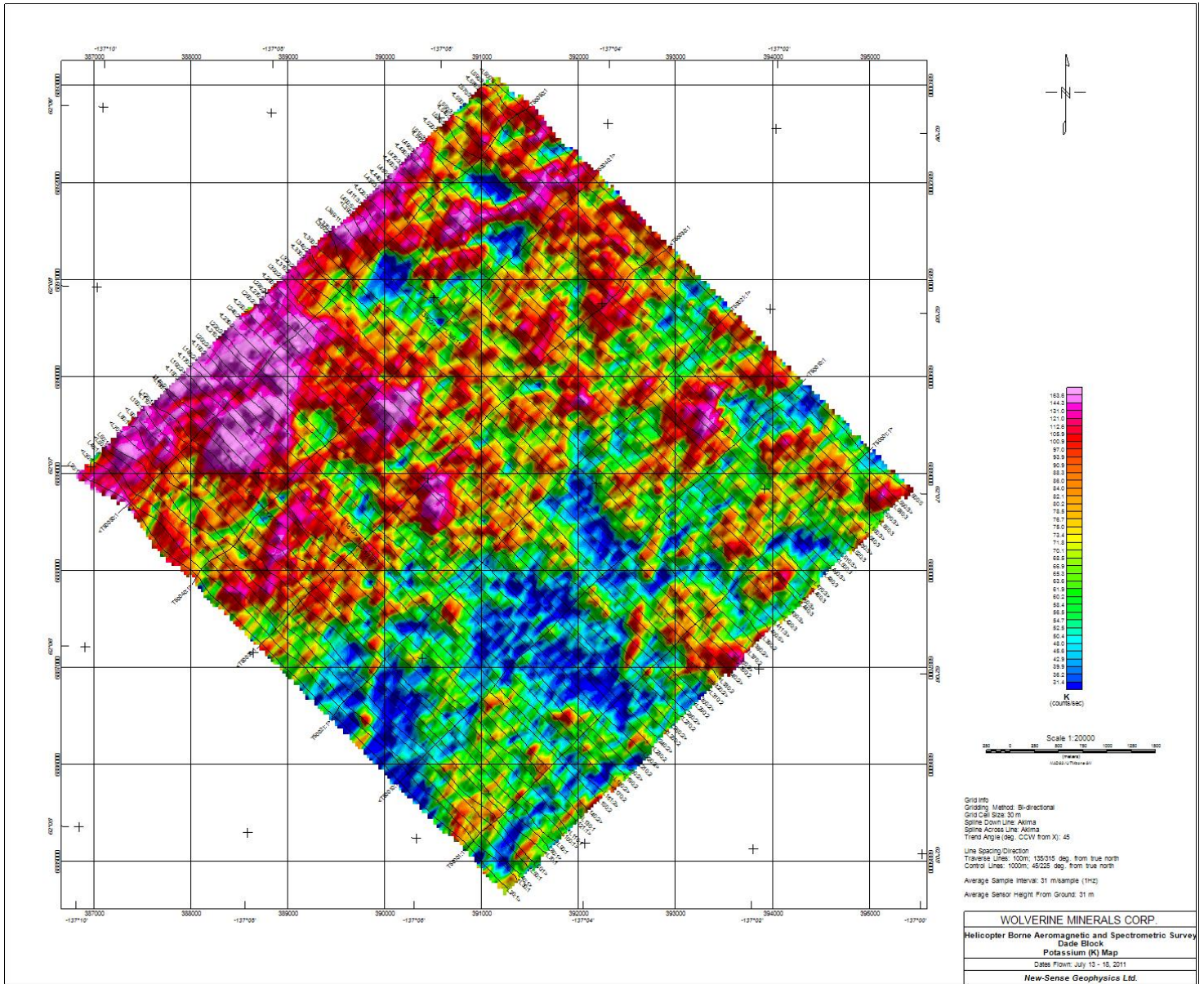


# Dade Extension Block Image of DTM Map

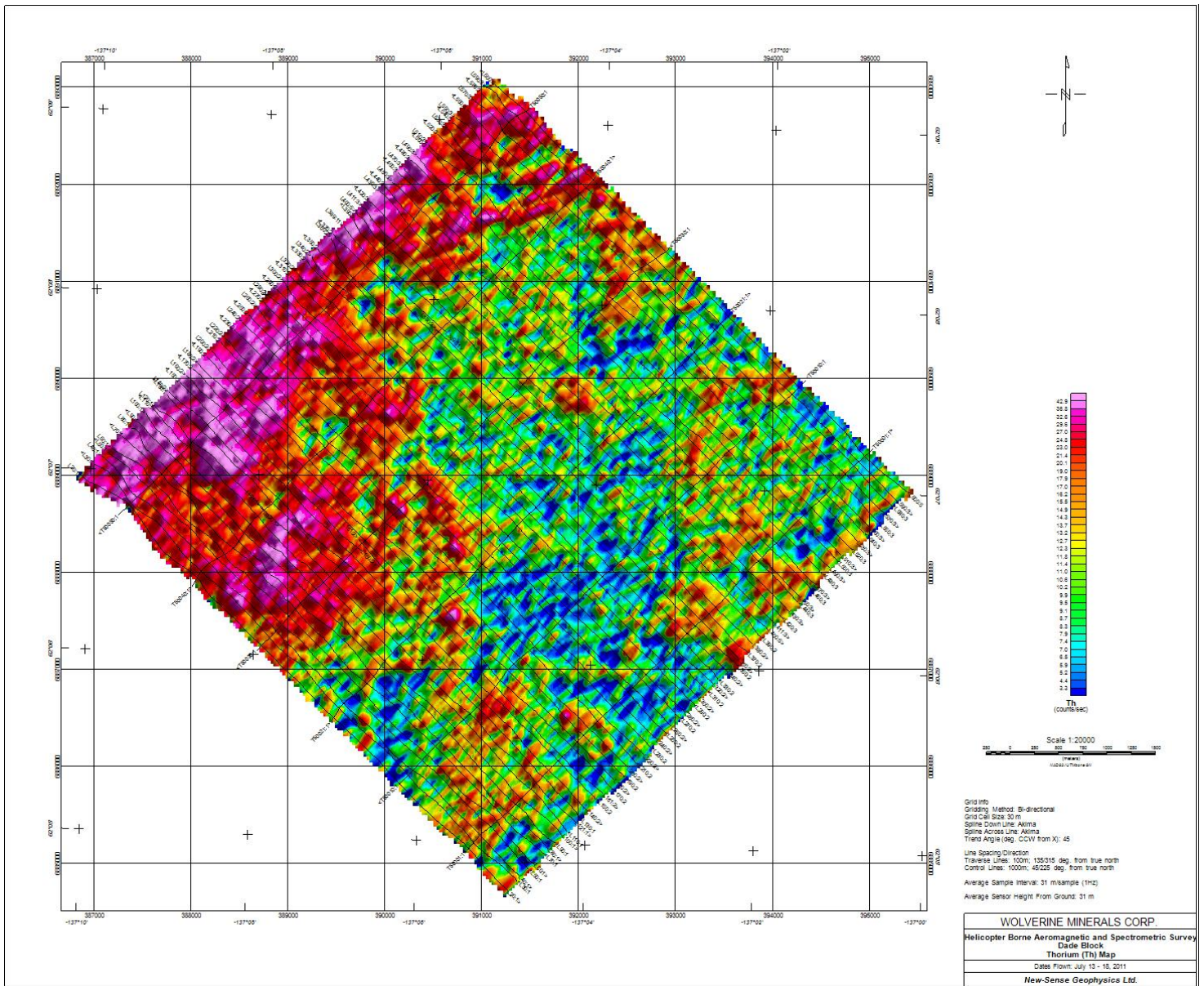




# Dade Block Image of Potassium Map

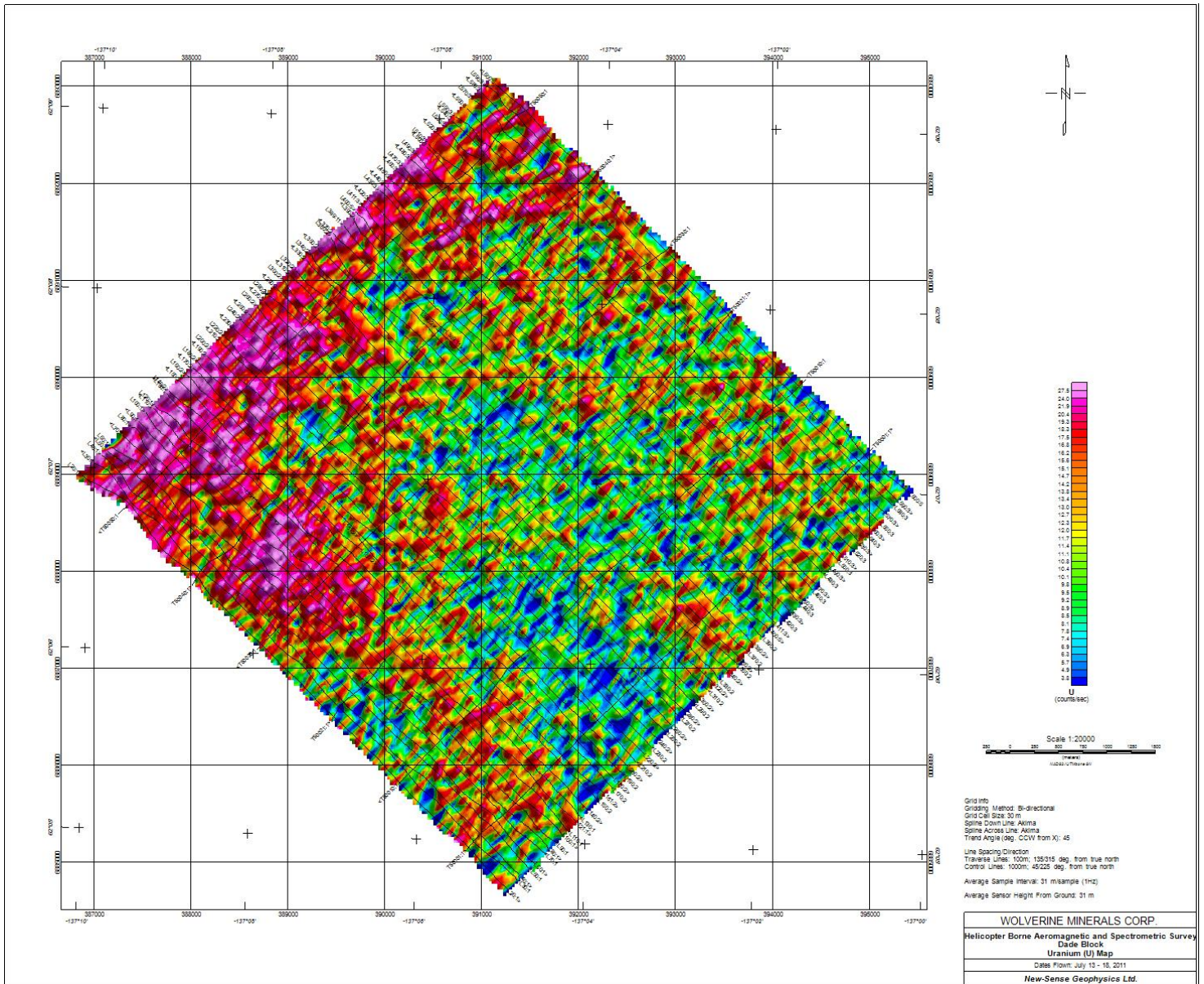


# Dade Block Image of Thorium Map



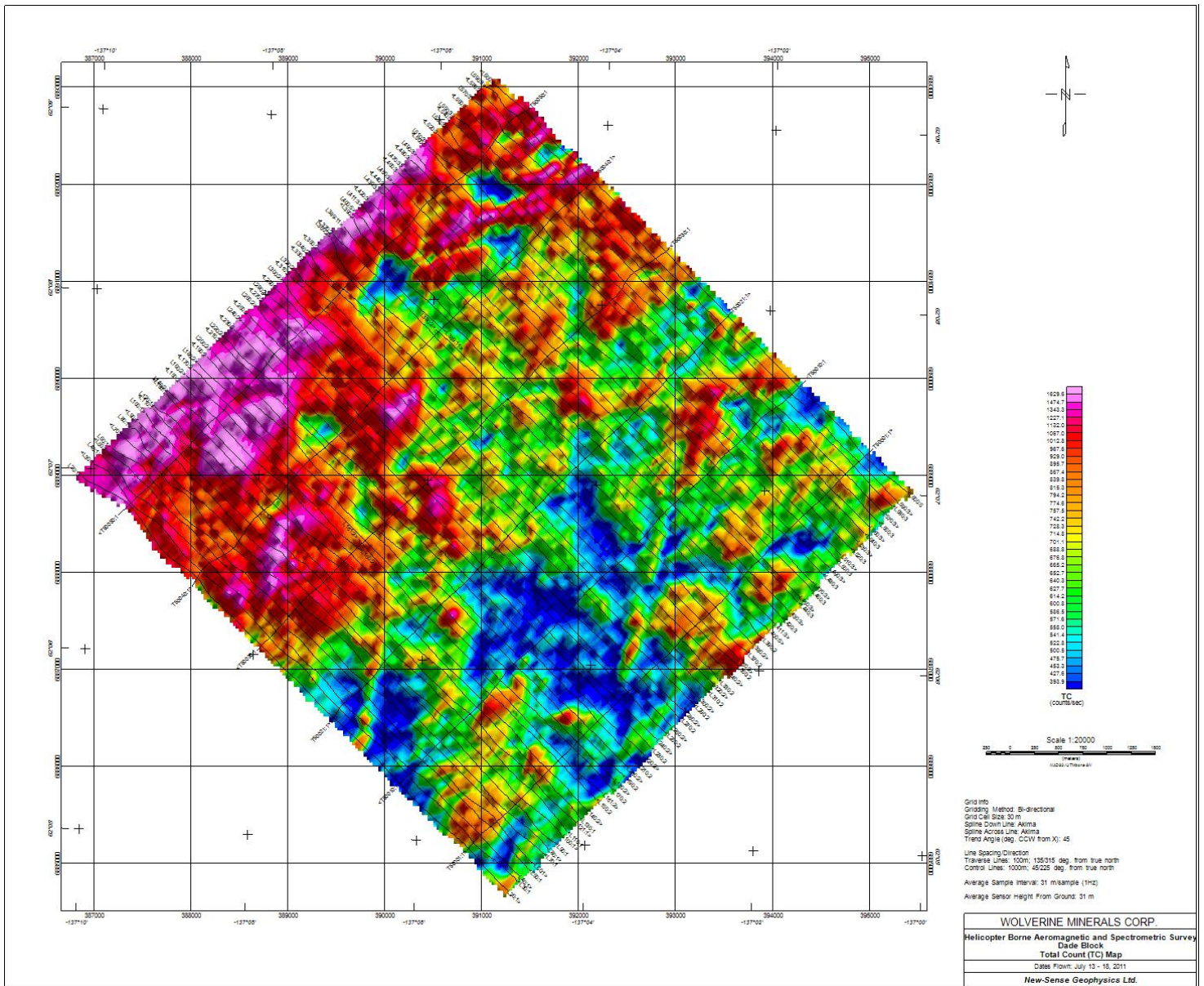


# Dade Block Image of Uranium Map



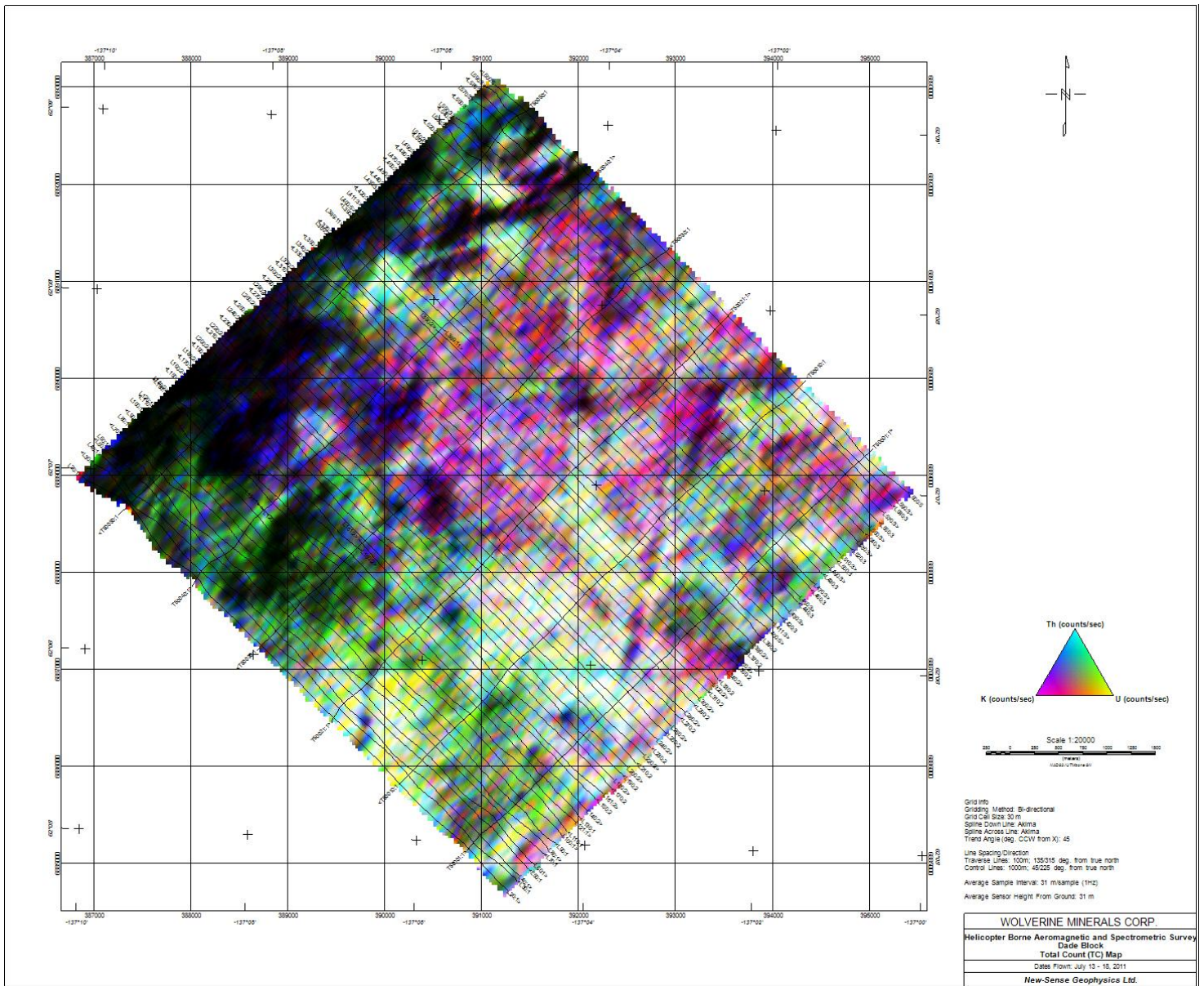
**WOLVERINE MINERALS CORP.**  
 Helicopter Borne Aeromagnetic and Spectrometric Survey  
 Dade Block  
 Uranium (U) Map  
 Date Plotted: July 13 - 15, 2011  
 New-Sense Geophysics Ltd.

# Dade Block Image of Total Count Map





# Dade Block Image of Ternary Map



## APPENDIX F: MICROLEVELLING DESCRIPTION

As per PGW Microlevelling GX help file available through Geosoft Oasis montaj 7.2

**DECORR.GX**                   Version 3.0  
                              Paterson, Grant & Watson Limited  
                              March 2003

**PARAMETERS:** (miclev group parameters are used, so that values set will be passed to MICLEV.GX)

miclev.Xchan = x channel (default "x")  
.Ychan = y channel (default "y")  
.Ochan = original data channel (no default)  
.Nchan = decorrugation noise channel (default "dcor\_noise")  
.Space = flight line spacing  
.Dir = flight line direction in degrees azimuth (clockwise from North)  
.Cell = cell size to use for gridding (default = line spacing/5)  
.Wlen = decorrugation high-pass wavelength (default = 4 \* line spacing)  
.Ogrid = original output grid, new or existing  
.Nnoise= decorrugation noise grid  
.XY = Xmin, Ymin, Xmax, Ymax (optional)  
.LOGOPT= Log option (optional)  
.LOGMIN= Log minimum (optional)  
.DSF = Low-pass desampling factor (optional)  
.BKD = Blanking distance (optional)  
.TOL = Tolerance (optional)  
.PASTOL= % pass tolerance (optional)  
.ITRMAX= Max. iterations (optional)  
.ICGR = Starting coarse grid (optional)  
.SRD = Starting search radius (optional)  
.TENS = Internal tension (0-1) (optional)  
.EDGCLP= Cells to extend beyond data (optional)

### DESCRIPTION:

decorr.gx and miclev.gx implement a procedure called microlevelling which removes any low-amplitude component of flight line noise still remaining in airborne survey data after tie line levelling. Microlevelling calculates a correction channel and adds it to the profile database. This correction is subtracted from the original data to give a set of levelled profiles, from which a final levelled grid may then be generated. Microlevelling has the advantage over standard methods of decorrugation that it better distinguishes flight line noise from geological signal, and thus can remove the noise without causing a loss in resolution of the data.

To microlevel data, first run decorr.gx, then miclev.gx. decorr.gx offers two options for the grid of the channel to be microlevelled. If a grid prepared from this channel already exists, it may be specified, and when prompted to overwrite, the user should answer no. If the user wishes to prepare a new grid of the channel to be microlevelled, the

minimum curvature gridding algorithm (rangrid.gx) is applied. The advanced button provides access to the standard minimum curvature gridding parameters. Once the gridding is completed, decorr.gx applies a directional high-pass filter (see end note) perpendicular to the flight line direction, in order to produce a decorrugation noise grid. (The default grid cell size is 1/5 of the line spacing. The user may specify a different cell size if desired. A smaller cell size will give a more accurate result, but a larger cell size will make the gx run faster and use less disk space.) The noise grid is then extracted as a new channel in the database (default name is "dcor\_noise"). This channel contains the line level drift component of the data, but it also contains some residual high-frequency components of the geological signal. miclev.gx applies amplitude limiting and low-pass filtering to the noise channel in order to remove this residual geological signal and leave only the component of line level drift, which is then subtracted from the original data to produce a levelled output channel named "miclev".

decorr.gx calculates default amplitude limit and filter length values for use in miclev.gx, but the skilled user may be able to set better values for these parameters based on an inspection of the noise grid. (The micro-levelling process is broken up into two separate GXes in order to allow the user to do this.) Flight line noise should appear in the decorrugation noise grid as long stripes in the flight-line direction, whereas geological anomalies should appear as small spots and cross-cutting lineaments, generally with a higher amplitude than the flight line noise, but with a shorter wavelength in the flight-line direction. The user can estimate the maximum amplitude of the flight line noise, and set the noise amplitude limit value accordingly. Similarly the user can estimate the minimum wavelength of the level drift along the flight lines, and set the low-pass Naudy filter width to half this wavelength. The defaults are to set the amplitude limit equal to the standard deviation of the noise grid, and to set the filter width equal to five times the flight line spacing.

There is an option of using either of two kinds of amplitude limiting. In "clip" mode any value outside the limit is set equal to the limit value. In "zero" mode any value outside the limit is set equal to zero. The clip mode makes more sense intuitively, but it has been found in practise that the zero mode may reject geologic signal better, depending on the particular data set. As a rule the zero mode works better on datasets in which the noise grid contains a lot of high-amplitude geological signals (e.g. shallow basement areas). For datasets in which the noise grid contains mainly flight line noise (e.g. sedimentary basins), the clip mode works better.

Microlevelling applies a level correction to the traverse lines only. If it is desired to grid the tie lines together with the micro-levelled traverse lines, then it may be necessary to also apply a level correction to the tie lines so that their values agree with the micro-levelled traverse lines at the intersections. This may be done as follows:

- 1) Copy the tie line values to the microlevelled channel.
- 2) Use intersct.gx to find cross-difference values for the microlevelled data.
- 3) Use xlevel.gx to load these cross-difference values to the tie lines.
- 4) Apply fulllev.gx to the tie lines. The output will be a set of tie

lines that matches the microlevelled traverse lines at all intersections.

- 5) Copy the microlevelled traverse line values into the same channel as the corrected tie line values.

---

#### **Decorrugation Filter:**

The decorrugation noise filter is a sixth-order high-pass Butterworth filter with a default cutoff wavelength of four times the flight line spacing, combined with a directional filter. The directional filter coefficient as a function of angle is  $F=(\sin(a))^2$ , where  $a$  is the angle between the direction of propagation of a wave and the flight line direction, i.e.  $F=0$  for a wave travelling along the flight lines, and  $F=1$  for a wave travelling perpendicular to them. (Note this is the exact opposite of what is usually called a decorrugation filter, since the intention here is to pass the noise only, rather than reject it.)

The default cutoff wavelength ( $4 * \text{line spacing}$ ) gives good results if the data is already fairly well levelled to start with. In cases where many lines are badly mis-levelled, it may be necessary to set a longer cutoff wavelength, at the risk of removing more geological signal.



**APPENDIX G: COPY OF THE CONTRACT**

**CONTRACT  
FOR  
A HELICOPTERBORNE AEROMAGNETIC AND SPECTROMETRIC  
SURVEY FOR WOLVERINE MINERALS CORP. OVER BBB AND DADE  
BLOCKS, YUKON, CANADA.**

**NEW-SENSE GEOPHYSICS LTD.** ("NSG"), with its corporate offices at

195 Clayton Drive, Unit 11  
Markham, ON, Canada  
L3R 7P3

Telephone: (905) 480-1107/ (905) 480-9989  
Fax: (905) 480-1207

Offers to carry out airborne geophysical services on behalf of

**WOLVERINE MINERALS CORP.** ("Client"), with its offices at:

Suite 3023, Bentall Three Building  
595 Burrard Street  
Vancouver, BC  
Canada V7X 1K8

Telephone: (604) 689-5722  
Fax: (604) 685-9182

Contact: Heather Smith. P.Geo  
Email: hsmith@archercathro.com

in accordance with the following description, terms and conditions.

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## **1. COMPANY DESCRIPTION**

New-Sense Geophysics (NSG) traces its history through its current founder and president Dr. W.E.S. (Ted) Urquhart. First as Urquhart-Dvorak, which specialized in processing airborne geophysical data, to High-Sense Geophysics, which became one of the largest airborne survey companies in the world, until it was purchased by Fugro of Holland in 2000, and then to Geoxplo Limitada., which specialized in airborne geophysical consulting and quality control. This sequence spans over 30 years and leads us to NSG, continuing on in the tradition of airborne survey innovation and quality airborne data acquisition.

NSG has established its HQ office in Markham, Ontario where it operates out of a new purpose-designed and constructed 3000 square foot facility. Here it designs and manufactures its own operator-less systems made 'field-bullet-proof' by engineer Glenn Slover.

The facility itself is more advanced than what may be found in leading high tech companies anywhere. It is completely wired for production with any processing station able to share information on the internal network and processors and field people in direct voice and data communication anywhere in the world. Highly secure firewall features prevent unauthorized access and fail-safe systems prevent any potential data loss through accident, intent or act of God. Clients with authorization can view the progress of their survey on a 24/7 basis.

The company has five data processing workstations with capacity to expand to twice that. A large inventory of systems and components provides for rapid remediation of field problems with the hardware should any occur. All this equipment is rigorously tested, using the built-in network and permanently installed sensors including GPS antenna signals available to each workbench.

The company works world-wide and presently has a second office of operation in Santiago Chile where equipment is maintained and processing takes place.

The company and its personnel through its many years in airborne surveying, airborne software and hardware development, and airborne survey data processing, has dealt with literally millions of kilometres of airborne data acquired in perhaps 80 countries. NSG itself has flown, processed and interpreted more than three quarters of a million line kilometres since 2005. These have been for multi-national companies (like Rio Tinto, Barrick, Teck, and BHP), to junior mining exploration companies, to governments. All have received their data on time and to their satisfaction. And in all of its history dating back 30 years, the companies owned and run by Dr. Urquhart, who developed the concept and practice of operatorless surveying, have not had a single accident ...a perfect safety record.

## 2. SURVEY AREA

A helicopter borne magnetic and spectrometric survey is to be carried out on the Client's project areas known as BBB and Dade blocks located approximately 50Km west of Carmacks, Yukon, Canada.

The block is to be flown from Carmacks with refueling in between the flights at Klaza camp site. See Tables 2.1-2.2 and Figure 2.1 below.

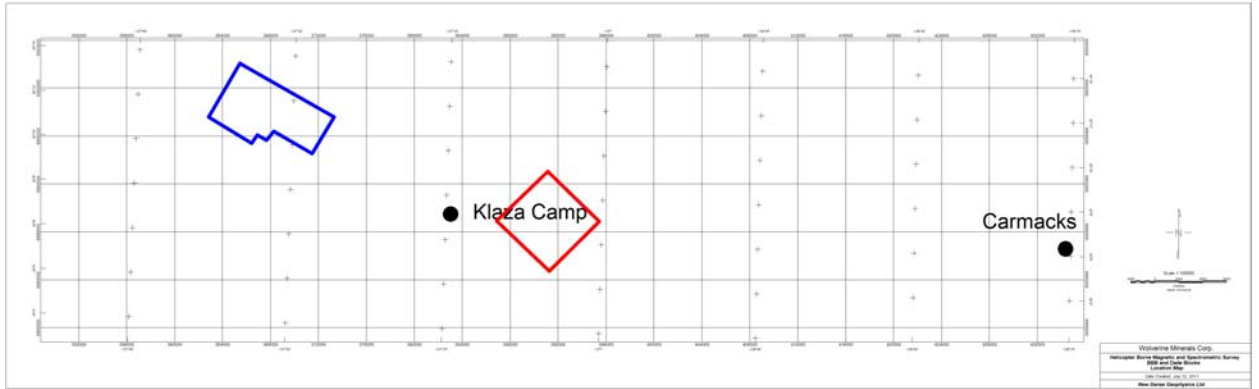
**Table 2.1 BBB block outline coordinates**

UTM Zone 8N			
NAD83_X	NAD83_Y	WGS84_X	WGS84_Y
365438	6902072	365438	6902072
373282	6897592	373282	6897592
371473	6894543	371473	6894543
368259	6896403	368259	6896403
367652	6895669	367652	6895669
366893	6896087	366893	6896087
366412	6895416	366412	6895416
362831	6897580	362831	6897580
365438	6902084	365438	6902084

**Table 2.2 Dade block outline coordinates**

UTM Zone 8N			
NAD83_X	NAD83_Y	WGS84_X	WGS84_Y
391140	6893040	391140	6893040
386855	6888934	386855	6888934
391261	6884750	391261	6884750
395425	6888891	395425	6888891

Note: the survey will be flown in WGS84, World, UTM Zone 8N and delivered to the client in NAD83, North America, UTM Zone 8N.



**Figure 2.1** Map depicting outlines of the BBB block (blue) and Dade block (red). Coordinate system, WGS84, World, UTM Z8N. UTM grid cell size 4km.

### **3. TECHNICAL SPECIFICATIONS FOR AIRBORNE SURVEY**

#### **3.1 Traverse and Control Lines Statistics: BBB Block**

Traverse Line Direction: 29/209 degrees from true North  
Traverse Line Interval: 100m  
Control Line Direction: 119/299 degrees from true North  
Control Line Interval: 1000 m  
Estimated Line KM: 390 L/KM (Traverse)  
45 L/KM (Control)  
435 L/KM (Total)  
Mean Terrain Clearance: 35m\* nominal  
Sampling Interval: Magnetics 50 Hz/10Hz; Radiometric 1 Hz second  
Minimum Line Length: 2 Km

#### **3.2 Traverse and Control Lines Statistics: Dade Block**

Traverse Line Direction: 135/315 degrees from true North  
Traverse Line Interval: 100m  
Control Line Direction: 45/225 degrees from true North  
Control Line Interval: 1000 m  
Estimated Line KM: 360 L/KM (Traverse)  
35 L/KM (Control)  
395 L/KM (Total)  
Mean Terrain Clearance: 35m\* nominal  
Sampling Interval: Magnetics 50 Hz/10Hz; Radiometric 1 Hz second  
Minimum Line Length: 2 Km

\*Note: The 35 meter flight height will be subject to an on-sight safety audit. In any event, the flight height will be subject to pilot safety concerns.

Actual number of survey line kilometers will be those flown and delivered that fall inside the survey boundaries as listed above.

#### **3.3 Tolerances**

##### **3.3.1 Traverse line separation**

The pilot will fly to the best of his ability to stay within no more the 50% on either side of the theoretical flight path for a distance of 1000 meters unless obstructions or topography require greater deviations for reasons of safety.



There will be no crossing flight lines unless physical obstructions or topography require such deviation for reasons of safety. Such instances will be communicated and discussed with the client representative in writing.

However, if flight-line path deviations are the result of safety concerns, local aviation authority regulations, or military requirements, NSG will not be required to fly fill-in lines.

### **3.3.2 Control line spacing**

Control lines will be surveyed at an average interval as specified, but may be located to avoid, where possible, areas of strong magnetic gradient.

### **3.3.3 Flight Height**

The terrain clearance will be maintained at the planned altitude of 35 meters, subject to topography constraints, safety requirements, local aviation authority regulations, and/or military requirements.

### **3.3.4 Missing or Substandard Data**

Data will be recorded digitally in the aircraft and at the ground station. Isolated errors, spikes, and short non-sequential gaps consisting of a few points, will be corrected by interpolation.

### **3.3.5 GPS**

GPS will be used for navigation.

### **3.3.6 Diurnal**

Magnetic diurnal activity will be monitored at the base station. If the magnetic activity exceeds 20 nT per 2 minute period, a flight will not depart until the activity has returned to levels below this rate. Once a flight has started it will not be aborted due to diurnal activity.

### **3.3.7 Re-flights**

Any flight lines or parts of flight lines with data outside the above tolerances will be considered for re-flights. All re-flown lines or portions of lines will be tied to the closest control lines at both ends.

## **4. PAST PERFORMANCE OR EXPERIENCE AND QUALIFICATIONS**

### **4.1 Organizational experience**

NSG provides high quality airborne magnetic/gradiometer and spectrometer surveys using fixed-wing and helicopter platforms. The company is owned and operated by W. E. S (Ted) Urquhart Ph.D. who was the founder and President of High-Sense Geophysics Limited that was sold to Fugro in 2000. After a five-year non-compete period, NSG was inaugurated to re-enter the airborne survey industry to carry on the tradition of providing innovative technologies focusing on collecting the highest quality airborne geophysical data in the safest possible manner.

NSG operates from two offices, one in Markham, Canada where its equipment is manufactured, tested and dispatched throughout the world; the other is in Santiago, Chile where NSG offers airborne geophysical services in Spanish to its South American clients.

NSG has performed airborne geophysical surveys in Africa, North America, Europe, the Middle East and South America. NSG has flown in excess of 700,000 line km in the last 3 years for clients such as major companies like: USGS, BHP Billiton, PG&E, Kennecott, Teck Cominco, Barrick Gold, Kinross, Gold Field, etc.

### **4.2 References of previous surveys**

Dr. V. J. S. (Tien) Grauch, Scientist in charge, *U.S. Geological Survey*  
Phone: +1 (303) 236-1393  
Email: tien@usgs.gov

Donald Hinks, Project Geophysicist, *Kennecott Exploration Company*  
Tel +1 (801) 204 3404  
Cell +1 (801) 638 8528  
Email: donald.hinks@riotinto.com

Peter Mills, BHP Billiton Ltd.  
Tel: + (976) 11 323033 x103  
Email: peter.j.mills@bhpbilliton.com

## **4.3 Qualifications of the personnel and pilots**

### **4.3.1 NSG representative**

NSG conducts surveys with an operatorless system and as a result typically sends only one field geophysicist on the job site who possesses good knowledge in not only QC/QA, data processing but in the equipment maintenance as well. At this stage it is planned that NSG representative on the job site would be Mr. Sean Plener with Mr. Andrei Yakovenko being the general project manager under the oversight of Dr. William E. S. (Ted) Urquhart

Field:

Mr. Sean Plener is detail oriented specialist with international and domestic survey and mapping experience and a background in Physical Geography and Earth and Atmospheric Science. Sean has been working with New-Sense since 2007 on both airborne FW and Helicopter total field magnetic and radiometric surveys in different parts of North America and South America.

Geophysicist:

Mr. Yakovenko, Andrei, has been responsible for fixed wing and helicopter airborne operations including permanent, contract, and air crew supervision, logistics, data QA/QC, data processing, and reporting.

He is a tri-lingual, solutions oriented specialist with international and domestic survey and mapping experience, with a background in geology, underwater, land-based archaeology, and geophysics. Currently a Masters candidate in geophysics at McMaster University, Andrei obtained his B.Sc. (Honors) from the University of Toronto. He is skilled in geophysical data processing using Oasis Montaj and coordinating multiple airborne projects. Andrei has authored multiple scientific publications.

Office supervision:

Dr. Urquhart has over 40 years of experience in geophysics, during which time he has been involved in field surveys, operations, management, data quality, safety, data enhancement, compilation and interpretation for various projects throughout the world. Ted was an owner and president of High-Sense Geophysics Ltd. (the third largest geophysical airborne survey company in the world). He has participated in projects as diverse as oil basin studies, mineral and diamond exploration and radioactive satellite fragment recovery. Academically, Ted has conducted research (M.Sc., Ph.D., and professionally) into the correlation of magnetic anomalies with geological factors on both a large and small scale.

## **5. NSG'S QUALITY CONTROL**

During data acquisition, the system will be monitored by the field QA/QC personnel to ensure that the equipment is secure and unchanged. If equipment has been noted to shift or a mechanical part of the aircraft has changed, another FOM will be flown.

Base station and survey flight data is collected immediately after each flight and duplicate copies made. Field staff verify completeness of flown lines, note and log any deviations from the flight path, identify (manual & 4th difference algorithm) and remove noise spikes (note: raw data is maintained), magnetic compensated channels created, daily progress report updated and posted for client, complete data set sent to NSG.

The iNAV V3 system, used for both flight and base station systems, store real time data on two independent storage media (hard disk, and a flash memory device). In the event that one of the devices fails or data were corrupted, a backup remains intact.

Post field production is done on a day-by-day basis. After the field data QA/QC process described in sections 7.4.1 and section 7.4.2, the data is sent to NSG's secure FTP. The post field QA/QC and leveling will be done by either Andrei Yakovenko or Dr. Ted Urquhart. The field staff is in contact with the in-house processor every evening to ensure data was received and to discuss previous flights. If there is an issue, the field staff can be reached by cell or satellite phone to make the necessary corrections before production continues. This immediate processing of the data to pre-final stages, benefits the client in three very important ways: First, there are multiple levels of personnel monitoring the survey data in a short period. If something is missed by the field staff, it will be caught by our in-house personnel before the survey progresses much further; second, we can update the client with current pre-final maps so areas of interest can be discussed and in-fills or re-flights can be planned before the survey lines are completed, thereby minimizing standby days; finally, the pre-final maps are ready the day after flying is completed and can be submitted for the clients approval.

The final products will be prepared as to the contract's obligations, section 8, and with Client's consent on all the data processing steps and procedures. A first version of the final products will be delivered to Client or other client representative for a review and approval.

For additional Data Processing and QA/QC information refer to the following sections regarding:

- Procedures including measures for aircraft's aeromagnetic system calibration (refer to sections 7.2.)
- Inflight data acquisition (sections 7.1 (except 7.1.4, 7.1.9, 7.1.10), 7.2, and 7.3)
- Flight path location (section 7.1.7)
- Ground magnetometer data acquisition (section 7.1.4)

- Data processing and map preparation (sections 7.4 and 8)

## 6. **EQUIPMENT SUITABILITY AND CONTINGENCY PLAN**

### 6.1 **Availability and quality of proposed data acquisition and processing equipment**

#### **Aircraft:**

A Bell 206B or similar helicopter provided by Northern Air Support (NAS) based in Kelowna, BC, will be used.



The aircraft with its field crew will operate from Carmacks, YT, and be using a certified fuel truck or fuel drums for refueling at those locations and/or designated fuel cash closer to the survey areas.

Client will be responsible for providing certified Jet fuel for the helicopter.

The aircraft will be limited to VFR flying conditions. All other conditions will be left to the discretion of the pilot in command.

## **Data Acquisition:**

NSG builds and maintains its own proprietary data acquisition systems known as iDAS. The iDAS system features the KroumVS Instruments KMAG4 magnetometer counter and the KANA8 analog to digital converter. The systems are built with a wide range voltage input (9V to 36V) to accommodate a variety of aircraft power supplies.

The iDAS system uses sophisticated software to provide an autonomous "Operatorless" system resulting in a SAFER survey environments by removing the need for an operator on board the aircraft.



The systems will be available within two weeks of the signing of the contract.

For the data processing NSG is using Geosoft Oasis montaj with a number of build in GX scripts.

## **6.2 Electronic navigation**

Pilot Friendly Navigation display (PI) delivers all the navigation and control features necessary for the pilot to safely maintain the highest quality flight line specifications without additional safety risk of having an operator on board the aircraft (see also section 7.1.7).

## **6.3 Safety Plan**

Safety is the number one priority at NSG. NSG is an active member of the International Airborne Geophysics Safety Association (IAGSA)

Prior to mobilizing to the job site, IAGSA Risk Analysis and NSG Job Safety Plan will be prepared in the Markham office. There are areas of the report that require a physical presence on the job site (i.e. reconnaissance flight, identifying local hazards, etc.). At the job site, before each departure, the pilot will contact the local air traffic controller.



Prior to flying the first production line, a safety meeting is held by a NSG representative where each of the reports is explained to all members of the survey crew. A reconnaissance flight will then take place and the IAGSA Risk Analysis and NSG Job Safety Plan will be completed.

Every Sunday, a weekly safety meeting takes place where any and all the safety concerns and issues during the past week are brought to attention and logged to a weekly safety report.

Pilot safety is enhanced by the use of a flight following system that provides updates at 2-minute intervals on the GPS location of the aircraft. This information is monitored in real time on the internet by authorized personnel. In case of an emergency the pilot could press a “Panic Button” connected to the Flight Following and the signal will be transmitted at around 10 sec. intervals or less, which would drastically reduce the search area in a case of emergency landing.

The client will be provided with a login for real time monitoring of aircraft activities through this Flight Following System.

In addition, the Flight Following has an integrated satellite phone that is connected directly to the pilot’s headset. This minimizes any distraction to the pilot when sending or answering a call.

Prior to the flight’s departure, a NSG representative records all the information regarding the aircraft status, such as time of departure, endurance, fuel level, etc.

Once in the air, NSG representative monitors the aircraft at least once every half hour. In case of internet problems, a call will be given right away to the satellite phone integrated to the pilot’s headset and once every hour.

If the flight following signal is lost and the pilot cannot be reached by satellite phone, then NSG’s emergency response procedure is initiated (detailed in the NSG Job Safety Plan).

The aviation company will adhere to all the standards and requirements for local approved air operators.

In summary:

- NSG is active members of International Airborne Geophysics Safety association (IAGSA)
- On each job NSG completes both IAGSA Risk Analysis and NSGs Job Safety Plan forms.
- NSG conducts daily safety meetings with the crew before any flying takes place.

- A Flight Following system will accompany NSG iDAS system that provides updates on every 2 minute intervals, which could be monitored through internet access.
- In addition, the Flight Following has an integrated satellite phone that is connected directly to pilot's headset. Thus minimizing any distraction if pilot decides to send or receive a call.
- The client will be provided with a login for real time monitoring of the helicopter activities through the flight following system.

## **6.6 Safety Record**

No accidents or near accidents have ever occurred at NSG. Since its inception, the company has flown over 45 magnetic and/or radiometric surveys totaling well over half a million line kilometers without an accident.

In addition, High-Sense Geophysics formed in 1993, owned by NSG president Dr. Ted Urquhart, also had an accident-free history. High-Sense rose to become one of the world's largest airborne survey contractors and had met and exceeded the rigorous safety standards of BHP, Shell, and Phillips, among others. It had performed surveys without incident or accident in difficult areas including Vietnam, China, Mongolia, Mauritania, Democratic Republic of the Congo, Brazil, and Sudan.

## **7. TECHNICAL APPROACH**

### **7.1 AIRBORNE AND GROUND INSTRUMENTATION**

#### **7.1.1 Aircraft Type**

The aircraft allocated to conduct this survey is a JetRanger 206B helicopter (or different see Section 6.1) with a fix mount stinger assembly with a Cesium magnetometer mounted in it.

#### **7.1.2 Geophysical Flight Control System**

A geophysical flight control system, designed and built by NSG will be provided. This system will control, monitor and record the operation of all the geophysical and ancillary sensors.

#### **7.1.3 Airborne Magnetometer**



The magnetometers will be cesium sensors, operated in strap down tail stinger mount. The orientation of the sensor is adjustable, to provide optimum coupling with the earth's field on reciprocal headings. The magnetometer has a sensitivity of better than 0.01 nT at a sampling interval of 0.1 s. The magnetometer has the capability to measure ambient magnetic fields in the range of about 100 to more than 100,000 nT.

The airborne magnetometer is supplemented with an 18-term digital compensation system that uses the input from a 3-axis fluxgate to determine the aircraft's attitude and rate of change with respect to the earth's magnetic field. The compensation system identifies the permanent, induced and eddy current magnetic contributions of the aircraft and provides a correction to be applied to the raw magnetic data to remove the maneuver noise.

A FOM will be calculated by summing the absolute errors of each of the 12 maneuvers and will be less than 3 nT.

#### **7.1.4 Ground Magnetometer**



Scintrex Cesium CS3 or GSM19 Proton magnetometers will be operated at the base of operations within or near the survey area in an area of low magnetic gradient and free from cultural noise. The sensitivity of the ground magnetometer will be equal to better than 0.1 nT. Data will be recorded continuously every 1 second (or a rate defined by the client) throughout the survey operations in digital form. Both the ground and airborne magnetic readings are automatically time stamped with GPS time to within 0.005 seconds ensuring a very high degree of correlation based on broadcast GPS satellite time.

#### **7.1.5 Radar Altimeter**



A Terra 3500 radar altimeter will be operated in the aircraft throughout the survey to provide ground clearance information. The altitude will be recorded every 0.1 second or better. This instrument has a linear performance over the range of 0 to 2500 feet.

#### **7.1.6 Fluxgate Magnetometer**



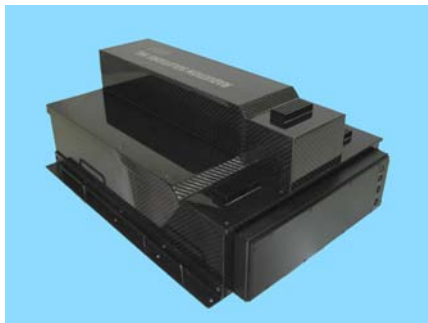
To achieve quality compensation NSG uses a Bartington Mag-03 Three Axis Magnetic Field Sensors. These compact, high performance fluxgate magnetometers with integral electronics provide reliable precision measurements of static and non-static magnetic fields in three orthogonal axes. The magnetometer is mounted inside the stinger assembly.

### **7.1.7 GPS Navigation**

A 16-channel GPS navigation system will be used for navigation and flight path recovery. The Ublox RCB-LJ GPS receiver board is powered by the ANTARIS® positioning engine.

The leading ANTARIS® GPS Engine provides excellent navigation performance under dynamic conditions in areas with limited sky view like urban canyons, high sensitivity for weak signal operation without compromising accuracy, and support of DGPS and multiple SBAS systems like WAAS and EGNOS. The 16 parallel channels and 8192 search bins provide fast start-up times. The aiding functionality accelerates start-up times even further. The low power consumption and FixNow™ power saving mode make this product suitable for handheld and battery-operated devices.

### **7.1.8 Spectrometer**



The RS-500 Airborne Spectrometer with RSX-5 detector pack, manufactured by Radiation Solutions Inc. (RSI), will be used for the survey. The RS-500 spectrometer has a multi-peak gain stabilization algorithm and is capable of recording 1024 channels with accuracy of 0.1 to 10 counts/second.

The RS-500 is connected to a crystal pack comprising four downward looking crystals (16 liters total) and one upward looking crystal (4 liters total). The downward crystals record the radiometric spectrum from 410 KeV to 2810 KeV over 1024 discrete energy windows, as well as from a cosmic ray channel that detects photons with energy levels above 3.0 MeV. From these 256 channels, the standard Total Count, Potassium, Uranium and Thorium channels are extracted. The upward crystal is used to measure and correct for atmospheric Radon interference. The shock-protected Sodium Iodide (Thallium) crystal package is unheated and automatically stabilizes with respect to the multiple peaks. The RS-500 provides raw data that has been automatically corrected for gain, base level, ADC offset, and dead time.

A resolution test will be performed before the first and after the last flight each day in order to monitor sensitivity and resolution of the crystal pack.

### **7.1.9 Field Data Verification System**

NSG will provide a complete PC based magnetic map compilation facility, to serve as a field verification system. The PC computer based system is equipped with all the software necessary to produce preliminary data images in the field. Data will be provided to the client in a Geosoft format.

The digital data records will be verified at the project site to confirm that data recording has taken place within specifications. All raw digital data recorded in flight and on the ground station magnetometer will be duplicated on site to prevent loss, and stored in separate locations.

In the base where there is e-mail connection, data will be sent on a daily basis for further examination in the head office where areas of infill will be chosen.

### **7.1.10 Flight Following System**

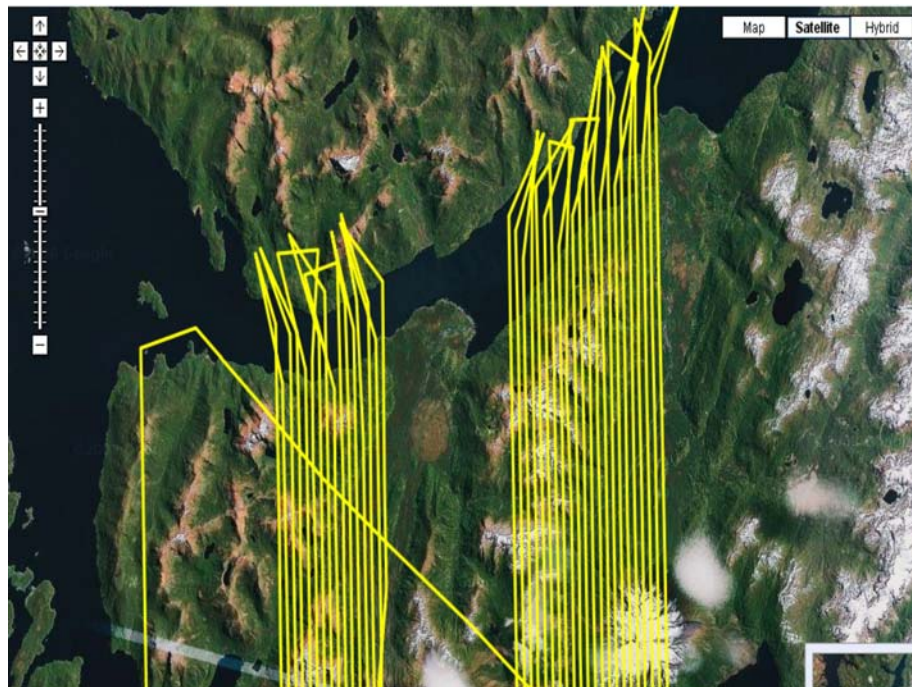
NSG places the highest priority on safety and uses satellite tracking and communication technology to monitor all its survey flights. The aircraft will be equipped with Latitude Technologies Skynode S200, a system that includes satellite phone, flight tracking, and messaging transceiver. This system uses the Iridium satellite network, which provides both voice and data communications between the aircraft and ground stations.

The S200 system can be set up for different time frames; it now automatically updates its position at least once every 2 minutes allowing NSG's field or office

staff to monitor the progress of the survey flights. All flight staff are trained in the use and the operation of the S200 system.

During the survey, if the pilot experiences any problems with operation of the survey equipment or encounters any other difficulties, he/she can call the field or office staff for support through the satellite phone, which is integrated into the pilots head set. In the event of flight operations problems, field staff can often troubleshoot and correct difficulties allowing survey flights to continue uninterrupted.

In the event of an emergency the pilot may press the “Panic Button” which will cause the system to immediately transmit the location and heading of the aircraft and will continue to transmit the current position of the aircraft continuously at around 10 sec. intervals until the emergency system is turned off.



**Figure 7.1** Screenshot of Flight Following Through Internet Web Browser

## 7.2 INSTRUMENT CHECKS AND CALIBRATIONS

Failure to meet the specifications in any check or calibration test will be cause for corrective action by NSG or approval of the Client before survey operations can be undertaken.

### **7.2.1 Magnetometer**

Figure of Merit (FOM)

A test will be flown on-site prior to the survey to determine the FOM of the installed magnetometer. The system will be flown on the four cardinal headings doing a pitch, roll, and yaw, maneuver on each. The FOM will be calculated by summing the absolute errors of each of the 12 maneuvers and will be less than 3 nT.

### **7.2.2 Altimeter**

Checks of the radar altimeter calibration will be undertaken above the base airstrip or some other suitable location with known elevation and flat terrain.

### **7.2.3 Radiometric**

#### **7.2.3.1 Pre-survey Spectrometer Calibrations and Tests**

Calibration of the spectrometer system is a vital process to airborne radiometrics or airborne gamma-ray spectrometry. The calibration of the spectrometer system involved three tests:

- Calibration Pad measurements, which are used to determine the “spectral overlap” (Compton scattering) coefficients. The calibration test is performed within a 12 month period before and/or during the survey by the manufacturer, Radiation Solutions Inc., at its headquarters location in Mississauga, Ontario.
- Cosmic Flight Test, which is used to determine the aircraft background values and cosmic coefficients. A series of high altitude test lines (e.g., 8,000 ft, 9,000, ft, 10,000 ft, and 11,000ft (if capable) above sea level) will be flown in the vicinity of the survey areas.
- Height Attenuation Test, which determines the altitude attenuation coefficients. A series of test lines (e.g., 50 ft, 100, ft, 150 ft, 200, ft, 250 ft, 300 ft, 400, 600 ft, 800 ft, and 1000 ft above ground) over dry and flat ground, will be flown in the vicinity of the survey areas.



## 7.2.3.2 During-Survey Spectrometer Calibrations and Tests

### 7.2.3.2.1 Resolution Daily Tests

The usual measure of the energy-resolution of a spectrometer system uses the “full width at half maximum (FWHM)” of a photo-peak. This is the width of the peak at half the maximum amplitude divided by the energy of the photo-peak.

The overall system resolution based on the Th photo-peak at 2.61 MeV should always be better than 7% on all downward looking crystals. If the resolution changes by more than 1% (eg, 4% to more than 5%) from that measured at the start of the survey, flying operations will be ceased until the source of the problem is found and rectified.

**This test is not required with the RS-500 system and will only be performed at the Clients request and upon availability of Th source material.**

## 7.3 DATA RECORDS

### 7.3.1 Digital Records

The airborne data acquisition system will record the following information digitally in a format that enables the recording of each variable over its full dynamic range:

- Fiducial count
- GPS UTC time
- GPS latitude, longitude, UTM easting, northing and elevation above ellipsoid
- Raw magnetic total field
- Calibrated radar altimeter output
- Three Fluxgate channels
- Raw Potassium counts
- Raw Thorium counts
- Raw Uranium counts
- Raw upward-looking Uranium counts

Raw Total Count  
Raw Cosmic counts  
Live Time  
Downward Spectrum

The base station will record the following information digitally in a format that enables the recording of each variable over its full dynamic range.

GPS time (used as fiducial number)  
GPS raw satellite range information  
Raw magnetic total field

All survey parameters including raw magnetic total field, electronic positioning, radar altimeter, and time and fiducial markers will be recorded digitally during data acquisition in flight. The magnetic base station will record total magnetic field and GPS time.

The data acquisition system organizes the data in a form directly suited to building the processing database. This digital file structure has for each traverse and control line a unique line number and segment number. The base station magnetic profile and GPS coordinates are added to the database using GPS time for alignment.

## **7.4 DATA COMPILATION AND MAP PRESENTATIONS**

The NSG Field-Mapper PC based computer compilation system will be used to process the collected geophysical data on-site as the survey progresses. The 'on-site' processing will enable the Client to review the magnetic data to evaluate targets to make a qualified decision regarding any changes to the survey quantity and size. This will allow the selection of "in-fill" or area extensions. The preliminary data will be sent via FTP site (assuming reasonable speed internet connection is available) for the client's review at least once a week (more often should the client require).

### **7.4.1 Magnetic**

#### **7.4.1.1 Field Data Processing**

After collecting flight and base station data, flight data will be imported to Oasis montaj using a NSG template that includes all project data channels. Next flight data will be windowed to only include flight path data within the survey block using custom NSG script that will be developed for the survey areas.

Magnetic flight data from the tail will then be duplicated to ensure original raw data is not modified in any way. Profiles for the duplicated channels are then checked for visible noise spikes. Any noise spikes are then cleaned manually and interpolated. From there, field staff will run an automated script that will look for any missed noise spikes. This automated script employs a 4th difference algorithm to identify noise spikes in magnetic data. After other channels (radio altimeter, flux gate profiles etc.) are inspected for normal behavior that database is prepared for magnetic compensation. Using QC Tools, compensation coefficients are applied to the cleaned magnetometer channel and the database is saved.

From here, NSG staff will import base station data into Oasis montaj using a NSG template. Base station data is duplicated to maintain a raw channel and then checked for visible noise spikes. After noise spikes have been removed and interpolated, a 101 (or other job specific) low pass filter is applied to base station magnetic channel and the database is saved.

Next, the flight and base station databases are merged, synchronized (using the GPS clock channel recorded by both systems), compressed, encrypted and sent to NSG's secure server in Toronto, for in-office QA/QC and processing procedure.

NSG field staff from there will updated and complete all daily logs (weekly progress report, daily procedures checklist, weekly summary meeting etc.).

#### **7.4.1.2 Post-Field**

As the data being received from the field on day-to-day basis it is reviewed for QA/QC once again to insure that nothing got missed in the field. The data is checked for quality of magnetic signal from all sensors, including the base station magnetometer, fluxgate magnetometer, radar altimeter, line deviations etc. The profiles of the above data are plotted and checked on line-by-line basis. Algorithms like 4th-difference are used to check the CS3 signal.

After the data has been QA/QC checked it is merged with an ongoing master database. Where the following data processing steps take place:

- 1) Diurnal correction - subtracted directly from the aeromagnetic measurements to provide a first order diurnal correction. The mean of base station readings is added back to the data.
- 2) Heading error correction - using pre-constructed heading table.

- 3) Lag correction – to correct for sensor-to-GPS offset.
- 4) Simple Leveling - a survey line/control line network will be created in order to determine differences in magnetic field at the line intercepts. The differences will be calculated and tabulated, then used to guide subsequent manual leveling on any lines or line segments which required adjustments. See image below for an example of contour Total Magnetic Intensity (TMI) map produced after Simple Leveling was applied.
- 5) Microleveling – depending on the Simple Leveling results a Microleveling might be needed in order to further correct the data for linear line-to-line noise. The technique used will be the one developed by Paterson, Grant & Watson Limited and available through Geosoft Oasis montaj with the mutually accepted parameters.
- 6) IGRF correction - The total field strength of the International Geomagnetic Reference Field (IGRF) 2005 model will be calculated for every data point, based on the spot values of latitude, longitude and GPS altitude, using the 2005 model. This IGRF will be removed from the measured survey data on a point-by-point basis. The mean of IGRF readings is added back to the data.

#### **7.4.1.3 Magnetic data filtering and gridding**

A cosine filter (e.g., 31-51 points) will be applied to 50Hz data before re-sampling the data to 10Hz.

The TMI grid will be produced using bi-directional gridding technique, with 20 m cell size (or other suitable size depending on liner spacing) and Akima spline across and down lines.

### **7.4.2 Radiometric**

#### **7.4.2.1 Field Data Processing**

After collecting flight data, the radiometric data will be imported to Oasis montaj using a NSG template that includes all project data channels. Next flight data will be windowed to only include flight path data within the survey block. After, an in house-developed radiometric processing GX will be run on the database, which will apply the following corrections:

##### **7.4.2.1.1 Pre-filtering**

The cosmic and radar altimeter channels will be processed with a 10-20 point and 5 point low pass filter respectively to remove spikes.

#### **7.4.2.1.2 Live Time correction**

All the elements including upward looking Uranium and Total Count will be corrected for Live Time using the following formula:

$$Cl_t = C_{raw} \times (1000/LT)$$

Where:

- $Cl_t$  is the live time corrected channel
- $C_{raw}$  is the raw channel
- $LT$  is the Live Time channel

#### **7.4.2.1.3 Aircraft and Cosmic Background**

Aircraft background and cosmic stripping corrections will be applied to the Total Count, Potassium, Uranium, Thorium and upward Uranium channels using the following formula:

$$C_{ac} = Cl_t - (ac + bc \times Cosf)$$

Where:

- $C_{ac}$  is the background and cosmic corrected channel
- $Cl_t$  is the live time corrected channel
- $ac$  is the aircraft background for this channel
- $bc$  is the cosmic stripping coefficient for this channel
- $Cosf$  is the filtered cosmic channel

All negative counts after this correction step will be replaced with zeroes.

#### **7.4.2.1.4 Compton Stripping**

Following the radon corrections for Uranium and Total Count, the potassium, uranium and thorium will be corrected for spectral overlap. First the stripping ratios  $\alpha$ ,  $\beta$ , and  $\chi$  were modified

according to altitude. Then an adjustment factor based on the reversed stripping ratio ( $a$ ), uranium into thorium, was calculated.

$$\alpha h = \alpha + hef \times 0.00049$$

$$\beta h = \beta + hef \times 0.00065$$

$$\chi h = \chi + hef \times 0.00069$$

Where:

- $\alpha, \beta, \chi$  are the Compton stripping coefficients
- $\alpha h, \beta h, \chi h$  are the height corrected Compton stripping coefficients
- $hef$  is the height above ground in meters

The stripping corrections are then carried out using the following formulas:

$$ar = \frac{1}{1 - a\alpha h}$$

$$Th_c = (Th_{bc} - aU_{rc}) \times ar$$

$$U_c = (U_{rc} - Th_{bc}\alpha h) \times ar$$

$$K_c = K_{bc} - \beta h Th_c - \chi h U_c$$

Where:

- $U_c, Th_c,$  and  $K_c$  are corrected Uranium, Thorium and Potassium
- $\alpha h, \beta h, \chi h$  are the height corrected Compton stripping coefficients
- $U_{bc}, Th_{bc},$  and  $K_{bc}$  are background and cosmic corrected Uranium, Thorium and Potassium
- $ar$  is the backscatter correction
- $a$  is the reverse stripping ratio U into Th

All negative counts after this correction step will be replaced with zeroes.

#### **7.4.2.1.5 Attenuation Corrections**

The Total Count, Potassium, Uranium and Thorium data will then be corrected to a nominal survey altitude according to the equation:

$$Ca = C \times e^{-\mu(h_0-h)}$$

Where:

- $Ca$  is the output altitude corrected channel
- $C$  is the input channel
- $\mu$  is the attenuation correction for that channel
- $h$  is the radar altimeter height, in metres
- $h_0$  is the nominal survey altitude used as datum

All negative counts after this correction step will be replaced with zeroes.

#### **7.4.2.2 Office Data Processing**

All of the above calibration procedures, tests and corrections applied in the field will be reviewed for QA/QC by assigned office QA/QC and data processing person .

#### **7.4.2.3 Radiometric grids**

Grids of Potassium, Thorium, Uranium and Total Count will be produced using bi-directional gridding technique, with 25 m cell size (or other suitable size) and Akima spline across and down lines.

## **8. FINAL PRODUCTS**

The following is the list of items that will be delivered to the Client:

### **Hard copies (2 copies):**

- Ternary map of Th, U and K (1:20,000 scale)
- Map of Potassium (1:20,000 scale)
- Map of Thorium (1:20,000 scale)
- Map of Uranium (1:20,000 scale)
- Map of Total Count (1:20,000 scale)
- Map of Total magnetic Intensity (1:20,000 scale)
- 1<sup>st</sup> order Vertical Derivative (1:20,000 scale)
- Digital Terrain Model (1:20,000 scale)
- Final Logistics Report

### **Soft copies (2 copies):**

- Ternary map of Th, U and K at 1:20,000 scale
- Grid and map of Total Magnetic Intensity at 1:20,000 scale
- Grid and map of Potassium counts at 1:20,000 scale
- Grid and map of Thorium counts at 1:20,000 scale
- Grid and map of Uranium counts at 1:20,000 scale
- Grid and map of Total Count at 1:20,000 scale
- Grid and map of 1<sup>st</sup> order Vertical Derivative at 1:20,000 scale
- Grid and Map of Digital Terrain Model at 1:20,000 scale
- Final Logistics Report
- Radiometric data database in Geosoft gdb format including all raw data and height corrected Potassium, Thorium, Uranium, and Total Count
- Magnetics data database in Geosoft gdb format including raw data, base station, compensated, base station corrected, IGRF corrected, heading corrected, lag corrected, simple leveled, and microleveled (optional) total field.
- Database and channel descriptions file in Excel format
- Weekly and Line Progress report



**9. TIME SCHEDULE**

The project will start on July 13, 2011.

## **10. TERMINATION**

In the event that the geophysical platform or equipment becomes inoperable, NSG will proceed with diligence to rectify the problem within a reasonable period of time. If within the aforementioned period of time NSG fails to rectify the problem, the Client may, at their discretion, terminate the work under this Proposal in full or in part. In the event of such termination, the Client shall be obliged to pay NSG for services rendered only up to the date of receipt of a written notice of such termination and for documented expenses incurred by NSG prior to the date of receipt of termination notice, and for reasonable cancellation and demobilization costs.

**11. LOCAL LICENSES, PERMITS AND CUSTOMS**

Client will take the responsibility for obtaining all local licenses and permits required to perform the services. Out of pocket costs for permitting will be reimbursed by the client.

## **12. GENERAL CONDITIONS**

NSG will carry out the agreed services in a proper and workmanlike manner with a high standard of safety and in accordance with the laws, rules and regulations applicable to the project location.

At all times during the term of this Proposal, the NSG or its subcontractors shall carry and maintain at its own expense, work insurance protection of the kinds and in the minimum amounts set forth below:

### **12.1 NSG Liability Insurance**

- Employer's Liability and Workmen's Compensation insurance to cover employees furnished by NSG including:
  - (a) Statutory Workmen's Compensation benefits in compliance with the laws of the state, province or country in which the aircraft operations under this Proposal will be performed;
  - (b) Employer's Liability to have limits of not less than \$5,000,000 per person, and \$5,000,000 per accident;
  - (c) Employer's Liability applicable to all provisions outlined above with limits not less than \$5,000,000 each person, \$5,000,000 each occurrence.
- Comprehensive General Liability Insurance. Such insurance shall cover all operations in all provinces, states and countries in which the aircraft operation or services may be performed by NSG hereunder and shall include the following:
  - (a) Limits of liability: not less than \$5,000,000 for death or injury of any one person, \$5,000,000 in the aggregate for all persons injured or killed as the result of any one accident, and \$5,000,000 for loss of or damage to property resulting from any one accident.
  - (b) Contractual liability coverage for NSG's obligations hereunder;

### 13. CHARGES AND PAYMENT TERMS

#### Total estimated cost for Survey and Map Production

Block Names	Line Spacing (Traverse/Control)	Estimated Total Line Km	Price per Line Km (\$CAD)*/**	Mob/Demob (\$CAD)*	Estimated Total***/**
BBB	100m/1000m	435	\$92.31	\$4,800	<b>\$ 83,171.10</b>
Dade	100m/1000m	395	\$96.75		

**Stand-by of CAD \$1,430.00/day** will be charged on those days where flying is not possible due to inclement weather, atmospheric conditions, labor unrest, government intervention or other stoppages beyond the control of the contractor.

\*Note: The line Km and mobilization/demobilization rates are based on condition that the an additional block (known as Klaza Extension, as per the contract with Rockhaven Resources Ltd.) will be flown during the same period as BBB and Dade blocks. The total estimated survey line Km will be 1,295.

\*\*Note: The line Km rate is based on condition that client provides sufficient amount of Jet fuel for the helicopter at the following sites: Klaza camp, Carmacks.

\*\*\*Note: The estimated total will depend on the final number of line Km to be flown. The actual line Km distances may be slightly less or more than estimated.

\*\*\*\*Note: These prices are net of all local taxes.

#### Payment Schedule

An initial payment, due on signing and mobilization: 50% of selected survey Plan price

Second payment, due on completion of flying: 40% of selected survey Plan price

On delivery of final maps and reports: Balance

All invoices are due and payable upon submission at the Client's address indicated in Section 1 of this Survey Agreement. A service charge of 0.4 % per week on unpaid balance is payable on all overdue accounts.

The payment schedule is subject to negotiation should the proposed schedule not conform to the client's norms and regulations.

Funds will be paid by wire transfer to:

In CAD Funds

Beneficiary: New-Sense Geophysics Limited  
Bank: The Bank of Nova Scotia  
Account #: 02011  
Transit #: 11452  
Institution Code: 002  
Swift: NOSCCATT  
ABA Routing: 026002532  
Address: 880 Eglinton Avenue E. at Laird Drive  
Toronto, Ontario, M4G 2L2, Canada

NEW-SENSE GEOPHYSICS

Name (print): Andrei Yakovenko

Title: V.P. Operations

Date:

July 13, 2011

Signature:



WOLVERINE MINERALS CORP..

Name (print): Heather Smith

Title: Project Geologist / Supervisor

Date:

July 13, 2011

Signature:





T.N.  
Grid north  
22°58'  
22'48"  
Annual change decreasing 22.8

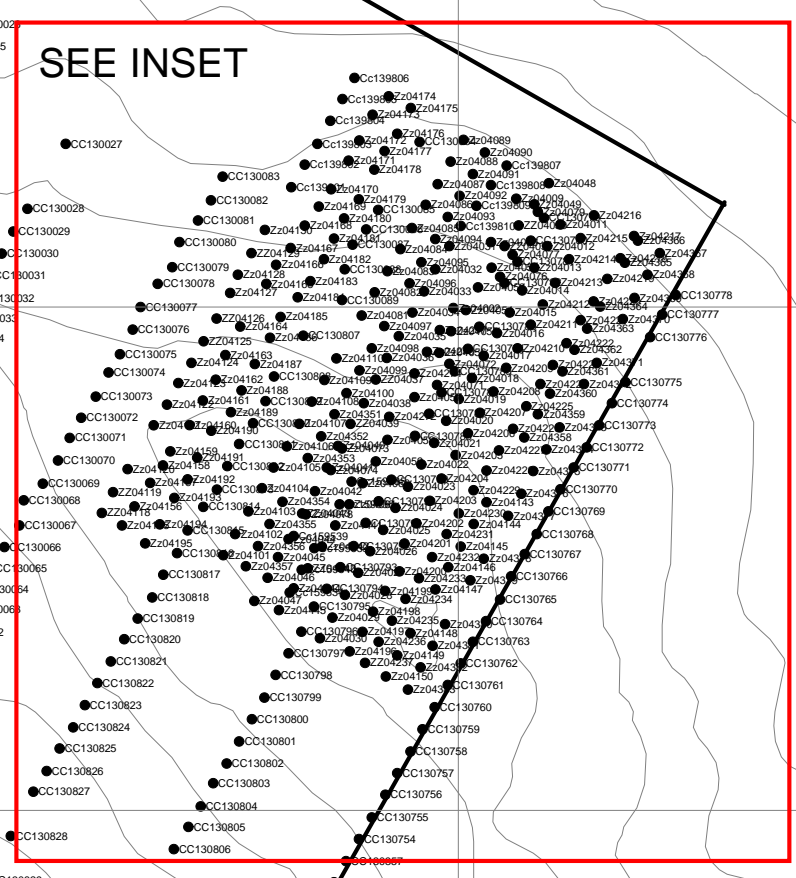
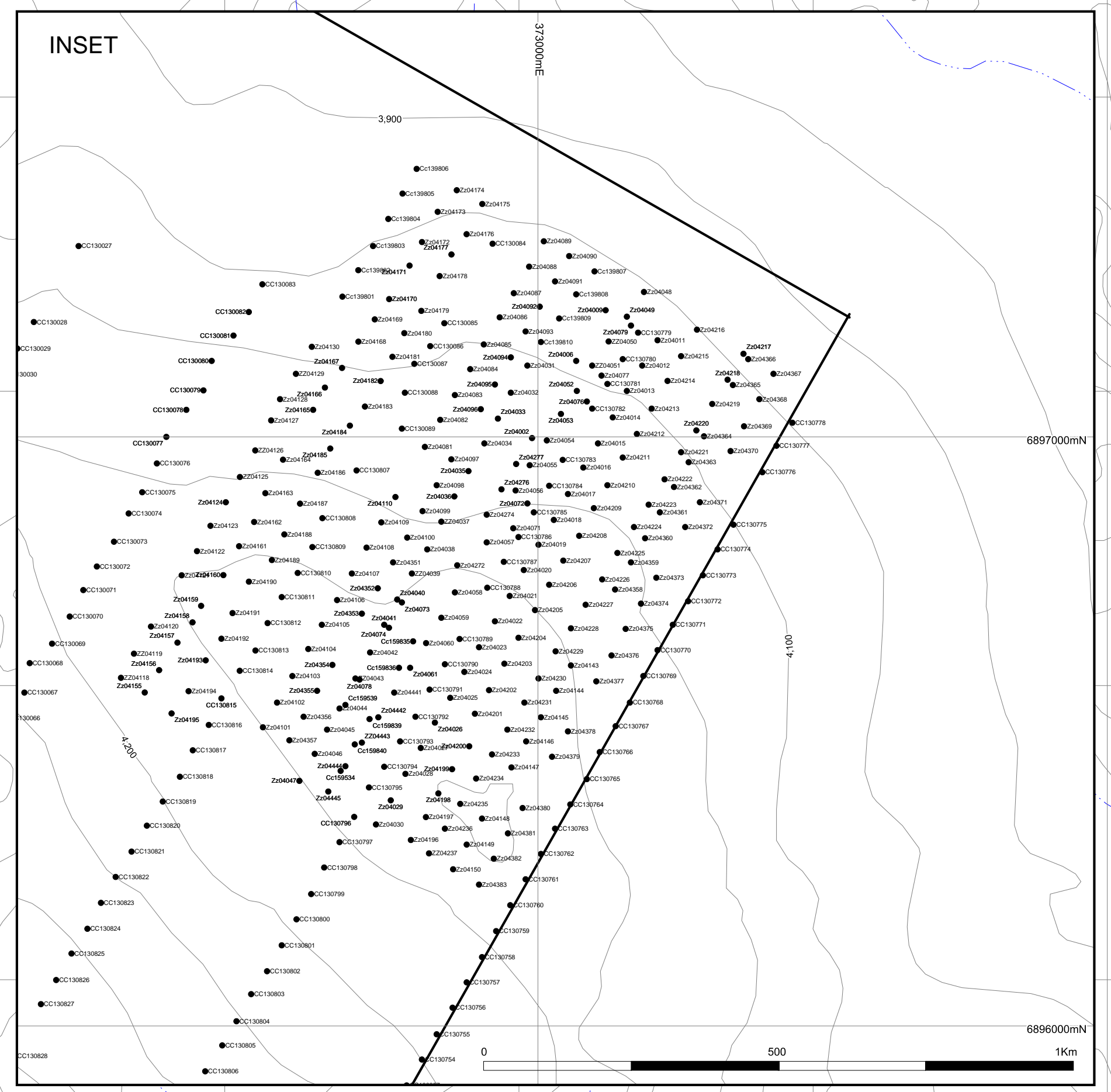
6902000N  
6900000N  
6898000N  
6896000N

● 2011 Soil Samples  
+ 2011 Silt Samples

**WOLVERINE MINERALS CORP.  
STRATEGIC METALS LTD.**

FIGURE 8  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**SIEVE SILT AND SOIL  
SAMPLE LOCATIONS**  
BBB PROPERTY

0 500 1km  
UTM ZONE 8, NAD 83, 116103 and 04  
FILE: ...2011686\Figures\888\_F\_8\_SiltSoil\_Sample\_Locations.wor DATE: MARCH 2012





QW28869

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
1016 – 510 West Hastings Street  
Vancouver, B.C. V6B 1L8

Telephone: 604-688-2568

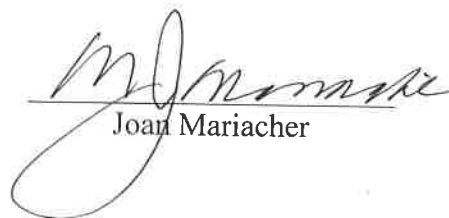
Fax: 604-688-2578

AFFIDAVIT



I, Joan Mariacher, of Vancouver, B.C. make oath and say:

That to the best of my knowledge the attached Statement of Expenditures for exploration work on the BBB 1-255 mineral claims on claim sheet 115I/3 and 4 is accurate.

  
Joan Mariacher

Sworn before me at Vancouver, B.C.

this 13th day of October 2011.



Barrister & Solicitor

**IAN J. TALBOT**  
Barrister & Solicitor  
281 East 5th Street  
North Vancouver  
British Columbia  
Canada V7L 1L9



Statement of Expenditures  
BBB 1-255 Mineral Claims  
October 1, 2011

Expenses (including management fee)

Field room and board – 133 mandays @ \$190/manday	\$ 28,302.40
Capital Helicopters (1995) Inc.	32,312.47
New-Sense Geophysics Limited	40,308.84
ALS Chemex	<u>51,350.46</u>
	\$152,274.17