

**Ministry of Forests, Mines and Lands**  
BC Geological Survey


**Assessment Report**  
**Title Page and Summary**

TYPE OF REPORT [type of survey(s)]: Geochemical

TOTAL COST: \$34,894.59

AUTHOR(S): Thomas H. Carpenter

SIGNATURE(S):



NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): n/a

YEAR OF WORK: 2016

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): Event 5636865, February 7, 2017 and Event 5648252, May 04, 2017

PROPERTY NAME: Gnat Pass

CLAIM NAME(S) (on which the work was done): Titles 512878, 525819, 604847

COMMODITIES SOUGHT: copper

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 140I 001

MINING DIVISION: Liard

NTS/BCGS: 104I/4W, 5W 104I.021

LATITUDE: 58 ° 15 ' 23 " LONGITUDE: 129 ° 50 ' 00 " (at centre of work)

OWNER(S):

1) Bearclaw Capital Corp

2) \_\_\_\_\_

MAILING ADDRESS:

215 - 3540 West 41th Avenue

Vancouver, BC, V6N 3E6

OPERATOR(S) [who paid for the work]:

1) Bearclaw Capital Corp

2) \_\_\_\_\_

MAILING ADDRESS:

as above

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Upper Triassic Stuhini Group, Jurassic Hazelton Group, Gnat Pass intrusion, andesite, basalt, porphyritic andesite,

sericite, silicification, hematite, tourmaline, cataclastic, chalcopryrite, pyrite, bornite, magnetite, greenstone, carbonate alteration

thrust fault

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 660, 842, 845, 1106, 20408, 23576, 25202, 28518, 33349, 33659A, 33659B, 34230

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
<b>Ground, mapping</b>	_____	_____	_____
<b>Photo interpretation</b>	_____	_____	_____
<b>GEOPHYSICAL (line-kilometres)</b>			
<b>Ground</b>			
<b>Magnetic</b>	_____	_____	_____
<b>Electromagnetic</b>	_____	_____	_____
<b>Induced Polarization re-interpretation</b>	_____	512878	3774.59
<b>Radiometric</b>	_____	_____	_____
<b>Seismic</b>	_____	_____	_____
<b>Other</b>	_____	_____	_____
<b>Airborne</b>			
_____	_____	_____	_____
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
<b>Soil</b> 93	_____	512878	21000.00
<b>Silt</b> 10	_____	512878, 525819, 604847	2400.00
<b>Rock</b> 28	_____	512878, 525819, 604847	4220.00
<b>Other</b>	_____	_____	_____
<b>DRILLING (total metres; number of holes, size)</b>			
<b>Core</b>	_____	_____	_____
<b>Non-core</b>	_____	_____	_____
<b>RELATED TECHNICAL</b>			
<b>Sampling/assaying</b> silt, rock and soil analyses	_____	_____	3500.00.
<b>Petrographic</b>	_____	_____	_____
<b>Mineralographic</b>	_____	_____	_____
<b>Metallurgic</b>	_____	_____	_____
<b>PROSPECTING (scale, area)</b>			
_____			
<b>PREPARATORY / PHYSICAL</b>			
<b>Line/grid (kilometres)</b>	_____	_____	_____
<b>Topographic/Photogrammetric (scale, area)</b>	_____	_____	_____
<b>Legal surveys (scale, area)</b>	_____	_____	_____
<b>Road, local access (kilometres)/trail</b>	_____	_____	_____
<b>Trench (metres)</b>	_____	_____	_____
<b>Underground dev. (metres)</b>	_____	_____	_____
<b>Other</b>	_____	_____	_____
<b>TOTAL COST:</b>			34894.59

ASSESSMENT REPORT

on

STREAM SEDIMENT SAMPLING, ROCK SAMPLING

and

SOIL SAMPLING SURVEYS

and

GEOPHYSICAL RE-INTERPRETATION

on the

GNAT PASS PROPERTY

EXPLORATION ON MINERAL TITLES: 512878, 525819 AND  
604847

BCGS 104I.021

DEASE LAKE AREA

LIARD MINING DIVISION, BC

NTS:	104I/4W, 104I/5W
LATITUDE:	58° 15' 23" N
LONGITUDE:	129° 50' 0" W
OWNER:	Bearclaw Capital Corp.
OPERATOR:	Bearclaw Capital Corp.
CONSULTANTS:	Discovery Consultants
AUTHOR:	Thomas H. Carpenter, P.Geo.
DATE:	May 4, 2017

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## **1.0 SUMMARY**

Sulphide copper mineralization occurs on MTO title 512878 in the Dease Lake area of the Liard Mining Division, B.C. Exploration work has been carried out intermittently on the Property from 1960 to the present.

A field program, comprising stream sediment sampling (10 samples), rock sampling (28 samples), and soil sampling (93 samples), was carried out on the Gnat Pass Property from September 13 to 22, 2016.

The 2016 exploration program on the Gnat Pass Property has proved successful in defining anomalous copper-in-soil values at the western edge of title 512878, in a previously un-sampled area.

A re-interpretation of induced potential ("IP") data obtained from Quartz Mountain's 2012 geophysical survey and Bearclaw's 2005 geophysical survey was also completed. From an examination of the Quartz Mountain 2013 drillhole results, it is apparent that mineralization does not continue to depth below the mineralized Hill Zone. Quartz Mountain's 2013 geological interpretation, though not specifically mentioned in the 2013 assessment report, shows in the drillhole sections mineralized middle-upper Triassic Stuhini Group volcanic rocks and late Triassic Gnat Pass intrusive rocks overlying unmineralized younger lower-middle Jurassic Hazelton sediments. The Hill Zone is therefore interpreted as being thrust southerly from its original location.

The re-interpretation of the 2012 IP data shows a potential IP target at depth to the north of the IP anomaly at the Hill Zone, and which may be the root of the mineralization at the Hill Zone.

The results of the 2016 surveys are presented and discussed in this report.

## **2.0 LOCATION AND ACCESS**

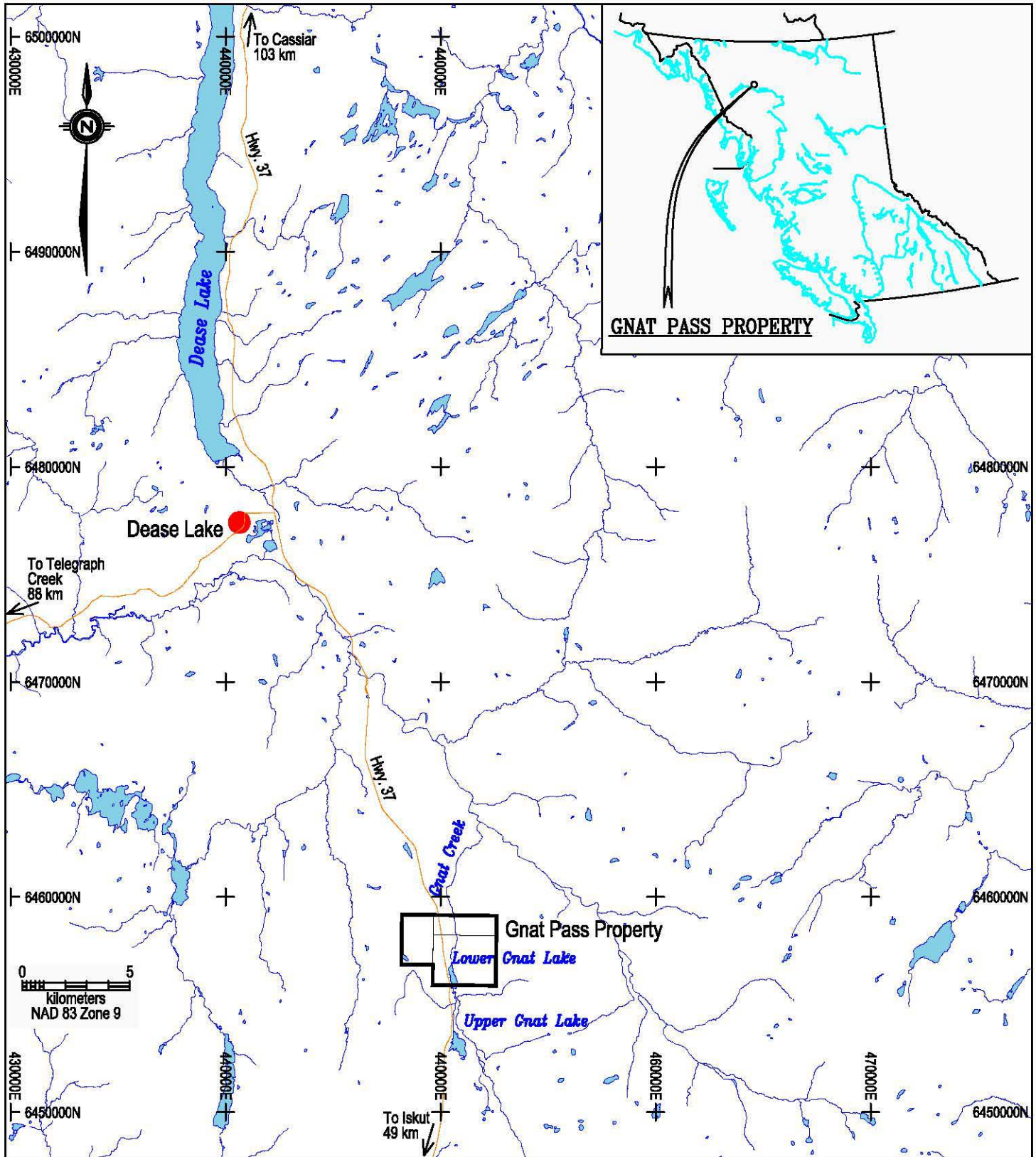
The Gnat Pass property (the "Property") is centred at latitude 58° 15' 23" N and longitude 129° 50' 0" W on the Tanzilla Plateau along the eastern edge of the Stikine Range (Figure 2.1).

The Property is 23.5 km south of the town of Dease Lake and straddles Highway 37 (the Cassiar-Stewart Highway). Gnat Creek flows north through the west-central portion of the Property from the north end of Lower Gnat Lake.

Access to the Property is excellent using the Cassiar-Stewart Highway. Numerous logging and drill roads cross the western portion of Property and are useable by foot or 4-wheel-drive vehicle. After crossing Gnat Creek, 4-wheel-drive access on old drill roads will reach the centre of the Property. Fording Gnat Creek by truck can be problematic depending on seasonal precipitation.

### **3.0 TOPOGRAPHY and VEGETATION**

The westernmost part of the Property overlies a flat river valley covered with grass and scrub alders. The eastern part of the Property overlies a knoll with elevations ranging from 1,200 metres above sea level at the plateau floor to about 1,410 metres above sea level at the top. Vegetation here is generally mature fir and spruce trees, with the upper elevations being sub alpine and rocky, with thick alder.



**DISCOVERY** Consultants

Bearclaw Capital Corp.

Gnat Pass Property

2016 Prospecting  
**Location and Access**

Date: May 1, 2017	Project: 678	Scale: 1:250,000	N.T.S.: 104I	Mining Div: Liard	Figure: 2.1
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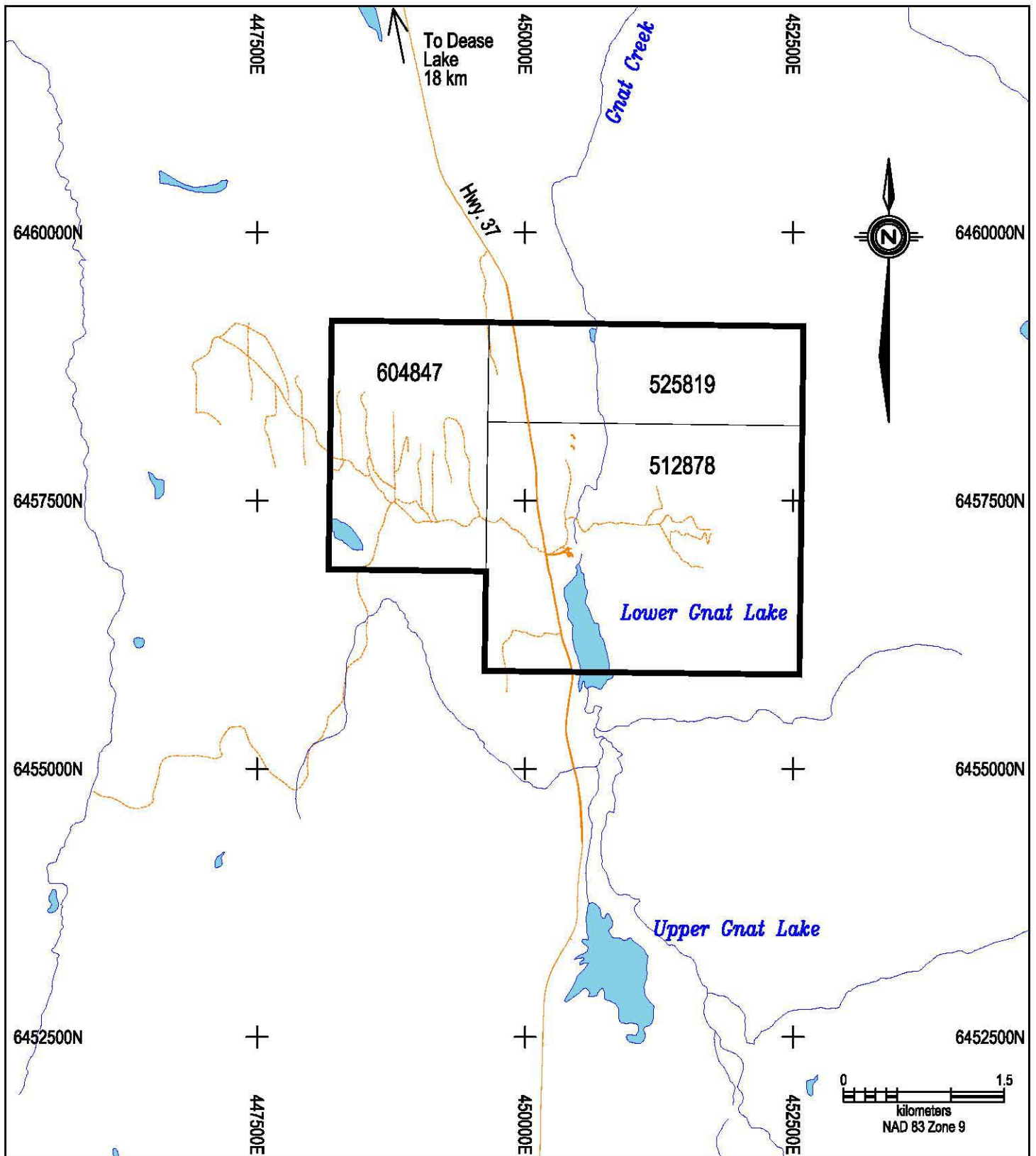


## **4.0 PROPERTY**

The Gnat Pass property consists of three Mineral Title Online (“MTO”) titles numbered 512878, 525819 and 604847, shown on Figure 4.1 and registered in the name of Bearclaw Capital Corp (“Bearclaw”).

<u>Title Number</u>	<u>Area (ha)</u>	<u>Owner of Record</u>	<u>Anniversary Date</u>
512878	681	Bearclaw Capital Corp.	January 1, 2020 *
525819	272	Bearclaw Capital Corp.	January 1, 2020 *
604847	340	Bearclaw Capital Corp.	January 1, 2020 *

\* Pending acceptance of this report



**DISCOVERY** Consultants

Bearclaw Capital Corp.

Gnat Pass Property

2016 Prospecting  
**Tenure Locations**

## **5.0 HISTORY**

Mineralization was first discovered in the area of the Property in 1960 by Cassiar Asbestos Corporation, but only intermittent work was done until 1964 when Newconex Canadian Exploration began exploration of the widespread, copper mineralization found in Gnat Pass.

In 1965, Lytton Minerals Ltd carried out a program of geological mapping, geophysical and geochemical surveys. This work included four bulldozer trenches totalling 240 metres and 1,400 m of diamond core drilling in 10 holes.

In 1966, Hudson Bay Mining and Smelting Limited began work on the Property. Diamond drilling, totalling 2,710 m in 14 holes, was completed, along with geological mapping and magnetometer and geochemical surveys.

In 1967, Hudson Bay continued with geological mapping, geochemical, induced polarization (IP) and magnetometer surveys and 6,717 m of diamond core drilling in 41 holes. Additional work in 1968 included 6,622 m of diamond drilling in 37 holes.

In 1989, Integrated Resources Ltd. carried out a diamond drill program comprising 935 m in eight holes, attempting to test the precious metal content of previously explored copper mineralization.

A limited 56 soil and 42 rock sampling program was carried out on the Property in 1993 by Discovery Consultants ("Discovery") for the Predator Syndicate.

In 1996, Discovery carried out a larger 577 sample soil program and a magnetometer survey on the Property. In addition, 19 drillholes in storage on the Property were logged and 46 holes sampled for gold and copper content. Historic holes were recovered, cross-stacked and/or stored in core racks for future reference. In the early 2000s the building housing a portion of the historic core was vandalized and burnt to the ground.

In 2005, IP and magnetometer surveys were carried out on cut lines on the Property. In total, 34 line-km were surveyed on behalf of Bearclaw. A review and interpretation of the geophysical data were subsequently carried out.

In 2011, Finsbury Exploration Ltd carried out exploration over the Property as part of a soil and silt sampling program over a much larger 168,983 hectare property area known as the Galaxie property. Soil sampling was carried out on a grid immediately west of the Property. Silt sampling was carried out on drainages to the southwest of the Property.

In 2012, Quartz Mountain Resources Ltd (“Quartz Mountain”) conducted systematic soil and IP surveys over eight high-priority grids and two target areas identified by the 2011 stream sediment and soil geochemical results. This work included an IP survey over almost the entirety of title 512878 and the southeastern third of title 604847.

In 2013, Quartz Mountain carried out a two-hole diamond core drillhole program comprising 1,164 m on title 512878. The objective of the program was to test known mineralization to depth at the principal mineralized area on the Property, the Hill Zone.

## **6.0 GENERAL GEOLOGY**

The Gnat Pass Property lies in a north-trending valley at the north end of Lower Gnat Lake. A substantial portion of the Property’s lower elevations is covered by extensive overburden, obscuring the geology.

Regional mapping by Gabrielse (1998) indicates that the region is underlain by rocks of the Upper Triassic Stuhini Group consisting of andesite and basalt flows, tuffs and breccias, with some sedimentary rocks intruded by small stocks and sills of porphyritic andesite and basalt. The Property is adjacent to hornblende quartz monzonite and granodiorite of the Jurassic-Triassic Hotailuh batholith, which occurs to the south.

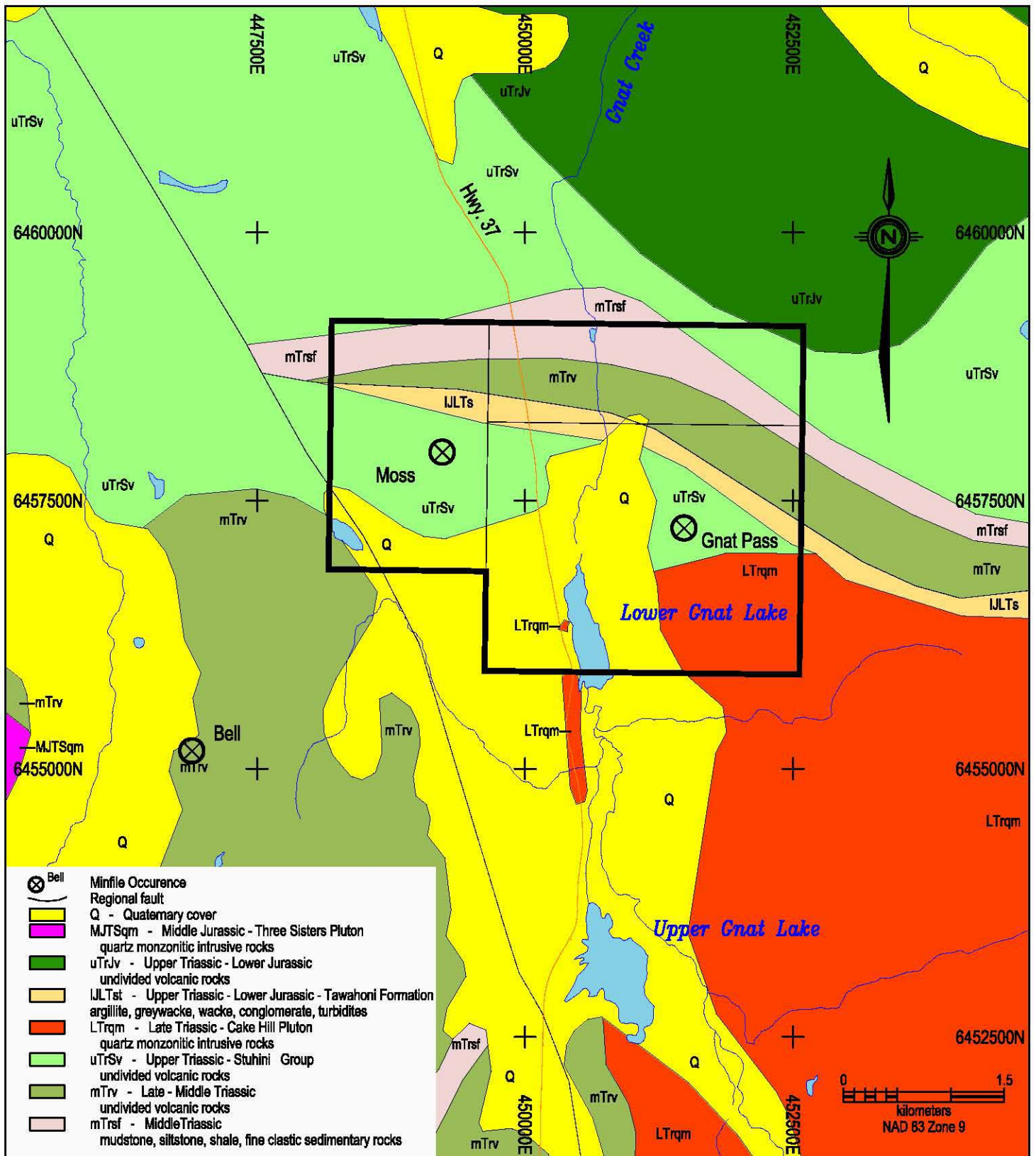
On the slopes east of the Property, beds of greywacke and basic volcanic rocks are reported to dip between 35 and 40 degrees to the northeast. Major north-trending faults cutting the area are inferred.

Carbonate alteration is widespread, both disseminated throughout the rocks and as veinlets. Sericite and silicification are patchy, while iron-oxide staining and hematite are widespread. Chlorite occurs as fracture fillings in the volcanic rocks, as do dense black veinlets of tourmaline. Rocks of all types usually exhibit some degree of cataclastic textures and variable evidence of deformation due to movement.

Mineralization consists of chalcopyrite, pyrite and traces of bornite. The sulphides commonly occur as blebs, stringers and skins on fracture surfaces in the altered andesitic greenstones and dark-green porphyritic andesites. Magnetite is common in the volcanic rocks and tends to concentrate with chalcopyrite.

North of the Property, regional mapping shows a series of east-west trending, north dipping thrust faults (for example, the Kehlechoa Fault), with older rocks being thrust southerly over younger rocks (van Straaten and Gibson, 2017). Although not mapped in the area of

the Property, a similar thrust was encountered in the 2013 drilling, with the mineralized middle-upper Triassic Stuhini Group volcanic rocks and late Triassic Gnat Pass intrusive rocks being thrust over unmineralized lower-middle Jurassic Hazelton sediments.



**DISCOVERY**

Consultants

Bearclaw Capital Corp.

Gnat Pass Property

2016 Prospecting  
Regional Geology

Date: May 1, 2017	Project: 678	Scale: 1:50,000	N.T.S.: 1041/4 & 5	Mining Div: Liard	Figure: 6.1
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## **7.0 WORK COMPLETED**

A field program of silt, rock and soil sampling was carried out on behalf of Bearclaw on the Property by personnel of Discovery during the period September 13 to September 22, 2016 (Figure 7.1). The Property was accessed using a 4-wheel drive vehicle, travelling on a daily basis from Dease Lake.

In addition, a re-examination of the IP data from the 2012 IP program was carried out in light of the results of the 2013 drilling program.

### **7.1 Stream Sediment Sampling**

#### **7.1.1 Sampling Method and Approach**

A stream sediment sampling program, comprising 10 samples, was performed during the field program. The sample collection method was designed to best evaluate the gold potential. Fieldwork was performed by a 2-person crew. The samples were collected by carefully shovelling stream sediments, sampling down through the sediment layers, into a -6 mesh stainless steel sieve (diameter 36 cm, depth 17 cm) that rested in a large aluminum pan containing water. Some liquid detergent was added to the wash water to prevent flotation of small metallic mineral grains. Using handles on the sieve, a rotary-type motion was used to sieve the sediments. The field samples ranged from 4 to 7 kg. Sieves and pans were thoroughly cleaned after each sample.

On the Property, samples were collected along first and second order tributaries as available. Ground control was carried out with the use of a hand-held Garmin 62GPS. The UTM coordinates were measured using NAD83, Zone 9, as the datum. At each location field observations about the sample site, float and in situ geology, as well as flow rates, were recorded. Sites were flagged and marked with an aluminum tag attached to a permanent object.

In total, 10 silt samples were collected for analysis. Samples were collected in plastic bags, placed in rice bags and shipped to Activation Analytical Laboratories ("Actlabs") in Kamloops, BC, for analysis. Samples were marked with identifiers made up of the project number, the letter "L" to designate a silt sample, and a three-digit sequential number.

#### **7.1.2 Sample Preparation, Analysis, QC/QA**

At Actlabs, the silt samples were dried at 60° C and sieved to -80 mesh (<177 microns), Actlab code S1. A 0.5 g sub-sample was digested in hot (95° C) aqua regia (HCl-HNO<sub>3</sub>-H<sub>2</sub>O); following this, the samples were analysed by inductively-coupled plasma mass spectrometry (ICP-MS) techniques for a multi-element suite of 36 elements (Actlab's Group

1DX/AQ200).

Gold analysis was also carried out using Actlab's code 1A2, which comprises analysis of a 30 gram sample using fire assay with an atomic absorption finish.

The laboratory inserted various analytical standards and analytical blanks within the batch. One duplicate sample was produced and analysed. No analytical problems were noted.

### **7.1.3 Results**

Figure 7.1 shows the locations of the silt sampling in relation to the Property boundaries. Copper and arsenic values are shown on Figures 7.2 and 7.3.

Copper values are generally low, with a maximum value of 76 ppm at the southwest corner of title 525819. Perhaps significantly, the two highest copper values of 74 and 76 ppm copper both occur in the same area, about 700 m north of anomalous copper-in-soil values at the western edge of title 512878 (Figures 7.2 and 7.4).

Arsenic values are also quite low, generally less than 10 ppm, with a maximum value of 24 ppm, coincident with the highest copper value.

The silt sample location information, together with compiled analytical and QC/QA results are shown in Appendix II and the certificates of analysis in Appendix V.

## **7.2 Rock Sampling**

### **7.2.1 Sampling Method and Approach**

Limited prospecting was conducted in areas of high IP results from the 2012 Geophysical survey with the hope of verifying surface mineralization to explain the geophysical targets. Rock samples were collected from outcrop or float material and placed in plastic bags. Samples were marked with identifiers made up of the project number, the letter "R" to designate a rock sample, the last initial of the sampler, and a three digit sequential number.

Sample locations were measured with a GPS, and field observations about the geology were recorded. Sample sites were flagged and marked with an aluminum tag attached to a permanent object.

In total, 28 rock samples were collected for analysis. These samples were placed in rice bags and shipped to Actlabs in Kamloops, BC for analysis. Additional specimens demonstrating the varying rock types of the targets visited were kept for examination but not analysed.



### **7.2.2 Sample Preparation, Analysis, QC/QA**

At Actlabs, sample preparation comprised crushing the sample so that 80% passed -10 mesh and riffle split to produce a 250 gram subsample. This subsample was then pulverized so that 95% passed through a 105 micron screen (Actlab code RX1).

A 0.5 g sub-sample was digested in hot (95° C) aqua regia (HCl-HNO<sub>3</sub>-H<sub>2</sub>O); following this, the samples were analysed by inductively-coupled plasma mass spectrometry (ICP-MS) techniques for a multi-element suite of 36 elements (Actlab's Group 1DX/AQ200).

Gold analysis was also carried out using Actlab's code 1A2, which comprises analysis of a 30 g sample using fire assay with an atomic absorption finish.

The laboratory inserted various analytical standards and analytical blanks within the batch. Three duplicate samples were produced and analysed. No analytical problems were noted.

### **7.2.3 Results**

Maximum values of 479 and 406 ppm copper are contained in rock samples from east of Lower Gnat Lake and west of the Hill Zone (Figures 7.2 and 7.4). Gold analyses are not significant, with a maximum value of 105 ppb Au; and which are not coincident with anomalous copper values. Prospecting demonstrates areas low on the hill to have buried and subdued outcrops of pyritic volcanic material, some of which had been trenched previously. It is believed that this may explain some of the high IP background. Further east to southeast and at higher elevations, the intrusion noted shows little mineralization. The rock descriptions are also shown on Figure 7.1.

The rock sample location information, together with rock descriptions, compiled analytical and QC/QA results are shown in Appendix III and the certificates of analysis in Appendix V.

## **7.3 Soil Survey**

### **7.3.1 Sampling Method and Approach**

Soil samples were collected at three locations:

- 1) a 1200 m by 800 m reconnaissance grid (0.96 km<sup>2</sup>) in the southeast portion of title 512878, with samples at 100 m intervals on north-south lines 200 m apart (63 samples)
- 2) two north-south lines 200 m long by 50 m apart, with 50 m intervals at the southwest corner of the above grid (9 samples) located over an IP high that had strongly hematitic topsoil
- 3) a 250 m by 300 m grid (0.08 km<sup>2</sup>) in northwest quadrant of title 512878, west of Highway 37. Samples were collected at 50 m intervals on east-west lines 100 m apart (24 samples).

All samples were collected with the aid of a handheld GPS.

Soil samples were collected, from the "B" horizon, placed in individually numbered kraft paper sample bags, and placed in rice bags and sent to Actlabs in Kamloops, BC, for analysis. Samples were marked with unique identifiers made up of the project number, the letter "S" to designate a soil sample, and a three-digit sequential number. In total, 93 soil samples were submitted and analysed.

### **7.3.2 Sample Preparation, Analysis, QC/QA**

At Actlabs, sample preparation comprised drying the samples at 60° C, and sieving the samples to -80 mesh, <177 microns (Actlab code S1).

A 0.5 g sub-sample was digested in hot (95° C) aqua regia (HCl-HNO<sub>3</sub>-H<sub>2</sub>O); following this, the samples were analysed by inductively-coupled plasma mass spectrometry (ICP-MS) techniques for a multi-element suite of 36 elements (Actlab's Group 1DX/AQ200).

Gold analysis was also carried out using Actlab's code 1A2 which comprises analysis of a 30 g sample using fire assay with an atomic absorption finish.

The laboratory inserted various analytical standards and analytical blanks within the batch. Duplicate samples, totalling 13, were produced and analysed. No analytical problems were noted.

### **7.3.3 Results**

Figure 7.1 shows the locations of the soil surveys carried out on the Property, principally on title 512878. Figures 7.2 and 7.4 show copper values and copper anomalies, respectively. Figures 7.3 and 7.5 show arsenic values and arsenic anomalies. The arsenic values show a good correlation with copper values. Arsenic may be used as a pathfinder in future programs.

Of the 93 soil samples collected, 12 contain copper values greater than 80 ppm, with a maximum value of 362 ppm.

Both copper and arsenic show coincident anomalies on the sampling grid emplaced at the western edge of title 512878 (Figures 7.4 and 7.5). As is evident, the copper-in-soil values over this grid are higher than samples collected over a grid emplaced over the Hill Zone. These samples correspond in part to a weak IP anomaly defined by the 2012 IP survey. As noted in Section 7.1.3, these samples are proximal to the weakly copper anomalous silt samples collected at the western edge of title 525819.

The rock sample location information, together with compiled analytical and QC/QA results are shown in Appendix IV and the certificates of analysis in Appendix V.

#### **7.4 IP Re-interpretation**

Raw data from the 2013 IP survey were supplied to Fritz Geophysics in Fairplay, Colorado for analysis. The proprietor of Fritz Geophysics, Mr. Frank Fritz, P.Eng., M.Sc., with over 38 years of mineral exploration experience in geophysics, specializes in the interpretation of various geophysical surveys.

Fritz's interpretation of the IP data is paraphrased as follows:

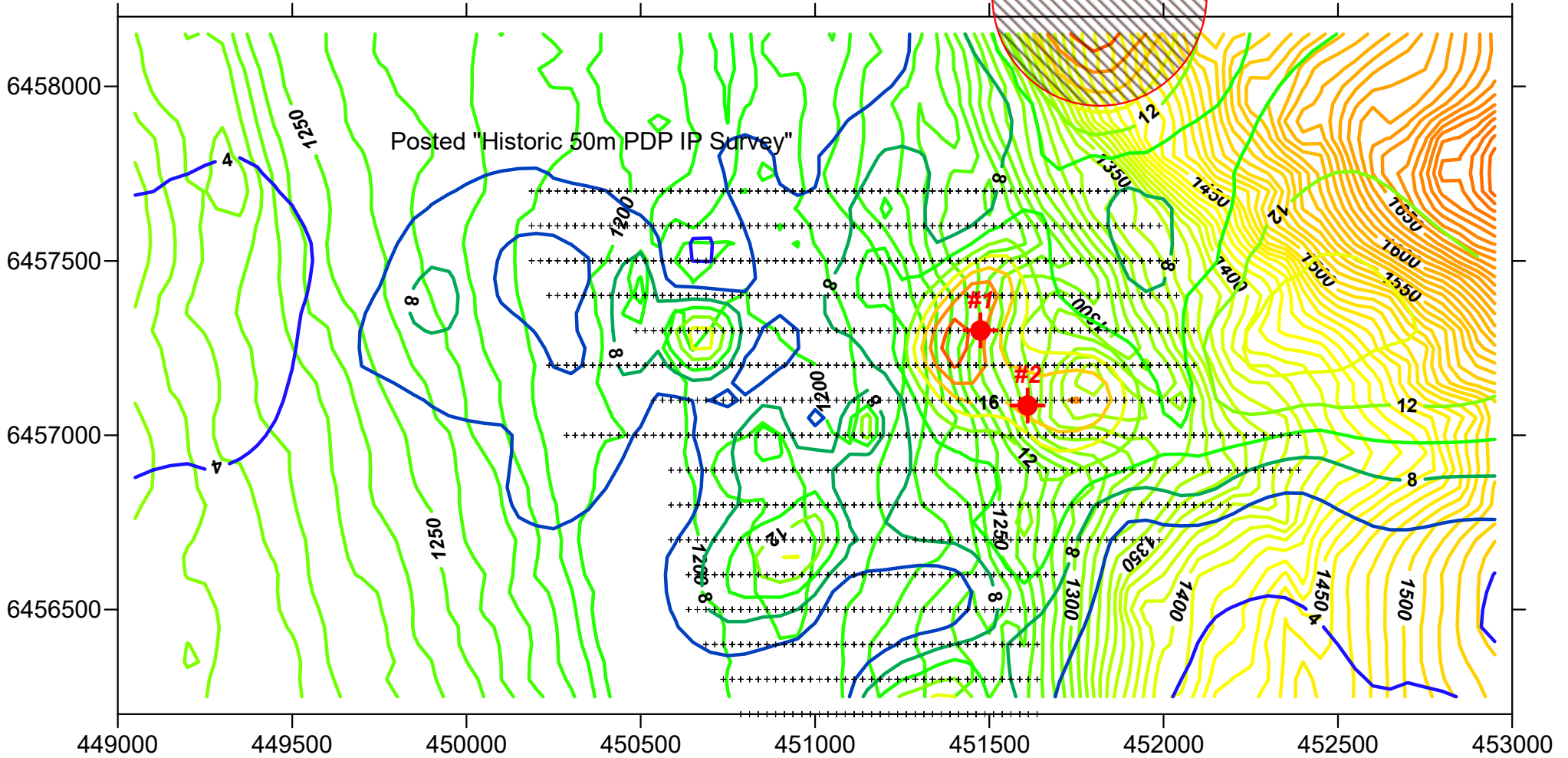
One of the difficult parameters to invert from an IP survey is the bottom of something. In this case the bottom of the known mineralization at the Gnat Pass (the "Hill Zone") is actually seen in the data. There is a bottom to the Hill Zone mineralization in the IP inversion. The resistivity inversion also shows a lower resistivity cover to the northeast, covering the deeper IP high at least a kilometre to the north of the surface indications. Both of these responses support the thrust fault as interpreted in the drill section.

The problem with the original IP plots is that they were based on a depth below surface. The topography on the Property goes up in elevation to the north and east so the plots did not cover the same level as lower elevations to the west and south that include the surface mineralization. Therefore the new interpretation plots the model at an elevation (1,100 m), not a depth. The two plots (Figures 7.6 and 7.7) show the plan and 3D views of the data, with the resistivities reduced and the surface mineralization IP high accentuated. The plots show a bottom to mineralization at the Hill Zone, in line with the geology encountered in the recent drilling.

The IP high centred at about UTM 451,800E - 6,458,200N, could very well be the base of the mineralization at the Hill Zone, but the data density in this area is very poor and the inversion is based on very limited data. Additional IP lines should be considered to better cover this area to define the deeper IP source. The current 200 m dipole survey could be extended to the north and the possibility of a 400 m dipole addition should be considered for lines of interest.

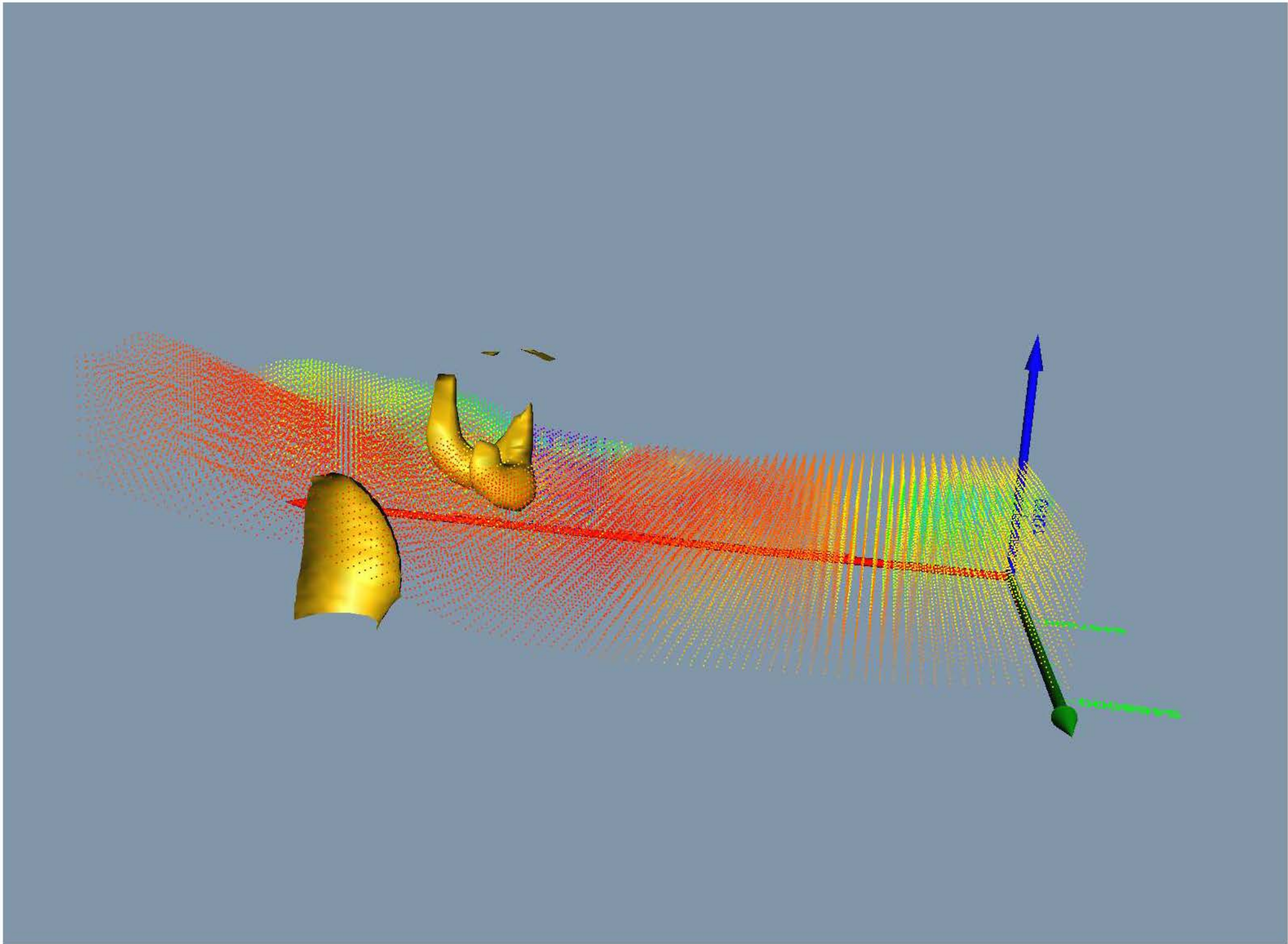
# GNAT PASS 3D Model Results

**Target?**



**Contoured 3D Model Inversion IP at 1,100m Elevation  
on Digital Elevation Model**

*Fritz Geophysics Feb 2017*



## **8.0 INTERPRETATIONS and CONCLUSIONS**

The 2016 exploration program on the Gnat Pass Property has proved successful in defining anomalous copper-in-soil values at the western edge of title 512878, in a previously un-sampled area. This is in spite of large portions of the Property being covered by glacial outwash channel comprising reworked till material - mainly sand, grit and gravel - that is not amenable to soil sampling.

A review of the 2012 IP results, in conjunction with the results of the Quartz Mountain 2013 drilling program has determined that copper mineralization at the Hill Zone at Gnat Pass does not extend to depth. Quartz Mountain's 2013 geological interpretation, though not specifically mentioned in the 2013 assessment report, shows in the drillhole sections mineralized middle-upper Triassic Stuhini Group volcanic rocks and late Triassic Gnat Pass intrusive rocks overlying unmineralized younger lower-middle Jurassic Hazelton sediments. The Hill Zone is therefore interpreted as being thrust southerly from its original location.

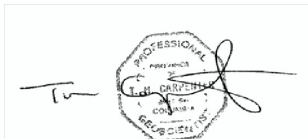
An IP anomaly at depth at the northeast corner of the 2012 IP grid is theorized to be the root of the Hill Zone.

## **9.0 RECOMMENDATIONS**

Additional soil sampling is recommended at the western edge of the Property. The copper-in-soil anomaly detected during the 2016 sampling program is open to the north, south and west. Highway 37 borders the anomaly to the east.

The current 200 m dipole survey IP grid over the Property should be extended to the north and east to cover a chargeability anomaly at depth defined by the 2012 IP survey. This anomaly is postulated to be the root zone of the Hill Zone which has been truncated and moved southerly along an interpreted thrust fault. It is suggested that a 400 m dipole spacing be considered for lines of interest.

**Respectfully submitted,**



**Thomas H Carpenter, P.Ge.**  
Discovery Consultants  
Vernon, BC  
May 1, 2017

## **10.0 REFERENCES**

Andrzejewski, A., Rebagliati, M., and Willis, C., (2011): Assessment Report on Geochemical Work on the GALAXIE Property, Liard Mining Division. *Assessment Report 33349*

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Scott, A., (2005): Logistical Report - Induced Polarization and Magnetometer Surveys, Gnat Pass Property, Dease Lake Area, BC; *Unpublished private report for Bearclaw Capital Corp. dated September 30, 2005*

van Straaten, B.I., Logan, J.M. and Diakow, L.J., (2011): Dease Lake Geoscience Project, Part II: Preliminary Report on the Mesozoic Magmatic History and Metallogeny of the Hotailuh Batholith and Surrounding Volcanic and Sedimentary Rocks. In: Geological Fieldwork 2011, British Columbia Ministry of Energy and Mines, British Columbia Geological Survey Paper 2012-1, pp. 99-120

van Straaten, B.I., and Nelson, J., (2016): Syncollisional late Early to early Late Jurassic volcanism, plutonism, and porphyry-style alteration on the northeastern margin of Stikinia. In: Geological Fieldwork 2015, British Columbia Ministry of Energy and Mines, British Columbia Geological Survey Paper 2016-1, pp. 113-143

van Straaten, B.I., and Gibson, R., (2017): Late Early to Middle Jurassic Hazelton Group volcanism and mineral occurrences in the McBride-Tanzilla area, northwest British Columbia. In: Geological Fieldwork 2016, British Columbia Ministry of Energy and Mines, British Columbia Geological Survey Paper 2017-1, pp. 83-115

Walcott, P. and Associates, (2013): A Logistics Report on Induced Polarization Surveying, Galaxie Project, Dease Lake area, BC, Liard Mining Division, *Assessment Report 33569B*



## 11.0 Statement of Costs

### 1. Professional Services

W.R. Gilmour, PGeo

Report Writing, Data Interpretation, Program Planning & Supervision

37 hrs @ \$100 /hr \$3,700.00

T.H. Carpenter, PGeo

Report Writing, Data Interpretation

30 hrs @ \$100 /hr 3,000.00

----- \$6,700.00

### 2. Personnel

Field

R. Mitchell (Sept 13 - 22)

Silt / Rock / Soil Sampling

10 days @ \$575 /day \$5,750.00

B. Carr (Sept 13 - 22)

Silt / Rock / Soil Sampling

10 days @ \$560 /day 5,600.00

----- 11,350.00

Office

Drafting 840.00

Data Compilation 390.00

Secretarial 480.00

Field Support 420.00

----- 2,130.00

----- 13,480.00

### 3. Expenses

Analysis - ActLabs 3,154.30

IP Interp - Fritz Geophysics 2,331.98

Freight 187.06

----- 5,673.34

Equipment Rental 40.00

Field Supplies 449.33

Lodging & Meals 1,712.39

Office 122.68

Communication 42.12

Transportation 4 x 4 truck

4.25 days@ \$45 /day 191.25

3439 km @ \$0.50 /km 1,719.50

fuel 558.58

----- 2,469.33

Discovery Management Fee 1,033.16

----- 11,542.35

-----  
Exploration Expenditure: \$31,722.35

### 4. BRL Corporate Management Fee (10%)

3,172.24

-----  
Total Expenditure: \$34,894.59

## **12.0 STATEMENT OF QUALIFICATIONS**

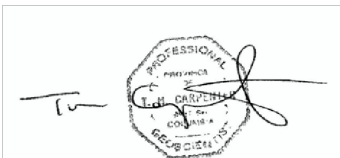
**I, Thomas H. Carpenter** of 3902 14 Street, Vernon, BC, V1T 3V2

Do Hereby Certify that:

1. I am currently employed as a Consulting Geologist:
2. I graduated with a B.Sc. degree in Geology from Memorial University of Newfoundland in 1971.
3. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia, registration number 20277.
4. I have worked as a geologist for a total of 46 years since graduation from university.
5. This report is based upon knowledge of the Gnat Pass Property gained from a review of earlier work and work on the property.

Dated this 1st day of May, 2017 in Vernon, BC.

Signature of

The image shows a handwritten signature 'TH' to the left of a circular professional seal. The seal is for the Association of Professional Engineers and Geoscientists of British Columbia. The text inside the seal includes 'PROFESSIONAL', 'ASSOCIATION OF', 'T.H. CARPENTER', 'Geologist', 'COLUMBIA', and 'BRITISH COLUMBIA'. The seal is stamped over the signature.

**Thomas H. Carpenter, P.Ge.**

# **APPENDIX I**

## **GEOCHEMISTRY MAPS**

**(FIGURES 7.1, 7.2, 7.3, 7.4, 7.5)**









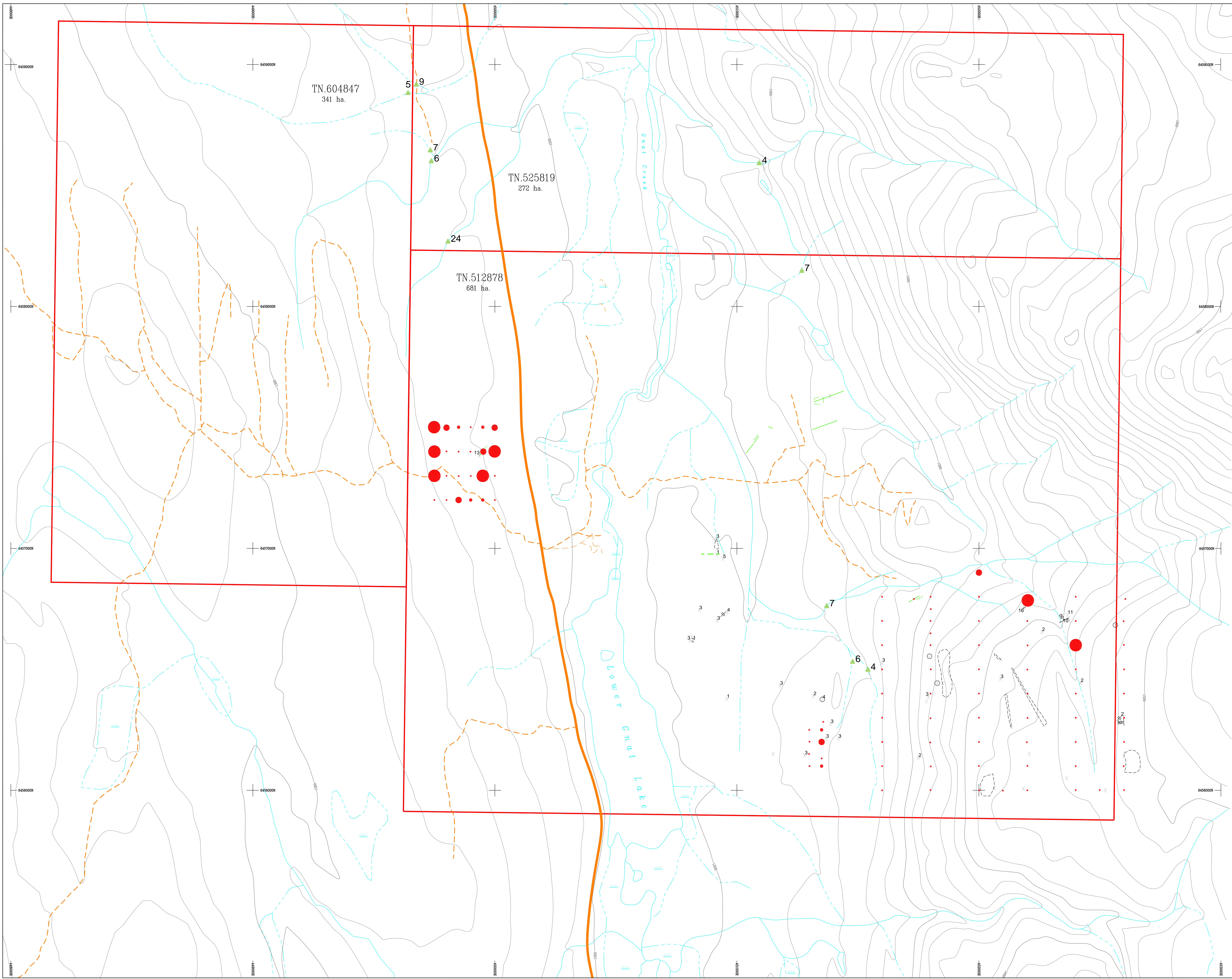








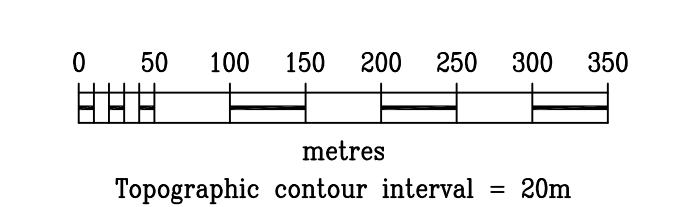
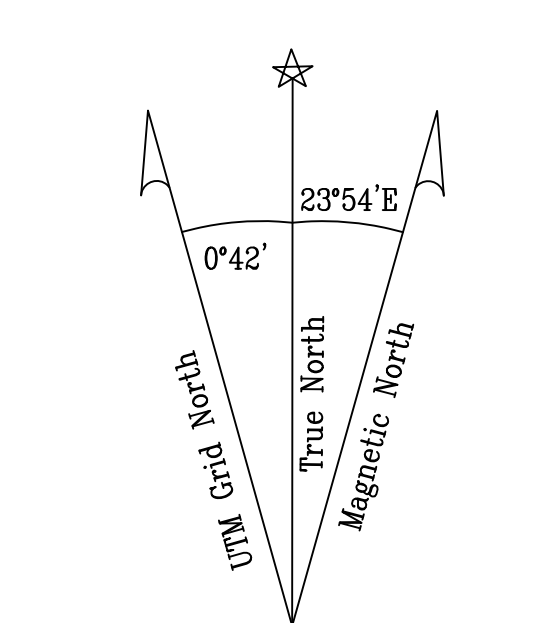




**LEGEND**

- ▲ 15 Stream sediment silt sample location  
Value shown in parts per million arsenic
- X 25 Rock sample location  
Value shown in parts per million arsenic  
Specimen sites not analysed
- Soil sample location  
Arsenic Values  
  - < 10 ppm As
  - 10-14 ppm As
  - 15-20 ppm As
  - >20 ppm As

REVISION	DATE	BY	REVISION	BY	REVISION
Nov 2, 2005		RM	IP/Map locs + anomaly		
July 18, 2006		RM	Chem update/new view		
Aug 4, 2010		RM	Clear water filter proposed		
Sept 2016		RM	SIL/SOL, Rock		
Path: 678/gen_678					



**DISCOVERY** Consultants

Bearclaw Capital Corp.

**Gnat Pass Property**  
2016 Prospecting  
**Arsenic Anomalies**

Location:	Gnat Lake	Miny Jurisdiction:	Yard
Datum:	NAD83	Map Ref.:	1041.021
Scale:	1:5000	U/M:	9
Project:	678	Date:	Mar. 27, 2017
Drawn By:	RM	Figure:	7.5



# **APPENDIX II**

## **STREAM SEDIMENT GEOCHEMISTRY**

### **COMPILED RESULTS**

Sample Number	Sample Type	Report Number	Datum	Zone	UTM East m	UTM North m	Analyte Symbol -->	Cu	Mo	As	Sb	Au	Au	Ag	Pb
							Unit Symbol -->	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
							Detection Limit -->	0.1	0.1	0.5	0.1	5	0.5	0.1	0.1
							Analysis Method -->	AR-MS	AR-MS	AR-MS	AR-MS	FA-AA	AR-MS	AR-MS	AR-MS
678 L001	sieved silt	A16-09989	NAD83	9	449675	6458920		46.9	3.8	8.9	0.2	< 5	2.7	< 0.1	1.5
678 L002	sieved silt	A16-09989	NAD83	9	449641	6458885		30.3	1.3	5.3	0.2	< 5	< 0.5	< 0.1	2.2
678 L003	sieved silt	A16-09989	NAD83	9	449733	6458648		39.3	1.5	7.2	0.3	< 5	2.7	< 0.1	2.7
678 L004	sieved silt	A16-09989	NAD83	9	449737	6458603		74.1	2.5	6.3	0.2	5	< 0.5	< 0.1	4.1
678 L005	sieved silt	A16-09989	NAD83	9	449806	6458271		75.9	5.4	24.2	0.8	< 5	< 0.5	< 0.1	2.5
678 L006	sieved silt	A16-09989	NAD83	9	451092	6458595		55.4	1.5	4.4	0.4	7	< 0.5	< 0.1	2.2
678 L007	sieved silt	A16-09989	NAD83	9	451268	6458150		46.8	3.0	7.3	0.9	7	< 0.5	< 0.1	3.0
678 L008	sieved silt	A16-09989	NAD83	9	451371	6456764		45.9	1.7	7.1	0.6	6	0.6	< 0.1	5.9
678 L009	sieved silt	A16-09989	NAD83	9	451478	6456534		49.2	1.3	6.4	0.3	< 5	0.6	< 0.1	3.2
678 L010	sieved silt	A16-09989	NAD83	9	451541	6456501		22.5	0.7	3.6	0.3	< 5	0.6	< 0.1	0.4

**QC/QA Analysis****Standards:**

GXR-1 Meas	A16-09989	999.0	16.4	379.0	80.2	> 1000.0	33.5	752.0
GXR-1 Cert	A16-09989	1110.0	18.0	427.0	122.0	3300.0	31.0	730.0
GXR-4 Meas	A16-09989	6310.0	296.0	94.1	3.3		2.8	39.2
GXR-4 Cert	A16-09989	6520.0	310.0	98.0	4.8		4.0	52.0
GXR-6 Meas	A16-09989	56.0	1.6	206.0	1.5		0.1	89.7
GXR-6 Cert	A16-09989	66.0	2.4	330.0	3.6		1.3	101.0
OxD108 Meas	A16-09989						418	
OxD108 Meas	A16-09989						406	
OxD108 Meas	A16-09989						405	
OxD108 Meas	A16-09989						395	
OxD108 Meas	A16-09989						397	
OxD108 Meas	A16-09989						399	
OxD108 Cert	A16-09989						414	



	Al	K	Na	P	Ti	Th	B	Bi	S	Se	Te	Tl	W
	%	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	0.01	0.01	0.001	0.001	0.001	0.1	20	0.1	1	0.5	0.2	0.1	0.1
<b>Sample</b>	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
<b>Number</b>													

<b>678 L001</b>	1.51	0.05	0.056	0.102	0.016	1.6	< 20	< 0.1	< 1	0.9	< 0.2	< 0.1	< 0.1
<b>678 L002</b>	1.42	0.09	0.045	0.091	0.013	1.5	< 20	< 0.1	< 1	< 0.5	< 0.2	0.1	< 0.1
<b>678 L003</b>	1.58	0.10	0.057	0.098	0.016	1.9	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
<b>678 L004</b>	1.64	0.10	0.052	0.120	0.013	1.4	< 20	< 0.1	< 1	0.5	< 0.2	< 0.1	< 0.1
<b>678 L005</b>	1.28	0.09	0.035	0.093	0.008	1.1	< 20	< 0.1	< 1	0.7	< 0.2	< 0.1	< 0.1
<b>678 L006</b>	1.57	0.09	0.049	0.081	0.016	1.9	< 20	< 0.1	< 1	0.7	< 0.2	0.2	< 0.1
<b>678 L007</b>	1.16	0.11	0.031	0.086	0.010	2.3	< 20	< 0.1	< 1	< 0.5	< 0.2	0.3	< 0.1
<b>678 L008</b>	1.16	0.09	0.029	0.085	0.009	3.0	< 20	< 0.1	< 1	0.9	< 0.2	0.2	< 0.1
<b>678 L009</b>	1.50	0.07	0.059	0.083	0.016	2.3	< 20	< 0.1	< 1	0.5	< 0.2	< 0.1	< 0.1
<b>678 L010</b>	0.95	0.05	0.044	0.084	0.014	2.4	< 20	< 0.1	< 1	0.5	< 0.2	< 0.1	< 0.1

**QC/QA Analysis**

**Standards:**

GXR-1 Meas	0.34	0.03	0.043	0.041	0.001	1.6	< 20	1670.0	< 1	14.8	13.9	0.4	142.0
GXR-1 Cert	3.52	0.05	0.052	0.065	0.036	2.4	15	1380.0	0	16.6	13.0	0.4	164.0
GXR-4 Meas	2.56	1.61	0.136	0.116	0.011	15.7	< 20	18.5	2	5.1	1.0	2.8	10.2
GXR-4 Cert	7.20	4.01	0.564	0.120	0.290	22.5	5	19.0	2	5.6	1.0	3.2	30.8
GXR-6 Meas	6.52	1.04	0.061	0.031		3.6	< 20	0.2	< 1	< 0.5	< 0.2	1.9	< 0.1
GXR-6 Cert	17.70	1.87	0.104	0.035		5.3	10	0.3	0	0.9	0.0	2.2	1.9

OxD108 Meas  
 OxD108 Meas  
 OxD108 Meas  
 OxD108 Meas  
 OxD108 Meas  
 OxD108 Meas  
 OxD108 Cert

Sample Number	Sample Type	Report Number	Datum	Zone	UTM East m	UTM North m	Analyte Symbol -->	Cu	Mo	As	Sb	Au	Au	Ag	Pb	
							Unit Symbol -->	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	
							Detection Limit -->	0.1	0.1	0.5	0.1	5	0.5	0.1	0.1	
							Analysis Method -->	AR-MS	AR-MS	AR-MS	AR-MS	FA-AA	AR-MS	AR-MS	AR-MS	
SG66 Meas		A16-09989										1110				
SG66 Meas		A16-09989										1100				
SG66 Meas		A16-09989										1090				
SG66 Meas		A16-09989										1080				
SG66 Meas		A16-09989										1060				
SG66 Meas		A16-09989										1050				
SG66 Cert		A16-09989										1090				
OREAS 922 (AQUA REGIA) Meas		A16-09989					2110.0	0.6	5.6	0.6				0.4	53.8	
OREAS 922 (AQUA REGIA) Cert		A16-09989					2176.0	0.7	6.1	0.6				0.9	60.0	
OREAS 923 (AQUA REGIA) Meas		A16-09989					4060.0	0.8	6.9	0.7				1.3	69.6	
OREAS 923 (AQUA REGIA) Cert		A16-09989					4248.0	0.8	7.1	0.6				1.6	81.0	
SdAR-M2 (U.S.G.S.) Meas		A16-09989					211.0	12.0								709.0
SdAR-M2 (U.S.G.S.) Cert		A16-09989					236.0	13.0								808.0
<b><u>Duplicate Analysis:</u></b>																
678 L002 Orig		A16-09989										< 5				
678 L002 Dup		A16-09989										< 5				
<b><u>Analytical Banks:</u></b>																
Method Blank		A16-09989										< 5				
Method Blank		A16-09989										< 5				
Method Blank		A16-09989										5				
Method Blank		A16-09989										< 5				
Method Blank		A16-09989										< 5				
Method Blank		A16-09989										< 5				
Method Blank		A16-09989										< 5				

	Zn	Cd	Ni	Co	Cr	Fe	Ga	Mg	V	Ba	Ca	Sr	Hg	La	Mn	Sc
	ppm	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	1	0.1	0.1	0.1	1	0.01	1	0.01	2	0.5	0.01	1	0.01	1	1	0.1
<b>Sample Number</b>	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS

SG66 Meas  
 SG66 Meas  
 SG66 Meas  
 SG66 Meas  
 SG66 Meas  
 SG66 Meas  
 SG66 Cert

OREAS 922 (AQUA REGIA) Meas	250	0.3	31.3	16.6	40	4.82	7	1.20	28	79.8	0.34	15		35	697	3.3
OREAS 922 (AQUA REGIA) Cert	256	0.3	34.3	19.4	41	5.05	8	1.33	29	70.0	0.32	15		33	730	3.2
OREAS 923 (AQUA REGIA) Meas	314	0.4	29.2	19.0	37	5.58	8	1.30	28	66.9	0.35	13		32	792	3.2
OREAS 923 (AQUA REGIA) Cert	335	0.4	32.7	22.2	40	5.91	8	1.43	31	54.0	0.33	14		30	850	3.1
SdAR-M2 (U.S.G.S.) Meas	724	4.6	41.4	10.9	8		3		14	105.0		19		39		1.8
SdAR-M2 (U.S.G.S.) Cert	760	5.1	49.0	12.4	50		18		25	990.0		144		47		4.1

**Duplicate Analysis:**

678 L002 Orig  
 678 L002 Dup

**Analytical Banks:**

Method Blank  
 Method Blank  
 Method Blank  
 Method Blank  
 Method Blank  
 Method Blank  
 Method Blank

	Al	K	Na	P	Ti	Th	B	Bi	S	Se	Te	Tl	W
	%	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	0.01	0.01	0.001	0.001	0.001	0.1	20	0.1	1	0.5	0.2	0.1	0.1
<b>Sample Number</b>	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS

SG66 Meas  
 SG66 Meas  
 SG66 Meas  
 SG66 Meas  
 SG66 Meas  
 SG66 Meas  
 SG66 Cert

OREAS 922 (AQUA REGIA) Meas	2.57	0.42	0.026	0.057		13.5		9.6	< 1	2.9		0.2	0.9
OREAS 922 (AQUA REGIA) Cert	2.72	0.38	0.021	0.063		14.5		10.3	0	3.4		0.1	1.1
OREAS 923 (AQUA REGIA) Meas	2.67	0.37		0.055		13.0		19.1	< 1	5.3		0.2	1.8
OREAS 923 (AQUA REGIA) Cert	2.80	0.32		0.061		14.3		21.8	1	6.0		0.1	2.0
SdAR-M2 (U.S.G.S.) Meas						9.4		0.9					0.8
SdAR-M2 (U.S.G.S.) Cert						14.2		1.1					2.8

**Duplicate Analysis:**

678 L002 Orig  
 678 L002 Dup

**Analytical Banks:**

Method Blank  
 Method Blank  
 Method Blank  
 Method Blank  
 Method Blank  
 Method Blank  
 Method Blank

Sample Number	Sample Type	Report Number	Datum	Zone	UTM East m	UTM North m	Analyte Symbol -->	Cu	Mo	As	Sb	Au	Au	Ag	Pb
							Unit Symbol -->	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
							Detection Limit -->	0.1	0.1	0.5	0.1	5	0.5	0.1	0.1
							Analysis Method -->	AR-MS	AR-MS	AR-MS	AR-MS	FA-AA	AR-MS	AR-MS	AR-MS

Method Blank		A16-09989														< 5
Method Blank		A16-09989														< 5
Method Blank		A16-09989														< 5
Method Blank		A16-09989														< 5

Discovery Consultants  
 W.R. Gilmour, PGeo  
 May 1, 2017



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	Zn	Cd	Ni	Co	Cr	Fe	Ga	Mg	V	Ba	Ca	Sr	Hg	La	Mn	Sc
	ppm	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	1	0.1	0.1	0.1	1	0.01	1	0.01	2	0.5	0.01	1	0.01	1	1	0.1
<b>Sample</b>	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
<b>Number</b>																

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Method Blank

Method Blank

Method Blank

Method Blank

	Al	K	Na	P	Ti	Th	B	Bi	S	Se	Te	Tl	W
	%	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	0.01	0.01	0.001	0.001	0.001	0.1	20	0.1	1	0.5	0.2	0.1	0.1
<b>Sample</b>	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
<b>Number</b>													

Method Blank

Method Blank

Method Blank

Method Blank

# **APPENDIX III**

## **ROCK GEOCHEMISTRY**

### **DESCRIPTIONS and COMPILED RESULTS**

SAMPLE ID	UTM (NAD 83)		SAMPLE TYPE	Cu ppm	Au ppb	Mo ppm	As ppm	DESCRIPTION
	East	North						
678RM01	449936	6457383	Grab	126	1	0.2	13	Rusty volcanics. South end of trench. Hematite stain on fractures.
678RM02	451280	6456145	Grab	28	7	0.2	3	Biotitic granite. Minor k-spar/hornfels? Hematite stain on fractures.
678RM03	451387	6456275	Grab	19	1	0.2	3	Medium grained intrusive. Very siliceous. Biotitic. Sub-crop with rounded float.
678RM04	451368	6456214	Grab	19	1	0.2	3	Medium grained intrusive. Very siliceous. Biotitic. Orange weathering. Gneissic banding. Minor pyrite. Hematite on fractures.
678RM05	451316	6456390	Grab	23	37	0.2	2	Fine grained subcrop. Biotitic. Minor pyrite. Hematite on fractures.
678RM06	451178	6456433	Grab	292	9	0.2	3	Rusty granite. Fine grained siliceous intrusive. Pyritic. K-spar.
678RM07	450818	6456620	Float	2	1	0.2	1	Granite float. Biotite. K-feldspar. Hematitic fractures.
678RM08	450806	6456618	Grab	43	1	0.2	3	Fractured hematitic volcanic. Siliceous. Pyrite +/- arsenopyrite +/- chalcopyrite on fractures.
678RM09	450844	5456745	Grab	80	1	0.2	3	Fractured hematitic volcanic. Siliceous. Minor pyrite.
678RM10	450959	6456736	Grab	479	1	0.2	4	Epidotized and silicified basalt. Pyrite and hematite on fractures.
678RM11	450915	6457040	Grab	96	9	0.2	3	Hematitic fractured volcanics.
678RM12	450916	6456975	Grab	99	7	0.2	1	Highly fractured pyritic volcanics.
678RM13	452371	6456712	Grab	15	1	0.2	10	Hematitic altered porphyritic volcanic. Dyke?
678RM14	452366	6456726	Grab	65	5	0.2	11	Similar to above. More competent.
678RM15	452598	6456303	Grab	22	1	0.2	2	Granite. Biotite. K-feldspar & plagioclase. Hematitic fractures.
678RM16	452089	6456541	Grab	2	1	0.2	3	Granite outcrop. Pyritic. Less siliceous.
678RM17	452187	6456754	Grab	5	1	0.2	16	Fine grained siliceous volcanics.. Micro-brecciated. Limonite on fractures. Minor pyrite.
678RM18	452260	6456655	Grab	42	1	0.2	2	Siliceous granite with K-spar and plagioclase. Hematite on fractures. Minor pyrite.

SAMPLE ID	UTM (NAD 83)		SAMPLE TYPE	Cu ppm	Au ppb	Mo ppm	As ppm	DESCRIPTION
	East	North						
678RM19	451750	6456135	Grab	17	1	0.2	2	Siliceous medium grained biotitic granite. Minor pyrite. Hematite on fractures.
678RM20	450958	6456379	Grab	231	1	0.2	1	Hematitic basalt. Pyritic.
678RM21	451791	6456385	Grab	6	20	0.2	3	K-spar altered biotitic granite. Highly fractured. Hematitic stain. Minor pyrite and epidote.
678RC01	451419	6456214	Grab	3	17	0.2	3	Medium grained granite. High in silica. Banded.
678RC02	451353	6456376	Float	406	9	0.7	4	Angular boulder with vesicles and small pyrite flecks throughout.
678RC03	450813	6456633	Grab	229	11	0.8	30	Dark volcanic. High in silica with disseminated pyrite.
678RC04	450918	6456702	Grab	113	105	0.6	3	Dark volcanic. High in silica with disseminated pyrite and pyrite veinlets.
678RC05	450942	6456957	Grab	224	8	0.5	5	Dark volcanic. High in silica with disseminated pyrite and pyrite veinlets.
678RC06	452420	6456444	Grab	3	1	0.2	2	Intrusive. Limonite staining.
678RC07	451600	6456528	Grab	54	1	0.9	3	Granite with minor pyrite.

Sample Number	Sample Type	Report Number	Datum	Zone	UTM East m	UTM North m	Analyte Symbol -->	Cu	Mo	As	Sb	Au	Au	Ag	Pb
							Unit Symbol -->	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
							Detection Limit -->	0.1	0.1	0.5	0.1	5	0.5	0.1	0.1
							Analysis Method -->	AR-MS	AR-MS	AR-MS	AR-MS	FA-AA	AR-MS	AR-MS	AR-MS
678 RC01	rock	A16-09851	NAD83	9	451419	6456214		2.8	0.2	3.1	<0.1	17	<0.5	<0.1	<0.1
678 RC02	rock	A16-09851	NAD83	9	451353	6456376		406.0	0.7	3.9	0.5	9	3.9	<0.1	1.3
678 RC03	rock	A16-09851	NAD83	9	450813	6456633		229.0	0.8	30.2	0.1	11	<0.5	<0.1	18.5
678 RC04	rock	A16-09851	NAD83	9	450918	6456702		113.0	0.6	2.9	0.3	105	<0.5	<0.1	<0.1
678 RC05	rock	A16-09851	NAD83	9	450942	6456957		224.0	0.5	5.1	1.0	8	1.8	<0.1	18.2
678 RC06	rock	A16-09851	NAD83	9	452420	6456444		3.4	0.2	1.6	0.2	<5	1.6	<0.1	0.2
678 RC07	rock	A16-09851	NAD83	9	451600	6456528		54.2	0.9	2.8	0.4	<5	<0.5	<0.1	<0.1
678 RM01	rock	A16-09851	NAD83	9	449936	6457383		126.0	0.2	13.1	0.2	<5	<0.5	<0.1	5.0
678 RM02	rock	A16-09851	NAD83	9	451280	6456145		27.9	1.0	3.1	0.8	7	7.2	<0.1	<0.1
678 RM03	rock	A16-09851	NAD83	9	451387	6456275		19.3	0.8	2.8	0.4	<5	1.8	<0.1	0.2
678 RM04	rock	A16-09851	NAD83	9	451368	6456214		18.8	1.0	3.0	0.2	<5	<0.5	<0.1	<0.1
678 RM05	rock	A16-09851	NAD83	9	451316	6456390		23.4	1.2	2.2	0.2	37	<0.5	<0.1	2.0
678 RM06	rock	A16-09851	NAD83	9	451178	6456433		292.0	0.2	3.3	0.2	9	2.0	<0.1	<0.1
678 RM07	rock	A16-09851	NAD83	9	450818	6456620		2.3	2.0	0.9	<0.1	<5	3.5	<0.1	<0.1
678 RM08	rock	A16-09851	NAD83	9	450806	6456618		43.4	0.7	2.7	<0.1	<5	2.8	<0.1	<0.1
678 RM09	rock	A16-09851	NAD83	9	450844	6456745		79.7	0.8	2.6	0.2	<5	2.0	0.1	5.1
678 RM10	rock	A16-09851	NAD83	9	450959	6456736		479.0	1.7	4.2	0.5	<5	<0.5	<0.1	<0.1
678 RM11	rock	A16-09851	NAD83	9	450915	6457040		96.0	0.7	3.0	0.2	9	<0.5	<0.1	<0.1
678 RM12	rock	A16-09851	NAD83	9	450916	6456975		98.6	1.2	1.0	0.2	7	<0.5	<0.1	2.7
678 RM13	rock	A16-09851	NAD83	9	452371	6456712		14.9	0.8	9.6	0.9	<5	<0.5	<0.1	2.8
678 RM14	rock	A16-09851	NAD83	9	452366	6456726.1		65.3	1.5	10.5	0.7	5	<0.5	<0.1	3.7
678 RM15	rock	A16-09851	NAD83	9	452598	6456303		21.6	1.3	2.4	0.3	<5	7.1	<0.1	<0.1
678 RM16	rock	A16-09851	NAD83	9	452089	6456461		2.2	0.6	3.4	0.3	<5	<0.5	<0.1	<0.1
678 RM17	rock	A16-09851	NAD83	9	452187	6456754		5.4	0.5	16.4	1.5	<5	<0.5	<0.1	8.5
678 RM18	rock	A16-09851	NAD83	9	452260	6456655		42.2	0.3	1.6	0.4	<5	<0.5	<0.1	3.0
678 RM19	rock	A16-09851	NAD83	9	451750	6456135		16.6	0.6	1.5	0.2	<5	<0.5	<0.1	27.5
678 RM20	rock	A16-09851	NAD83	9	450958	6456379		231.0	1.0	1.2	0.1	<5	<0.5	<0.1	3.2
678 RM21	rock	A16-09851	NAD83	9	451791	6456385		5.8	0.6	2.5	0.2	20	<0.5	<0.1	0.2

	Zn	Cd	Ni	Co	Cr	Fe	Ga	Mg	V	Ba	Ca	Sr	Hg	La	Mn	Sc
	ppm	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Sample	1	0.1	0.1	0.1	1	0.01	1	0.01	2	0.5	0.01	1	0.01	1	1	0.1
Number	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
678 RC01	83	< 0.1	8.0	10.6	17	3.39	9	1.29	76	62.5	1.08	37	< 0.01	14	695	3.4
678 RC02	62	0.1	29.0	22.8	45	4.67	12	1.20	150	57.0	3.99	215	< 0.01	7	849	13.0
678 RC03	115	0.4	9.9	17.6	15	3.85	7	1.18	104	50.6	1.64	35	< 0.01	4	722	4.1
678 RC04	90	< 0.1	24.6	19.0	75	4.37	9	2.28	148	40.2	3.30	65	< 0.01	5	933	9.5
678 RC05	82	0.1	7.5	13.4	6	3.70	8	1.04	125	52.9	2.87	182	< 0.01	5	1170	6.5
678 RC06	35	< 0.1	5.4	5.5	11	2.02	2	0.47	32	76.7	1.48	83	< 0.01	15	566	2.4
678 RC07	33	< 0.1	6.0	6.3	18	2.36	5	0.49	64	57.1	0.45	26	< 0.01	17	430	2.4
678 RM01	55	0.2	38.0	23.7	120	4.36	8	2.24	148	20.4	3.12	65	< 0.01	3	844	9.2
678 RM02	19	< 0.1	4.5	4.1	18	2.10	3	0.33	59	47.1	0.66	26	< 0.01	11	244	1.5
678 RM03	23	< 0.1	4.6	4.7	20	2.04	4	0.37	58	53.0	0.72	48	< 0.01	13	346	2.1
678 RM04	38	< 0.1	13.1	9.3	36	3.06	5	0.89	84	76.1	1.95	54	< 0.01	14	602	4.4
678 RM05	26	< 0.1	5.0	5.4	20	2.35	3	0.38	72	62.7	0.78	37	< 0.01	13	380	2.2
678 RM06	52	< 0.1	6.8	11.8	9	3.72	9	1.31	121	125.0	2.06	52	< 0.01	14	752	6.7
678 RM07	14	< 0.1	2.1	1.5	12	1.00	2	0.13	13	31.7	0.09	5	< 0.01	25	374	1.1
678 RM08	58	< 0.1	3.0	9.3	7	3.92	7	0.97	53	36.5	0.56	15	< 0.01	6	653	10.6
678 RM09	79	0.1	29.3	21.1	95	3.91	7	2.17	138	28.5	2.33	38	< 0.01	3	743	11.2
678 RM10	57	< 0.1	37.1	27.2	121	3.97	8	2.46	142	23.1	2.10	121	< 0.01	5	686	9.3
678 RM11	74	< 0.1	18.3	22.9	47	4.71	8	1.98	157	44.4	1.72	44	< 0.01	9	864	11.3
678 RM12	85	< 0.1	8.8	18.7	7	5.71	11	1.92	203	45.8	2.39	27	< 0.01	6	1130	10.0
678 RM13	40	0.3	4.0	3.1	9	1.00	2	0.02	5	104.0	0.03	17	< 0.01	5	330	0.4
678 RM14	35	0.1	4.5	6.3	8	1.70	2	0.04	15	85.3	0.17	23	< 0.01	11	438	1.5
678 RM15	30	< 0.1	5.1	5.6	18	2.45	4	0.42	70	57.9	0.71	37	< 0.01	15	409	2.7
678 RM16	40	< 0.1	18.1	9.2	54	3.39	9	1.49	77	70.1	1.07	45	< 0.01	11	545	5.9
678 RM17	4	< 0.1	1.1	0.5	12	0.68	1	0.01	5	70.5	0.02	29	< 0.01	7	31	0.4
678 RM18	38	< 0.1	8.8	7.2	27	2.43	5	0.47	63	95.2	1.08	63	< 0.01	16	516	2.8
678 RM19	27	< 0.1	4.4	4.1	20	1.97	3	0.31	57	58.4	0.54	38	< 0.01	10	279	1.5
678 RM20	126	0.2	22.4	23.6	61	4.34	7	2.21	150	27.6	2.13	26	< 0.01	3	1020	11.1
678 RM21	19	< 0.1	7.7	4.9	23	2.26	3	0.43	64	71.2	0.91	67	< 0.01	14	257	3.0

	Al	K	Na	P	Ti	Th	B	Bi	S	Se	Te	Tl	W
	%	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	0.01	0.01	0.001	0.001	0.001	0.1	20	0.1	1	0.5	0.2	0.1	0.1
Sample Number	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
678 RC01	1.76	0.14	0.072	0.110	0.001	12.1	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 RC02	4.00	0.27	0.712	0.185	0.018	1.2	< 20	< 0.1	< 1	0.6	< 0.2	< 0.1	0.1
678 RC03	2.01	0.65	0.112	0.214	0.022	0.8	50	< 0.1	< 1	< 0.5	< 0.2	0.1	0.1
678 RC04	2.37	0.25	0.144	0.260	0.020	1.0	< 20	< 0.1	< 1	0.5	< 0.2	< 0.1	0.1
678 RC05	1.59	0.16	0.062	0.240	0.018	0.7	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.2
678 RC06	0.48	0.22	0.055	0.075	< 0.001	3.1	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 RC07	0.65	0.12	0.106	0.088	0.010	9.0	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 RM01	2.75	0.15	0.132	0.113	0.021	0.4	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.2
678 RM02	0.47	0.12	0.104	0.094	0.012	4.3	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 RM03	0.49	0.10	0.121	0.091	0.013	4.4	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 RM04	0.82	0.10	0.109	0.113	0.014	4.1	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 RM05	0.45	0.12	0.144	0.096	0.017	5.2	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 RM06	1.54	0.14	0.088	0.185	0.001	2.7	< 20	0.1	< 1	0.5	< 0.2	< 0.1	< 0.1
678 RM07	0.33	0.18	0.094	0.020	0.006	13.0	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 RM08	1.34	0.15	0.122	0.091	0.023	1.4	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 RM09	2.07	0.20	0.176	0.199	0.021	0.6	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 RM10	2.25	0.12	0.096	0.193	0.025	0.9	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 RM11	2.03	0.22	0.181	0.189	0.018	2.4	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 RM12	2.62	0.35	0.198	0.142	0.015	1.0	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 RM13	0.40	0.19	0.037	0.006	< 0.001	0.8	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 RM14	0.54	0.21	0.034	0.025	< 0.001	2.3	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 RM15	0.56	0.13	0.141	0.087	0.019	7.3	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 RM16	1.54	0.07	0.099	0.087	0.017	3.4	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.4
678 RM17	0.34	0.20	0.034	0.004	< 0.001	1.5	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 RM18	0.83	0.15	0.088	0.086	0.001	4.2	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 RM19	0.45	0.12	0.123	0.074	0.013	4.1	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 RM20	1.95	0.17	0.187	0.171	0.022	0.6	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 RM21	0.49	0.13	0.113	0.082	0.009	3.4	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1



Sample Number	Sample Type	Report Number	Datum	Zone	UTM East m	UTM North m	Analyte Symbol -->	Cu	Mo	As	Sb	Au	Au	Ag	Pb
							Unit Symbol -->	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
							Detection Limit -->	0.1	0.1	0.5	0.1	5	0.5	0.1	0.1
							Analysis Method -->	AR-MS	AR-MS	AR-MS	AR-MS	FA-AA	AR-MS	AR-MS	AR-MS

**QC/QA Analysis****Standards:**

GXR-1 Meas	A16-09851	1100.0	16.9	401.0	79.4	> 1000.0	33.1	709.0
GXR-1 Cert	A16-09851	1110.0	18.0	427.0	122.0	3300.0	31.0	730.0
GXR-4 Meas	A16-09851	6350.0	291.0	92.4	3.1		2.9	36.1
GXR-4 Cert	A16-09851	6520.0	310.0	98.0	4.8		4.0	52.0
GXR-6 Meas	A16-09851	61.7	1.5	208.0	1.5		0.2	88.2
GXR-6 Cert	A16-09851	66.0	2.4	330.0	3.6		1.3	101.0
SG66 Meas	A16-09851					1050		
SG66 Meas	A16-09851					1020		
SG66 Cert	A16-09851					1090		
OREAS 922 (AQUA REGIA) Meas	A16-09851	2120.0	0.7	5.9	0.7		0.7	49.5
OREAS 922 (AQUA REGIA) Cert	A16-09851	2176.0	0.7	6.1	0.6		0.9	60.0
OREAS 923 (AQUA REGIA) Meas	A16-09851	4230.0	0.8	7.3	0.6		1.3	72.3
OREAS 923 (AQUA REGIA) Cert	A16-09851	4248.0	0.8	7.1	0.6		1.6	81.0
OREAS 251 Meas	A16-09851					478		
OREAS 251 Meas	A16-09851					485		
OREAS 251 Cert	A16-09851					504		

**Duplicate Analysis:**

678 RC01 Orig	A16-09851	2.9	0.3	3.2	< 0.1		< 0.5	< 0.1	< 0.1
678 RC01 Dup	A16-09851	2.6	0.2	2.9	< 0.1		< 0.5	< 0.1	< 0.1
678 RM08 Orig	A16-09851	43.0	0.6	2.6	< 0.1	< 5	3.8	< 0.1	< 0.1
678 RM08 Dup	A16-09851	43.9	0.7	2.7	< 0.1	26	1.7	< 0.1	< 0.1
678 RM15 Orig	A16-09851					< 5			
678 RM15 Dup	A16-09851					< 5			





Sample Number	Sample Type	Report Number	Datum	Zone	UTM East m	UTM North m	Analyte Symbol -->	Cu	Mo	As	Sb	Au	Au	Ag	Pb	
							Unit Symbol -->	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	
							Detection Limit -->	0.1	0.1	0.5	0.1	5	0.5	0.1	0.1	
							Analysis Method -->	AR-MS	AR-MS	AR-MS	AR-MS	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS

**Analytical Blanks:**

Method Blank	A16-09851	< 5
Method Blank	A16-09851	< 5
Method Blank	A16-09851	< 5

Discovery Consultants  
W.R. Gilmour, PGeo  
May 1, 2017

	Zn	Cd	Ni	Co	Cr	Fe	Ga	Mg	V	Ba	Ca	Sr	Hg	La	Mn	Sc
	ppm	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	1	0.1	0.1	0.1	1	0.01	1	0.01	2	0.5	0.01	1	0.01	1	1	0.1
<b>Sample Number</b>	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS

**Analytical Blanks:**

Method Blank

Method Blank

Method Blank

	Al	K	Na	P	Ti	Th	B	Bi	S	Se	Te	Tl	W
	%	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	0.01	0.01	0.001	0.001	0.001	0.1	20	0.1	1	0.5	0.2	0.1	0.1
<b>Sample Number</b>	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS

**Analytical Blanks:**

Method Blank

Method Blank

Method Blank

# **APPENDIX IV**

## **SOIL GEOCHEMISTRY**

### **COMPILED RESULTS**

Sample Number	Sample Type	Report Number	Datum	Zone	UTM East m	UTM North m	Analyte Symbol -- >	Cu	Mo	As	Sb	Au	Au
							Unit Symbol -->	ppm	ppm	ppm	ppm	ppb	ppb
							Detection Limit -->	0.1	0.1	0.5	0.1	5	0.5
							Analysis Method -->	AR-MS	AR-MS	AR-MS	AR-MS	FA-AA	AR-MS
678 S001	soil	A16-09988	NAD83	9	450000	6457500		142.0	0.7	15.9	0.3	10	< 0.5
678 S002	soil	A16-09988	NAD83	9	449950	6457500		81.5	1.2	9.9	0.1	14	< 0.5
678 S003	soil	A16-09988	NAD83	9	449900	6457500		55.7	1.9	9.2	0.1	7	7.0
678 S004	soil	A16-09988	NAD83	9	449850	6457500		31.9	1.6	10.7	0.2	10	< 0.5
678 S005	soil	A16-09988	NAD83	9	449800	6457500		45.2	2.2	14.8	0.2	9	11.6
678 S006	soil	A16-09988	NAD83	9	449750	6457500		124.0	3.2	24.6	0.2	13	< 0.5
678 S007	soil	A16-09988	NAD83	9	449750	6457400		233.0	3.1	27.5	0.2	12	6.6
678 S008	soil	A16-09988	NAD83	9	449800	6457400		22.4	2.7	2.9	0.1	7	7.0
678 S009	soil	A16-09988	NAD83	9	449850	6457400		35.7	0.9	4.6	0.1	42	< 0.5
678 S010	soil	A16-09988	NAD83	9	449900	6457400		47.7	1.2	8.5	0.2	8	< 0.5
678 S011	soil	A16-09988	NAD83	9	449950	6457400		150.0	3.5	14.5	0.3	9	< 0.5
678 S012	soil	A16-09988	NAD83	9	450000	6457400		54.8	0.6	28.1	0.2	7	< 0.5
678 S013	soil	A16-09988	NAD83	9	450000	6457200		32.2	2.4	1.6	0.1	13	< 0.5
678 S014	soil	A16-09988	NAD83	9	449950	6457200		89.1	1.5	12.2	0.3	15	1.2
678 S015	soil	A16-09988	NAD83	9	449900	6457200		125.0	8.6	11.1	0.2	5	3.2
678 S016	soil	A16-09988	NAD83	9	449850	6457200		63.2	1.4	15.3	0.2	14	7.6
678 S017	soil	A16-09988	NAD83	9	449800	6457200		59.5	1.2	1.8	< 0.1	< 5	< 0.5
678 S018	soil	A16-09988	NAD83	9	449750	6457200		61.2	1.4	6.1	0.2	< 5	< 0.5
678 S019	soil	A16-09988	NAD83	9	449750	6457300		143.0	2.8	28.7	0.2	< 5	< 0.5
678 S020	soil	A16-09988	NAD83	9	449800	6457300		43.4	2.6	3.4	0.1	5	< 0.5
678 S021	soil	A16-09988	NAD83	9	449850	6457300		50.8	1.4	5.3	0.2	6	< 0.5
678 S022	soil	A16-09988	NAD83	9	449900	6457300		52.6	1.9	7.5	0.2	< 5	< 0.5
678 S023	soil	A16-09988	NAD83	9	449950	6457300		362.0	4.8	21.1	0.2	< 5	7.8
678 S024	soil	A16-09988	NAD83	9	450000	6457300		12.6	3.0	4.0	0.3	12	< 0.5
678 S025	soil	A16-09988	NAD83	9	451360	6456280		10.3	2.7	4.0	0.2	24	< 0.5
678 S026	soil	A16-09988	NAD83	9	452600	6456790		22.9	0.9	4.5	0.3	9	< 0.5
678 S027	soil	A16-09988	NAD83	9	452600	6456700		28.5	1.4	2.3	0.1	5	< 0.5
678 S028	soil	A16-09988	NAD83	9	452600	6456600		35.2	2.1	3.7	0.2	5	12.2
678 S029	soil	A16-09988	NAD83	9	452600	6456500		27.4	1.8	3.1	0.2	5	< 0.5
678 S030	soil	A16-09988	NAD83	9	452600	6456400		18.9	1.5	3.0	0.2	6	< 0.5
678 S031	soil	A16-09988	NAD83	9	452600	6456300		20.0	1.9	2.6	0.2	7	< 0.5



Sample Number	Ag	Pb	Zn	Cd	Ni	Co	Cr	Fe	Ga	Mg	V	Ba	Ca	Sr	Hg	La
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	0.1	0.1	1	0.1	0.1	0.1	1	0.01	1	0.01	2	0.5	0.01	1	0.01	1
	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
678 S001	< 0.1	2.0	57	0.1	30.7	16.8	72	3.03	5	1.04	90	72.7	1.13	60	< 0.01	10
678 S002	< 0.1	4.0	68	0.2	27.3	14.7	70	2.90	8	1.00	81	101.0	1.06	34	0.03	5
678 S003	< 0.1	2.5	75	0.4	32.3	15.2	62	4.06	9	0.88	77	58.6	0.83	28	0.02	6
678 S004	< 0.1	2.0	71	0.2	32.1	15.5	87	4.65	11	1.18	131	46.3	0.55	35	< 0.01	5
678 S005	< 0.1	4.1	132	0.4	26.7	12.6	51	4.28	12	0.56	80	52.7	0.67	22	0.03	8
678 S006	0.2	2.1	126	0.7	37.8	22.2	28	4.49	11	0.58	67	104.0	0.71	25	0.02	9
678 S007	0.1	1.1	94	0.2	34.4	12.2	48	3.75	9	0.66	84	78.1	1.10	30	0.07	18
678 S008	0.3	3.7	77	0.2	18.2	10.2	48	5.00	15	0.25	79	71.4	0.19	16	0.05	11
678 S009	< 0.1	0.8	46	0.2	28.0	12.4	64	3.09	7	0.83	77	44.6	0.57	33	0.01	6
678 S010	< 0.1	1.1	48	0.2	28.7	12.1	73	3.50	7	0.86	86	55.4	0.56	36	0.02	6
678 S011	0.1	2.9	85	0.4	31.6	14.0	63	2.38	5	0.87	69	69.1	0.88	42	< 0.01	9
678 S012	< 0.1	3.5	43	< 0.1	30.7	13.6	66	2.63	5	0.88	72	69.2	0.62	43	0.01	7
678 S013	0.2	1.3	58	0.1	30.8	12.9	48	4.73	13	0.43	73	93.3	0.38	30	0.05	19
678 S014	< 0.1	3.3	74	0.3	40.9	17.0	94	3.86	8	1.06	100	66.3	0.58	32	0.03	8
678 S015	0.2	2.3	168	0.8	29.2	20.3	52	5.54	15	0.46	119	86.6	0.94	37	0.04	12
678 S016	< 0.1	3.3	78	0.3	38.4	17.6	115	5.86	11	1.42	155	54.1	0.66	36	< 0.01	4
678 S017	< 0.1	< 0.1	51	< 0.1	43.9	20.1	144	3.31	7	1.61	86	49.8	0.68	20	< 0.01	4
678 S018	< 0.1	3.9	52	0.1	26.6	11.4	72	3.06	8	0.93	102	61.6	0.89	50	< 0.01	8
678 S019	< 0.1	2.1	70	0.4	23.8	13.5	47	2.83	7	0.58	77	51.4	0.89	31	0.04	12
678 S020	0.2	2.3	64	0.3	37.5	15.5	40	4.83	13	0.41	63	75.6	0.22	13	0.05	15
678 S021	< 0.1	2.6	69	0.2	36.1	14.8	72	3.78	9	0.93	88	61.7	0.51	33	0.03	9
678 S022	< 0.1	1.7	140	0.4	39.0	15.2	71	3.90	9	0.80	84	55.3	0.32	19	0.05	8
678 S023	0.1	3.7	207	1.0	36.5	13.2	44	4.12	11	0.54	91	66.2	0.73	28	0.03	11
678 S024	0.1	5.0	147	0.6	17.0	8.6	53	6.43	19	0.28	100	83.1	0.14	14	< 0.01	11
678 S025	0.1	6.5	81	0.2	21.4	9.2	53	5.95	21	0.27	87	81.7	0.08	9	0.02	11
678 S026	< 0.1	5.9	48	< 0.1	18.9	8.2	30	2.95	5	0.41	69	91.9	0.37	32	< 0.01	15
678 S027	< 0.1	5.1	117	0.2	36.8	13.4	43	4.60	11	0.54	66	162.0	0.30	26	0.03	22
678 S028	0.2	9.2	153	0.9	34.1	12.0	41	5.01	14	0.46	65	142.0	0.24	22	0.04	28
678 S029	< 0.1	4.1	100	0.2	28.3	9.0	45	4.38	12	0.48	72	117.0	0.21	24	0.02	17
678 S030	< 0.1	2.7	93	0.1	29.1	9.8	38	3.69	9	0.52	65	126.0	0.35	34	< 0.01	13
678 S031	< 0.1	1.2	73	0.2	34.4	13.3	40	4.55	11	0.52	65	178.0	0.99	75	0.02	24

Sample Number	Mn	Sc	Al	K	Na	P	Ti	Th	B	Bi	S	Se	Te	Tl	W
	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	1	0.1	0.01	0.01	0.001	0.001	0.001	0.1	20	0.1	1	0.5	0.2	0.1	0.1
	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
678 S001	590	6.3	1.41	0.09	0.057	0.135	0.013	1.6	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 S002	348	3.4	1.76	0.08	0.043	0.078	0.016	0.8	< 20	< 0.1	< 1	0.5	< 0.2	< 0.1	< 0.1
678 S003	377	2.9	2.16	0.13	0.032	0.075	0.013	1.0	< 20	0.1	< 1	0.6	< 0.2	< 0.1	0.1
678 S004	395	4.5	2.09	0.06	0.043	0.048	0.022	1.3	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 S005	491	2.7	1.85	0.05	0.029	0.045	0.017	1.3	< 20	0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 S006	519	3.1	3.35	0.13	0.033	0.051	0.007	1.5	< 20	0.1	< 1	0.6	< 0.2	< 0.1	< 0.1
678 S007	447	3.4	2.12	0.06	0.041	0.089	0.018	1.3	< 20	< 0.1	< 1	1.5	< 0.2	< 0.1	< 0.1
678 S008	323	3.2	2.53	0.04	0.036	0.047	0.032	2.2	< 20	0.1	< 1	0.5	< 0.2	< 0.1	< 0.1
678 S009	369	3.9	2.06	0.06	0.045	0.086	0.013	1.1	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S010	325	4.8	2.27	0.06	0.041	0.088	0.013	1.2	< 20	< 0.1	< 1	0.7	< 0.2	< 0.1	< 0.1
678 S011	826	4.5	1.62	0.07	0.044	0.106	0.010	1.3	< 20	< 0.1	< 1	0.8	< 0.2	< 0.1	< 0.1
678 S012	417	4.2	1.53	0.07	0.042	0.089	0.011	1.3	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S013	726	4.4	3.05	0.04	0.056	0.063	0.029	1.3	< 20	< 0.1	< 1	0.9	< 0.2	< 0.1	< 0.1
678 S014	538	4.2	2.42	0.12	0.039	0.111	0.015	1.4	< 20	0.1	< 1	0.7	< 0.2	< 0.1	0.1
678 S015	1670	5.0	2.38	0.06	0.059	0.084	0.042	2.2	< 20	0.1	< 1	0.9	< 0.2	< 0.1	0.1
678 S016	505	5.3	2.17	0.07	0.047	0.091	0.021	1.0	< 20	0.4	< 1	< 0.5	< 0.2	< 0.1	0.1
678 S017	384	2.8	2.16	0.37	0.039	0.073	0.024	0.7	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S018	339	4.9	1.64	0.07	0.056	0.074	0.018	1.1	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 S019	761	3.1	1.50	0.04	0.036	0.086	0.012	1.0	< 20	< 0.1	< 1	0.7	< 0.2	< 0.1	< 0.1
678 S020	455	4.3	4.33	0.03	0.039	0.061	0.028	2.9	< 20	< 0.1	< 1	0.7	< 0.2	< 0.1	< 0.1
678 S021	436	5.0	2.46	0.07	0.046	0.089	0.019	1.9	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S022	437	3.5	2.87	0.06	0.033	0.081	0.016	1.5	< 20	< 0.1	< 1	0.8	< 0.2	< 0.1	0.1
678 S023	832	3.5	1.71	0.06	0.036	0.056	0.020	1.1	< 20	0.1	< 1	0.8	< 0.2	< 0.1	< 0.1
678 S024	424	2.0	1.38	0.06	0.028	0.087	0.037	1.8	< 20	0.2	< 1	< 0.5	< 0.2	< 0.1	0.1
678 S025	337	3.0	2.59	0.05	0.032	0.049	0.035	2.6	< 20	0.2	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S026	442	3.2	1.24	0.07	0.036	0.085	0.010	2.6	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S027	718	4.8	3.01	0.06	0.046	0.062	0.017	2.3	< 20	< 0.1	< 1	0.6	< 0.2	< 0.1	< 0.1
678 S028	656	4.1	3.44	0.05	0.034	0.107	0.018	1.6	< 20	0.1	< 1	1.0	< 0.2	< 0.1	< 0.1
678 S029	474	3.5	2.36	0.08	0.025	0.072	0.017	1.8	< 20	0.1	< 1	0.7	< 0.2	< 0.1	< 0.1
678 S030	562	3.3	1.89	0.08	0.036	0.060	0.019	1.7	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S031	609	3.7	2.79	0.07	0.060	0.072	0.029	2.2	< 20	< 0.1	< 1	0.7	< 0.2	< 0.1	< 0.1

Sample Number	Sample Type	Report Number	Datum	Zone	UTM East m	UTM North m	Analyte Symbol -- >	Cu	Mo	As	Sb	Au	Au
							Unit Symbol -->	ppm	ppm	ppm	ppm	ppb	ppb
							Detection Limit -->	0.1	0.1	0.5	0.1	5	0.5
							Analysis Method -->	AR-MS	AR-MS	AR-MS	AR-MS	FA-AA	AR-MS
678 S032	soil	A16-09988	NAD83	9	452600	6456200		16.5	1.2	2.2	0.1	< 5	5.7
678 S033	soil	A16-09988	NAD83	9	452600	6456100		32.2	0.9	2.4	0.2	7	14.4
678 S034	soil	A16-09988	NAD83	9	452600	6456000		26.7	1.2	2.9	0.2	14	7.6
678 S035	soil	A16-09988	NAD83	9	452500	6456000		38.3	1.7	2.3	0.1	6	< 0.5
678 S036	soil	A16-09988	NAD83	9	452400	6456800		24.4	1.0	4.6	0.3	7	< 0.5
678 S037	soil	A16-09988	NAD83	9	452400	6456700		42.9	1.1	4.5	0.4	< 5	< 0.5
678 S038	soil	A16-09988	NAD83	9	452400	6456600		89.8	2.8	43.0	1.5	6	< 0.5
678 S039	soil	A16-09988	NAD83	9	452400	6456500		48.7	1.3	4.6	0.3	< 5	< 0.5
678 S040	soil	A16-09988	NAD83	9	452400	6456400		11.8	1.3	2.8	0.2	< 5	< 0.5
678 S041	soil	A16-09988	NAD83	9	452400	6456300		22.6	1.0	3.0	0.2	< 5	< 0.5
678 S042	soil	A16-09988	NAD83	9	452400	6456200		19.5	1.4	3.2	0.2	9	< 0.5
678 S043	soil	A16-09988	NAD83	9	452400	6456100		15.7	1.1	3.6	0.3	6	< 0.5
678 S044	soil	A16-09988	NAD83	9	452000	6456900		52.4	1.6	14.7	0.9	6	< 0.5
678 S045	soil	A16-09988	NAD83	9	452000	6456800		12.2	1.7	3.5	0.3	< 5	< 0.5
678 S046	soil	A16-09988	NAD83	9	452200	6456790		10.3	4.1	53.5	5.4	9	< 0.5
678 S047	soil	A16-09988	NAD83	9	452200	6456700		21.4	1.6	3.5	0.2	< 5	< 0.5
678 S048	soil	A16-09988	NAD83	9	452200	6456600		16.1	3.9	4.6	0.3	8	< 0.5
678 S049	soil	A16-09988	NAD83	9	452200	6456500		20.1	1.4	3.7	0.2	5	< 0.5
678 S050	soil	A16-09988	NAD83	9	452200	6456400		15.4	1.6	2.1	0.1	10	< 0.5
678 S051	soil	A16-09988	NAD83	9	452200	6456300		12.2	2.9	2.9	0.2	< 5	4.4
678 S052	soil	A16-09988	NAD83	9	452200	6456200		15.6	1.7	3.0	0.2	< 5	< 0.5
678 S053	soil	A16-09988	NAD83	9	452200	6456100		13.6	1.7	3.8	0.2	6	< 0.5
678 S054	soil	A16-09988	NAD83	9	452200	6456000		12.6	1.6	3.5	0.2	< 5	< 0.5
678 S055	soil	A16-09988	NAD83	9	452100	6456000		11.3	2.7	4.0	0.2	< 5	22.7
678 S056	soil	A16-09988	NAD83	9	452400	6456000		16.5	2.0	2.9	0.2	< 5	4.8
678 S057	soil	A16-09988	NAD83	9	452000	6456000		21.0	0.8	2.7	0.2	5	< 0.5
678 S058	soil	A16-09988	NAD83	9	452000	6456100		13.2	1.8	5.4	0.5	7	< 0.5
678 S059	soil	A16-09988	NAD83	9	451300	6456100		77.4	1.5	6.5	0.2	< 5	< 0.5
678 S060	soil	A16-09988	NAD83	9	451300	6456150		12.4	2.0	3.3	0.2	13	< 0.5
678 S061	soil	A16-09988	NAD83	9	451300	6456200		14.3	2.2	2.7	0.2	5	5.4
678 S062	soil	A16-09988	NAD83	9	451300	6456250		49.1	1.2	6.6	0.3	< 5	< 0.5

Sample Number	Ag	Pb	Zn	Cd	Ni	Co	Cr	Fe	Ga	Mg	V	Ba	Ca	Sr	Hg	La
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	0.1	0.1	1	0.1	0.1	0.1	1	0.01	1	0.01	2	0.5	0.01	1	0.01	1
AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
678 S032	0.3	3.4	61	0.2	15.9	8.8	26	2.50	8	0.31	48	176.0	0.87	70	0.02	15
678 S033	0.1	2.3	64	0.2	28.3	9.6	26	3.18	7	0.41	43	102.0	0.95	77	0.07	33
678 S034	< 0.1	2.8	69	0.1	37.8	10.6	43	3.61	10	0.48	60	184.0	0.56	60	0.03	17
678 S035	< 0.1	1.2	80	0.1	51.3	19.2	42	5.42	14	1.03	66	127.0	0.52	23	0.03	28
678 S036	< 0.1	3.5	59	< 0.1	19.8	7.7	30	2.73	6	0.43	65	128.0	0.34	35	< 0.01	13
678 S037	< 0.1	4.0	66	0.1	34.5	12.1	41	3.65	8	0.66	72	153.0	0.35	34	0.01	18
678 S038	0.1	34.0	166	0.4	23.3	8.4	29	3.05	5	0.38	50	153.0	0.59	61	0.03	15
678 S039	< 0.1	6.0	127	0.3	29.6	9.2	34	3.55	8	0.46	62	276.0	0.40	46	0.03	30
678 S040	< 0.1	10.3	52	0.2	16.8	7.3	35	3.47	9	0.37	65	119.0	0.19	24	0.03	8
678 S041	< 0.1	2.0	49	0.1	25.4	11.6	35	3.11	7	0.53	66	129.0	0.30	25	0.01	11
678 S042	< 0.1	1.5	56	0.1	34.9	12.2	40	3.41	7	0.57	61	116.0	0.20	21	0.01	11
678 S043	< 0.1	2.2	93	0.3	21.1	9.8	40	3.71	9	0.47	72	107.0	0.21	23	0.03	9
678 S044	< 0.1	11.5	89	0.2	21.7	8.4	35	2.81	5	0.42	57	210.0	0.58	60	0.02	15
678 S045	< 0.1	4.2	42	0.1	10.4	4.5	34	3.66	11	0.24	87	61.3	0.14	21	< 0.01	9
678 S046	< 0.1	30.0	43	0.2	7.4	6.6	24	5.98	11	0.06	124	70.0	0.05	11	< 0.01	8
678 S047	< 0.1	2.9	64	< 0.1	26.8	10.8	36	3.37	8	0.49	63	132.0	0.39	37	0.01	14
678 S048	0.2	4.7	92	0.2	21.3	8.0	43	5.28	17	0.31	66	92.1	0.14	14	0.04	16
678 S049	< 0.1	1.8	76	0.1	22.8	7.8	41	4.54	10	0.50	70	83.4	0.20	20	0.03	10
678 S050	< 0.1	2.7	81	0.1	27.5	13.0	39	3.92	10	0.49	64	99.6	0.24	22	0.05	13
678 S051	< 0.1	3.1	81	0.2	30.6	13.4	45	5.79	17	0.54	74	81.3	0.27	14	0.03	17
678 S052	< 0.1	0.9	84	0.2	40.5	15.1	37	4.21	11	0.63	53	87.9	0.22	13	0.04	14
678 S053	< 0.1	2.0	104	0.1	44.0	14.5	39	4.20	11	0.60	58	110.0	0.21	18	0.02	12
678 S054	< 0.1	3.3	145	0.1	43.3	15.3	51	4.98	13	0.60	74	91.6	0.18	12	0.04	13
678 S055	< 0.1	3.9	76	0.1	36.1	13.0	54	7.02	20	0.67	90	83.7	0.24	14	0.05	15
678 S056	0.2	1.0	118	0.4	36.2	15.7	42	5.14	13	0.56	67	120.0	0.29	18	0.06	15
678 S057	< 0.1	51.4	89	0.1	21.2	6.1	34	3.09	8	0.33	64	116.0	0.14	22	0.02	12
678 S058	< 0.1	7.9	74	< 0.1	31.8	9.6	64	6.40	17	0.57	111	92.8	0.14	18	< 0.01	9
678 S059	< 0.1	0.6	72	< 0.1	59.1	14.3	32	4.72	9	1.11	43	331.0	0.72	41	0.03	30
678 S060	< 0.1	5.2	73	0.2	23.1	9.6	42	6.09	16	0.30	70	146.0	0.24	22	0.02	11
678 S061	< 0.1	4.5	85	0.1	47.8	18.9	43	5.56	15	0.85	68	80.5	0.31	17	0.03	13
678 S062	< 0.1	1.9	48	0.1	31.6	11.6	35	3.39	7	0.61	55	197.0	0.64	51	< 0.01	19

Sample Number	Mn	Sc	Al	K	Na	P	Ti	Th	B	Bi	S	Se	Te	Tl	W
	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	1	0.1	0.01	0.01	0.001	0.001	0.001	0.1	20	0.1	1	0.5	0.2	0.1	0.1
	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
678 S032	944	1.5	1.42	0.04	0.027	0.074	0.009	0.5	< 20	0.1	< 1	0.8	< 0.2	< 0.1	< 0.1
678 S033	599	2.9	2.03	0.03	0.032	0.091	0.010	0.7	< 20	0.1	< 1	1.5	< 0.2	< 0.1	< 0.1
678 S034	404	4.0	2.65	0.06	0.036	0.058	0.017	2.2	< 20	0.1	< 1	0.6	< 0.2	< 0.1	< 0.1
678 S035	860	6.1	4.16	0.08	0.094	0.064	0.034	4.9	< 20	< 0.1	< 1	0.7	< 0.2	< 0.1	< 0.1
678 S036	425	3.2	1.39	0.10	0.030	0.073	0.010	2.5	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S037	563	4.3	2.08	0.10	0.042	0.077	0.015	3.3	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S038	415	3.7	1.38	0.11	0.028	0.074	0.007	1.7	< 20	0.1	< 1	0.7	< 0.2	0.1	< 0.1
678 S039	627	3.1	2.25	0.08	0.026	0.083	0.009	0.9	< 20	0.1	< 1	1.0	< 0.2	0.1	< 0.1
678 S040	623	2.4	1.42	0.09	0.023	0.050	0.012	1.2	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S041	499	3.1	1.77	0.11	0.026	0.072	0.011	2.8	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S042	336	3.7	2.46	0.10	0.032	0.051	0.013	4.2	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S043	671	3.1	1.86	0.10	0.026	0.078	0.013	2.4	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 S044	659	3.1	1.53	0.10	0.030	0.091	0.007	1.4	< 20	< 0.1	< 1	0.6	< 0.2	< 0.1	< 0.1
678 S045	194	1.9	1.12	0.05	0.023	0.038	0.018	1.7	< 20	0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 S046	904	1.5	0.91	0.06	0.014	0.028	0.007	1.0	< 20	0.2	< 1	< 0.5	< 0.2	< 0.1	0.1
678 S047	464	2.9	1.68	0.08	0.030	0.071	0.015	2.8	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 S048	367	2.8	2.84	0.06	0.041	0.058	0.029	3.3	< 20	0.2	< 1	0.8	< 0.2	< 0.1	0.2
678 S049	347	3.2	2.06	0.09	0.028	0.084	0.014	3.0	< 20	< 0.1	< 1	0.5	< 0.2	< 0.1	< 0.1
678 S050	847	2.6	2.16	0.07	0.043	0.064	0.018	1.5	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S051	590	5.1	4.44	0.05	0.055	0.082	0.035	4.2	< 20	0.1	< 1	0.7	< 0.2	< 0.1	< 0.1
678 S052	537	4.3	4.12	0.05	0.041	0.090	0.020	3.8	< 20	< 0.1	< 1	0.6	< 0.2	< 0.1	< 0.1
678 S053	440	3.4	3.29	0.06	0.040	0.076	0.017	3.8	< 20	0.1	< 1	0.6	< 0.2	< 0.1	0.1
678 S054	493	4.1	3.98	0.05	0.035	0.094	0.030	3.3	< 20	0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S055	743	3.0	2.05	0.04	0.044	0.060	0.047	2.4	< 20	0.1	< 1	0.5	< 0.2	< 0.1	0.1
678 S056	753	3.6	3.50	0.06	0.042	0.094	0.029	2.8	< 20	< 0.1	< 1	0.6	< 0.2	< 0.1	0.1
678 S057	393	1.6	2.03	0.09	0.041	0.095	0.004	0.3	< 20	0.2	< 1	0.7	< 0.2	< 0.1	< 0.1
678 S058	373	3.5	2.05	0.08	0.025	0.027	0.040	2.3	< 20	0.2	< 1	< 0.5	< 0.2	0.1	< 0.1
678 S059	573	3.7	3.25	0.05	0.086	0.058	0.020	3.9	< 20	< 0.1	< 1	0.7	< 0.2	< 0.1	< 0.1
678 S060	275	2.0	2.12	0.03	0.029	0.037	0.028	2.6	< 20	0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S061	553	4.1	4.62	0.03	0.053	0.074	0.033	3.4	< 20	< 0.1	< 1	0.6	< 0.2	< 0.1	0.1
678 S062	518	3.4	1.90	0.04	0.055	0.057	0.017	3.0	< 20	< 0.1	< 1	0.6	< 0.2	< 0.1	< 0.1

Sample Number	Sample Type	Report Number	Datum	Zone	UTM East m	UTM North m	Analyte Symbol -- >	Cu	Mo	As	Sb	Au	Au
							Unit Symbol -->	ppm	ppm	ppm	ppm	ppb	ppb
							Detection Limit -->	0.1	0.1	0.5	0.1	5	0.5
							Analysis Method -->	AR-MS	AR-MS	AR-MS	AR-MS	FA-AA	AR-MS
678 S063	soil	A16-09988	NAD83	9	451350	6456250		9.9	2.7	10.5	0.4	< 5	< 0.5
678 S064	soil	A16-09988	NAD83	9	451800	6456000		46.0	1.3	3.1	0.1	8	< 0.5
678 S065	soil	A16-09988	NAD83	9	451800	6456100		78.7	1.1	5.0	0.4	8	< 0.5
678 S066	soil	A16-09988	NAD83	9	452000	6456700		17.7	0.6	2.3	0.2	5	< 0.5
678 S067	soil	A16-09988	NAD83	9	452000	6456600		29.8	1.0	3.4	0.2	9	< 0.5
678 S068	soil	A16-09988	NAD83	9	452000	6456500		7.6	1.1	6.5	0.3	11	< 0.5
678 S069	soil	A16-09988	NAD83	9	452000	6456400		14.8	2.5	5.1	0.2	5	< 0.5
678 S070	soil	A16-09988	NAD83	9	452000	6456300		9.8	1.8	8.1	0.4	< 5	< 0.5
678 S071	soil	A16-09988	NAD83	9	452000	6456200		8.2	1.9	2.3	0.3	5	< 0.5
678 S072	soil	A16-09988	NAD83	9	451350	6456100		102.0	1.5	12.9	0.3	7	< 0.5
678 S073	soil	A16-09988	NAD83	9	451350	6456132		12.9	3.2	8.0	0.3	6	9.2
678 S074	soil	A16-09988	NAD83	9	451350	6456200		11.2	2.2	15.1	0.4	5	< 0.5
678 S075	soil	A16-09988	NAD83	9	451800	6456200		24.4	3.6	6.6	0.3	6	< 0.5
678 S076	soil	A16-09988	NAD83	9	451800	6456300		16.1	2.9	4.0	0.2	7	< 0.5
678 S077	soil	A16-09988	NAD83	9	451800	6456400		32.6	1.7	3.2	0.2	6	< 0.5
678 S078	soil	A16-09988	NAD83	9	451800	6456500		44.9	0.7	3.0	0.5	6	8.9
678 S079	soil	A16-09988	NAD83	9	451800	6456600		19.8	1.9	3.0	0.2	< 5	< 0.5
678 S080	soil	A16-09988	NAD83	9	451800	6456650		14.1	0.6	2.8	0.2	6	< 0.5
678 S081	soil	A16-09988	NAD83	9	451800	6456750		22.4	0.5	2.3	0.2	6	< 0.5
678 S082	soil	A16-09988	NAD83	9	451730	6456790		24.8	0.7	3.0	0.2	5	< 0.5
678 S083	soil	A16-09988	NAD83	9	451600	6456000		40.4	1.3	2.4	0.2	5	< 0.5
678 S084	soil	A16-09988	NAD83	9	451600	6456100		62.3	1.4	3.0	0.2	9	14.2
678 S085	soil	A16-09988	NAD83	9	451600	6456200		118.0	1.1	2.8	0.3	16	13.8
678 S086	soil	A16-09988	NAD83	9	451600	6456300		49.3	0.7	1.9	0.1	8	< 0.5
678 S087	soil	A16-09988	NAD83	9	451600	6456400		55.1	1.2	5.9	0.2	< 5	< 0.5
678 S088	soil	A16-09988	NAD83	9	451600	6456500		27.5	0.8	5.7	0.3	< 5	< 0.5
678 S089	soil	A16-09988	NAD83	9	451600	6456600		48.9	1.6	4.7	0.2	5	< 0.5
678 S090	soil	A16-09988	NAD83	9	451600	6456700		29.7	1.0	3.9	0.2	35	< 0.5
678 S091	soil	A16-09988	NAD83	9	451600	6456800		14.7	0.4	2.3	0.2	< 5	< 0.5
678 S092	soil	A16-09988	NAD83	9	451800	6456800		6.5	1.1	2.3	0.2	6	< 0.5
678 S093	soil	A16-09988	NAD83	9	451800	6456700		12.0	2.8	3.5	0.3	< 5	< 0.5

Sample Number	Ag	Pb	Zn	Cd	Ni	Co	Cr	Fe	Ga	Mg	V	Ba	Ca	Sr	Hg	La
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	0.1	0.1	1	0.1	0.1	0.1	1	0.01	1	0.01	2	0.5	0.01	1	0.01	1
	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
678 S063	< 0.1	8.7	126	0.2	17.0	7.5	40	5.62	20	0.31	86	77.9	0.10	13	0.02	9
678 S064	0.8	2.6	57	0.2	37.8	12.7	25	3.47	7	0.69	47	263.0	0.77	61	0.02	32
678 S065	< 0.1	2.1	79	0.1	39.8	13.8	31	4.22	9	0.60	55	415.0	1.00	97	0.03	57
678 S066	< 0.1	0.6	33	< 0.1	19.3	6.5	30	2.56	4	0.38	55	57.6	0.26	20	< 0.01	10
678 S067	< 0.1	1.9	63	< 0.1	33.4	11.6	48	3.42	7	0.62	73	149.0	0.52	41	0.02	12
678 S068	< 0.1	2.9	79	0.1	19.0	15.9	20	4.92	7	0.21	60	347.0	0.20	22	0.02	12
678 S069	0.2	3.9	85	0.2	31.0	9.9	38	4.17	12	0.32	43	79.2	0.12	10	0.06	16
678 S070	< 0.1	5.3	38	< 0.1	7.9	4.2	34	5.92	23	0.19	162	51.3	0.10	22	0.04	7
678 S071	< 0.1	10.3	37	< 0.1	6.8	3.7	45	4.02	23	0.10	133	55.0	0.07	11	0.01	5
678 S072	< 0.1	0.9	37	< 0.1	34.7	11.2	52	3.26	6	0.64	69	228.0	0.59	53	< 0.01	29
678 S073	< 0.1	6.2	62	0.1	15.3	7.5	43	5.97	18	0.27	89	77.3	0.15	14	0.02	9
678 S074	< 0.1	4.6	54	0.1	14.4	7.0	53	5.73	14	0.32	113	96.4	0.14	20	0.02	7
678 S075	< 0.1	20.5	91	0.2	22.1	13.3	33	5.29	12	0.59	102	231.0	0.36	25	0.04	13
678 S076	< 0.1	6.6	105	0.2	32.2	12.0	59	6.98	21	0.53	100	140.0	0.20	18	0.03	13
678 S077	< 0.1	4.7	189	0.3	32.5	15.0	46	5.05	13	0.49	77	237.0	0.57	48	0.02	15
678 S078	0.2	2.4	27	0.1	12.2	6.7	20	1.97	5	0.23	34	413.0	1.16	92	0.05	23
678 S079	< 0.1	1.4	92	0.1	46.9	18.7	39	5.31	13	0.94	65	163.0	0.59	39	0.01	19
678 S080	< 0.1	2.4	40	0.1	18.9	6.0	49	1.98	5	0.48	57	109.0	0.40	52	< 0.01	7
678 S081	< 0.1	< 0.1	26	< 0.1	18.6	6.8	32	2.60	3	0.43	66	64.3	0.41	30	< 0.01	12
678 S082	< 0.1	0.9	29	< 0.1	21.5	9.3	41	3.15	5	0.47	76	84.8	0.39	31	< 0.01	12
678 S083	< 0.1	2.7	140	0.3	36.4	14.8	29	4.51	11	0.58	49	296.0	0.90	102	0.02	19
678 S084	0.2	3.4	101	0.3	23.0	10.3	24	3.81	10	0.30	52	401.0	0.85	107	0.01	30
678 S085	0.2	1.1	28	0.2	15.0	7.6	17	1.60	5	0.24	24	506.0	1.84	183	0.17	34
678 S086	0.2	1.9	22	1.3	20.8	3.9	22	1.06	4	0.12	28	174.0	0.29	43	0.02	13
678 S087	0.2	4.0	82	0.4	40.6	16.3	57	4.54	11	0.62	81	232.0	0.31	34	0.02	23
678 S088	< 0.1	1.2	50	0.1	40.2	10.4	53	3.03	5	0.58	69	101.0	0.24	23	0.02	8
678 S089	< 0.1	5.0	60	< 0.1	44.2	9.0	34	3.93	13	0.49	42	283.0	0.46	36	0.02	27
678 S090	0.2	7.8	68	< 0.1	31.6	7.6	32	3.65	9	0.46	50	263.0	0.42	53	0.04	25
678 S091	< 0.1	< 0.1	18	< 0.1	16.9	5.6	29	2.41	3	0.38	63	69.4	0.44	35	< 0.01	12
678 S092	< 0.1	1.0	27	0.1	8.3	3.7	30	2.88	7	0.21	69	48.2	0.16	21	< 0.01	7
678 S093	< 0.1	6.2	80	0.2	11.9	6.7	43	6.44	24	0.30	126	85.9	0.12	13	0.02	7

Sample Number	Mn	Sc	Al	K	Na	P	Ti	Th	B	Bi	S	Se	Te	Tl	W
	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	1	0.1	0.01	0.01	0.001	0.001	0.001	0.1	20	0.1	1	0.5	0.2	0.1	0.1
	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
678 S063	326	2.3	1.92	0.06	0.025	0.078	0.021	1.8	< 20	0.3	< 1	< 0.5	< 0.2	< 0.1	0.2
678 S064	985	2.3	1.74	0.02	0.033	0.044	0.017	1.4	< 20	0.1	< 1	0.8	< 0.2	< 0.1	< 0.1
678 S065	833	5.7	2.70	0.04	0.051	0.070	0.017	2.0	< 20	< 0.1	< 1	1.8	< 0.2	< 0.1	< 0.1
678 S066	235	2.2	1.27	0.06	0.025	0.075	0.009	2.5	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 S067	462	3.4	1.71	0.08	0.040	0.076	0.015	2.6	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S068	1030	2.7	1.75	0.09	0.017	0.073	0.001	0.4	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S069	439	3.1	3.39	0.05	0.038	0.049	0.016	3.8	< 20	0.1	< 1	0.8	< 0.2	< 0.1	0.1
678 S070	246	3.0	1.78	0.05	0.021	0.056	0.026	1.6	< 20	0.2	< 1	< 0.5	< 0.2	< 0.1	0.2
678 S071	190	1.7	0.99	0.04	0.017	0.027	0.043	1.2	< 20	0.2	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S072	449	4.0	1.50	0.04	0.046	0.050	0.013	2.9	< 20	< 0.1	< 1	0.8	< 0.2	< 0.1	< 0.1
678 S073	381	1.8	1.44	0.04	0.024	0.058	0.026	1.8	< 20	0.2	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S074	477	2.2	1.24	0.05	0.027	0.131	0.017	1.8	< 20	0.2	< 1	< 0.5	< 0.2	< 0.1	0.1
678 S075	983	4.8	2.55	0.14	0.026	0.058	0.008	2.7	< 20	0.2	< 1	< 0.5	< 0.2	0.1	3.1
678 S076	628	2.9	2.03	0.05	0.049	0.050	0.049	2.6	< 20	0.2	< 1	< 0.5	< 0.2	< 0.1	0.1
678 S077	584	3.1	2.07	0.05	0.054	0.043	0.036	3.2	< 20	0.1	< 1	0.5	< 0.2	< 0.1	< 0.1
678 S078	633	1.6	1.25	0.02	0.022	0.057	0.009	0.6	< 20	< 0.1	< 1	0.7	< 0.2	< 0.1	< 0.1
678 S079	745	4.2	3.60	0.05	0.091	0.076	0.039	3.4	< 20	< 0.1	< 1	0.6	< 0.2	< 0.1	0.1
678 S080	224	2.7	1.06	0.07	0.030	0.023	0.011	1.2	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S081	256	2.2	0.75	0.06	0.030	0.088	0.008	2.8	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S082	411	2.6	1.12	0.06	0.032	0.076	0.010	2.8	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S083	957	3.5	2.89	0.04	0.056	0.062	0.021	2.4	< 20	0.1	< 1	0.5	< 0.2	< 0.1	< 0.1
678 S084	927	3.3	2.09	0.03	0.029	0.056	0.015	1.1	< 20	0.1	< 1	1.0	< 0.2	< 0.1	< 0.1
678 S085	638	1.9	1.26	0.02	0.029	0.058	0.005	0.3	< 20	< 0.1	< 1	1.3	< 0.2	< 0.1	< 0.1
678 S086	64	1.8	0.73	0.05	0.021	0.038	0.006	0.3	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S087	500	5.6	2.90	0.09	0.041	0.080	0.022	3.9	< 20	0.1	< 1	0.7	< 0.2	< 0.1	< 0.1
678 S088	270	3.5	1.86	0.08	0.024	0.050	0.010	2.6	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S089	291	4.1	3.23	0.06	0.041	0.052	0.011	3.4	< 20	0.2	< 1	0.7	< 0.2	0.1	0.1
678 S090	478	4.0	2.00	0.09	0.045	0.053	0.011	2.6	< 20	0.3	< 1	0.6	< 0.2	< 0.1	< 0.1
678 S091	224	2.0	0.60	0.05	0.033	0.084	0.008	4.2	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1
678 S092	137	1.7	0.97	0.04	0.026	0.031	0.014	1.8	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	0.1
678 S093	440	2.4	1.42	0.07	0.026	0.110	0.017	1.5	< 20	0.2	< 1	< 0.5	< 0.2	< 0.1	0.1



Sample Number	Sample Type	Report Number	Datum	Zone	UTM East m	UTM North m	Analyte Symbol -- >	Cu	Mo	As	Sb	Au	Au
							Unit Symbol -->	ppm	ppm	ppm	ppm	ppb	ppb
							Detection Limit -->	0.1	0.1	0.5	0.1	5	0.5
							Analysis Method -->	AR-MS	AR-MS	AR-MS	AR-MS	FA-AA	AR-MS

QC/QA AnalysisStandards:

GXR-1 Meas	A16-09988	999.0	16.4	379.0	80.2	> 1000.0
GXR-1 Cert	A16-09988	1110.0	18.0	427.0	122.0	3300.0
GXR-4 Meas	A16-09988	6310.0	296.0	94.1	3.3	
GXR-4 Cert	A16-09988	6520.0	310.0	98.0	4.8	
GXR-6 Meas	A16-09988	56.0	1.6	206.0	1.5	
GXR-6 Cert	A16-09988	66.0	2.4	330.0	3.6	
OxD108 Meas	A16-09988					418
OxD108 Meas	A16-09988					406
OxD108 Meas	A16-09988					405
OxD108 Meas	A16-09988					395
OxD108 Meas	A16-09988					397
OxD108 Meas	A16-09988					399
OxD108 Cert	A16-09988					414
SG66 Meas	A16-09988					1110
SG66 Meas	A16-09988					1100
SG66 Meas	A16-09988					1090
SG66 Meas	A16-09988					1080
SG66 Meas	A16-09988					1060
SG66 Meas	A16-09988					1050
SG66 Cert	A16-09988					1090
OREAS 922 (AQUA REGIA) Meas	A16-09988	2110.0	0.6	5.6	0.6	
OREAS 922 (AQUA REGIA) Cert	A16-09988	2176.0	0.7	6.1	0.6	
OREAS 923 (AQUA REGIA) Meas	A16-09988	4060.0	0.8	6.9	0.7	
OREAS 923 (AQUA REGIA) Cert	A16-09988	4248.0	0.8	7.1	0.6	

	Ag	Pb	Zn	Cd	Ni	Co	Cr	Fe	Ga	Mg	V	Ba	Ca	Sr	Hg	La
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	0.1	0.1	1	0.1	0.1	0.1	1	0.01	1	0.01	2	0.5	0.01	1	0.01	1
Sample Number	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS

QC/QA AnalysisStandards:

GXR-1 Meas	33.5	752.0	743	2.4	34.2	6.8	5	23.30	4	0.12	65	105.0	0.73	168	3.92	5
GXR-1 Cert	31.0	730.0	760	3.3	41.0	8.2	12	23.60	14	0.22	80	750.0	0.96	275	3.90	8
GXR-4 Meas	2.8	39.2	67	0.1	34.3	12.7	49	2.88	10	1.48	70	21.7	0.77	68		43
GXR-4 Cert	4.0	52.0	73	0.9	42.0	14.6	64	3.09	20	1.66	87	1640.0	1.01	221		65
GXR-6 Meas	0.1	89.7	111	< 0.1	19.7	11.4	66	5.07	11	0.32	139	786.0	0.12	27		10
GXR-6 Cert	1.3	101.0	118	1.0	27.0	13.8	96	5.58	35	0.61	186	1300.0	0.18	35		14
OxD108 Meas																
OxD108 Meas																
OxD108 Meas																
OxD108 Meas																
OxD108 Meas																
OxD108 Meas																
OxD108 Cert																
SG66 Meas																
SG66 Meas																
SG66 Meas																
SG66 Meas																
SG66 Meas																
SG66 Meas																
SG66 Cert																
OREAS 922 (AQUA REGIA) Meas	0.4	53.8	250	0.3	31.3	16.6	40	4.82	7	1.20	28	79.8	0.34	15		35
OREAS 922 (AQUA REGIA) Cert	0.9	60.0	256	0.3	34.3	19.4	41	5.05	8	1.33	29	70.0	0.32	15		33
OREAS 923 (AQUA REGIA) Meas	1.3	69.6	314	0.4	29.2	19.0	37	5.58	8	1.30	28	66.9	0.35	13		32
OREAS 923 (AQUA REGIA) Cert	1.6	81.0	335	0.4	32.7	22.2	39	5.91	8	1.43	31	54.0	0.33	14		30

	Mn	Sc	Al	K	Na	P	Ti	Th	B	Bi	S	Se	Te	Tl	W
	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Sample	1	0.1	0.01	0.01	0.001	0.001	0.001	0.1	20	0.1	1	0.5	0.2	0.1	0.1
Number	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS

QC/QA AnalysisStandards:

GXR-1 Meas	807	1.0	0.34	0.03	0.043	0.041	0.001	1.6	< 20	1670.0	< 1	14.8	13.9	0.4	142.0
GXR-1 Cert	852	1.6	3.52	0.05	0.052	0.065	0.036	2.4	15	1380.0	0	16.6	13.0	0.4	164.0
GXR-4 Meas	119	6.0	2.56	1.61	0.136	0.116	0.011	15.7	< 20	18.5	2	5.1	1.0	2.8	10.2
GXR-4 Cert	155	7.7	7.20	4.01	0.564	0.120	0.290	22.5	5	19.0	2	5.6	1.0	3.2	30.8
GXR-6 Meas	933	19.4	6.52	1.04	0.061	0.031		3.6	< 20	0.2	< 1	< 0.5	< 0.2	1.9	< 0.1
GXR-6 Cert	1010	27.6	17.70	1.87	0.104	0.035		5.3	10	0.3	0	0.9	0.0	2.2	1.9
OxD108 Meas															
OxD108 Meas															
OxD108 Meas															
OxD108 Meas															
OxD108 Meas															
OxD108 Meas															
OxD108 Cert															
SG66 Meas															
SG66 Meas															
SG66 Meas															
SG66 Meas															
SG66 Meas															
SG66 Meas															
SG66 Cert															
OREAS 922 (AQUA REGIA) Meas	697	3.3	2.57	0.42	0.026	0.057		13.5		9.6	< 1	2.9		0.2	0.9
OREAS 922 (AQUA REGIA) Cert	730	3.2	2.72	0.38	0.021	0.063		14.5		10.3	0	3.4		0.1	1.1
OREAS 923 (AQUA REGIA) Meas	792	3.2	2.67	0.37		0.055		13.0		19.1	< 1	5.3		0.2	1.8
OREAS 923 (AQUA REGIA) Cert	850	3.1	2.80	0.32		0.061		14.3		21.8	1	6.0		0.1	2.0

Sample Number	Sample Type	Report Number	Datum	Zone	UTM East m	UTM North m	Analyte Symbol -- >	Cu	Mo	As	Sb	Au	Au
							Unit Symbol -->	ppm	ppm	ppm	ppm	ppb	ppb
							Detection Limit -->	0.1	0.1	0.5	0.1	5	0.5
							Analysis Method -->	AR-MS	AR-MS	AR-MS	AR-MS	FA-AA	AR-MS
SdAR-M2 (U.S.G.S.) Meas		A16-09988						211.0	11.9				
SdAR-M2 (U.S.G.S.) Cert		A16-09988						236.0	13.3				
<b><u>Duplicate Analysis:</u></b>													
678 S005 Orig		A16-09988										8	
678 S005 Dup		A16-09988										9	
678 S013 Orig		A16-09988						32.5	2.4	1.6	0.1		< 0.5
678 S013 Dup		A16-09988						31.8	2.3	1.6	0.1		6.2
678 S018 Orig		A16-09988										< 5	
678 S018 Dup		A16-09988										< 5	
678 S025 Orig		A16-09988										22	
678 S025 Dup		A16-09988										26	
678 S027 Orig		A16-09988						29.2	1.4	2.0	0.1		< 0.5
678 S027 Dup		A16-09988						27.8	1.5	2.7	0.2		< 0.5
678 S040 Orig		A16-09988						11.7	1.3	3.0	0.2	9	< 0.5
678 S040 Dup		A16-09988						12.0	1.3	2.5	0.2	< 5	< 0.5
678 S053 Orig		A16-09988										5	
678 S053 Dup		A16-09988										6	
678 S054 Orig		A16-09988						12.6	1.6	3.2	0.2		< 0.5
678 S054 Dup		A16-09988						12.6	1.6	3.8	0.3		< 0.5
678 S060 Orig		A16-09988										6	
678 S060 Dup		A16-09988										19	
678 S075 Orig		A16-09988										5	
678 S075 Dup		A16-09988										6	
678 S077 Orig		A16-09988						32.3	1.8	3.1	0.2		4.9
678 S077 Dup		A16-09988						32.9	1.6	3.2	0.2		< 0.5

	Ag	Pb	Zn	Cd	Ni	Co	Cr	Fe	Ga	Mg	V	Ba	Ca	Sr	Hg	La
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample	0.1	0.1	1	0.1	0.1	0.1	1	0.01	1	0.01	2	0.5	0.01	1	0.01	1
Number	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
SdAR-M2 (U.S.G.S.) Meas		709.0	724	4.6	41.4	10.9	8		3		14	105.0		19		39
SdAR-M2 (U.S.G.S.) Cert		808.0	760	5.1	48.8	12.4	50		18		25	990.0		144		47
<b><u>Duplicate Analysis:</u></b>																
678 S005 Orig																
678 S005 Dup																
678 S013 Orig	0.1	1.3	56	0.1	31.4	13.3	49	4.82	13	0.44	74	95.5	0.39	30	0.05	20
678 S013 Dup	0.2	1.4	61	0.1	30.2	12.4	47	4.64	13	0.41	72	91.0	0.37	29	0.05	18
678 S018 Orig																
678 S018 Dup																
678 S025 Orig																
678 S025 Dup																
678 S027 Orig	< 0.1	6.7	118	0.2	37.6	13.4	44	4.61	11	0.56	66	166.0	0.30	26	0.01	22
678 S027 Dup	< 0.1	3.6	116	0.2	36.0	13.3	43	4.59	12	0.53	66	158.0	0.29	25	0.04	22
678 S040 Orig	< 0.1	10.6	51	0.1	16.3	7.0	34	3.36	9	0.36	64	115.0	0.19	24	0.03	8
678 S040 Dup	< 0.1	10.0	53	0.2	17.2	7.7	36	3.58	9	0.38	66	122.0	0.20	25	0.03	8
678 S053 Orig																
678 S053 Dup																
678 S054 Orig	< 0.1	3.1	145	0.1	43.9	15.4	51	4.97	12	0.61	74	90.7	0.17	12	0.05	13
678 S054 Dup	< 0.1	3.5	145	0.2	42.7	15.2	51	4.99	13	0.59	73	92.5	0.18	13	0.02	13
678 S060 Orig																
678 S060 Dup																
678 S075 Orig																
678 S075 Dup																
678 S077 Orig	< 0.1	4.8	189	0.3	32.7	14.9	46	5.04	13	0.49	76	236.0	0.56	47	0.02	15
678 S077 Dup	0.1	4.5	189	0.3	32.3	15.1	46	5.05	14	0.48	77	238.0	0.58	49	0.01	16

	Mn	Sc	Al	K	Na	P	Ti	Th	B	Bi	S	Se	Te	Tl	W	
	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
Sample Number	1	0.1	0.01	0.01	0.001	0.001	0.001	0.1	20	0.1	1	0.5	0.2	0.1	0.1	
	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
SdAR-M2 (U.S.G.S.) Meas		1.8						9.4		0.9					0.8	
SdAR-M2 (U.S.G.S.) Cert		4.1						14.2		1.1					2.8	
<b><u>Duplicate Analysis:</u></b>																
678 S005 Orig																
678 S005 Dup																
678 S013 Orig	743	4.5	3.12	0.04	0.057	0.063	0.029	1.3	< 20	< 0.1	< 1	0.9	< 0.2	< 0.1	< 0.1	
678 S013 Dup	709	4.3	2.98	0.04	0.054	0.062	0.028	1.2	< 20	< 0.1	< 1	0.8	< 0.2	< 0.1	< 0.1	
678 S018 Orig																
678 S018 Dup																
678 S025 Orig																
678 S025 Dup																
678 S027 Orig	708	4.8	2.98	0.06	0.046	0.057	0.016	2.4	< 20	< 0.1	< 1	0.5	< 0.2	< 0.1	< 0.1	
678 S027 Dup	727	4.8	3.03	0.06	0.045	0.067	0.018	2.3	< 20	< 0.1	< 1	0.6	< 0.2	< 0.1	< 0.1	
678 S040 Orig	593	2.3	1.37	0.09	0.022	0.052	0.013	1.1	< 20	< 0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1	
678 S040 Dup	652	2.6	1.47	0.09	0.023	0.049	0.011	1.3	< 20	0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1	
678 S053 Orig																
678 S053 Dup																
678 S054 Orig	492	4.1	3.93	0.04	0.034	0.090	0.028	3.4	< 20	0.1	< 1	< 0.5	< 0.2	< 0.1	< 0.1	
678 S054 Dup	494	4.2	4.03	0.05	0.036	0.097	0.031	3.3	< 20	0.1	< 1	0.6	< 0.2	< 0.1	< 0.1	
678 S060 Orig																
678 S060 Dup																
678 S075 Orig																
678 S075 Dup																
678 S077 Orig	582	3.1	2.05	0.05	0.053	0.041	0.035	3.3	< 20	0.1	< 1	0.5	< 0.2	< 0.1	< 0.1	
678 S077 Dup	586	3.1	2.08	0.05	0.055	0.044	0.037	3.0	< 20	0.2	< 1	0.5	< 0.2	< 0.1	< 0.1	

Sample Number	Sample Type	Report Number	Datum	Zone	UTM East m	UTM North m	Analyte Symbol -- >	Cu	Mo	As	Sb	Au	Au
							Unit Symbol -->	ppm	ppm	ppm	ppm	ppb	ppb
							Detection Limit -->	0.1	0.1	0.5	0.1	5	0.5
							Analysis Method -->	AR-MS	AR-MS	AR-MS	AR-MS	FA-AA	AR-MS
678 S088 Orig		A16-09988										< 5	
678 S088 Dup		A16-09988										< 5	
678 S091 Orig		A16-09988						14.3	0.4	2.2	0.2		< 0.5
678 S091 Dup		A16-09988						15.1	0.4	2.3	0.2		< 0.5
<b><u>Analytical Blanks:</u></b>													
Method Blank		A16-09988										< 5	
Method Blank		A16-09988										< 5	
Method Blank		A16-09988										5	
Method Blank		A16-09988										< 5	
Method Blank		A16-09988										< 5	
Method Blank		A16-09988										< 5	
Method Blank		A16-09988										< 5	
Method Blank		A16-09988										< 5	
Method Blank		A16-09988										< 5	
Method Blank		A16-09988										< 5	
Method Blank		A16-09988										< 5	
Method Blank		A16-09988										< 5	

Discovery Consultants  
W.R. Gilmour, PGeo  
May 1, 2017

	Ag	Pb	Zn	Cd	Ni	Co	Cr	Fe	Ga	Mg	V	Ba	Ca	Sr	Hg	La
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	0.1	0.1	1	0.1	0.1	0.1	1	0.01	1	0.01	2	0.5	0.01	1	0.01	1
Sample Number	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS

678 S088 Orig

678 S088 Dup

678 S091 Orig	< 0.1	< 0.1	18	< 0.1	17.0	5.5	29	2.42	3	0.38	63	66.9	0.44	35	< 0.01	12
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678 S091 Dup	< 0.1	< 0.1	18	< 0.1	16.8	5.6	30	2.41	3	0.38	62	71.9	0.44	34	< 0.01	12
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**Analytical Blanks:**

- Method Blank
- Method Blank
- Method Blank
- Method Blank
- Method Blank
- Method Blank
- Method Blank
- Method Blank
- Method Blank
- Method Blank
- Method Blank
- Method Blank

Dis

W



	Mn	Sc	Al	K	Na	P	Ti	Th	B	Bi	S	Se	Te	Tl	W
	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Sample	1	0.1	0.01	0.01	0.001	0.001	0.001	0.1	20	0.1	1	0.5	0.2	0.1	0.1
Number	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS

678 S088 Orig

678 S088 Dup

678 S091 Orig                    222      2.0      0.60      0.05      0.032      0.085      0.008      5.7      < 20      < 0.1      < 1      < 0.5      < 0.2      < 0.1      < 0.1

678 S091 Dup                    225      1.9      0.60      0.05      0.034      0.084      0.008      2.7      < 20      < 0.1      < 1      < 0.5      < 0.2      < 0.1      0.1

**Analytical Blanks:**

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## **APPENDIX V**

### **CERTIFICATES OF ANALYSIS**



**Date Submitted:** 28-Sep-16  
**Invoice No.:** A16-09989  
**Invoice Date:** 14-Oct-16  
**Your Reference:** 678

**Discovery Consultants**  
**P.O. Box 933**  
**Vernon BC V1T 6M8**  
**Canada**

**ATTN: Bill Gilmour**

## CERTIFICATE OF ANALYSIS

10 Stream Sediment samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Kamloops Au - Fire Assay AA

Code 1DX/AQ200-Kamloops Aqua Regia ICP/MS

REPORT **A16-09989**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Note: Au by this package is not reliable and you should have Au by Fire Assay done if you need accurate Au values.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Esemé". The signature is written over a horizontal line.

Emmanuel Esemé, Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
9989 Dallas Drive, Kamloops, British Columbia, Canada, V2C 6T4  
TELEPHONE +250 573-4484 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Kamloops@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni
Unit Symbol	ppb	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.1	0.01	0.5	0.5	20	0.5	0.1	0.01	0.1	0.1	1	0.1	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1
Method Code	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
678 L001	< 5	< 0.1	1.51	8.9	2.7	< 20	148	< 0.1	1.04	0.6	13.6	43	46.9	5.04	5	0.04	0.05	15	0.57	3160	3.8	0.056	27.0
678 L002	< 5	< 0.1	1.42	5.3	< 0.5	< 20	107	< 0.1	0.82	0.1	11.6	49	30.3	2.94	5	0.04	0.09	9	0.67	703	1.3	0.045	29.6
678 L003	< 5	< 0.1	1.58	7.2	2.7	< 20	101	< 0.1	0.87	0.2	15.0	56	39.3	2.89	6	< 0.01	0.10	10	0.82	669	1.5	0.057	31.6
678 L004	5	< 0.1	1.64	6.3	< 0.5	< 20	121	< 0.1	1.01	0.2	15.0	65	74.1	3.30	5	0.03	0.10	10	0.98	1110	2.5	0.052	31.9
678 L005	< 5	< 0.1	1.28	24.2	< 0.5	< 20	381	< 0.1	0.82	0.4	13.7	40	75.9	8.14	4	0.03	0.09	8	0.57	7900	5.4	0.035	23.9
678 L006	7	< 0.1	1.57	4.4	< 0.5	< 20	94.2	< 0.1	0.77	0.6	13.2	48	55.4	4.57	6	0.03	0.09	14	0.87	543	1.5	0.049	34.6
678 L007	7	< 0.1	1.16	7.3	< 0.5	< 20	71.9	< 0.1	0.50	0.4	9.4	41	46.8	4.78	5	< 0.01	0.11	14	0.52	388	3.0	0.031	24.1
678 L008	6	< 0.1	1.16	7.1	0.6	< 20	161	< 0.1	0.67	0.6	8.5	39	45.9	4.15	5	0.02	0.09	18	0.47	397	1.7	0.029	24.1
678 L009	< 5	< 0.1	1.50	6.4	0.6	< 20	225	< 0.1	0.74	0.1	10.1	39	49.2	2.86	6	0.04	0.07	20	0.64	332	1.3	0.059	33.7
678 L010	< 5	< 0.1	0.95	3.6	0.6	< 20	172	< 0.1	0.63	< 0.1	10.1	48	22.5	4.31	4	0.02	0.05	17	0.63	441	0.7	0.044	31.6

Analyte Symbol	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	V	W	Zn
Unit Symbol	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.001	0.1	1	0.1	0.1	0.5	1	0.2	0.1	0.001	0.1	2	0.1	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
678 L001	0.102	1.5	< 1	0.2	4.5	0.9	62	< 0.2	1.6	0.016	< 0.1	65	< 0.1	126
678 L002	0.091	2.2	< 1	0.2	4.3	< 0.5	51	< 0.2	1.5	0.013	0.1	64	< 0.1	71
678 L003	0.098	2.7	< 1	0.3	4.7	< 0.5	52	< 0.2	1.9	0.016	< 0.1	75	< 0.1	70
678 L004	0.120	4.1	< 1	0.2	5.2	0.5	57	< 0.2	1.4	0.013	< 0.1	72	< 0.1	75
678 L005	0.093	2.5	< 1	0.8	4.6	0.7	55	< 0.2	1.1	0.008	< 0.1	67	< 0.1	93
678 L006	0.081	2.2	< 1	0.4	5.1	0.7	62	< 0.2	1.9	0.016	0.2	117	< 0.1	114
678 L007	0.086	3.0	< 1	0.9	4.1	< 0.5	38	< 0.2	2.3	0.010	0.3	130	< 0.1	101
678 L008	0.085	5.9	< 1	0.6	3.4	0.9	57	< 0.2	3.0	0.009	0.2	102	< 0.1	107
678 L009	0.083	3.2	< 1	0.3	3.8	0.5	69	< 0.2	2.3	0.016	< 0.1	56	< 0.1	73
678 L010	0.084	0.4	< 1	0.3	2.7	0.5	58	< 0.2	2.4	0.014	< 0.1	103	< 0.1	46

Analyte Symbol	Au	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni
Unit Symbol	ppb	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.1	0.01	0.5	0.5	20	0.5	0.1	0.01	0.1	0.1	1	0.1	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1
Method Code	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas		33.5	0.34	379	> 1000	< 20	105	1670	0.73	2.4	6.8	5	999	23.3	4	3.92	0.03	5	0.12	807	16.4	0.043	34.2
GXR-1 Cert		31.0	3.52	427	3300	15.0	750	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	7.50	0.217	852	18.0	0.0520	41.0
GXR-4 Meas		2.8	2.56	94.1		< 20	21.7	18.5	0.77	0.1	12.7	49	6310	2.88	10		1.61	43	1.48	119	296	0.136	34.3
GXR-4 Cert		4.0	7.20	98.0		4.50	1640	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0		4.01	64.5	1.66	155	310	0.564	42.0
GXR-6 Meas		0.1	6.52	206		< 20	786	0.2	0.12	< 0.1	11.4	66	56.0	5.07	11		1.04	10	0.32	933	1.6	0.061	19.7
GXR-6 Cert		1.30	17.7	330		9.80	1300	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0		1.87	13.9	0.609	1010	2.40	0.104	27.0
OxD108 Meas	418																						
OxD108 Cert	414																						
OxD108 Meas	406																						
OxD108 Cert	414																						
OxD108 Meas	405																						
OxD108 Cert	414																						
OxD108 Meas	395																						
OxD108 Cert	414																						
OxD108 Meas	397																						
OxD108 Cert	414																						
OxD108 Meas	399																						
OxD108 Cert	414																						
SG66 Meas	1110																						
SG66 Cert	1090																						
SG66 Meas	1100																						
SG66 Cert	1090																						
SG66 Meas	1090																						
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SG66 Meas	1060																						
SG66 Cert	1090																						
SG66 Meas	1050																						
SG66 Cert	1090																						
OREAS 922 (AQUA REGIA) Meas		0.4	2.57	5.6			79.8	9.6	0.34	0.3	16.6	40	2110	4.82	7		0.42	35	1.20	697	0.6	0.026	31.3
OREAS 922 (AQUA REGIA) Cert		0.851	2.72	6.12			70	10.3	0.324	0.28	19.4	40.7	2176	5.05	7.62		0.376	32.5	1.33	730	0.69	0.021	34.3
OREAS 923 (AQUA REGIA) Meas		1.3	2.67	6.9			66.9	19.1	0.35	0.4	19.0	37	4060	5.58	8		0.37	32	1.30	792	0.8		29.2
OREAS 923 (AQUA REGIA) Cert		1.62	2.80	7.07			54	21.8	0.326	0.40	22.2	39.4	4248	5.91	8.01		0.322	30.0	1.43	850	0.84		32.7
SdAR-M2 (U.S.G.S.) Meas							105	0.9		4.6	10.9	8	211		3			39			11.9		41.4
SdAR-M2 (U.S.G.S.) Cert							990	1.05		5.1	12.4	49.6	236.0000		17.6			46.6			13.3		48.8
678 L002 Orig	< 5																						
678 L002 Dup	< 5																						
Method Blank	< 5																						
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Analyte Symbol	Au	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni
Unit Symbol	ppb	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.1	0.01	0.5	0.5	20	0.5	0.1	0.01	0.1	0.1	1	0.1	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1
Method Code	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
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Analyte Symbol	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	V	W	Zn
Unit Symbol	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.001	0.1	1	0.1	0.1	0.5	1	0.2	0.1	0.001	0.1	2	0.1	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
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**Date Submitted:** 26-Sep-16  
**Invoice No.:** A16-09851  
**Invoice Date:** 14-Oct-16  
**Your Reference:** 678

**Discovery Consultants**  
**P.O. Box 933**  
**Vernon BC V1T 6M8**  
**Canada**

**ATTN: Bill Gilmour**

## CERTIFICATE OF ANALYSIS

28 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Kamloops Au - Fire Assay AA

Code 1DX/AQ200-Kamloops Aqua Regia ICP/MS

Code Sieve Report-Kamloops-Internal Sieve Report

REPORT **A16-09851**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Note: Au by this package is not reliable and you should have Au by Fire Assay done if you need accurate Au values.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written over a horizontal line.

Emmanuel Esemé , Ph.D.  
Quality Control

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Analyte Symbol	Au	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni
Unit Symbol	ppb	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.1	0.01	0.5	0.5	20	0.5	0.1	0.01	0.1	0.1	1	0.1	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1
Method Code	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
678 RM01	< 5	< 0.1	2.75	13.1	< 0.5	< 20	20.4	< 0.1	3.12	0.2	23.7	120	126	4.36	8	< 0.01	0.15	3	2.24	844	0.2	0.132	38.0
678 RM02	7	< 0.1	0.47	3.1	7.2	< 20	47.1	< 0.1	0.66	< 0.1	4.1	18	27.9	2.10	3	< 0.01	0.12	11	0.33	244	1.0	0.104	4.5
678 RM03	< 5	< 0.1	0.49	2.8	1.8	< 20	53.0	< 0.1	0.72	< 0.1	4.7	20	19.3	2.04	4	< 0.01	0.10	13	0.37	346	0.8	0.121	4.6
678 RM04	< 5	< 0.1	0.82	3.0	< 0.5	< 20	76.1	< 0.1	1.95	< 0.1	9.3	36	18.8	3.06	5	< 0.01	0.10	14	0.89	602	1.0	0.109	13.1
678 RM05	37	< 0.1	0.45	2.2	< 0.5	< 20	62.7	< 0.1	0.78	< 0.1	5.4	20	23.4	2.35	3	< 0.01	0.12	13	0.38	380	1.2	0.144	5.0
678 RM06	9	< 0.1	1.54	3.3	2.0	< 20	125	0.1	2.06	< 0.1	11.8	9	292	3.72	9	< 0.01	0.14	14	1.31	752	0.2	0.088	6.8
678 RM07	< 5	< 0.1	0.33	0.9	3.5	< 20	31.7	< 0.1	0.09	< 0.1	1.5	12	2.3	1.00	2	< 0.01	0.18	25	0.13	374	2.0	0.094	2.1
678 RM08	< 5	< 0.1	1.34	2.7	2.8	< 20	36.5	< 0.1	0.56	< 0.1	9.3	7	43.4	3.92	7	< 0.01	0.15	6	0.97	653	0.7	0.122	3.0
678 RM09	< 5	0.1	2.07	2.6	2.0	< 20	28.5	< 0.1	2.33	0.1	21.1	95	79.7	3.91	7	< 0.01	0.20	3	2.17	743	0.8	0.176	29.3
678 RM10	< 5	< 0.1	2.25	4.2	< 0.5	< 20	23.1	< 0.1	2.10	< 0.1	27.2	121	479	3.97	8	< 0.01	0.12	5	2.46	686	1.7	0.096	37.1
678 RM11	9	< 0.1	2.03	3.0	< 0.5	< 20	44.4	< 0.1	1.72	< 0.1	22.9	47	96.0	4.71	8	< 0.01	0.22	9	1.98	864	0.7	0.181	18.3
678 RM12	7	< 0.1	2.62	1.0	< 0.5	< 20	45.8	< 0.1	2.39	< 0.1	18.7	7	98.6	5.71	11	< 0.01	0.35	6	1.92	1130	1.2	0.198	8.8
678 RM13	< 5	< 0.1	0.40	9.6	< 0.5	< 20	104	< 0.1	0.03	0.3	3.1	9	14.9	1.00	2	< 0.01	0.19	5	0.02	330	0.8	0.037	4.0
678 RM14	5	< 0.1	0.54	10.5	< 0.5	< 20	85.3	< 0.1	0.17	0.1	6.3	8	65.3	1.70	2	< 0.01	0.21	11	0.04	438	1.5	0.034	4.5
678 RM15	< 5	< 0.1	0.56	2.4	7.1	< 20	57.9	< 0.1	0.71	< 0.1	5.6	18	21.6	2.45	4	< 0.01	0.13	15	0.42	409	1.3	0.141	5.1
678 RM16	< 5	< 0.1	1.54	3.4	< 0.5	< 20	70.1	< 0.1	1.07	< 0.1	9.2	54	2.2	3.39	9	< 0.01	0.07	11	1.49	545	0.6	0.099	18.1
678 RM17	< 5	< 0.1	0.34	16.4	< 0.5	< 20	70.5	< 0.1	0.02	< 0.1	0.5	12	5.4	0.68	1	< 0.01	0.20	7	0.01	31	0.5	0.034	1.1
678 RM18	< 5	< 0.1	0.83	1.6	< 0.5	< 20	95.2	< 0.1	1.08	< 0.1	7.2	27	42.2	2.43	5	< 0.01	0.15	16	0.47	516	0.3	0.088	8.8
678 RM19	< 5	< 0.1	0.45	1.5	< 0.5	< 20	58.4	< 0.1	0.54	< 0.1	4.1	20	16.6	1.97	3	< 0.01	0.12	10	0.31	279	0.6	0.123	4.4
678 RM20	< 5	< 0.1	1.95	1.2	< 0.5	< 20	27.6	< 0.1	2.13	0.2	23.6	61	231	4.34	7	< 0.01	0.17	3	2.21	1020	1.0	0.187	22.4
678 RM21	20	< 0.1	0.49	2.5	< 0.5	< 20	71.2	< 0.1	0.91	< 0.1	4.9	23	5.8	2.26	3	< 0.01	0.13	14	0.43	257	0.6	0.113	7.7
678 RC01	17	< 0.1	1.76	3.1	< 0.5	< 20	62.5	< 0.1	1.08	< 0.1	10.6	17	2.8	3.39	9	< 0.01	0.14	14	1.29	695	0.2	0.072	8.0
678 RC02	9	< 0.1	4.00	3.9	3.9	< 20	57.0	< 0.1	3.99	0.1	22.8	45	406	4.67	12	< 0.01	0.27	7	1.20	849	0.7	0.712	29.0
678 RC03	11	< 0.1	2.01	30.2	< 0.5	50	50.6	< 0.1	1.64	0.4	17.6	15	229	3.85	7	< 0.01	0.65	4	1.18	722	0.8	0.112	9.9
678 RC04	105	< 0.1	2.37	2.9	< 0.5	< 20	40.2	< 0.1	3.30	< 0.1	19.0	75	113	4.37	9	< 0.01	0.25	5	2.28	933	0.6	0.144	24.6
678 RC05	8	< 0.1	1.59	5.1	1.8	< 20	52.9	< 0.1	2.87	0.1	13.4	6	224	3.70	8	< 0.01	0.16	5	1.04	1170	0.5	0.062	7.5
678 RC06	< 5	< 0.1	0.48	1.6	1.6	< 20	76.7	< 0.1	1.48	< 0.1	5.5	11	3.4	2.02	2	< 0.01	0.22	15	0.47	566	0.2	0.055	5.4
678 RC07	< 5	< 0.1	0.65	2.8	< 0.5	< 20	57.1	< 0.1	0.45	< 0.1	6.3	18	54.2	2.36	5	< 0.01	0.12	17	0.49	430	0.9	0.106	6.0

Analyte Symbol	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	V	W	Zn
Unit Symbol	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.001	0.1	1	0.1	0.1	0.5	1	0.2	0.1	0.001	0.1	2	0.1	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
678 RM01	0.113	5.0	< 1	0.2	9.2	< 0.5	65	< 0.2	0.4	0.021	< 0.1	148	0.2	55
678 RM02	0.094	< 0.1	< 1	0.8	1.5	< 0.5	26	< 0.2	4.3	0.012	< 0.1	59	0.1	19
678 RM03	0.091	0.2	< 1	0.4	2.1	< 0.5	48	< 0.2	4.4	0.013	< 0.1	58	0.1	23
678 RM04	0.113	< 0.1	< 1	0.2	4.4	< 0.5	54	< 0.2	4.1	0.014	< 0.1	84	0.1	38
678 RM05	0.096	2.0	< 1	0.2	2.2	< 0.5	37	< 0.2	5.2	0.017	< 0.1	72	0.1	26
678 RM06	0.185	< 0.1	< 1	0.2	6.7	0.5	52	< 0.2	2.7	0.001	< 0.1	121	< 0.1	52
678 RM07	0.020	< 0.1	< 1	< 0.1	1.1	< 0.5	5	< 0.2	13.0	0.006	< 0.1	13	0.1	14
678 RM08	0.091	< 0.1	< 1	< 0.1	10.6	< 0.5	15	< 0.2	1.4	0.023	< 0.1	53	0.1	58
678 RM09	0.199	5.1	< 1	0.2	11.2	< 0.5	38	< 0.2	0.6	0.021	< 0.1	138	0.1	79
678 RM10	0.193	< 0.1	< 1	0.5	9.3	< 0.5	121	< 0.2	0.9	0.025	< 0.1	142	0.1	57
678 RM11	0.189	< 0.1	< 1	0.2	11.3	< 0.5	44	< 0.2	2.4	0.018	< 0.1	157	0.1	74
678 RM12	0.142	2.7	< 1	0.2	10.0	< 0.5	27	< 0.2	1.0	0.015	< 0.1	203	0.1	85
678 RM13	0.006	2.8	< 1	0.9	0.4	< 0.5	17	< 0.2	0.8	< 0.001	< 0.1	5	< 0.1	40
678 RM14	0.025	3.7	< 1	0.7	1.5	< 0.5	23	< 0.2	2.3	< 0.001	< 0.1	15	< 0.1	35
678 RM15	0.087	< 0.1	< 1	0.3	2.7	< 0.5	37	< 0.2	7.3	0.019	< 0.1	70	0.1	30
678 RM16	0.087	< 0.1	< 1	0.3	5.9	< 0.5	45	< 0.2	3.4	0.017	< 0.1	77	0.4	40
678 RM17	0.004	8.5	< 1	1.5	0.4	< 0.5	29	< 0.2	1.5	< 0.001	< 0.1	5	< 0.1	4
678 RM18	0.086	3.0	< 1	0.4	2.8	< 0.5	63	< 0.2	4.2	0.001	< 0.1	63	< 0.1	38
678 RM19	0.074	27.5	< 1	0.2	1.5	< 0.5	38	< 0.2	4.1	0.013	< 0.1	57	< 0.1	27
678 RM20	0.171	3.2	< 1	0.1	11.1	< 0.5	26	< 0.2	0.6	0.022	< 0.1	150	0.1	126
678 RM21	0.082	0.2	< 1	0.2	3.0	< 0.5	67	< 0.2	3.4	0.009	< 0.1	64	< 0.1	19
678 RC01	0.110	< 0.1	< 1	< 0.1	3.4	< 0.5	37	< 0.2	12.1	0.001	< 0.1	76	< 0.1	83
678 RC02	0.185	1.3	< 1	0.5	13.0	0.6	215	< 0.2	1.2	0.018	< 0.1	150	0.1	62
678 RC03	0.214	18.5	< 1	0.1	4.1	< 0.5	35	< 0.2	0.8	0.022	0.1	104	0.1	115
678 RC04	0.260	< 0.1	< 1	0.3	9.5	0.5	65	< 0.2	1.0	0.020	< 0.1	148	0.1	90
678 RC05	0.240	18.2	< 1	1.0	6.5	< 0.5	182	< 0.2	0.7	0.018	< 0.1	125	0.2	82
678 RC06	0.075	0.2	< 1	0.2	2.4	< 0.5	83	< 0.2	3.1	< 0.001	< 0.1	32	< 0.1	35
678 RC07	0.088	< 0.1	< 1	0.4	2.4	< 0.5	26	< 0.2	9.0	0.010	< 0.1	64	< 0.1	33

Analyte Symbol	Au	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni
Unit Symbol	ppb	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.1	0.01	0.5	0.5	20	0.5	0.1	0.01	0.1	0.1	1	0.1	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1
Method Code	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas		33.1	0.36	401	> 1000	< 20	197	1560	0.80	2.2	7.4	9	1100	24.5	5	3.93	0.03	5	0.13	848	16.9	0.046	36.6
GXR-1 Cert		31.0	3.52	427	3300	15.0	750	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	7.50	0.217	852	18.0	0.0520	41.0
GXR-1 Meas			0.36		> 1000		197		0.80								0.03			848		0.046	36.6
GXR-1 Cert			3.52		3300		750		0.960								0.050			852		0.0520	41.0
GXR-4 Meas		2.9	2.59	92.4	< 20	29.9	17.2	0.76	< 0.1	12.5	50	6350	2.81	10			1.62	43	1.45	118	291	0.131	33.7
GXR-4 Cert		4.0	7.20	98.0	4.50	1640	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0			4.01	64.5	1.66	155	310	0.564	42.0
GXR-4 Meas			2.59			29.9		0.76									1.62			118		0.131	33.7
GXR-4 Cert			7.20			1640		1.01									4.01			155		0.564	42.0
GXR-6 Meas		0.2	6.88	208	< 20	811	0.2	0.13	< 0.1	12.1	72	61.7	5.27	14			1.12	11	0.34	1000	1.5	0.070	21.1
GXR-6 Cert		1.30	17.7	330	9.80	1300	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0			1.87	13.9	0.609	1010	2.40	0.104	27.0
GXR-6 Meas			6.88			811		0.13									1.12			1000		0.070	21.1
GXR-6 Cert			17.7			1300		0.180									1.87			1010		0.104	27.0
SG66 Meas	1050																						
SG66 Cert	1090																						
SG66 Meas	1020																						
SG66 Cert	1090																						
OREAS 922 (AQUA REGIA) Meas		0.7	2.66	5.9		80.2	9.2	0.36	0.3	17.0	42	2120	4.75	8			0.44	35	1.19	693	0.7	0.027	32.0
OREAS 922 (AQUA REGIA) Cert		0.851	2.72	6.12		70	10.3	0.324	0.28	19.4	40.7	2176	5.05	7.62			0.376	32.5	1.33	730	0.69	0.021	34.3
OREAS 922 (AQUA REGIA) Meas			2.66			80.2		0.36									0.44			693		0.027	32.0
OREAS 922 (AQUA REGIA) Cert			2.72			70		0.324									0.376			730		0.021	34.3
OREAS 923 (AQUA REGIA) Meas		1.3	2.73	7.3		65.3	19.9	0.37	0.3	19.8	40	4230	5.59	8			0.38	33	1.32	812	0.8		30.3
OREAS 923 (AQUA REGIA) Cert		1.62	2.80	7.07		54	21.8	0.326	0.40	22.2	39.4	4248	5.91	8.01			0.322	30.0	1.43	850	0.84		32.7
OREAS 923 (AQUA REGIA) Meas			2.73			65.3		0.37									0.38			812			30.3
OREAS 923 (AQUA REGIA) Cert			2.80			54		0.326									0.322			850			32.7
OREAS 251 Meas	478																						
OREAS 251 Cert	504																						
OREAS 251 Meas	485																						
OREAS 251 Cert	504																						
678 RM08 Orig	< 5	< 0.1	1.32	2.6	3.8	< 20	35.9	< 0.1	0.56	< 0.1	9.3	7	43.0	3.87	7	< 0.01	0.15	6	0.96	647	0.6	0.121	3.0
678 RM08 Dup	26	< 0.1	1.35	2.7	1.7	< 20	37.0	< 0.1	0.56	< 0.1	9.3	7	43.9	3.97	7	< 0.01	0.15	6	0.98	659	0.7	0.122	3.1
678 RM15 Orig	< 5																						
678 RM15 Dup	< 5																						
678 RC01 Orig		< 0.1	1.81	3.2	< 0.5	< 20	64.2	< 0.1	1.10	< 0.1	10.9	17	2.9	3.47	10	< 0.01	0.14	14	1.33	715	0.3	0.075	8.1
678 RC01 Dup		< 0.1	1.71	2.9	< 0.5	< 20	60.8	< 0.1	1.05	< 0.1	10.3	17	2.6	3.31	9	< 0.01	0.14	13	1.25	675	0.2	0.068	7.8
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						

Analyte Symbol	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	V	W	Zn
Unit Symbol	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.001	0.1	1	0.1	0.1	0.5	1	0.2	0.1	0.001	0.1	2	0.1	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas	0.046	709	< 1	79.4	1.2	15.5	172	13.6	1.6	0.001	0.3	74	137	785
GXR-1 Cert	0.0650	730	0.257	122	1.58	16.6	275	13.0	2.44	0.036	0.390	80.0	164	760
GXR-1 Meas			< 1							0.001			137	
GXR-1 Cert			0.257							0.036			164	
GXR-4 Meas	0.116	36.1	2	3.1	6.2	5.4	67	0.9	15.5	0.012	2.6	71	9.9	66
GXR-4 Cert	0.120	52.0	1.77	4.80	7.70	5.60	221	0.970	22.5	0.29	3.20	87.0	30.8	73.0
GXR-4 Meas			2							0.012			9.9	
GXR-4 Cert			1.77							0.29			30.8	
GXR-6 Meas	0.032	88.2	< 1	1.5	21.4	< 0.5	28	< 0.2	3.7		1.8	148	< 0.1	121
GXR-6 Cert	0.0350	101	0.0160	3.60	27.6	0.940	35.0	0.0180	5.30		2.20	186	1.90	118
GXR-6 Meas			< 1										< 0.1	
GXR-6 Cert			0.0160										1.90	
SG66 Meas														
SG66 Cert														
SG66 Meas														
SG66 Cert														
OREAS 922 (AQUA REGIA) Meas	0.059	49.5	< 1	0.7	3.5	3.3	15		13.0		0.2	30	0.9	248
OREAS 922 (AQUA REGIA) Cert	0.063	60	0.386	0.57	3.15	3.44	15.0		14.5		0.14	29.4	1.12	256
OREAS 922 (AQUA REGIA) Meas			< 1										0.9	
OREAS 922 (AQUA REGIA) Cert			0.386										1.12	
OREAS 923 (AQUA REGIA) Meas	0.057	72.3	< 1	0.6	3.5	5.9	14		13.3		0.2	30	1.7	322
OREAS 923 (AQUA REGIA) Cert	0.061	81	0.684	0.58	3.09	5.99	13.6		14.3		0.12	30.6	1.96	335
OREAS 923 (AQUA REGIA) Meas			< 1										1.7	
OREAS 923 (AQUA REGIA) Cert			0.684										1.96	
OREAS 251 Meas														
OREAS 251 Cert														
OREAS 251 Meas														
OREAS 251 Cert														
678 RM08 Orig	0.091	< 0.1	< 1	< 0.1	10.5	0.5	14	< 0.2	1.5	0.023	< 0.1	52	0.1	59
678 RM08 Dup	0.092	< 0.1	< 1	< 0.1	10.7	< 0.5	15	< 0.2	1.3	0.024	< 0.1	53	0.1	58
678 RM15 Orig														
678 RM15 Dup														
678 RC01 Orig	0.112	< 0.1	< 1	< 0.1	3.6	< 0.5	38	< 0.2	12.7	0.001	< 0.1	78	< 0.1	86
678 RC01 Dup	0.107	< 0.1	< 1	< 0.1	3.3	< 0.5	36	< 0.2	11.6	0.001	< 0.1	73	< 0.1	80
Method Blank														
Method Blank														
Method Blank														



**Date Submitted:** 28-Sep-16  
**Invoice No.:** A16-09988  
**Invoice Date:** 14-Oct-16  
**Your Reference:** 678

**Discovery Consultants**  
**P.O. Box 933**  
**Vernon BC V1T 6M8**  
**Canada**

**ATTN: Bill Gilmour**

## CERTIFICATE OF ANALYSIS

93 Soil samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Kamloops Au - Fire Assay AA

Code 1DX/AQ200-Kamloops Aqua Regia ICP/MS

REPORT **A16-09988**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Note: Au by this package is not reliable and you should have Au by Fire Assay done if you need accurate Au values.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Esemé". The signature is written in a cursive style with a horizontal line underneath.

Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
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## Results

## Activation Laboratories Ltd.

## Report: A16-09988

Analyte Symbol	Au	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni
Unit Symbol	ppb	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.1	0.01	0.5	0.5	20	0.5	0.1	0.01	0.1	0.1	1	0.1	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1
Method Code	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
678 S001	10	< 0.1	1.41	15.9	< 0.5	< 20	72.7	< 0.1	1.13	0.1	16.8	72	142	3.03	5	< 0.01	0.09	10	1.04	590	0.7	0.057	30.7
678 S002	14	< 0.1	1.76	9.9	< 0.5	< 20	101	< 0.1	1.06	0.2	14.7	70	81.5	2.90	8	0.03	0.08	5	1.00	348	1.2	0.043	27.3
678 S003	7	< 0.1	2.16	9.2	7.0	< 20	58.6	0.1	0.83	0.4	15.2	62	55.7	4.06	9	0.02	0.13	6	0.88	377	1.9	0.032	32.3
678 S004	10	< 0.1	2.09	10.7	< 0.5	< 20	46.3	< 0.1	0.55	0.2	15.5	87	31.9	4.65	11	< 0.01	0.06	5	1.18	395	1.6	0.043	32.1
678 S005	9	< 0.1	1.85	14.8	11.6	< 20	52.7	0.1	0.67	0.4	12.6	51	45.2	4.28	12	0.03	0.05	8	0.56	491	2.2	0.029	26.7
678 S006	13	0.2	3.35	24.6	< 0.5	< 20	104	0.1	0.71	0.7	22.2	28	124	4.49	11	0.02	0.13	9	0.58	519	3.2	0.033	37.8
678 S007	12	0.1	2.12	27.5	6.6	< 20	78.1	< 0.1	1.10	0.2	12.2	48	233	3.75	9	0.07	0.06	18	0.66	447	3.1	0.041	34.4
678 S008	7	0.3	2.53	2.9	7.0	< 20	71.4	0.1	0.19	0.2	10.2	48	22.4	5.00	15	0.05	0.04	11	0.25	323	2.7	0.036	18.2
678 S009	42	< 0.1	2.06	4.6	< 0.5	< 20	44.6	< 0.1	0.57	0.2	12.4	64	35.7	3.09	7	0.01	0.06	6	0.83	369	0.9	0.045	28.0
678 S010	8	< 0.1	2.27	8.5	< 0.5	< 20	55.4	< 0.1	0.56	0.2	12.1	73	47.7	3.50	7	0.02	0.06	6	0.86	325	1.2	0.041	28.7
678 S011	9	0.1	1.62	14.5	< 0.5	< 20	69.1	< 0.1	0.88	0.4	14.0	63	150	2.38	5	< 0.01	0.07	9	0.87	826	3.5	0.044	31.6
678 S012	7	< 0.1	1.53	28.1	< 0.5	< 20	69.2	< 0.1	0.62	< 0.1	13.6	66	54.8	2.63	5	0.01	0.07	7	0.88	417	0.6	0.042	30.7
678 S013	13	0.2	3.05	1.6	< 0.5	< 20	93.3	< 0.1	0.38	0.1	12.9	48	32.2	4.73	13	0.05	0.04	19	0.43	726	2.4	0.056	30.8
678 S014	15	< 0.1	2.42	12.2	1.2	< 20	66.3	0.1	0.58	0.3	17.0	94	89.1	3.86	8	0.03	0.12	8	1.06	538	1.5	0.039	40.9
678 S015	5	0.2	2.38	11.1	3.2	< 20	86.6	0.1	0.94	0.8	20.3	52	125	5.54	15	0.04	0.06	12	0.46	1670	8.6	0.059	29.2
678 S016	14	< 0.1	2.17	15.3	7.6	< 20	54.1	0.4	0.66	0.3	17.6	115	63.2	5.86	11	< 0.01	0.07	4	1.42	505	1.4	0.047	38.4
678 S017	< 5	< 0.1	2.16	1.8	< 0.5	< 20	49.8	< 0.1	0.68	< 0.1	20.1	144	59.5	3.31	7	< 0.01	0.37	4	1.61	384	1.2	0.039	43.9
678 S018	< 5	< 0.1	1.64	6.1	< 0.5	< 20	61.6	< 0.1	0.89	0.1	11.4	72	61.2	3.06	8	< 0.01	0.07	8	0.93	339	1.4	0.056	26.6
678 S019	< 5	< 0.1	1.50	28.7	< 0.5	< 20	51.4	< 0.1	0.89	0.4	13.5	47	143	2.83	7	0.04	0.04	12	0.58	761	2.8	0.036	23.8
678 S020	5	0.2	4.33	3.4	< 0.5	< 20	75.6	< 0.1	0.22	0.3	15.5	40	43.4	4.83	13	0.05	0.03	15	0.41	455	2.6	0.039	37.5
678 S021	6	< 0.1	2.46	5.3	< 0.5	< 20	61.7	< 0.1	0.51	0.2	14.8	72	50.8	3.78	9	0.03	0.07	9	0.93	436	1.4	0.046	36.1
678 S022	< 5	< 0.1	2.87	7.5	< 0.5	< 20	55.3	< 0.1	0.32	0.4	15.2	71	52.6	3.90	9	0.05	0.06	8	0.80	437	1.9	0.033	39.0
678 S023	< 5	0.1	1.71	21.1	7.8	< 20	66.2	0.1	0.73	1.0	13.2	44	362	4.12	11	0.03	0.06	11	0.54	832	4.8	0.036	36.5
678 S024	12	0.1	1.38	4.0	< 0.5	< 20	83.1	0.2	0.14	0.6	8.6	53	12.6	6.43	19	< 0.01	0.06	11	0.28	424	3.0	0.028	17.0
678 S025	24	0.1	2.59	4.0	< 0.5	< 20	81.7	0.2	0.08	0.2	9.2	53	10.3	5.95	21	0.02	0.05	11	0.27	337	2.7	0.032	21.4
678 S026	9	< 0.1	1.24	4.5	< 0.5	< 20	91.9	< 0.1	0.37	< 0.1	8.2	30	22.9	2.95	5	< 0.01	0.07	15	0.41	442	0.9	0.036	18.9
678 S027	5	< 0.1	3.01	2.3	< 0.5	< 20	162	< 0.1	0.30	0.2	13.4	43	28.5	4.60	11	0.03	0.06	22	0.54	718	1.4	0.046	36.8
678 S028	5	0.2	3.44	3.7	12.2	< 20	142	0.1	0.24	0.9	12.0	41	35.2	5.01	14	0.04	0.05	28	0.46	656	2.1	0.034	34.1
678 S029	5	< 0.1	2.36	3.1	< 0.5	< 20	117	0.1	0.21	0.2	9.0	45	27.4	4.38	12	0.02	0.08	17	0.48	474	1.8	0.025	28.3
678 S030	6	< 0.1	1.89	3.0	< 0.5	< 20	126	< 0.1	0.35	0.1	9.8	38	18.9	3.69	9	< 0.01	0.08	13	0.52	562	1.5	0.036	29.1
678 S031	7	< 0.1	2.79	2.6	< 0.5	< 20	178	< 0.1	0.99	0.2	13.3	40	20.0	4.55	11	0.02	0.07	24	0.52	609	1.9	0.060	34.4
678 S032	< 5	0.3	1.42	2.2	5.7	< 20	176	0.1	0.87	0.2	8.8	26	16.5	2.50	8	0.02	0.04	15	0.31	944	1.2	0.027	15.9
678 S033	7	0.1	2.03	2.4	14.4	< 20	102	0.1	0.95	0.2	9.6	26	32.2	3.18	7	0.07	0.03	33	0.41	599	0.9	0.032	28.3
678 S034	14	< 0.1	2.65	2.9	7.6	< 20	184	0.1	0.56	0.1	10.6	43	26.7	3.61	10	0.03	0.06	17	0.48	404	1.2	0.036	37.8
678 S035	6	< 0.1	4.16	2.3	< 0.5	< 20	127	< 0.1	0.52	0.1	19.2	42	38.3	5.42	14	0.03	0.08	28	1.03	860	1.7	0.094	51.3
678 S036	7	< 0.1	1.39	4.6	< 0.5	< 20	128	< 0.1	0.34	< 0.1	7.7	30	24.4	2.73	6	< 0.01	0.10	13	0.43	425	1.0	0.030	19.8
678 S037	< 5	< 0.1	2.08	4.5	< 0.5	< 20	153	< 0.1	0.35	0.1	12.1	41	42.9	3.65	8	0.01	0.10	18	0.66	563	1.1	0.042	34.5
678 S038	6	0.1	1.38	43.0	< 0.5	< 20	153	0.1	0.59	0.4	8.4	29	89.8	3.05	5	0.03	0.11	15	0.38	415	2.8	0.028	23.3
678 S039	< 5	< 0.1	2.25	4.6	< 0.5	< 20	276	0.1	0.40	0.3	9.2	34	48.7	3.55	8	0.03	0.08	30	0.46	627	1.3	0.026	29.6
678 S040	< 5	< 0.1	1.42	2.8	< 0.5	< 20	119	< 0.1	0.19	0.2	7.3	35	11.8	3.47	9	0.03	0.09	8	0.37	623	1.3	0.023	16.8
678 S041	< 5	< 0.1	1.77	3.0	< 0.5	< 20	129	< 0.1	0.30	0.1	11.6	35	22.6	3.11	7	0.01	0.11	11	0.53	499	1.0	0.026	25.4
678 S042	9	< 0.1	2.46	3.2	< 0.5	< 20	116	< 0.1	0.20	0.1	12.2	40	19.5	3.41	7	0.01	0.10	11	0.57	336	1.4	0.032	34.9
678 S043	6	< 0.1	1.86	3.6	< 0.5	< 20	107	< 0.1	0.21	0.3	9.8	40	15.7	3.71	9	0.03	0.10	9	0.47	671	1.1	0.026	21.1
678 S044	6	< 0.1	1.53	14.7	< 0.5	< 20	210	< 0.1	0.58	0.2	8.4	35	52.4	2.81	5	0.02	0.10	15	0.42	659	1.6	0.030	21.7
678 S045	< 5	< 0.1	1.12	3.5	< 0.5	< 20	61.3	0.1	0.14	0.1	4.5	34	12.2	3.66	11	< 0.01	0.05	9	0.24	194	1.7	0.023	10.4
678 S046	9	< 0.1	0.91	53.5	< 0.5	< 20	70.0	0.2	0.05	0.2	6.6	24	10.3	5.98	11	< 0.01	0.06	8	0.06	904	4.1	0.014	7.4
678 S047	< 5	< 0.1	1.68	3.5	< 0.5	< 20	132	< 0.1	0.39	< 0.1	10.8	36	21.4	3.37	8	0.01	0.08	14	0.49	464	1.6	0.030	26.8
678 S048	8	0.2	2.84	4.6	< 0.5	< 20	92.1	0.2	0.14	0.2	8.0	43	16.1	5.28	17	0.04	0.06	16	0.31	367	3.9	0.041	21.3



## Results

## Activation Laboratories Ltd.

## Report: A16-09988

Analyte Symbol	Au	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni
Unit Symbol	ppb	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.1	0.01	0.5	0.5	20	0.5	0.1	0.01	0.1	0.1	1	0.1	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1
Method Code	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
678 S049	5	< 0.1	2.06	3.7	< 0.5	< 20	83.4	< 0.1	0.20	0.1	7.8	41	20.1	4.54	10	0.03	0.09	10	0.50	347	1.4	0.028	22.8
678 S050	10	< 0.1	2.16	2.1	< 0.5	< 20	99.6	< 0.1	0.24	0.1	13.0	39	15.4	3.92	10	0.05	0.07	13	0.49	847	1.6	0.043	27.5
678 S051	< 5	< 0.1	4.44	2.9	4.4	< 20	81.3	0.1	0.27	0.2	13.4	45	12.2	5.79	17	0.03	0.05	17	0.54	590	2.9	0.055	30.6
678 S052	< 5	< 0.1	4.12	3.0	< 0.5	< 20	87.9	< 0.1	0.22	0.2	15.1	37	15.6	4.21	11	0.04	0.05	14	0.63	537	1.7	0.041	40.5
678 S053	6	< 0.1	3.29	3.8	< 0.5	< 20	110	0.1	0.21	0.1	14.5	39	13.6	4.20	11	0.02	0.06	12	0.60	440	1.7	0.040	44.0
678 S054	< 5	< 0.1	3.98	3.5	< 0.5	< 20	91.6	0.1	0.18	0.1	15.3	51	12.6	4.98	13	0.04	0.05	13	0.60	493	1.6	0.035	43.3
678 S055	< 5	< 0.1	2.05	4.0	22.7	< 20	83.7	0.1	0.24	0.1	13.0	54	11.3	7.02	20	0.05	0.04	15	0.67	743	2.7	0.044	36.1
678 S056	< 5	0.2	3.50	2.9	4.8	< 20	120	< 0.1	0.29	0.4	15.7	42	16.5	5.14	13	0.06	0.06	15	0.56	753	2.0	0.042	36.2
678 S057	5	< 0.1	2.03	2.7	< 0.5	< 20	116	0.2	0.14	0.1	6.1	34	21.0	3.09	8	0.02	0.09	12	0.33	393	0.8	0.041	21.2
678 S058	7	< 0.1	2.05	5.4	< 0.5	< 20	92.8	0.2	0.14	< 0.1	9.6	64	13.2	6.40	17	< 0.01	0.08	9	0.57	373	1.8	0.025	31.8
678 S059	< 5	< 0.1	3.25	6.5	< 0.5	< 20	331	< 0.1	0.72	< 0.1	14.3	32	77.4	4.72	9	0.03	0.05	30	1.11	573	1.5	0.086	59.1
678 S060	13	< 0.1	2.12	3.3	< 0.5	< 20	146	0.1	0.24	0.2	9.6	42	12.4	6.09	16	0.02	0.03	11	0.30	275	2.0	0.029	23.1
678 S061	5	< 0.1	4.62	2.7	5.4	< 20	80.5	< 0.1	0.31	0.1	18.9	43	14.3	5.56	15	0.03	0.03	13	0.85	553	2.2	0.053	47.8
678 S062	< 5	< 0.1	1.90	6.6	< 0.5	< 20	197	< 0.1	0.64	0.1	11.6	35	49.1	3.39	7	< 0.01	0.04	19	0.61	518	1.2	0.055	31.6
678 S063	< 5	< 0.1	1.92	10.5	< 0.5	< 20	77.9	0.3	0.10	0.2	7.5	40	9.9	5.62	20	0.02	0.06	9	0.31	326	2.7	0.025	17.0
678 S064	8	0.8	1.74	3.1	< 0.5	< 20	263	0.1	0.77	0.2	12.7	25	46.0	3.47	7	0.02	0.02	32	0.69	985	1.3	0.033	37.8
678 S065	8	< 0.1	2.70	5.0	< 0.5	< 20	415	< 0.1	1.00	0.1	13.8	31	78.7	4.22	9	0.03	0.04	57	0.60	833	1.1	0.051	39.8
678 S066	5	< 0.1	1.27	2.3	< 0.5	< 20	57.6	< 0.1	0.26	< 0.1	6.5	30	17.7	2.56	4	< 0.01	0.06	10	0.38	235	0.6	0.025	19.3
678 S067	9	< 0.1	1.71	3.4	< 0.5	< 20	149	< 0.1	0.52	< 0.1	11.6	48	29.8	3.42	7	0.02	0.08	12	0.62	462	1.0	0.040	33.4
678 S068	11	< 0.1	1.75	6.5	< 0.5	< 20	347	< 0.1	0.20	0.1	15.9	20	7.6	4.92	7	0.02	0.09	12	0.21	1030	1.1	0.017	19.0
678 S069	5	0.2	3.39	5.1	< 0.5	< 20	79.2	0.1	0.12	0.2	9.9	38	14.8	4.17	12	0.06	0.05	16	0.32	439	2.5	0.038	31.0
678 S070	< 5	< 0.1	1.78	8.1	< 0.5	< 20	51.3	0.2	0.10	< 0.1	4.2	34	9.8	5.92	23	0.04	0.05	7	0.19	246	1.8	0.021	7.9
678 S071	5	< 0.1	0.99	2.3	< 0.5	< 20	55.0	0.2	0.07	< 0.1	3.7	45	8.2	4.02	23	0.01	0.04	5	0.10	190	1.9	0.017	6.8
678 S072	7	< 0.1	1.50	12.9	< 0.5	< 20	228	< 0.1	0.59	< 0.1	11.2	52	102	3.26	6	< 0.01	0.04	29	0.64	449	1.5	0.046	34.7
678 S073	6	< 0.1	1.44	8.0	9.2	< 20	77.3	0.2	0.15	0.1	7.5	43	12.9	5.97	18	0.02	0.04	9	0.27	381	3.2	0.024	15.3
678 S074	5	< 0.1	1.24	15.1	< 0.5	< 20	96.4	0.2	0.14	0.1	7.0	53	11.2	5.73	14	0.02	0.05	7	0.32	477	2.2	0.027	14.4
678 S075	6	< 0.1	2.55	6.6	< 0.5	< 20	231	0.2	0.36	0.2	13.3	33	24.4	5.29	12	0.04	0.14	13	0.59	983	3.6	0.026	22.1
678 S076	7	< 0.1	2.03	4.0	< 0.5	< 20	140	0.2	0.20	0.2	12.0	59	16.1	6.98	21	0.03	0.05	13	0.53	628	2.9	0.049	32.2
678 S077	6	< 0.1	2.07	3.2	< 0.5	< 20	237	0.1	0.57	0.3	15.0	46	32.6	5.05	13	0.02	0.05	15	0.49	584	1.7	0.054	32.5
678 S078	6	0.2	1.25	3.0	8.9	< 20	413	< 0.1	1.16	0.1	6.7	20	44.9	1.97	5	0.05	0.02	23	0.23	633	0.7	0.022	12.2
678 S079	< 5	< 0.1	3.60	3.0	< 0.5	< 20	163	< 0.1	0.59	0.1	18.7	39	19.8	5.31	13	0.01	0.05	19	0.94	745	1.9	0.091	46.9
678 S080	6	< 0.1	1.06	2.8	< 0.5	< 20	109	< 0.1	0.40	0.1	6.0	49	14.1	1.98	5	< 0.01	0.07	7	0.48	224	0.6	0.030	18.9
678 S081	6	< 0.1	0.75	2.3	< 0.5	< 20	64.3	< 0.1	0.41	< 0.1	6.8	32	22.4	2.60	3	< 0.01	0.06	12	0.43	256	0.5	0.030	18.6
678 S082	5	< 0.1	1.12	3.0	< 0.5	< 20	84.8	< 0.1	0.39	< 0.1	9.3	41	24.8	3.15	5	< 0.01	0.06	12	0.47	411	0.7	0.032	21.5
678 S083	5	< 0.1	2.89	2.4	< 0.5	< 20	296	0.1	0.90	0.3	14.8	29	40.4	4.51	11	0.02	0.04	19	0.58	957	1.3	0.056	36.4
678 S084	9	0.2	2.09	3.0	14.2	< 20	401	0.1	0.85	0.3	10.3	24	62.3	3.81	10	0.01	0.03	30	0.30	927	1.4	0.029	23.0
678 S085	16	0.2	1.26	2.8	13.8	< 20	506	< 0.1	1.84	0.2	7.6	17	118	1.60	5	0.17	0.02	34	0.24	638	1.1	0.029	15.0
678 S086	8	0.2	0.73	1.9	< 0.5	< 20	174	< 0.1	0.29	1.3	3.9	22	49.3	1.06	4	0.02	0.05	13	0.12	64	0.7	0.021	20.8
678 S087	< 5	0.2	2.90	5.9	< 0.5	< 20	232	0.1	0.31	0.4	16.3	57	55.1	4.54	11	0.02	0.09	23	0.62	500	1.2	0.041	40.6
678 S088	< 5	< 0.1	1.86	5.7	< 0.5	< 20	101	< 0.1	0.24	0.1	10.4	53	27.5	3.03	5	0.02	0.08	8	0.58	270	0.8	0.024	40.2
678 S089	5	< 0.1	3.23	4.7	< 0.5	< 20	283	0.2	0.46	< 0.1	9.0	34	48.9	3.93	13	0.02	0.06	27	0.49	291	1.6	0.041	44.2
678 S090	35	0.2	2.00	3.9	< 0.5	< 20	263	0.3	0.42	< 0.1	7.6	32	29.7	3.65	9	0.04	0.09	25	0.46	478	1.0	0.045	31.6
678 S091	< 5	< 0.1	0.60	2.3	< 0.5	< 20	69.4	< 0.1	0.44	< 0.1	5.6	29	14.7	2.41	3	< 0.01	0.05	12	0.38	224	0.4	0.033	16.9
678 S092	6	< 0.1	0.97	2.3	< 0.5	< 20	48.2	< 0.1	0.16	0.1	3.7	30	6.5	2.88	7	< 0.01	0.04	7	0.21	137	1.1	0.026	8.3
678 S093	< 5	< 0.1	1.42	3.5	< 0.5	< 20	85.9	0.2	0.12	0.2	6.7	43	12.0	6.44	24	0.02	0.07	7	0.30	440	2.8	0.026	11.9

Analyte Symbol	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	V	W	Zn
Unit Symbol	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.001	0.1	1	0.1	0.1	0.5	1	0.2	0.1	0.001	0.1	2	0.1	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
678 S001	0.135	2.0	< 1	0.3	6.3	< 0.5	60	< 0.2	1.6	0.013	< 0.1	90	0.1	57
678 S002	0.078	4.0	< 1	0.1	3.4	0.5	34	< 0.2	0.8	0.016	< 0.1	81	< 0.1	68
678 S003	0.075	2.5	< 1	0.1	2.9	0.6	28	< 0.2	1.0	0.013	< 0.1	77	0.1	75
678 S004	0.048	2.0	< 1	0.2	4.5	< 0.5	35	< 0.2	1.3	0.022	< 0.1	131	0.1	71
678 S005	0.045	4.1	< 1	0.2	2.7	< 0.5	22	< 0.2	1.3	0.017	< 0.1	80	0.1	132
678 S006	0.051	2.1	< 1	0.2	3.1	0.6	25	< 0.2	1.5	0.007	< 0.1	67	< 0.1	126
678 S007	0.089	1.1	< 1	0.2	3.4	1.5	30	< 0.2	1.3	0.018	< 0.1	84	< 0.1	94
678 S008	0.047	3.7	< 1	0.1	3.2	0.5	16	< 0.2	2.2	0.032	< 0.1	79	< 0.1	77
678 S009	0.086	0.8	< 1	0.1	3.9	< 0.5	33	< 0.2	1.1	0.013	< 0.1	77	< 0.1	46
678 S010	0.088	1.1	< 1	0.2	4.8	0.7	36	< 0.2	1.2	0.013	< 0.1	86	< 0.1	48
678 S011	0.106	2.9	< 1	0.3	4.5	0.8	42	< 0.2	1.3	0.010	< 0.1	69	< 0.1	85
678 S012	0.089	3.5	< 1	0.2	4.2	< 0.5	43	< 0.2	1.3	0.011	< 0.1	72	< 0.1	43
678 S013	0.063	1.3	< 1	0.1	4.4	0.9	30	< 0.2	1.3	0.029	< 0.1	73	< 0.1	58
678 S014	0.111	3.3	< 1	0.3	4.2	0.7	32	< 0.2	1.4	0.015	< 0.1	100	0.1	74
678 S015	0.084	2.3	< 1	0.2	5.0	0.9	37	< 0.2	2.2	0.042	< 0.1	119	0.1	168
678 S016	0.091	3.3	< 1	0.2	5.3	< 0.5	36	< 0.2	1.0	0.021	< 0.1	155	0.1	78
678 S017	0.073	< 0.1	< 1	< 0.1	2.8	< 0.5	20	< 0.2	0.7	0.024	< 0.1	86	< 0.1	51
678 S018	0.074	3.9	< 1	0.2	4.9	< 0.5	50	< 0.2	1.1	0.018	< 0.1	102	0.1	52
678 S019	0.086	2.1	< 1	0.2	3.1	0.7	31	< 0.2	1.0	0.012	< 0.1	77	< 0.1	70
678 S020	0.061	2.3	< 1	0.1	4.3	0.7	13	< 0.2	2.9	0.028	< 0.1	63	< 0.1	64
678 S021	0.089	2.6	< 1	0.2	5.0	< 0.5	33	< 0.2	1.9	0.019	< 0.1	88	< 0.1	69
678 S022	0.081	1.7	< 1	0.2	3.5	0.8	19	< 0.2	1.5	0.016	< 0.1	84	0.1	140
678 S023	0.056	3.7	< 1	0.2	3.5	0.8	28	< 0.2	1.1	0.020	< 0.1	91	< 0.1	207
678 S024	0.087	5.0	< 1	0.3	2.0	< 0.5	14	< 0.2	1.8	0.037	< 0.1	100	0.1	147
678 S025	0.049	6.5	< 1	0.2	3.0	< 0.5	9	< 0.2	2.6	0.035	< 0.1	87	< 0.1	81
678 S026	0.085	5.9	< 1	0.3	3.2	< 0.5	32	< 0.2	2.6	0.010	< 0.1	69	< 0.1	48
678 S027	0.062	5.1	< 1	0.1	4.8	0.6	26	< 0.2	2.3	0.017	< 0.1	66	< 0.1	117
678 S028	0.107	9.2	< 1	0.2	4.1	1.0	22	< 0.2	1.6	0.018	< 0.1	65	< 0.1	153
678 S029	0.072	4.1	< 1	0.2	3.5	0.7	24	< 0.2	1.8	0.017	< 0.1	72	< 0.1	100
678 S030	0.060	2.7	< 1	0.2	3.3	< 0.5	34	< 0.2	1.7	0.019	< 0.1	65	< 0.1	93
678 S031	0.072	1.2	< 1	0.2	3.7	0.7	75	< 0.2	2.2	0.029	< 0.1	65	< 0.1	73
678 S032	0.074	3.4	< 1	0.1	1.5	0.8	70	< 0.2	0.5	0.009	< 0.1	48	< 0.1	61
678 S033	0.091	2.3	< 1	0.2	2.9	1.5	77	< 0.2	0.7	0.010	< 0.1	43	< 0.1	64
678 S034	0.058	2.8	< 1	0.2	4.0	0.6	60	< 0.2	2.2	0.017	< 0.1	60	< 0.1	69
678 S035	0.064	1.2	< 1	0.1	6.1	0.7	23	< 0.2	4.9	0.034	< 0.1	66	< 0.1	80
678 S036	0.073	3.5	< 1	0.3	3.2	< 0.5	35	< 0.2	2.5	0.010	< 0.1	65	< 0.1	59
678 S037	0.077	4.0	< 1	0.4	4.3	< 0.5	34	< 0.2	3.3	0.015	< 0.1	72	< 0.1	66
678 S038	0.074	34.0	< 1	1.5	3.7	0.7	61	< 0.2	1.7	0.007	0.1	50	< 0.1	166
678 S039	0.083	6.0	< 1	0.3	3.1	1.0	46	< 0.2	0.9	0.009	0.1	62	< 0.1	127
678 S040	0.050	10.3	< 1	0.2	2.4	< 0.5	24	< 0.2	1.2	0.012	< 0.1	65	< 0.1	52
678 S041	0.072	2.0	< 1	0.2	3.1	< 0.5	25	< 0.2	2.8	0.011	< 0.1	66	< 0.1	49
678 S042	0.051	1.5	< 1	0.2	3.7	< 0.5	21	< 0.2	4.2	0.013	< 0.1	61	< 0.1	56
678 S043	0.078	2.2	< 1	0.3	3.1	< 0.5	23	< 0.2	2.4	0.013	< 0.1	72	0.1	93
678 S044	0.091	11.5	< 1	0.9	3.1	0.6	60	< 0.2	1.4	0.007	< 0.1	57	< 0.1	89
678 S045	0.038	4.2	< 1	0.3	1.9	< 0.5	21	< 0.2	1.7	0.018	< 0.1	87	0.1	42
678 S046	0.028	30.0	< 1	5.4	1.5	< 0.5	11	< 0.2	1.0	0.007	< 0.1	124	0.1	43
678 S047	0.071	2.9	< 1	0.2	2.9	< 0.5	37	< 0.2	2.8	0.015	< 0.1	63	0.1	64
678 S048	0.058	4.7	< 1	0.3	2.8	0.8	14	< 0.2	3.3	0.029	< 0.1	66	0.2	92

Analyte Symbol	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	V	W	Zn
Unit Symbol	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.001	0.1	1	0.1	0.1	0.5	1	0.2	0.1	0.001	0.1	2	0.1	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
678 S049	0.084	1.8	< 1	0.2	3.2	0.5	20	< 0.2	3.0	0.014	< 0.1	70	< 0.1	76
678 S050	0.064	2.7	< 1	0.1	2.6	< 0.5	22	< 0.2	1.5	0.018	< 0.1	64	< 0.1	81
678 S051	0.082	3.1	< 1	0.2	5.1	0.7	14	< 0.2	4.2	0.035	< 0.1	74	< 0.1	81
678 S052	0.090	0.9	< 1	0.2	4.3	0.6	13	< 0.2	3.8	0.020	< 0.1	53	< 0.1	84
678 S053	0.076	2.0	< 1	0.2	3.4	0.6	18	< 0.2	3.8	0.017	< 0.1	58	0.1	104
678 S054	0.094	3.3	< 1	0.2	4.1	< 0.5	12	< 0.2	3.3	0.030	< 0.1	74	< 0.1	145
678 S055	0.060	3.9	< 1	0.2	3.0	0.5	14	< 0.2	2.4	0.047	< 0.1	90	0.1	76
678 S056	0.094	1.0	< 1	0.2	3.6	0.6	18	< 0.2	2.8	0.029	< 0.1	67	0.1	118
678 S057	0.095	51.4	< 1	0.2	1.6	0.7	22	< 0.2	0.3	0.004	< 0.1	64	< 0.1	89
678 S058	0.027	7.9	< 1	0.5	3.5	< 0.5	18	< 0.2	2.3	0.040	0.1	111	< 0.1	74
678 S059	0.058	0.6	< 1	0.2	3.7	0.7	41	< 0.2	3.9	0.020	< 0.1	43	< 0.1	72
678 S060	0.037	5.2	< 1	0.2	2.0	< 0.5	22	< 0.2	2.6	0.028	< 0.1	70	< 0.1	73
678 S061	0.074	4.5	< 1	0.2	4.1	0.6	17	< 0.2	3.4	0.033	< 0.1	68	0.1	85
678 S062	0.057	1.9	< 1	0.3	3.4	0.6	51	< 0.2	3.0	0.017	< 0.1	55	< 0.1	48
678 S063	0.078	8.7	< 1	0.4	2.3	< 0.5	13	< 0.2	1.8	0.021	< 0.1	86	0.2	126
678 S064	0.044	2.6	< 1	0.1	2.3	0.8	61	< 0.2	1.4	0.017	< 0.1	47	< 0.1	57
678 S065	0.070	2.1	< 1	0.4	5.7	1.8	97	< 0.2	2.0	0.017	< 0.1	55	< 0.1	79
678 S066	0.075	0.6	< 1	0.2	2.2	< 0.5	20	< 0.2	2.5	0.009	< 0.1	55	0.1	33
678 S067	0.076	1.9	< 1	0.2	3.4	< 0.5	41	< 0.2	2.6	0.015	< 0.1	73	< 0.1	63
678 S068	0.073	2.9	< 1	0.3	2.7	< 0.5	22	< 0.2	0.4	0.001	< 0.1	60	< 0.1	79
678 S069	0.049	3.9	< 1	0.2	3.1	0.8	10	< 0.2	3.8	0.016	< 0.1	43	0.1	85
678 S070	0.056	5.3	< 1	0.4	3.0	< 0.5	22	< 0.2	1.6	0.026	< 0.1	162	0.2	38
678 S071	0.027	10.3	< 1	0.3	1.7	< 0.5	11	< 0.2	1.2	0.043	< 0.1	133	< 0.1	37
678 S072	0.050	0.9	< 1	0.3	4.0	0.8	53	< 0.2	2.9	0.013	< 0.1	69	< 0.1	37
678 S073	0.058	6.2	< 1	0.3	1.8	< 0.5	14	< 0.2	1.8	0.026	< 0.1	89	< 0.1	62
678 S074	0.131	4.6	< 1	0.4	2.2	< 0.5	20	< 0.2	1.8	0.017	< 0.1	113	0.1	54
678 S075	0.058	20.5	< 1	0.3	4.8	< 0.5	25	< 0.2	2.7	0.008	0.1	102	3.1	91
678 S076	0.050	6.6	< 1	0.2	2.9	< 0.5	18	< 0.2	2.6	0.049	< 0.1	100	0.1	105
678 S077	0.043	4.7	< 1	0.2	3.1	0.5	48	< 0.2	3.2	0.036	< 0.1	77	< 0.1	189
678 S078	0.057	2.4	< 1	0.5	1.6	0.7	92	< 0.2	0.6	0.009	< 0.1	34	< 0.1	27
678 S079	0.076	1.4	< 1	0.2	4.2	0.6	39	< 0.2	3.4	0.039	< 0.1	65	0.1	92
678 S080	0.023	2.4	< 1	0.2	2.7	< 0.5	52	< 0.2	1.2	0.011	< 0.1	57	< 0.1	40
678 S081	0.088	< 0.1	< 1	0.2	2.2	< 0.5	30	< 0.2	2.8	0.008	< 0.1	66	< 0.1	26
678 S082	0.076	0.9	< 1	0.2	2.6	< 0.5	31	< 0.2	2.8	0.010	< 0.1	76	< 0.1	29
678 S083	0.062	2.7	< 1	0.2	3.5	0.5	102	< 0.2	2.4	0.021	< 0.1	49	< 0.1	140
678 S084	0.056	3.4	< 1	0.2	3.3	1.0	107	< 0.2	1.1	0.015	< 0.1	52	< 0.1	101
678 S085	0.058	1.1	< 1	0.3	1.9	1.3	183	< 0.2	0.3	0.005	< 0.1	24	< 0.1	28
678 S086	0.038	1.9	< 1	0.1	1.8	< 0.5	43	< 0.2	0.3	0.006	< 0.1	28	< 0.1	22
678 S087	0.080	4.0	< 1	0.2	5.6	0.7	34	< 0.2	3.9	0.022	< 0.1	81	< 0.1	82
678 S088	0.050	1.2	< 1	0.3	3.5	< 0.5	23	< 0.2	2.6	0.010	< 0.1	69	< 0.1	50
678 S089	0.052	5.0	< 1	0.2	4.1	0.7	36	< 0.2	3.4	0.011	0.1	42	0.1	60
678 S090	0.053	7.8	< 1	0.2	4.0	0.6	53	< 0.2	2.6	0.011	< 0.1	50	< 0.1	68
678 S091	0.084	< 0.1	< 1	0.2	2.0	< 0.5	35	< 0.2	4.2	0.008	< 0.1	63	< 0.1	18
678 S092	0.031	1.0	< 1	0.2	1.7	< 0.5	21	< 0.2	1.8	0.014	< 0.1	69	0.1	27
678 S093	0.110	6.2	< 1	0.3	2.4	< 0.5	13	< 0.2	1.5	0.017	< 0.1	126	0.1	80

Analyte Symbol	Au	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni
Unit Symbol	ppb	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.1	0.01	0.5	0.5	20	0.5	0.1	0.01	0.1	0.1	1	0.1	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1
Method Code	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas		33.5	0.34	379	> 1000	< 20	105	1670	0.73	2.4	6.8	5	999	23.3	4	3.92	0.03	5	0.12	807	16.4	0.043	34.2
GXR-1 Cert		31.0	3.52	427	3300	15.0	750	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	7.50	0.217	852	18.0	0.0520	41.0
GXR-4 Meas		2.8	2.56	94.1		< 20	21.7	18.5	0.77	0.1	12.7	49	6310	2.88	10		1.61	43	1.48	119	296	0.136	34.3
GXR-4 Cert		4.0	7.20	98.0		4.50	1640	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0		4.01	64.5	1.66	155	310	0.564	42.0
GXR-6 Meas		0.1	6.52	206		< 20	786	0.2	0.12	< 0.1	11.4	66	56.0	5.07	11		1.04	10	0.32	933	1.6	0.061	19.7
GXR-6 Cert		1.30	17.7	330		9.80	1300	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0		1.87	13.9	0.609	1010	2.40	0.104	27.0
OxD108 Meas	418																						
OxD108 Cert	414																						
OxD108 Meas	406																						
OxD108 Cert	414																						
OxD108 Meas	405																						
OxD108 Cert	414																						
OxD108 Meas	395																						
OxD108 Cert	414																						
OxD108 Meas	397																						
OxD108 Cert	414																						
OxD108 Meas	399																						
OxD108 Cert	414																						
SG66 Meas	1110																						
SG66 Cert	1090																						
SG66 Meas	1100																						
SG66 Cert	1090																						
SG66 Meas	1090																						
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SG66 Meas	1080																						
SG66 Cert	1090																						
SG66 Meas	1060																						
SG66 Cert	1090																						
SG66 Meas	1050																						
SG66 Cert	1090																						
OREAS 922 (AQUA REGIA) Meas		0.4	2.57	5.6			79.8	9.6	0.34	0.3	16.6	40	2110	4.82	7		0.42	35	1.20	697	0.6	0.026	31.3
OREAS 922 (AQUA REGIA) Cert		0.851	2.72	6.12			70	10.3	0.324	0.28	19.4	40.7	2176	5.05	7.62		0.376	32.5	1.33	730	0.69	0.021	34.3
OREAS 923 (AQUA REGIA) Meas		1.3	2.67	6.9			66.9	19.1	0.35	0.4	19.0	37	4060	5.58	8		0.37	32	1.30	792	0.8		29.2
OREAS 923 (AQUA REGIA) Cert		1.62	2.80	7.07			54	21.8	0.326	0.40	22.2	39.4	4248	5.91	8.01		0.322	30.0	1.43	850	0.84		32.7
SdAR-M2 (U.S.G.S.) Meas							105	0.9		4.6	10.9	8	211		3			39			11.9		41.4
SdAR-M2 (U.S.G.S.) Cert							990	1.05		5.1	12.4	49.6	236.0000		17.6			46.6			13.3		48.8
678 S005 Orig	8																						
678 S005 Dup	9																						
678 S013 Orig		0.1	3.12	1.6	< 0.5	< 20	95.5	< 0.1	0.39	0.1	13.3	49	32.5	4.82	13	0.05	0.04	20	0.44	743	2.4	0.057	31.4
678 S013 Dup		0.2	2.98	1.6	6.2	< 20	91.0	< 0.1	0.37	0.1	12.4	47	31.8	4.64	13	0.05	0.04	18	0.41	709	2.3	0.054	30.2
678 S018 Orig	< 5																						
678 S018 Dup	< 5																						
678 S025 Orig	22																						
678 S025 Dup	26																						

Analyte Symbol	Au	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni
Unit Symbol	ppb	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.1	0.01	0.5	0.5	20	0.5	0.1	0.01	0.1	0.1	1	0.1	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1
Method Code	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
678 S027 Orig		< 0.1	2.98	2.0	< 0.5	< 20	166	< 0.1	0.30	0.2	13.4	44	29.2	4.61	11	0.01	0.06	22	0.56	708	1.4	0.046	37.6
678 S027 Dup		< 0.1	3.03	2.7	< 0.5	< 20	158	< 0.1	0.29	0.2	13.3	43	27.8	4.59	12	0.04	0.06	22	0.53	727	1.5	0.045	36.0
678 S040 Orig	9	< 0.1	1.37	3.0	< 0.5	< 20	115	< 0.1	0.19	0.1	7.0	34	11.7	3.36	9	0.03	0.09	8	0.36	593	1.3	0.022	16.3
678 S040 Dup	< 5	< 0.1	1.47	2.5	< 0.5	< 20	122	0.1	0.20	0.2	7.7	36	12.0	3.58	9	0.03	0.09	8	0.38	652	1.3	0.023	17.2
678 S053 Orig	5																						
678 S053 Dup	6																						
678 S054 Orig		< 0.1	3.93	3.2	< 0.5	< 20	90.7	0.1	0.17	0.1	15.4	51	12.6	4.97	12	0.05	0.04	13	0.61	492	1.6	0.034	43.9
678 S054 Dup		< 0.1	4.03	3.8	< 0.5	< 20	92.5	0.1	0.18	0.2	15.2	51	12.6	4.99	13	0.02	0.05	13	0.59	494	1.6	0.036	42.7
678 S060 Orig	6																						
678 S060 Dup	19																						
678 S075 Orig	5																						
678 S075 Dup	6																						
678 S077 Orig		< 0.1	2.05	3.1	4.9	< 20	236	0.1	0.56	0.3	14.9	46	32.3	5.04	13	0.02	0.05	15	0.49	582	1.8	0.053	32.7
678 S077 Dup		0.1	2.08	3.2	< 0.5	< 20	238	0.2	0.58	0.3	15.1	46	32.9	5.05	14	0.01	0.05	16	0.48	586	1.6	0.055	32.3
678 S088 Orig	< 5																						
678 S088 Dup	< 5																						
678 S091 Orig		< 0.1	0.60	2.2	< 0.5	< 20	66.9	< 0.1	0.44	< 0.1	5.5	29	14.3	2.42	3	< 0.01	0.05	12	0.38	222	0.4	0.032	17.0
678 S091 Dup		< 0.1	0.60	2.3	< 0.5	< 20	71.9	< 0.1	0.44	< 0.1	5.6	30	15.1	2.41	3	< 0.01	0.05	12	0.38	225	0.4	0.034	16.8
Method Blank	< 5																						
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Analyte Symbol	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	V	W	Zn
Unit Symbol	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.001	0.1	1	0.1	0.1	0.5	1	0.2	0.1	0.001	0.1	2	0.1	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
678 S027 Orig	0.057	6.7	< 1	0.1	4.8	0.5	26	< 0.2	2.4	0.016	< 0.1	66	< 0.1	118
678 S027 Dup	0.067	3.6	< 1	0.2	4.8	0.6	25	< 0.2	2.3	0.018	< 0.1	66	< 0.1	116
678 S040 Orig	0.052	10.6	< 1	0.2	2.3	< 0.5	24	< 0.2	1.1	0.013	< 0.1	64	< 0.1	51
678 S040 Dup	0.049	10.0	< 1	0.2	2.6	< 0.5	25	< 0.2	1.3	0.011	< 0.1	66	< 0.1	53
678 S053 Orig														
678 S053 Dup														
678 S054 Orig	0.090	3.1	< 1	0.2	4.1	< 0.5	12	< 0.2	3.4	0.028	< 0.1	74	< 0.1	145
678 S054 Dup	0.097	3.5	< 1	0.3	4.2	0.6	13	< 0.2	3.3	0.031	< 0.1	73	< 0.1	145
678 S060 Orig														
678 S060 Dup														
678 S075 Orig														
678 S075 Dup														
678 S077 Orig	0.041	4.8	< 1	0.2	3.1	0.5	47	< 0.2	3.3	0.035	< 0.1	76	< 0.1	189
678 S077 Dup	0.044	4.5	< 1	0.2	3.1	0.5	49	< 0.2	3.0	0.037	< 0.1	77	< 0.1	189
678 S088 Orig														
678 S088 Dup														
678 S091 Orig	0.085	< 0.1	< 1	0.2	2.0	< 0.5	35	< 0.2	5.7	0.008	< 0.1	63	< 0.1	18
678 S091 Dup	0.084	< 0.1	< 1	0.2	1.9	< 0.5	34	< 0.2	2.7	0.008	< 0.1	62	0.1	18
Method Blank														
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