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Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

BC Geological Survey
Assessment Report
37736

Assessment Report
Title Page and Summary

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

TOTAL COST: $138,270.66

AUTHOR(S): Christopher O. Naas **SIGNATURE(S):**

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): 1300197-201802 / April 17, 2018 **YEAR OF WORK:** 2018

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): Event 5708125 / August 18, 2018

PROPERTY NAME: Cathedral

CLAIM NAME(S) (on which the work was done): 689843, 689845, 837071, 837073, 1025889, 1055266 1055268, 1057886, 1057887, 1057889, 1057892

COMMODITIES SOUGHT: Cu, Au

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 094C181, 094C187

MINING DIVISION: Omineca **NTS/BCGS:** 094C03

LATITUDE: 56 ° 05 '09 " **LONGITUDE:** 125 ° 27 '30 " **(at centre of work)**

OWNER(S):
1) Thane Minerals Inc. 2)

MAILING ADDRESS:
PO Box 38099 Morgan Heights PO
Surrey, BC V3Z 6R3

OPERATOR(S) [who paid for the work]:
1) Thane Minerals Inc. 2)

MAILING ADDRESS:
PO Box 38099 Morgan Heights PO
Surrey, BC V3Z 6R3

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Property is mainly underlain by early Jurassic Hogem batholith comprised of quartz monzonites, diorites and syenites. The intrusives are in contact with the Upper Triassic Takla Group volcanics, comprised of volcanic flows, breccias and agglomerates. Copper mineralization is documented in many occurrences over much of the property, typically chalcopyrite along with malachite/azurite staining on rock surfaces. Alteration is mainly propylitic with potassic alteration associated with veining.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:
04599, 14192, 17742, 17743, 21419, 21425, 21426, 26530A, 29112, 32106, 33099, 33294, 33947, 34793, 35882,36337,37045

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TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil	959 soils; 995 analysis: Cu & As (pXRF)	all 11 claims listed above	$69,135.33
Silt			
Rock			
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)	24.075 km	all 11 claims listed above	$69,135.33
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST:	$138,270.66

ASSESSMENT REPORT
GEOCHEMISTRY
in the
Southern Area
of the
Cathedral Property

(689843, 689845, 837071, 837073, 1025889, 1055266
1055268, 1057886, 1057887, 1057889, 1057892)
Omineca Mining Division, British Columbia, Canada

Owner: Thane Minerals Inc.
Operator: Thane Minerals Inc.

by
Christopher O. Naas, *P.Geo.*
CME Consultants Inc.
November 16, 2018

NTS 094C03
Latitude: 56°05'09"N
Longitude: 125°27'30"W

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1.0 INTRODUCTION

The Cathedral property (the "Property") is centred at latitude 56° 08' N and longitude 125° 30' W, approximately 65 kilometres northwest of Germansen Landing (Figure 1). The Property is located in the Omineca Mining Division of north-central British Columbia, Canada.

Fieldwork in 2018 was carried out between June 1 and August 17 in the south and southeastern areas of the Property. The property was visited four times during this time period (June 11-26, July 3-14, July 20-27 and August 4-17) to complete the work program.

Soil samples from the Cathedral Area were collected during last years' geological mapping program on August 20 and 21, 2017 with analysis performed in May 2018.

The objective of the work program was to test the possible extensions of known mineralization, confirm historical soil samples, and to test areas that have had little to no exploration work.

A list of definitions, abbreviations and conversion factors are presented in Appendix I. Structural orientations or Cartesian directions in this report are referenced with respect to true north.

1.1 ACCESS

Road access to the Property from Prince George is gained by taking Highway 97 north to Highway 39 (Mackenzie turnoff). At 16.2 kilometres along Highway 39, a 300 metre all-weather road exits to the west and connects to the Finlay FSR at the 8.2 km marker. At this junction, northbound travel heads to Mackenzie while southbound travel heads to Williston Lake via the Causeway and on to the Phillips Connection at the 18.6 km marker. At the Phillips Connection, the Mt. Milligan mine site and Fort St. James are accessed via the FSR that exits to the west, while access to the Cathedral property is north via the Finlay FSR. Continuing northward on the Finlay FSR, at the 173 km marker is the junction with the Finlay-Osilinka FSR. The Finlay FSR heads north to several small settlements such as Fort Ware, while the Finlay-Osilinka FSR heads west for 46.5 kilometres to the junction of the Osilinka FSR (46.5 km marker eastbound, 46 km marker westbound). At this junction, road signage designates the Finlay-Osilinka FSR as the Tenakihi Mainline. An abandoned logging camp is located to the northwest of the junction. The Tenakihi Mainline continues approximately 168 kilometres northwest from the junction to the closed Kemess South mine site.

From the Tenakihi Mainline/Osilinka FSR junction access is limited to the southern and eastern fringes of the Property. Access to the southern part of the Property is by the Thane Mountain FSR (62.6 km marker) and the Upper Osilinka Mainline (64 km marker), which is

modified from Hancock *et al*, Open File 2008-1

LEGEND

- Cathedral property
- Producing mine or under construction
- Proposed mine development
- Major exploration project
- Highway
- Secondary routes
- Railway
- River
- Waterbody

0 100km

THANE MINERALS INC.

LOCATION MAP
Cathedral Property

Cathedral Project
Omineca M.D., British Columbia, Canada

Project No:	C122	By:	CN
Scale:	1:3,000,000	Drawn:	CN
Figure:	1	Date:	November 2018

CME

gained via the Osilinka FSR. Access to the eastern part of the Property is by the Tenakihi FSR (14.5 km marker), which is gained via the Tenakihi Mainline. Access to the northern part of the Property is unknown, as an unnamed logging road exits to the west of the Tenakihi Mainline at the 23.8 km marker, but topographic maps show this road as being washed out. Alternatively, helicopter charters can be obtained from Smithers, Fort St. James and Mackenzie. An airstrip is located 3.2 kilometres north of the Tenakihi Mainline/Osilinka FSR junction along the Tenakihi Mainline (west side). The condition and capabilities of this airstrip for fixed wing aircraft is unknown.

1.2 PHYSIOGRAPHY

The property is located in Osilinka Ranges of the Omineca Mountains. The property is characterized by steep mountainous terrain. Elevations range from 960 metres in the Osilinka River valley along the southwestern boundary of the property to 2,360 metres above sea level at the mountain peaks. Numerous small tarns are found in the many cirques. Drainage is dendritic with a general flow to the southeast.

The Property is located on the eastern side of the Continental Divide and all drainage flows into Williston Lake, a man-made reservoir formed behind the W.A.C. Bennett dam and hydroelectric generating station. Drainage continues on to the Arctic Ocean.

1.3 PROPERTY

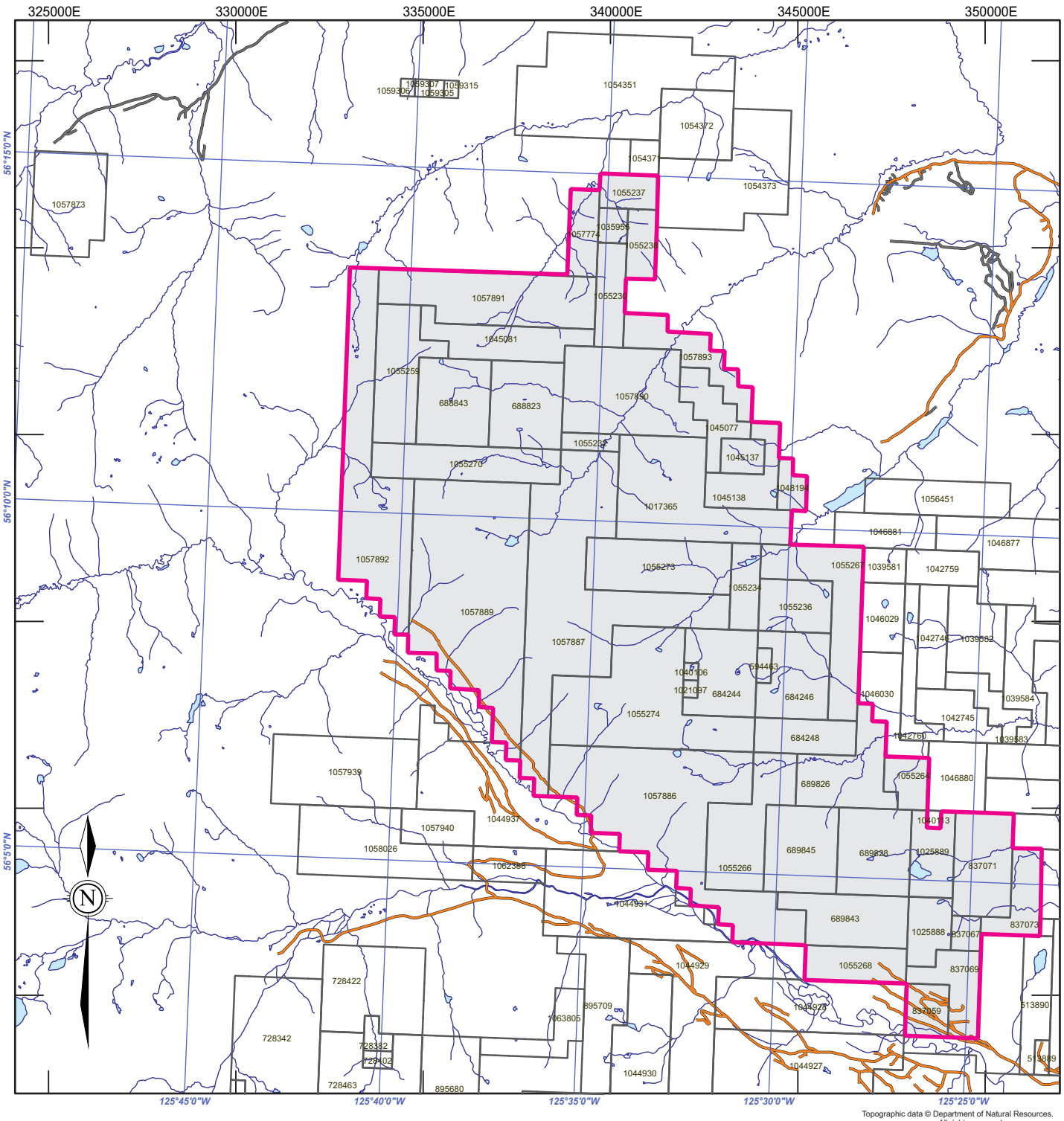
The 20,658.035 hectare Property consists of 48 MTO cell tenures, which are 100% owned by Thane Minerals Inc. A plan map of the mineral tenures is presented in Figure 2. Mineral tenure details are presented in Table 1.

Table 1: List of Mineral Tenures

Tenure Number	Area (ha)	Owner	Tenure Type	Good To Date
594463	36.0654	Thane Minerals Inc.	MTO Cell	2019/JUL/05
684244	414.7706	Thane Minerals Inc.	MTO Cell	2019/JUL/05
684246	414.7606	Thane Minerals Inc.	MTO Cell	2019/JUL/05
684248	252.555	Thane Minerals Inc.	MTO Cell	2019/JUL/05
688823	450.1158	Thane Minerals Inc.	MTO Cell	2019/JUL/05
688843	450.1199	Thane Minerals Inc.	MTO Cell	2019/JUL/05
689826	433.0388	Thane Minerals Inc.	MTO Cell	2019/JUL/05
689828	451.2893	Thane Minerals Inc.	MTO Cell	2019/JUL/05
689843	415.3282	Thane Minerals Inc.	MTO Cell	2019/JUL/05
689845	451.2932	Thane Minerals Inc.	MTO Cell	2019/JUL/05
837059	162.6033	Thane Minerals Inc.	MTO Cell	2019/JUL/05
837067	72.2301	Thane Minerals Inc.	MTO Cell	2019/JUL/05
837069	252.8936	Thane Minerals Inc.	MTO Cell	2019/JUL/05

Table 1: List of Mineral Tenures *(cont'd)*

Tenure Number	Area (ha)	Owner	Tenure Type	Good To Date
837071	433.2248	Thane Minerals Inc.	MTO Cell	2019/JUL/05
837073	216.6435	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1017365	864.7239	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1021097	18.0354	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1025888	198.6395	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1025889	252.7215	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1035955	71.9387	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1040106	18.0336	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1045077	234.071	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1045081	377.9497	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1045137	108.0609	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1045138	252.1758	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1048194	90.0613	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1055230	215.9103	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1055232	72.0359	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1055234	180.2442	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1055236	270.3817	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1055237	143.8463	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1055238	143.8938	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1055259	468.037	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1055264	144.352	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1055266	523.4329	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1055267	540.7679	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1055268	252.8778	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1055270	468.2975	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1055273	540.6773	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1055274	1100.2454	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1057774	179.8537	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1057886	1588.3245	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1057887	1748.4763	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1057889	1784.4579	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1057890	774.1504	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1057891	737.7081	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1057892	1080.7358	Thane Minerals Inc.	MTO Cell	2019/JUL/05
1057893	305.9846	Thane Minerals Inc.	MTO Cell	2019/JUL/05



LEGEND

Cathedral Property

728342 Other tenure boundaries (as of November 13, 2018)

Topography

Gravel road (not all roads and trails shown)

Watercourse

Waterbody

0 5km

NAD83 UTM Zone 10 North
NTC 094C03,04,05,06

THANE MINERALS INC.

MINERAL TENURE MAP
Cathedral Property

Cathedral Project
Omineca M.D., British Columbia, Canada

Project No:	C122	By:	CN
Scale:	1:150,000	Drawn:	CN
Figure:	2	Date:	November 2018

CME

2.0 WORK HISTORY

The Property has been subject to a number of preliminary regional exploration projects with only localized detailed exploration and sampling in specific areas.

Exploration of the Hogem batholith and surrounding area was initiated in the late 1800's with placer gold being discovered in the district in 1868. During the 1930's Consolidated Mining and Smelting Ltd. explored the margins of the Hogem batholith and conducted underground exploration on several properties for gold, silver, lead and mercury. Kennco Explorations Ltd. explored and staked portions of the Hogem batholith near Duckling Creek in the 1940's. In the early 1970's, mineralization on the Lorraine property discovered by Kennco and subsequently held by Granby Mining Company represented the only significant

mineralization found to that date. At the time it was estimated that the Lorraine deposit contained a maximum of 10 million tons grading 0.70% copper.

In the late 1960's and early 1970's the Belgian company, Union Miniere Exploration and Mining Corp. Ltd (UMEX) of Montreal conducted extensive regional exploration in north-central British Columbia, over the Property and surrounding areas. Regional work, carried out by Dolmage
Campbell & Associates Ltd., included aeromagnetic surveying and silt sampling (Kahlert, 2006). The aeromagnetic survey outlined three anomalies along the northeast flank of the Hogem batholith. The silt sampling revealed anomalous copper values at the headwaters of Matetlo Creek. Further investigation found low-grade copper mineralization in fractures and disseminated in both the volcanic and intrusive rocks. In 1970, a soil sample grid was established over what was known as the western half of the Mate 2 claim. An open-ended east-west trending copper anomaly (>l00 ppm) measuring 1500 by 750 meters was outlined. Anomalous copper values were found in silts in the headwaters of the south fork of Matetlo Creek.

Stevenson (1991) reports that during the summer of 1971, Amoco Canada conducted a reconnaissance stream sediment sampling-mapping program over the Hogem batholith in search of porphyry copper-molybdenum deposits. A total of 7,376 silts, water, rock and soil samples were collected from an area of approximately 2,400 square kilometers and analyzed for copper and molybdenum. Amoco did not assay for gold in any of these samples. Numerous areas with anomalous copper and/or molybdenum in stream sediments were detected. Four areas were staked and worked by Amoco during 1972 and 1974. These areas were known as the Tyger, Needle, Oy and Hawk properties. Property work consisted of reconnaissance and detailed soil sampling and geological mapping. The latter three properties were restaked by Cyprus in 1990 and named the Steele, Ten and Hawk properties, respectively. It is unclear how much overlap is between the Oy property and the subsequent Ten property. The former, based on limited information appears to have been located east of the Ten area, in and around the current OY occurrence (Minfile 094C 071). Geology and Exploration and Mining (1973) describes this as an area of monzodiorite and diorite, invaded by numerous dykes and apophyses of fine-grained quartz monzonite and monzonite which are in contact with Takla Group rocks Chalcopyrite occurs as fracture coatings, coarse grains in

quartz veins, and minor disseminations over the whole property. Mineralization includes chalcopyrite and specular hematite. No reports of the results of work undertaken are known.

In 1971, Fortune Island Mines Ltd. located several copper occurrences proximal to the earlier UMEX showings. Chip samples from disseminated and fracture-controlled mineralization in propylitized intrusive assayed up to 0.23% and 0.38% copper over 50 and 30 feet respectively. A chip sample across the core of a six foot wide quartz-vein assayed 2.18% copper over 3.5 feet. A six inch chip sample from a four foot wide quartz-vein returned 3.52% copper and 0.02 oz/ton gold and represents the only gold assay reported. Four aeromagnetic positive anomalies were identified on and adjacent to the Mate property.

In 1972, Noranda Exploration Company, Limited staked the Gail Group claims encompassing a copper-molybdenum prospect located in a small north-facing cirque at the headwaters of Tenakihi Creek. Work on the Gail Group in 1973, included line cutting, soil sampling (40), rock geochemistry (30 talus chips representing a 200 foot section of the contour sampling traverse line), prospecting and mapping at a scale of 1"=400'. Soil and talus samples were analyzed for copper, molybdenum and zinc in Noranda's company laboratory in Vancouver, British Columbia. It was noted that in soils, zinc values were erratic and didn't correlate well with either copper or molybdenum, both of which were considered to be anomalous over the entire grid. The talus chips were noted as having values consistent with observed copper mineralization in the cirque walls to the south and southeast and its noted absence on the walls to the west.

Major General Resources Ltd. (now Commander Resources Ltd.) acquired the extensive UMEX database when UMEX closed its Canadian operations in the early 1980's. With the discovery of the Mt. Milligan deposit and favorable metal prices, interest in copper-gold porphyry deposits resurged in the late 1980's.

In 1990, Cyprus Gold (Canada) Ltd. investigated several properties in the Thane Creek area. These included the Ten claims encompassing the Gail Zone area and the ET claims encompassing the ET Zone, both on the current Property, as well as the OS, Hawk and Steele claim groups located south of the Property. All prospects were explored for potential gold mineralization.

Work done on the Ten and the ET claims included reconnaissance style geological mapping, soil sampling, rock sampling and proton magnetometer surveying. All soil and rock samples were analyzed for gold and copper.

On the Ten property there were no significant gold values returned from the analyses and as such, no further work was recommended for gold exploration. It was noted that the property did host several broad, moderate to strong copper anomalies associated with strongly potassic-altered syenites. Some of these anomalies were traced for greater than 1,400 metres along strike and up to 400 metres in width, with copper values ranging from 300 ppm to 600 ppm and a high noted at 1,200 ppm copper. From these significantly anomalous copper results, it was recommended that the property should be investigated further for its porphyry copper potential.

Soil and rock geochemistry results from the ET property yielded low gold values with a single high gold-in-soil value of 25 ppb and the highest gold value in rocks being 315 ppb. In terms of copper, several rock samples yielded results of >5000 ppm with the highest value being 1.9% copper found in float and 1.1% copper returned from an outcrop. Soil samples generally outline broad anomalous copper zones associated with the anomalous rock sample values. The largest anomalous zone measures 600 metres by 300 metres and has soil values ranging from 300 ppm to 500 ppm copper. Further exploration for gold on the ET property was dissuaded, however, as the property hosts several significant copper soil anomalies, further exploration of the property's porphyry copper potential was recommended.

The TK 1 and TK 2 mineral claims were staked by Electrum Resource Corporation in June of 1990 and subsequently worked on in the 1991 and 1992 field seasons. In 1992, preliminary mapping was done at a scale of 1:15,000 and 19 rock chip samples and 1 heavy mineral stream sediment sample were collected and analyzed. The highest copper value to come out of the 1992 work was 2,907 ppm copper from a piece of intensely calcified Takla volcanic float. The setting indicated that the float is locally derived and that further work was needed in order to define where the sample originated.

In 1991, Major General utilized the UMEX data to select specific porphyry targets within the Hogem batholith. Major General staked and subsequently explored number of properties, including the Mate property encompassed by the current Property.

Also in 1990 and1991 a program of prospecting and sampling was performed around the Link claims which included rock, silt and soil samples. Disseminated chalcopyrite, magnetite and pyrite were noted in rock samples. Soil samples returned anomalous copper up to 261 ppm copper and a rock sample returned 1,547 ppm copper (Ethier, 1991, BC Minfile 094C 123).

Regional mapping in 1991 by BC Geological Survey crews resulted in the defining of several new occurrences on and around the Mate property, which have been added to the provincial mineral occurrence database (MINFILE). These include 094C 113 (Yak), 114 (Koala), 115 (Intrepid), 116 (Bill), 117 (Yeti) and 118 (Dragon).

During the 1991 and 1992 field season, Major General's Mate property was explored under an option agreement with Swannell Minerals Corporation. Prospecting, silt sampling and geological mapping, followed by grid-controlled soil sampling over the previously identified soil anomaly, were carried out. Mapping noted that Takla volcanics on the property were intruded by a monzonite stock in the central portion of the then current Mate property and by the Hogem batholith in the south. Narrow granodioritic dykes cut Takla volcanics proximal to the monzonite stock. Mineralization occurred as disseminated magnetite and pyrite in monzonite and volcanics; fracture-controlled malachite, azurite with or without minor chalcopyrite, and, magnetite and pyrite in monzonite; magnetite veins up to 15 cm wide with rare chalcopyrite and quartz veins with azurite, malachite and rare bornite. While extensive propylitic or potassic alteration was not found, two areas of significant copper mineralization were identified. Of particular note was malachite-azurite in quartz monzonite traced in talus for 200 metres along the base of a slope.

Lithogeochemical response from the work on the Mate claims include 7 samples of greater than 1,000 ppm copper with a maximum 3.08% copper and 0.039 oz/ton gold. Gold response was generally <15 ppb with the exception of one other sample that ran 175 ppb gold and 2135 ppm copper and two with 107 and 500 ppb gold, both with copper <65 ppm. A total of 228 soil samples were collected. Copper ranged from 14 to 468 ppm. Gold ranged from 1 to 152 ppb. Material sampled was primarily talus fines and stream sediment. Additional work including detailed mapping and sampling was recommended on the Mate property. However, interest in porphyry targets waned and shortly thereafter a major decline occurred in the provincial mineral sector leading to the inability to raise exploration funds to pursue the targets and the property was allowed to lapse.

Swannell Minerals Corporation was also working on an area designated as the Aten group of claims, partially encompassed by the current northeastern portion of the Property, and enclosing three Minfile showings: Gail, Ten and Tenakihi Creek. In 1991, Swanell contracted Reliance Geological Services Inc. to explore the Aten group of claims for its alkalic porphyry copper-gold potential. During October 1991, a program of rock sampling (11 samples), stream sediment sampling (31 samples) and reconnaissance geological mapping at a scale of 1:10,000 was carried out. Two rock samples returned copper values of 2.82% and 2.83%. Based these values and on anomalous results from stream drainages, three target areas were identified. From there, further work was recommended consisting of grid establishment, detailed geological mapping, soil sampling, and talus fines sampling.

In 1993, Swanell Minerals Corporation worked on the Aten property encompassing the Tenakihi Creek Minfile occurrence. Fieldwork was designed to follow-up the anomalous rock and soil geochemistry identified in earlier exploration. Fieldwork consisted of a surveyed grid laid out over the north-central area of the property, geological mapping on the gridded area at a scale of 1:10,000, collection of 23 rock samples and 88 soil samples both analyzed for copper and gold. Lithogeochemistry results includes 9 samples of >1,000 ppm copper with a maximum of 3.20% copper. Gold response was lower and erratic, with 4 samples greater than 100 ppb gold and a maximum of 205 ppb gold and 3,599 ppm copper. Gold response from the 88 soil samples collected was noted as being below the 5 ppb detection limit, the only exceptions being two high values of 28 and 32 ppb gold. Further work was recommended targeting three specific areas on the property.

During 1994, a regional geochemical survey was carried out by the BCGS sampling drainages throughout the 1:250,000 scale NTS map area, 94C (Mesilinka River). A total of 1068 sites were visited. Anomalous samples collected from the Property area included 302 ppm copper from a creek draining the ET area, 246, 258 and 270 ppm copper from creeks draining the Mate/Mat areas, and 216 ppm, 220 ppm and 246 ppm copper draining areas in the Ten/Gail area. Several strong gold-in-silt anomalies were also noted particularly in the north of the property (154 ppb gold) from a creek draining into Matetlo Creek. In the Ten area a sample yielded 86 ppb gold and associated with copper values greater than 200 ppm.

Phelps Dodge Corporation staked claims in the area in late 1999 after completing a regional silt sampling and prospecting program consisting of collecting 16 rock samples and 8 silt samples.

The following year, Phelps Dodge Corporation conducted preliminary soil, bedrock and silt sampling and geological mapping in the Tenakihi Creek area, located near the eastern part of the property. A total of 83 bedrock and float samples, 15 chip samples and 25 silt samples were collected from the claim area and an additional 36 rock, 8 soil and 29 silt samples collected outside the claim area. Of the grab samples collected, 23 returned greater than 0.5% copper, and 8 samples returned greater than 2% copper (Kulla, 2001). This preliminary evaluation of the Tenakihi claims identified widespread disseminated chalcopyrite, chalcopyrite-bornite-malachite-magnetite veins and chalcopyrite-bearing quartz-carbonate veins. Numerous anomalous copper zones appear to be hosted in monzonitic intrusions of the Hogem batholith and are locally associated with prominent but discontinuous east-west trending faults and shear zones within the intrusions. Results from the work of Phelps Dodge were deemed favourable, warranting a follow-up program of detailed mapping, soil sampling and trenching as well as additional prospecting outside the claim boundaries.

In 2005, renewed interest in porphyry copper-molybdenum occurrences, inspired by increased metal prices, prompted Commander Resources to review their in-house data and former projects of the entire area. The Mate property, the Aten property, and four other prospective areas were acquired. In August 2005, a short prospecting program was completed on the Mate with 31 soil samples and 2 rock samples taken. From this cursory program further recommendations were made. These were that a detailed soil and induced polarization survey be completed, that all showings were to be re-sampled and assayed for gold and that drilling be done on any IP chargeability highs outlined in the follow-up.

On the Aten property, Commander Resources conducted a limited soil surveying and prospecting in August 2005. A total of 11 soil samples and 17 rock samples were collected while prospecting the property. This short program was successful in discovering a new high-grade copper prospect called the CJL Zone, located in the southern part of the property. The CJL Zone is hosted in highly altered, foliated syenite, not previously noted on the Aten property. Float samples were noted with values ranging as high as 12.4% copper. A program of detailed geological mapping, prospecting, gridding and magnetics surveying was recommended for follow-up, as well as diamond drilling on the CJL Zone should it warrant further work.

Also during 2005, Geoscience BC sponsored a program of increasing the ASTER imagery dataset for the BC Ministry of Mines, Energy and Petroleum Resources. Four alteration images for each scene were prepared using combinations of the standard ASTER bands. The images are designed to map the relative abundances of siliceous rocks, iron oxides, sericite and illite, and alunite and/or kaolinite (Kilby and Kilby, 2006). This work includes coverage over the current Property.

In 2006, Geoinformatics Exploration Canada Ltd (Geoinformatics) acquired a large tract of land totaling 126,664 hectares in the Mesilinka area of the Hogem batholith through staking

and option agreements with Commander Resources and Norwest Enterprises. Commander conducted a regional exploration and data compilation on the ground, focusing on porphyry copper and copper-gold skarn potential within central to northern Quesnel Terrane. The fieldwork followed an extensive phase of digital data capture, integration and interpretation, and subsequent regional target generation. The data captured and compiled included 3,168 stream sediment samples, 4,491 rock samples (and rock chip samples), and 1,455 soil samples. Of the stream samples, 226 of the were collected over the southern portion of their project area during the 2006 field season due to insufficient data available in the public domain on that particular area. In addition to the stream sediment sample collection, a two hole diamond drill campaign totaling 751.5 metres on the previously drilled Kliyul copper-gold skarn located north of the Property, aimed to further evaluate the skarn potential.

From the work done on the Mesilinka project in the 2006 season, the regional stream sediment sample program identified a number of strongly anomalous catchments to focus the 2007 field program and validate copper-gold targets identified through the data compilation process. This both confirmed the significance of known copper-gold prospects and Minfile occurrences, and identified new target areas.

Follow-up work in 2007 by Geoinformatics involved geological mapping and diamond drilling on several prospects derived from the data gathered in the previous year's work. Within the greater area of their project, four main areas were investigated through detailed geological mapping and subsequent diamond drilling. These prospects were Norwest, Abe, Aten and Pal prospects with the Aten and Pal prospects closest to the current Property area. Two (2) diamond drill holes totaling 885.4 metres were drilled on Aten and three (3) diamond drill holes totaling 510.9 metres were drilled on Pal. Results at the Aten and Pal prospects were deemed insignificant and no further work was recommended.

Also during 2007, Geoscience BC commissioned airborne geophysical surveys including magnetics and gravity surveys as part of the QUEST Project. The surveys covered ground of the Quesnel Terrane from Williams Lake to Mackenzie, BC. The Property lies at the extreme northwestern edge of the survey coverage. Processed gravity data is available as images that cover the entire Property. Magnetic surveying did not completely cover the Property area so complete gridded coverage is not available.

During 2010, CME Consultants Inc. carried out a comprehensive compilation program of the Property and the surrounding area using data from assessment reports as well as public domain sources of geochemical, geophysical and geological data. This compilation led to identify four areas of interest. Three of the four areas of interest were visited over four days in August and September 2010. Exploration consisted of prospecting, rock sampling (69 samples) and stream sediment sampling (10 samples). In Area 1, rock sampling identified numerous anomalous samples (>0.1%) with copper and/or gold mineralization of up to 13.9% copper, and 23.6 g/t gold (also 27.6 g/t Ag). Other highlights included 1.23% copper and 0.65% copper. In Area 2, rock sampling also identified numerous samples of anomalous copper and/or gold mineralization including 2.85% copper and 265 ppb gold and 1.08% copper and 435 ppb gold. Significant results in Area 3 included 0.84% copper and 195 ppb gold and 0.54% copper and 45 ppb gold (Naas, 2011).

Follow-up exploration by CME during 2011 focused on the Cathedral Zone and the Link Zone in the southern portion of the Property. The Cathedral Zone has been previously referred to as Area 1 (Naas, 2011). The Link Zone is in the area of the BC Minfile showing 094C 123 (Link). Geochemical sampling consisted of rock, silt and soil sampling. Numerous high-grade rock samples of over 1% copper and 1 g/t gold were collected from a variety of locations in the explored area. Sampling at the Cathedral Zone in the vicinity of a high-grade copper-gold sample collected the previous year (13.9% copper, 23.6 g/t gold) returned another high-grade rock samples grading 3.29% copper and 20.1 g/t gold. Silt samples yielded strongly anomalous copper values of up to 419 ppm copper in the northwest portion of the Cathedral Zone, an area which remains relatively unexplored. Silt samples from a creek draining the eastern portion of the Cathedral Zone yielded anomalous gold values of up to 80 ppb gold. Soil sample analysis by a hand-held XRF unit returned anomalous copper values in the area of the Link Zone and suggest several parallel to sub-parallel zones of greater than 100 ppm copper striking in a north-north west direction with lengths of up to 500 metres and widths of up to 150 metres.

In 2012, Thane Minerals acquired the Property and undertook geological mapping, rock sampling, and soil sampling within the Cathedral, Gail, Cirque and Lake Areas. Detailed silt sampling was undertaken in the Lake Area. Results returned up to 13.9%Cu from the Cathedral Showing, up to 13.0 g/t Au from the Pinnacle Showing and 4.56% Cu from the Lake Area. Silt samples from the drainage of the Lake Area returned up to 627 ppm Cu (Naas 2013).

In 2013, Thane Minerals undertook a prospecting program at the Pinnacle Showing and at the Lake Area (Naas, 2014). A total of 54 rock samples were collected at the Pinnacle Showing, while 23 rock samples were collected at the Lake Area. Additionally, a 2.275 line-km survey grid was established at the Lake Area from which 96 soil samples were collected.

At the Pinnacle Showing, a 60 metre wide fault zone was mapped, which contained a minimum of seven faults striking 150° to 170° and dipping 50° to 60° W. Sampling from the two westernmost and two easternmost faults of the fault returned the most significant gold results (up to 3.60 g/t Au and 7.78 g/t Au respectively), though anomalous gold is also present within the central structures of the 60 wide fault zone. Significant gold samples were found to have anomalous arsenic values, although the converse did not necessarily hold.

Of the 54 rock samples collected from the Pinnacle Showing (and its strike extensions), 16 returned greater than 0.1 g/t Au and 7 returned greater than 1.0 g/t. Additionally 8 samples returned greater than 0.1% Cu with a maximum of 2.91% Cu.

In 2015, an airborne geophysical survey was undertaken on all mineral tenures of the Cathedral Property and four days of prospecting at the Mat and Pinnacle Showings and the ET and Lake Areas (Naas, 2016a). The work program consisted of:

- 974 line-km of helicopter-borne magnetic and radiometric surveying;
- 22 rock samples and 7 sediment samples for geochemical analysis.

The results from the propspecting program confirmed the presence of historically reported copper mineralization at the ET Showing and silver at the Mat Showing. Stream sediment sampling at the ET Showing failed to duplicate historical tin values.

Copper mineralization was discovered in a new area within the Lake Area, north of current known mineralization.

In 2016, prospecting was undertaken on select areas of the Property (Naas, 2016b). . A total of 56 rock samples and 79 soil samples were collected at the newly acquired CJL Showing. A total of 6 stream sediment samples, 49 soil samples and 24 rock samples were collected to test a historical sediment sample of anomalous gold values from the northern portion of the property, west of the Mat Showing (RS Creek). At the OY Showing, a total of 22 stream sediment samples and were collected.

At the CJL Showing, a total of 31 of the 56 samples returned greater than 0.10% Cu, with 10 samples returning greater than 1.0% Cu. The style of mineralization at the CJL Showing was observed to be a copper-rich magnetite/specular hematite breccia

At RS Creek, although the anomalous historical gold-in-silt sample was confirmed with a sample that returned 0.582 ppm Au, this sample was considered to be the result by glacial till contamination and not from bedrock sources.

At the OY Showing, the historical gold-in-silt sample was confirmed, but no other anomalous samples were returned from the creek.

In 2017, a structural and alteration study was undertaken at the Cathedral Area. Mineralization was considered to be the result of a structurally controlled alkalic porphyry system. Due to the moderate dip of the mineralization, the system was speculated to be tilted post-emplacement about a north-south to northwest-southeast axis of approximately 45 degrees, similar to Mount Milligan (Gordon *et al.*, 2018).

3.0 GEOLOGY

3.1 REGIONAL GEOLOGY

The Property is situated within the Quesnel Terrane, on the eastern flank of the northern end of the Hogem batholith (Figure 3). The Quesnel Terrane is an accreted Mesozoic volcanic arc terrane that forms a north-south trending linear belt of rocks approximately 1,600 kilometre long along the eastern margin of the Canadian Cordillera. The terrane is dominantly Upper Triassic to Lower Jurassic volcano-sedimentary sequences that include the Takla, Nicola and Stuhini groups. Coeval and post-accretionary Cretaceous intrusions are scattered throughout this terrane. The Cretaceous Hogem multi-phase batholith is the largest of these intrusions, forming the spine of this island arc allochthonous, intermontane superterrane. The northwest-

trending elongate Hogem batholith extends for approximately 120 kilometres from Chuchi Lake at the southernmost limits, to the Mesilinka River at the northern limit. It is bound on the west by the Pinchi Fault and on the east by the Upper Triassic to Lower Jurassic Takla volcanics. The Hogem batholith is composed of a peripheral zone of dioritic plutons, such as the Thane and Detni intrusives, surrounding a central granodioritic (Hogem granodiorite) and syenitic (Duckling Creek Complex) core. The Hogem batholith is intruded and crosscut by early to mid-Cretaceous granitic plutons, such as the Mesilinka Intrusive and the Osilinka Intrusive.

3.2 PROPERTY GEOLOGY

The Property is predominantly underlain by intrusive rocks of the Hogem Plutonic Suite (HPS). Intermediate volcanic rocks of the Takla Group are in contact with the HPS intrusives at the northeastern portion of the Property (Figure 4). Numerous dykes, sills and small stocks are noted in both the main geological units. These small intrusions are generally related to the Hogem intrusive. The areas of current exploration are located wholly within the HPS rocks. Descriptions of the various rock types over the whole property can be found in Naas (2013).

Hogem Plutonic Suite

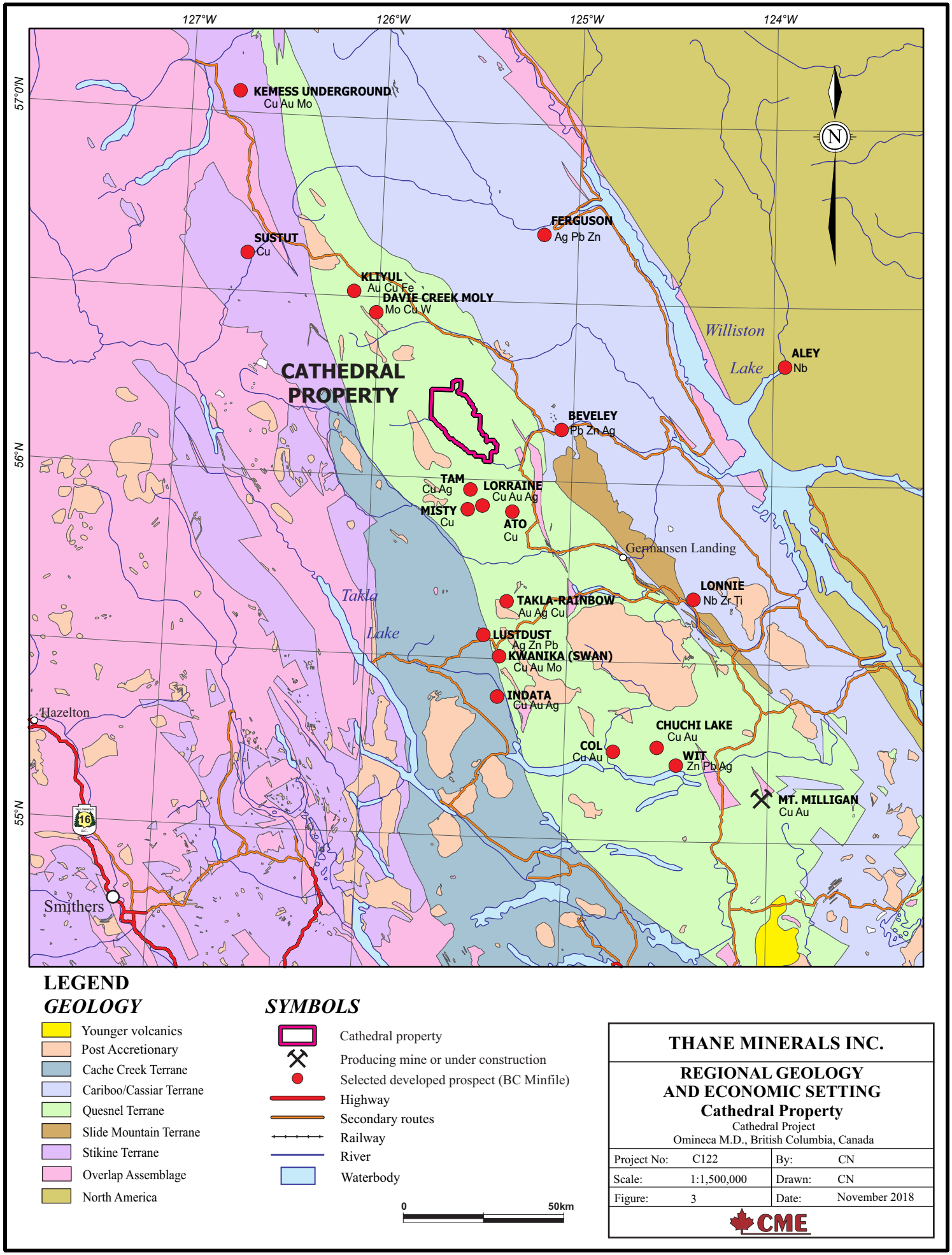
From historical work done on and around the Property, there are numerous phases of the Hogem Plutonic Suite (HPS) including: granite; granodiorite; hornblende granodiorite; quartz diorite; microdiorite; diorite; monzodiorite; quartz monzonite; monzonite; and, syenite. The dominant intrusives types reported based on field mapping are monzonites, monzodiorites, diorites and syenites. Granites, granodiorites and other intrusives mapped tend to be smaller dyke-like units within the main intrusive types.

Quartz Monzonite

Quartz monzonite is identified in most areas of the Property, consistent with the regional BCGS mapping that identifies the Hogem Plutonic Suite as primarily quartz monzonitic. Quartz monzonite is the primary intrusive phase at the Cathedral Area, hosting the Pinnacle Showing, as well as noted in the Lake Area.

Quartz monzonite of the HPS can be a range of colours, from grey to salmon pink, or gossanous due to variable alteration. Typically, fresh surfaces show black, white and pink crystals. Texturally, the unit may range from fine to very coarse-grained and equigranular. Plagioclase and potassium feldspars make up 60 to 80% of the rock (50-75% plagioclase and 25-50% potassic feldspar). Quartz ranges from 5 to 15% and mafic minerals (amphiboles and biotite) comprise 10 to 25%. Magnetite is variable, with generally higher concentrations noted in the Link and Lake area occurrences (3-5%, locally up to 15%).

Potassic alteration is pervasive and the most common alteration observed in the Cathedral Area. Intensity ranges from subtle to strong, giving the quartz monzonite the characteristic salmon pink colour. Potassic alteration appears to be stronger in the northern half of the mapped area which weakly coincides with increased presence of copper mineralization.



LEGEND

GEOLOGY

- Younger volcanics
- Post Accretionary
- Cache Creek Terrane
- Cariboo/Cassiar Terrane
- Quesnel Terrane
- Slide Mountain Terrane
- Stikine Terrane
- Overlap Assemblage
- North America

SYMBOLS

- Cathedral property
- Producing mine or under construction
- Selected developed prospect (BC Minfile)
- Highway
- Secondary routes
- Railway
- River
- Waterbody

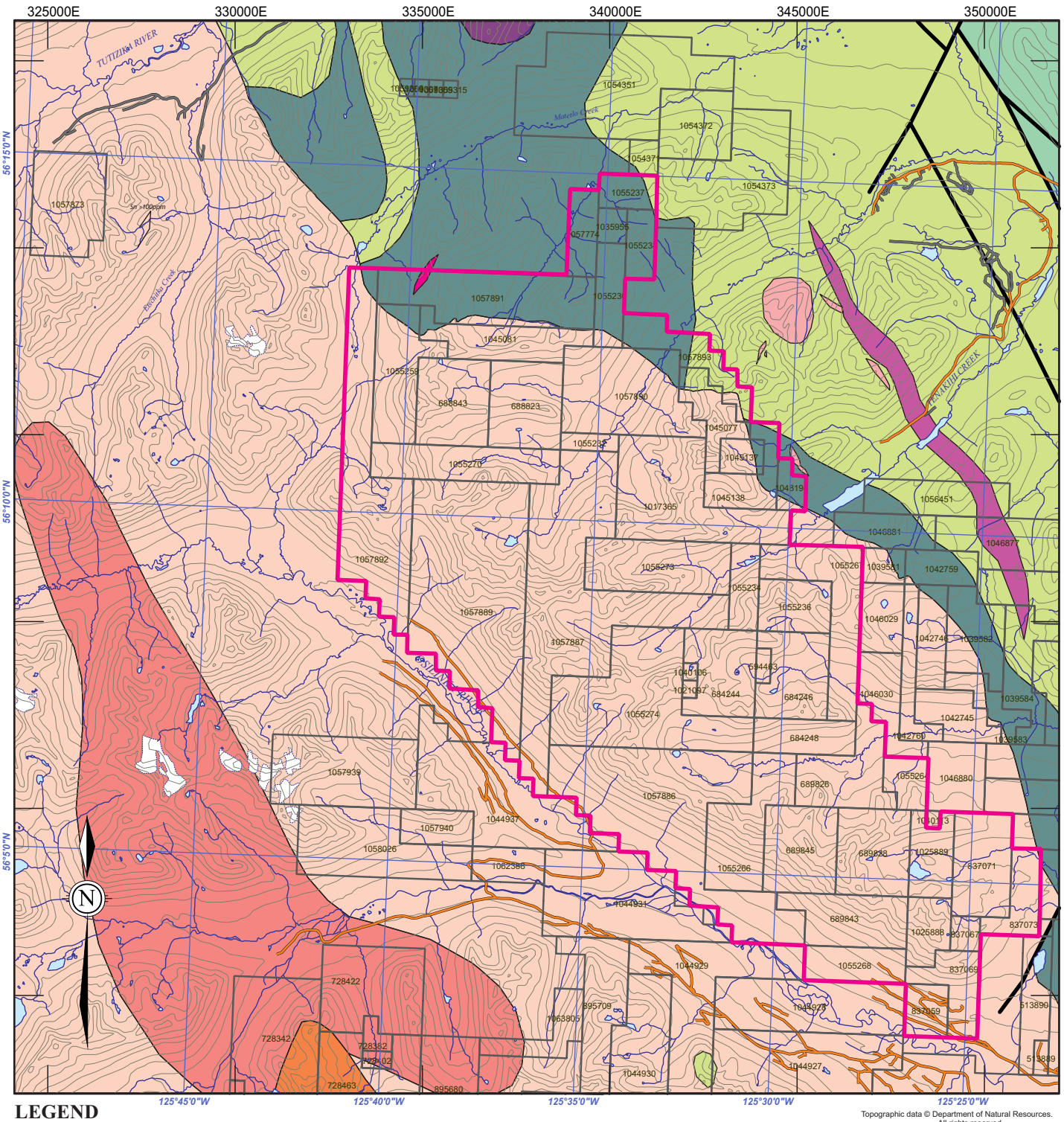
0 — 50km

THANE MINERALS INC.

REGIONAL GEOLOGY AND ECONOMIC SETTING
Cathedral Property
Cathedral Project
Omineca M.D., British Columbia, Canada

Project No:	C122	By:	CN
Scale:	1:1,500,000	Drawn:	CN
Figure:	3	Date:	November 2018

CME



LEGEND

GEOLOGY

- Takla Group - sediments; volcanics
- Lay Range Assemblage - volcaniclastics

Hogem Plutonic suite

- Quartz monzonites
- Granite
- Duckling Creek syenite
- Unnamed - quartz monzonitic intrusive rocks (associated with Cu-porphyry systems such as Mt. Milligan, BP-Chuchi, and Tas)
- Tenakihi Intrusive Complex - diorite intrusive rocks
- Aiken Lake Intrusive Complex - gabbro-diorite

SYMBOLS

- Cathedral property boundary
- 689866 Tenure boundary and number
- Gravel road (not all roads and trails shown)
- Contour (100 metre interval)
- Watercourse
- Waterbody

0 5km

NAD83 UTM Zone 10 North
NTC 094C03,04,05,06

THANE MINERALS INC.

GEOLOGY PLAN MAP
Cathedral Property

Cathedral Project
Omineca M.D., British Columbia, Canada

Project No:	C122	By:	CN
Scale:	1:150,000	Drawn:	CN
Figure:	4	Date:	November 2018

CME

Calcite is also consistently observed interstitially as well as along fracture surfaces and in veins. Chloritization is sporadic and may be present as veinlets or altering mafic minerals. Epidote is present as veins or selvage to quartz veinlets. In the western portion of the Cathedral Area, epidote veins (1mm, up to 10cm) are more common and are found as selvage to quartz veins. Quartz-calcite veinlets (<3mm wide) are observed throughout the Cathedral Area, comprised of quartz+/-calcite and may host sulphides. Malachite staining is prevalent throughout the area. Epidote alteration in the Link Area appears largely selective to selvages of calcite and/or quartz veinlets (<1-3mm wide) and veins (<1.5cm) but is also observed altering feldspar.

Sulphide mineralization is abundant in the quartz monzonite in the Cathedral Area. Chalcopyrite is the dominant copper-bearing mineral, commonly associated with malachite and azurite that may be present as large (1 by 1 metre) stains on the side of cliff faces. Chalcopyrite ranges from <1 to 1% in abundance and is most notably located in the western portion of the mapped area. Chalcopyrite was observed to occur as: fine grained disseminations; larger blebs; fracture-filling; within quartz-calcite veins; hairline stringers; and, massive lenses. Specularite was identified in the eastern area of the Cathedral Area, appearing as veins or massive lenses. Malachite, and less commonly azurite, was noted as stains on cliff faces but also at the smaller scale, interstitially within gossanous samples. Arsenopyrite was identified at the Pinnacle Showing. It was observed as blebs located along fracture surfaces (3-5%). Arsenopyrite also occurs as veinlets. Pyrite was observed as disseminated, fracture-fill, blebs, in veins, stringers, and massive. Comparable mineralization is noted in the units of the Gail and Lake Area. The Link Area quartz monzonite show much more limited chalcopyrite mineralization as evidenced by rock sampling results from the area (Naas, 2013).

Granodiorite

Granodiorite is noted in the Lake Area. These rocks can range from light grey to medium grey to almost beige, with a medium to very coarse-grained equigranular texture. Compositionally, these granodiorites consist of 20 to 40% quartz, 30 to 60% feldspar and 5 to 30% biotite with minor amphibole. Magnetite disseminations range from 1 to 5%. Alteration is subtle and with potassic and epidote locally observed. Exposed surfaces of granodiorite weather to a dark grey colour. Mineralization is present in the Lake Area granodiorites (pyrite, chalcopyrite, and malachite).

Diorite

In the Lake Area, the diorite is dark green to black in colour and medium to coarse grained. Typical composition is 60 to 70% mafics (biotite and amphibole), 30 to 40% feldspar (mostly plagioclase). No quartz is noted. Alteration in the diorite is relatively weak. Chlorite and magnetite alteration affect the mafics, and calcite is occasionally present in the matrix. Magnetite pervasive (5-7%) and is almost semi-massive (15-50%) in several samples. Malachite and disseminated chalcopyrite mineralization is noted in almost all dioritic rocks in this area, usually ranging from trace amounts up to 1%. In sample 1830, chalcopyrite is 1-3%.

Alteration includes calcite and epidote. Calcite is generally weak and is observed within quartz veins as well as in the groundmass. Epidote alteration is moderate, locally altering the feldspars (Naas, 2013).

Monzonite

At the Lake Area, monzonitic rocks exhibit a slightly gossanous weathering whereas fresh exposure is pale grey to black to pink and has a medium- to coarse-grained texture. Compositionally, the mafics are highly variable, anywhere from 5% to 50%. Feldspar is strong where mafics are weak therefore also quite variable, from 20 to 90%. Quartz content is low, generally less than 5%. Alteration is dominated by potassic, epidote and chlorite. Potassic alteration varies greatly from subtle to intense. Epidote is less common, but when present is subtle to moderate and often seen in veinlets (<2mm). Chlorite alteration is infrequent and alters the mafic minerals. Magnetite is very inconsistent, ranging from trace to 15% (Naas, 2013).

Dykes

Feldspar porphyry

Feldspar porphyritic dykes have been noted in several areas of the Property underlain by the HPS. In the Cathedral Area these dykes are observed, but not in the area of the Pinnacle Showing. In the Lake Area, phenocrysts make up to 50% of the rock. Chlorite alteration of the groundmass is strong and calcite veinlets may be present.

Andesite

Andesite dykes have been noted in the Lake Area. These are described as feldspar-phyric with an aphanitic matrix. Feldspars are white to pale green, 1 to 2 mm in size, and comprise from 5 to 30% of the unit. The matrix ranges from greyish green to black in colour. Black crystals (amphibole?) are less than 1 mm in size. The dykes are typically 1 to 2 metres thick but can be as narrow as 10 cm. Magnetite is strong within the majority of samples from these dykes, ranging from 15 to 30%.

Alteration consists mainly of weak epidote and locally potassic altered feldspar. Calcite is noted within the matrix and as stringers.

3.3 PROPERTY MINERALIZATION

The principal areas of copper mineralization on the Property are the Cathedral (Cathedral, Cathedral South, Gully and Pinnacle Showings), Gail, Cirque, Mat, Lake and CJL.

Copper mineralization consists predominantly of chalcopyrite with rare occurrences of bornite. In the Cathedral Area, areas of massive mineralization have been identified including pyrite, chalcopyrite, specularite and magnetite. Throughout the Property malachite+/-azurite staining is common on exposed rock faces. Molybdenite, galena and sphalerite are seen as occasional accessory sulphides. Arsenopyrite is noted at the Pinnacle Showing of the Cathedral Area, and appears to be an indicator for significant gold mineralization.

At the CJL Showing, copper mineralization occurs within magnetic breccia hosted in quartz feldspar porphyritic dykes.

Field relations and petrographic work indicate that the sulphide mineralization is related to the lithologically complex Hogem batholith. A rare earth element (REE) geochemistry study done on several samples taken from the Property indicates that most of the intrusive phases have common parent magma (Naas, 2011).

Based on the sample suite collected, mineralization observed at the Property is similar to other well-studied alkalic porphyry copper systems in BC. Similarities include the variability and chemistry of the host intrusive complex and the style and grade of mineralization. Look-alike deposits include the deposits of the Iron Mask camp (Afton, Rainbow, DM), Galore Creek and Lorraine (Naas, 2011).

4.0 WORK PROGRAM

4.1 INTRODUCTION

Fieldwork in 2018 was carried out between June 1 and August 17 in the south and southeastern areas of the Property. The property was visited four times during this time period (June 11-26, July 3-14, July 20-27 and August 4-17) to complete the work program.

Soil samples from the Cathedral Area (Area III in this report) were collected during last years' geological mapping program on August 20 and 21, 2017 with analysis performed in May 2018.

For the 2018 work program, a vehicle supported base camp was setup in two locations within the survey area. Access to the sampling areas from camp was by foot.

The objective of the work program was to test possible extension of known mineralization (Arc Showing discovered in 2017 and the CAT showing east of the Cathedral Property) in addition to determining prospective areas. The objective at Area III was to confirm historical soil sample results.

4.2 SOIL SAMPLING

A total of 959 soil samples were collected from 24.075 km of survey lines established in three areas within the south and southeastern portions of the Property as follows:

- Area I: 22.375 km, 900 stations, 886 samples;
- Area II: 1.0 km, 41 stations, 41 samples; and
- Area III: 0.7 km, 36 stations, 32 samples.

At Area I, two contour survey lines were established following the base of the south-facing slope, one at the 1200m level and one at the 1100m level. Due to the close proximity of the western claim boundary, the 1100m line was established in four segments, with the northern portion paralleling a logging road (sample prefix "RD"). Station spacing was set a 25 metres. The 6.475 km 1200m level line consisted of 260 stations and returned 257 soil samples. The 15.9 km 1100m level-RD line consisted of 640 stations and returned 629 soil samples. (8.475km for the 1100m line and 7.425km for the RD line).

Access to southern portions of Area I was gained from the base camp setup at the end of the Thane Creek FSR. Access to the northern portion of Area I was gained from a base camp setup near the 63km spur road crossing the Osilinka River.

At Area II, a single 1 km line was established running due north. Station spacing was set at 25 metres. Access was gain from the camp setup at the southern portion of Area I. The objective of this line was to test for strike extensions from the nearby CAT showing located approximately 2.5 km to the south east. Sample stations were established with the prefix "C".

At Area III, a 700 metre grid line was established at a 70° Az near a contour soil line established in 2012. The purpose was to confirm the historical results, which has suggested a possible southeast extension of the Pinnacle Showing. Station Spacing was set at 20 metres.

Due to the boulder style terrain along the slops of the valleys, soil development was poor. Where possible, soil samples were collected from the B horizon at approximately 20 to 30 centimetre depth. Samples were placed in labeled kraft sample bags.

All samples were analyzed in-house by portable XRF (pXRF). Sample preparation and analytical methodology is presented in Section 5.2. Results from the pXRF analysis are presented in Appendix II with raw XRF data presented in Appendix IIa and corrected values for copper and arsenic, including corresponding location coordinates, in Appendix IIb.

Results

Table 2 presents the results of a simple statistical analysis for copper and arsenic using only soil samples collected as part of this report. For the statistical analysis, samples recorded as below detection limit were assigned a value half of the detection limit. At the Pinnacle Showing, historical rock samples have noted a correlation between gold and arsenic mineralization, so arsenic is treated as a pathfinder element. Gold values are not included within Table 2, as the method of analysis (pXRF) is unable to detect low levels of gold.

Table 2: Statistical Analysis, Soil Samples

Element	Sample Pass*	No. Samples	Minimum	Maximum	Mean	Standard Deviation
Copper (ppm)	*Pass 1*	959	18	876	124	116
	Pass 2	914	18	355	104	69
Arsenic (ppm)	*Pass 1*	959	4	267	18	28
	Pass 2	916	4	73	13	13

** Pass 2 is a calculated by using the mean +2 standard deviation from Pass 1 as the maximum allowable value.*

Copper and arsenic results are presented in plan map in Figures 5, 6 and 7 for Area I (representing the south, middle and north, respectively), Figure 8 for Area II and Figure 9 for Area III.

In the southern portion of Area I, line 1200 returned three anomalous copper zones. The first is a 75m zone from 1200-84 to -87 returning up to 413 ppm Cu. The second is a 50m zone from 1200-204 to -206 returning up to 439 ppm Cu with the third zone at 1200-232 to -240 (200m) with values up to 759 ppm Cu. On line 1000, one prominent zone occurs over a length of 275m from 1100-163 to -174 with values up to 801 ppm Cu.

Between these zones, sporadic copper highs occur, with some returning significant values such as sample 1200-29, which returned 810 ppm Cu.

In the middle of Area I, there is a significant group of anomalous copper samples from 1100-286 to -304. This 450m zone returned the highest copper value of the program of 1148 ppm Cu (1100-286).

Sporadic anomalous copper values were returned elsewhere on line 1100.

In the northern portion of Area I, results outlined two key copper zones. The first is a 125m zone from RD-184 to -189, which returned up to 429 ppm Cu. The second is a 75m zone from RD-270 to -763, which returned up to 393 ppm Cu.

For arsenic, anomalous samples were only returned from the southern portion of Area I. Three zones of significance are noted. A 100m zone from 1100-167 to -171 returned up to 335 ppm As. A 100m zone from 1200-208 to -212 returned up to 267 ppm As and a 100m zone from 1200-236 to -240 returned up to 386 ppm As.

At Area II, only one sample returned anomalous copper values. Sample C-23 returned 806 ppm Cu, but was bounded on either side by samples returning less than 90 ppm Cu. Three isolated samples returned anomalous arsenic, including sample C-23, which returned 366 ppm As.

At Area III, a 275m anomalous copper zone, from L110N 5240E to 5460E included four samples over 600 ppm Cu. Samples anomalous in arsenic were returned from the northern portion of the line in four small groups of 2 to 3 samples (5340E to 5680E).

5.0 SAMPLE PREPARATION, ANALYSES AND SECURITY

5.1 SAMPLE PREPARATION

All samples were transported by CME personnel from the field to CME's field office in Vavenby, BC where they were sorted and dried.

Once dried, samples were sieved by CME personnel to a -80 fraction. The -80 material was stored in a zip lock sandwich bag while the +80 material was discarded.

5.2 SAMPLE ANALYSES

Samples were analyzed by a qualified CME operator using a Delta portable XRF Premium instrument (pXRF).

XRF Methodology

Prior to analysis, each zip log sandwich bag was shaken in a manner to homogenize the sample material. Analysis was undertaken through the zip lock sandwich bag. At each startup, a calibration coin was analyzed and subsequent analysis was only performed when a pass was obtained, which was calculated internally within the pXRF instrument.

The pXRF unit was set to soil mode and used beams 1 and 2 at ten second intervals for each beam.

XRF Correction

A correction factor for copper and arsenic was applied to all pXRF raw copper and arsenic values. This correction factor had been previously determined by CME by selecting rock sample pulps that had been analyzed at a commercial laboratory that had an accompanying certificate of analysis. These rock sample pulps of varying copper and arsenic concentrations were analyzed by the pXRF using the method described above. A total of 113 samples were used for determination of the copper correction factor and 110 samples were used for the arsenic correction factor.

Results from the pXRF analysis and the analytical laboratory for each rock sample were plotted in an X-Y scatter plot and a trend line (best fit) was determined for each element. Trend lines consisted of linear and polynomial to various orders and an equation for each trend line was determined. New samples that had accompanying laboratory certificates, not used to create the trend lines, were then analyzed by pXRF. The resulting data was plugged into the various equations and the resulting value was compared to its certified value from the analytical laboratory.

Using this method, the best trend line (equation) was determined:

- polynominal to the order of 3 for copper, and
- polynominal to the order of 2 for arsenic.

5.3 QUALITY CONTROL

During analysis, non-blind control samples were analysed to monitor the pXRF instrument calibration and performance.

Two certified reference materials (standards) were used. Both samples were obtained from CDN Resource Labs of Delta, BC (CDN-CM-25 and CDN-CM-27). Recommended values for the two standards are shown in Table 3 with certificates presented in Appendix IIIa.

Table 3: Certified Reference Material Values

Standard	Recommended Values
	Copper
CDN-CM-25	0.194 ± 0.008%
CDN-CM-27	0.593 ± 0.026%

A total of 36 standards were inserted into the sample population at an average rate of one per 30 soil analysis. The maximum number of samples between controls was 52.

Of the 36 samples, 33 returned values within the two standard deviation of the recommended value. Three samples fell within three standard deviations. No samples returned values greater than three standard deviations, which would have resulted in a re-rerun of the sample batch.

Individual sample details of the control sample performance are presented in Appendix IIIb.

6.0 CONCLUSIONS

Soil sampling during 2018 successfully identified prospective areas for follow-up work.

At Area I, the first prospective area is at 1100-163 to -174. Mapping at the nearby Cathedral Area found the mineralization to be hosted in northeast tilted alkalic porphyry that has is cut by NNE trending thrust faults. Mineralization at the Cathedral Area was thought to be on the eastern side of the porphyry system. The anomalous soil samples described above may reflect the western portion of the porphyry system.

Further to the northwest, two broad prospective areas have been identified. From 1200-204 to -254 and from 1100-286 to -304. The second area contained the highest copper result of the program (1148 ppm Cu: 1100-286). No geological mapping or rock sampling has been undertaken in this area.

In the north of Area I, a prospective area is located at RD-184 to -189. These samples are located on either side of a creek that has returned a historical silt sample of 446 ppm Cu (86444).

At Area II, the lack of mineralization in the soil samples suggest no underlying mineralization in this area. RGS silt sample 94C971492 of 272 ppm Cu, which is located on a creek that passes across line C would be better tested with soil lines at least 600 metres to the west of the current line C.

At Area III, sampling confirmed the 2012 copper and arsenic results, but over a slightly narrower distance of 275 metres.

Respectfully Submitted,

Christopher O. Naas, *P.Geo.*

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8.0 CERTIFICATE

I, Christopher O. Naas, *P.Geo*., do hereby certify that:

1. I am a graduate in geology of Dalhousie University (*B.Sc*., 1984); and have practiced in my profession continuously since 1987;
2. Since 1987, I have been involved in mineral exploration for precious and/or base metals in Canada, United States of America, Chile, Venezuela, Ghana, Mali, Nigeria, and Democratic Republic of the Congo (Zaire); for diamonds in Venezuela; and for rare metals in Nigeria. I have also been involved in the determination of base metal and gold resources for properties in Canada and Ghana, respectively, and the valuation of properties in Canada and Equatorial Guinea.
3. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia (Registration Number 20082);
4. I am presently a Consulting Geologist and have been so since November 1987;

Dated at Surrey, British Columbia, this 16th day of November, 2018.

Christopher O. Naas, *P.Geo.*

9.0 STATEMENT OF COSTS

Project Preparation & Shutdown

	Unit	Rate			
Personnel					
C. Naas	7.5	1,000.00	7,500.00		
(Jun 1-Jun 10, Aug 25-27)					
S. Plugaway	2	600.00	1,200.00		
(Aug 25-27)				8,700.00	
Equipment					
Truck	7.5	150.00	1,125.00		
				1,125.00	
Room & Board					
Board	7.5	30.00	225.00		
				225.00	
Subtotal					10,050.00

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Field

	Unit	Rate			
Personnel					
C. Naas	47	1,000.00	47,000.00		
(Jun 11-26, Jul 3-6, Jul 10-14, Jul 20-27, Aug 4-17)					
P. Plugaway	34	600.00	20,400.00		
(Jul 3-Jul 14, Jul 20-27, Aug 4-17)					
S. Naas	34	400.00	13,600.00		
(Jun 11-26, Jul 3-Jul 6, Aug 4-17)					
I. Naas	8	400.00	3,200.00		
(Jul 20-27)					
				84,200.00	
Equipment					
Truck 1	47	150.00	7,050.00		
Truck 2	34	150.00	5,100.00		
Radios (per week)	8	100.00	800.00		
Satillite Communications (week)	8	40.00	320.00		
Generator	37	20.00	740.00		
Comptuer (incl software)	35	50.00	1,750.00		
Chainsaw	2	50.00	100.00		
				15,860.00	

	Room & Board	*Unit*	*Rate*		
Room & Board		123	100.00	12,300.00	
					12,300.00
	Disbursements				
Analysis	(soils - pXRF)	995	7.50	7,462.50	
Field Supplies				884.06	
Fuel (camp)				87.87	
Fuel (truck)				1,438.27	
Propane				243.84	
Printing				158.34	
Travel				1,385.78	
					11,660.66
Subtotal					124,020.66

Office *(Report Preparation and Map Drafting)*

	Personnel	*Unit*	*Rate*		
C. Naas		4	1,000.00	4,000.00	
					4,000.00
	Equipment				
Comptuer (incl software)		4	50.00	200.00	
					200.00
Subtotal					4,200.00
				Total	**$138,270.66**

10.0 LIST OF SOFTWARE USED

In the preparation of this report the following software was used:

Microsoft	Word 2010
	Excel 2010
Corel	CorelDraw x6
Adobe	Acrobat version 10
Micromine	Micromine version 13

APPENDIX I
ABBREVIATIONS AND CONVERSION FACTORS

ABBREVIATIONS

Elements		**Abbreviations**	
Ag	Silver	Az	azimuth
As	Arsenic	CDN$	Canadian dollars
Au	Gold	ppm	parts per million
Ba	Barium	ppb	parts per billion
Cd	Cadmium	g/t	grams per metric tonne
Cu	Copper	oz/T	troy ounces per ton
Mo	Molybdenum	tpd	metric tonnes per day
Pb	Lead	Eq. Au	Gold equivalent
Sb	Antimony	UTM	Universal Transverse Mercator
Ti	Titanium	NAD83	North American Datum 1983
Zn	Zinc	°/ ‘ / “	degree/minute/second of arc

CONVERSION FACTORS

Length			
1 millimetre (mm)	0.03937 inches (in)	1 inch (in)	25.40 millimetre (mm)
1 centimetre (cm)	0.394 inches(in)	1 inch (in)	2.540 centimetres (cm)
1 metre (m)	3.281 feet (ft)	1 foot (ft)	0.3048 metres (m)
1 kilometre (km)	0.6214 mile (mi)	1 mile (mi)	1.609 kilometres (km)
Area			
1 sq. centimeter (cm^2)	0.1550 sq. inches (in^2)	1 sq inch (in^2)	6.452 sq. centimetres (cm^2)
1 sq. metre (m^2)	10.76 feet (ft^2)	1 foot (ft)	0.0929 sq. metres (m^2)
1 hectare (ha) (10,000 m^2)	2.471 acres	1 acre	0.4047 hectare (ha)
1 hectare (ha)	0.003861 sq. miles (m^2)	1 sq. mile (m^2)	640 acres
1 hectare (ha)	0.01 sq. kilometre (km^2)	1 sq. mile (m^2)	259.0 hectare (ha)
1 sq. kilometre (km^2)	0.3861 sq. miles (mi^2)	1 sq. mile (m^2)	2.590 sq. kilometres (km^2)
Volume			
1 cu. centimetre (cc)	0.06102 cu. inches (in^3)	1 cu. inch (in^3)	16.39 cu. centimetres (cm^3)
1 cu. metre (m^3)	1.308 cu. yards (yd^3)	1 cu. yard (yd^3)	0.7646 cu. metres (m^3)
1 cu. metre (m^3)	35.310 cu. feet (ft^3)	1 cu. foot (ft^3)	0.02832 cu. metres (m^3)
1 litre (l)	0.2642 gallons (U.S.)	1 gallon (U.S.)	3.785 litres (l)
1 litre (l)	0.2200 gallons (U.K.)	1 gallon (U.K.)	4.546 litres (l)
Weights			
1 gram (g)	0.03215 troy ounce (20dwt)	1 troy ounce (oz)	31.1034 grams (g)
1 gram (g)	0.6430 pennyweight (dwt)	1 pennyweight (dwt)	1.555 grams (g)
1 gram (g)	0.03527 oz avoirdupois	1 oz avoirdupois	28.35 grams (g)
1 kilogram (g)	2.205 lb avoirdupois	1 lb avoirdupois	0.4535 kilograms (kg)
1 tonne (t) (metric)	1.102 tons (T) (short ton)	1 ton (T) (short ton) (2000 lb)	0.9072 tonnes (t)
1 tonne (t)	0.9842 long ton	1 long ton (2240 lb)	1.016 tonnes (t)
Miscellaneous			
1 cm/second	0.01968 ft/min	1 ft/min	50.81 cm/second
1 cu. m/second	22.82 million gal/day	1 million gal/day	0.04382 m^3/second
1 cu. m/minute	264.2 gal/min	1 gal/min	0.003785 m^3/minute
1 g/cu. m	62.43 lb/ cu. ft	1 lb/cu. ft^3	0.01602 g/m^3
1 g/cu. m	0.02458 oz/cu. yd	1 oz/cu. yd	40.6817 g/m^3
1 Pascal (Pa)	0.000145 psi	1 psi	6985 Pascal
1 gram/tonne (g/t)	0.029216 troy ounce/ short ton (oz/T)	1 troy ounce/short ton (oz/T)	34.2857 grams/tonne (g/t)
1 g/t	0.583 dwt/short ton	1 dwt/short ton	1.714 g/t
1 g/t	0.653 dwt/long ton	1 dwt/long ton	1.531 g/t
1 g/t	0.0001 %		
1 g/t	1 part per million (ppm)		
1 %	10,000 part per million (ppm)		
1 part per million (ppm)	1,000 part per billion (ppb)		
1 part per billion (ppb)	0.001 part per million (ppm)		

APPENDIX II
SAMPLE DETAIL

a. Raw pXRF Data
b. Corrected Copper and Arsenic Results with Locations

APPENDIX II
SAMPLE DETAIL

a. Raw pXRF Data

Project: Cathedral
Date: Nov 5, 2018

XRF Analysis: Raw Data

Sample Type: Soil

Sample_ID	Ti ppm	Ti +/- ppm	V ppm	V +/- ppm	Mn ppm	Mn +/- ppm	Fe ppm	Fe +/- ppm	Co ppm	Co +/- ppm	Cu ppm	Cu +/- ppm	Zn ppm	Zn +/- ppm	As ppm	As +/- ppm	Rb ppm	Rb +/- ppm	Sr ppm	Sr +/- ppm	Zr ppm	Zr +/- ppm	Mo ppm	Mo +/- ppm	Pb ppm	Pb +/- ppm	Bi ppm	Bi +/- ppm	Th ppm	Th +/- ppm
CDN-CM-27	438	23	133	17	520	22	37296	351	848	70	10814	125	457	30	133	21	379	23	17601	600	7426	362	48087	1448	209	16	<LOD	107	<LOD	326
L110N 5000E	547	22	125	16	309	16	37595	321	894	65	315	15	216	13	85	13	1260	32	20749	635	21978	690	1457	224	<LOD	30	<LOD	93	<LOD	285
L110N 5020E	572	22	108	15	274	15	31338	271	826	59	212	13	173	12	55	13	1365	33	20163	617	23952	735	<LOD	633	48	10	<LOD	92	<LOD	284
L110N 5040E	615	21	120	14	200	13	19779	174	608	45	92	9	134	10	<LOD	33	1483	33	20421	579	26137	733	<LOD	580	34	9	<LOD	86	<LOD	263
L110N 5060E	532	22	78	15	272	16	41154	341	1047	67	282	14	124	11	82	13	1079	29	16799	526	21571	667	<LOD	583	44	10	<LOD	91	<LOD	284
L110N 5080E	633	23	112	16	408	18	35237	300	896	62	178	12	223	13	108	14	1393	33	19208	595	30934	910	<LOD	655	31	10	<LOD	93	<LOD	284
L110N 5100E	681	22	100	15	599	20	27330	230	642	52	155	11	229	13	55	12	1548	33	17644	525	24564	710	<LOD	591	60	10	<LOD	88	<LOD	273
L110N 5120E	516	20	65	14	179	13	39777	319	964	63	151	11	109	10	111	13	893	26	13858	427	18790	563	<LOD	527	<LOD	28	<LOD	86	<LOD	256
L110N 5140E	542	21	53	14	172	13	34550	289	898	60	176	12	130	11	399	19	1536	34	10526	358	40559	1106	<LOD	718	55	10	<LOD	91	323	98
L110N 5160E	567	21	124	14	220	13	23238	202	624	49	179	12	100	10	40	11	1179	30	16858	501	20712	614	<LOD	556	29	9	101	29	<LOD	251
L110N 5200E	615	22	58	14	253	15	27113	235	620	54	212	13	205	13	76	12	1555	35	19377	580	22853	688	<LOD	599	<LOD	28	<LOD	92	<LOD	284
L110N 5220E	674	23	133	16	900	25	31352	270	708	58	302	15	252	14	78	14	1353	33	21889	646	21644	665	<LOD	608	55	10	<LOD	92	<LOD	294
L110N 5240E	323	18	78	14	1644	33	51335	404	1233	72	1616	32	360	17	141	15	797	27	10503	341	6138	266	1117	188	42	11	<LOD	88	<LOD	251
L110N 5260E	314	20	<LOD	42	1243	29	78410	609	1922	90	1167	27	136	12	66	15	575	23	5634	224	6119	258	2289	195	49	13	135	29	<LOD	215
L110N 5280E	325	20	<LOD	41	1293	30	78761	605	1770	89	1193	27	133	12	67	14	497	22	5698	223	4934	226	2311	187	52	13	109	28	<LOD	195
L110N 5300E	669	25	149	18	588	22	52610	452	1215	79	785	24	300	17	156	15	1573	37	20187	637	20975	683	1483	231	<LOD	33	<LOD	96	<LOD	300
L110N 5320E	697	25	116	17	365	18	41889	362	1157	71	328	16	300	16	211	16	1696	38	21967	685	21954	711	1667	235	35	11	100	31	<LOD	315
L110N 5340E	679	25	145	17	366	18	48017	411	1176	75	504	19	233	15	282	18	1354	34	19398	629	26393	837	4193	298	37	11	99	31	<LOD	315
L110N 5360E	714	25	115	16	1106	28	40715	349	913	68	422	18	200	13	106	15	1974	41	19578	610	25762	789	2533	256	70	11	<LOD	94	<LOD	289
L110N 5380E	425	23	58	16	623	24	82447	689	1983	100	1556	34	481	21	267	18	1114	32	4672	214	5790	269	2414	212	<LOD	39	109	32	387	89
L110N 5400E	383	19	<LOD	39	330	16	40013	329	1115	65	585	19	298	15	1005	27	956	31	14710	468	11616	420	736	240	<LOD	31	<LOD	92	<LOD	309
L110N 5460E	560	23	116	17	438	20	46115	400	1078	74	459	19	167	13	932	28	1627	38	21823	680	24547	775	1890	255	39	11	<LOD	98	<LOD	328
L110N 5480E	644	24	59	15	453	20	39883	349	838	68	339	16	261	15	444	20	1656	38	20191	633	26191	810	1386	238	39	11	<LOD	97	<LOD	306
L110N 5520E	625	25	94	17	1245	31	56030	477	1297	81	351	16	175	13	119	15	1233	33	15355	512	19772	650	1063	219	37	11	96	31	<LOD	298
L110N 5540E	530	20	91	14	217	13	22011	193	556	48	85	9	121	10	68	13	1535	34	20317	596	33351	929	<LOD	650	51	10	<LOD	89	<LOD	300
L110N 5560E	593	23	95	15	518	20	39333	336	894	66	344	16	239	14	292	18	1603	36	19968	609	22225	689	<LOD	620	61	11	100	31	<LOD	302
L110N 5580E	609	23	99	15	427	18	37953	323	832	64	357	16	264	15	301	17	1320	33	19544	596	25352	763	<LOD	646	38	10	102	30	<LOD	305
L110N 5600E	616	22	83	15	503	19	30151	262	659	57	218	13	228	13	199	16	1978	39	19543	589	33308	946	<LOD	681	67	11	<LOD	94	<LOD	292
L110N 5620E	583	22	101	15	798	23	35783	298	896	61	329	15	611	20	87	13	1467	33	14654	465	22008	667	708	205	45	10	98	30	<LOD	277
L110N 5640E	502	22	89	15	510	20	38819	334	964	66	369	16	248	15	381	19	1534	36	18570	575	24612	748	<LOD	662	41	11	<LOD	95	<LOD	302
L110N 5660E	379	19	74	14	2700	44	39212	326	883	64	376	16	490	18	284	18	1114	31	14835	474	17446	562	1511	225	58	11	<LOD	91	321	100
L110N 5680E	373	20	44	14	8003	89	52293	425	345	71	265	14	471	18	281	19	705	26	9063	322	10123	373	<LOD	566	93	13	104	30	375	93
L110N 5700E	596	23	84	16	902	26	45713	389	971	72	288	15	345	16	168	16	1277	33	17753	569	20829	671	1007	215	63	11	<LOD	96	<LOD	284
CDN-CM-27	472	24	121	18	582	24	37632	367	917	74	10989	131	374	30	123	21	373	23	16447	606	7606	388	47402	1525	210	16	<LOD	113	<LOD	355
CDN-CM-27	474	24	79	17	553	23	37259	360	969	73	11029	130	408	30	105	20	393	24	16768	601	7498	377	49856	1559	201	16	<LOD	112	<LOD	333
1200-1	634	24	115	16	376	18	39494	344	1117	69	177	13	145	12	<LOD	39	777	28	37773	1105	16817	603	<LOD	607	59	11	135	32	<LOD	336
1200-2	577	24	134	17	406	19	32314	298	940	64	85	11	165	13	<LOD	36	756	28	41643	1238	17452	640	<LOD	629	39	11	<LOD	100	<LOD	380
1200-3	543	23	131	16	596	22	36081	318	907	65	256	14	149	12	<LOD	34	578	25	36246	1047	12662	492	<LOD	560	<LOD	29	<LOD	96	<LOD	317
1200-4	618	23	127	16	421	18	28447	254	705	57	109	11	139	12	<LOD	33	659	26	40108	1151	13139	512	<LOD	576	<LOD	28	<LOD	94	392	121
1200-5	3487	248	694	167	1927	170	191391	5837	4511	575	1302	196	635	146	<LOD	293	3710	233	38073	1270	16699	686	<LOD	712	<LOD	243	<LOD	432	<LOD	397
1200-6	473	21	137	16	669	23	37496	325	886	65	404	17	191	13	<LOD	36	739	27	34502	996	11634	462	<LOD	563	<LOD	30	<LOD	95	<LOD	301
1200-7	753	26	186	19	566	22	45055	396	1046	74	300	16	237	15	<LOD	38	821	29	33194	990	9578	425	<LOD	550	50	11	<LOD	96	<LOD	324
1200-8	627	24	114	16	427	19	36131	319	881	65	149	12	144	12	<LOD	34	516	24	39544	1144	11199	468	<LOD	559	<LOD	29	<LOD	96	<LOD	347
1200-9	601	23	139	16	378	17	31568	276	954	60	163	12	247	14	<LOD	36	604	24	34820	1000	10529	436	<LOD	553	52	10	<LOD	91	<LOD	324
1200-10	630	24	139	17	393	19	34664	312	867	65	103	11	180	13	<LOD	36	821	28	40778	1187	26665	853	<LOD	667	45	11	<LOD	98	<LOD	343
1200-11	677	24	113	16	622	22	37997	330	954	66	265	14	156	12	<LOD	36	591	25	38088	1101	10304	443	<LOD	562	39	10	101	32	<LOD	343
1200-12	540	24	96	16	431	20	49005	430	1273	78	216	14	175	13	<LOD	36	556	25	32877	1014	16171	604	<LOD	599	<LOD	31	<LOD	98	<LOD	351
1200-13	660	25	111	17	431	20	46238	403	1168	75	228	14	270	15	44	12	688	26	33184	1000	12530	500	<LOD	579	<LOD	29	<LOD	98	<LOD	320
1200-14	546	23	127	16	308	17	22132	216	660	54	41	10	98	11	<LOD	36	589	26	47424	1379	24353	811	<LOD	674	<LOD	29	<LOD	100	<LOD	361
1200-15	1201	32	115	19	411	19	37055	333	969	68	74	10	211	14	<LOD	36	458	24	33177	980	12830	498	<LOD	545	<LOD	31	<LOD	99	<LOD	316
1200-16	714	25	124	17	290	17	30030	277	957	62	67	10	177	13	<LOD	35	885	30	40447	1210	18302	661	<LOD	629	30	10	129	33	<LOD	354
1200-17	701	26	83	16	311	18	46403	406	1191	75	92	11	337	17	<LOD	38	658	26	33199	985	11697	473	<LOD	559	56	11	100	32	<LOD	311
1200-18	626	23	138	16	302	16	23315	214	581	52	43	9	88	10	<LOD	34	601	25	45118	1269	14182	537	<LOD	581	31	9	<LOD	95	<LOD	360
1200-19	768	26	136	17	340	18	28170	263	787	60	63	10	157	13	<LOD	36	765	28	44753	1315	16316	612	<LOD	621	<LOD	30	<LOD	100	<LOD	387
1200-20	693	24	145	17	467	19	32532	286	842	61	116	11	157	12	<LOD	36	697	26	38451	1119	11309	470	<LOD	557	51	10	<LOD	96	<LOD	327
1200-21	386	19	84	14	242	15	22988	212	616	52	211	13	115	11	<LOD	33	568	24	32042	932	7870	373	<LOD	510	30	9	102	30	<LOD	312
1200-22	595	24	143	17	723	24	41759	364	868	70	415	18	237	15	47	12	759	28	34771	1017	11032	457	<LOD	566	<LOD	30	<LOD	97	<LOD	346
1200-23	537	23	130	16	397	19	35853	322	980	67	247	15	189	14	<LOD	35	694	27	30318	904	12838	494	<LOD	530	<LOD	30	137	31	<LOD	311
1200-24	636	25	126	17	400	20	41614	375	1162	73	90	11	225	14	<LOD	37	796	29	34934	1046	14167	543	<LOD	576	49	11	<LOD	100	<LOD	343
1200-25	616	24	116	16	790	25	42398	364	926	69	665	22	236	15	55	13	569	26	29340	873	8830	395	<LOD	566	<LOD	31	<LOD	97	<LOD	309
1200-26	806	27	151	18	551	22	47112	415	1016	75	275	15	251	15	<LOD	39	788	29	36846	1130	15605	598	<LOD	634	56	12	<LOD	99	<LOD	355
1200-27	648	24	125	17	442	19	39961	350	873	68	190	13	158	12	<LOD	37	545	25	37331	1080	8882	408	<LOD	542	39	11	<LOD	99	<LOD	324
1200-28	479	21	116	15	329	17	26434	241	673	56	120	11	185	13	<LOD	34	511	24	36406	1073	10553	453	<LOD	565	36	10	115	31	<LOD	345
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Sample_ID	Ti ppm	Ti +/- ppm	V ppm	V +/- ppm	Mn ppm	Mn +/- ppm	Fe ppm	Fe +/- ppm	Co ppm	Co +/- ppm	Cu ppm	Cu +/- ppm	Zn ppm	Zn +/- ppm	As ppm	As +/- ppm	Rb ppm	Rb +/- ppm	Sr ppm	Sr +/- ppm	Zr ppm	Zr +/- ppm	Mo ppm	Mo +/- ppm	Pb ppm	Pb +/- ppm	Bi ppm	Bi +/- ppm	Th ppm	Th +/- ppm
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Sample_ID	Ti ppm	Ti +/- ppm	V ppm	V +/- ppm	Mn ppm	Mn +/- ppm	Fe ppm	Fe +/- ppm	Co ppm	Co +/- ppm	Cu ppm	Cu +/- ppm	Zn ppm	Zn +/- ppm	As ppm	As +/- ppm	Rb ppm	Rb +/- ppm	Sr ppm	Sr +/- ppm	Zr ppm	Zr +/- ppm	Mo ppm	Mo +/- ppm	Pb ppm	Pb +/- ppm	Bi ppm	Bi +/- ppm	Th ppm	Th +/- ppm
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Sample_ID	Ti ppm	Ti +/- ppm	V ppm	V +/- ppm	Mn ppm	Mn +/- ppm	Fe ppm	Fe +/- ppm	Co ppm	Co +/- ppm	Cu ppm	Cu +/- ppm	Zn ppm	Zn +/- ppm	As ppm	As +/- ppm	Rb ppm	Rb +/- ppm	Sr ppm	Sr +/- ppm	Zr ppm	Zr +/- ppm	Mo ppm	Mo +/- ppm	Pb ppm	Pb +/- ppm	Bi ppm	Bi +/- ppm	Th ppm	Th +/- ppm
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Sample_ID	Ti ppm	Ti +/- ppm	V ppm	V +/- ppm	Mn ppm	Mn +/- ppm	Fe ppm	Fe +/- ppm	Co ppm	Co +/- ppm	Cu ppm	Cu +/- ppm	Zn ppm	Zn +/- ppm	As ppm	As +/- ppm	Rb ppm	Rb +/- ppm	Sr ppm	Sr +/- ppm	Zr ppm	Zr +/- ppm	Mo ppm	Mo +/- ppm	Pb ppm	Pb +/- ppm	Bi ppm	Bi +/- ppm	Th ppm	Th +/- ppm
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Sample_ID	Ti ppm	Ti +/- ppm	V ppm	V +/- ppm	Mn ppm	Mn +/- ppm	Fe ppm	Fe +/- ppm	Co ppm	Co +/- ppm	Cu ppm	Cu +/- ppm	Zn ppm	Zn +/- ppm	As ppm	As +/- ppm	Rb ppm	Rb +/- ppm	Sr ppm	Sr +/- ppm	Zr ppm	Zr +/- ppm	Mo ppm	Mo +/- ppm	Pb ppm	Pb +/- ppm	Bi ppm	Bi +/- ppm	Th ppm	Th +/- ppm
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Sample_ID	Ti ppm	Ti +/- ppm	V ppm	V +/- ppm	Mn ppm	Mn +/- ppm	Fe ppm	Fe +/- ppm	Co ppm	Co +/- ppm	Cu ppm	Cu +/- ppm	Zn ppm	Zn +/- ppm	As ppm	As +/- ppm	Rb ppm	Rb +/- ppm	Sr ppm	Sr +/- ppm	Zr ppm	Zr +/- ppm	Mo ppm	Mo +/- ppm	Pb ppm	Pb +/- ppm	Bi ppm	Bi +/- ppm	Th ppm	Th +/- ppm
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Sample_ID	Ti ppm	Ti +/- ppm	V ppm	V +/- ppm	Mn ppm	Mn +/- ppm	Fe ppm	Fe +/- ppm	Co ppm	Co +/- ppm	Cu ppm	Cu +/- ppm	Zn ppm	Zn +/- ppm	As ppm	As +/- ppm	Rb ppm	Rb +/- ppm	Sr ppm	Sr +/- ppm	Zr ppm	Zr +/- ppm	Mo ppm	Mo +/- ppm	Pb ppm	Pb +/- ppm	Bi ppm	Bi +/- ppm	Th ppm	Th +/- ppm
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Sample_ID	Ti ppm	Ti +/- ppm	V ppm	V +/- ppm	Mn ppm	Mn +/- ppm	Fe ppm	Fe +/- ppm	Co ppm	Co +/- ppm	Cu ppm	Cu +/- ppm	Zn ppm	Zn +/- ppm	As ppm	As +/- ppm	Rb ppm	Rb +/- ppm	Sr ppm	Sr +/- ppm	Zr ppm	Zr +/- ppm	Mo ppm	Mo +/- ppm	Pb ppm	Pb +/- ppm	Bi ppm	Bi +/- ppm	Th ppm	Th +/- ppm
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RD-18	582	26	104	14	595	24	49421	423	977	74	172	11	237	15	67	12	720	27	19497	625	6085	316	<LOD	489	37	11	<LOD	92	<LOD	251
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Sample_ID	Ti ppm	Ti +/- ppm	V ppm	V +/- ppm	Mn ppm	Mn +/- ppm	Fe ppm	Fe +/- ppm	Co ppm	Co +/- ppm	Cu ppm	Cu +/- ppm	Zn ppm	Zn +/- ppm	As ppm	As +/- ppm	Rb ppm	Rb +/- ppm	Sr ppm	Sr +/- ppm	Zr ppm	Zr +/- ppm	Mo ppm	Mo +/- ppm	Pb ppm	Pb +/- ppm	Bi ppm	Bi +/- ppm	Th ppm	Th +/- ppm
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RD-83	860	30	138	16	391	18	50244	445	833	77	109	10	172	13	44	13	982	32	37168	1088	6797	376	<LOD	522	<LOD	31	<LOD	99	<LOD	316
RD-84	611	26	107	19	880	27	43727	382	614	74	497	19	199	14	75	15	1089	34	33194	1019	7298	377	<LOD	542	58	11	<LOD	102	<LOD	337
RD-85	632	21	142	16	443	17	33619	306	733	60	60	10	233	14	<LOD	34	832	30	43670	1272	8504	431	<LOD	549	36	11	<LOD	94	<LOD	349
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RD-87	591	23	150	17	440	22	41059	365	725	72	141	10	109	11	<LOD	37	1031	30	46541	1372	6392	379	<LOD	521	55	11	<LOD	98	<LOD	368
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CDN-CM-27	396	22	86	16	532	22	36329	344	969	70	10901	126	428	29	89	20	358	23	16578	584	7730	376	48757	1499	205	16	<LOD	106	<LOD	333
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RD-106	659	26	68	18	479	18	60146	505	1321	82	96	9	181	12	145	14	183	15	5052	219	8186	314	<LOD	427	<LOD	32	<LOD	88	<LOD	212
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CDN-CM-27	427	22	62	16	564	23	37334	352	821	70	11059	127	363	29	141	20	358	23	16933	586	7902	375	49279	1493	179	15	<LOD	105	<LOD	319
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RD-124	549	23	74	17	665	23	54836	441	972	74	112	11	206	13	95	13	302	16	13562	441	4422	240	<LOD	431	32	11	<LOD	84	<LOD	247
RD-125	784	26	69	16	664	23	62704	535	1053	85	87	12	221	13	109	13	506	23	11907	412	4974	267	<LOD	481	<LOD	33	136	32	<LOD	254
RD-126	933	28	101	21	912	27	75675	652	1412	93	243	16	696	22	639	24	441	21	6362	276	5732	285	<LOD	478	82	12	<LOD	92	<LOD	226
RD-127	190	13	<LOD	27	527	17	22624	173	514	44	260	12	179	9	240	13	268	16	9859	295	3392	189	337	128	<LOD	23	94	23	<LOD	193
RD-128	658	28	85	19	636	23	58687	512	1131	82	203	15	199	14	193	17	357	19	13511	471	5167	286	<LOD	475	43	10	<LOD	90	<LOD	260
RD-129	569	23	97	15	621	24	49091	418	895	76	162	12	409	19	138	14	370	18	13290	445	6413	292	<LOD	435	68	11	<LOD	92	<LOD	257
RD-130	702	25	104	15	1399	33	46795	400	936	70	107	12	258	13	53	14	522	23	11817	420	7015	329	<LOD	485	39	11	<LOD	88	<LOD	263
RD-131	782	28	100	19	525	21	57041	466	1215	82	102	10	254	13	86	15	419	21	9719	347	7638	319	<LOD	463	49	10	<LOD	92	<LOD	249
RD-132	575	24	67	14	512	22	54892	438	1105	75	120	9	472	19	306	17	331	20	8753	318	5511	263	<LOD	415	78	11	103	28	<LOD	221
RD-133	593	24	78	14	602	22	49490	417	1023	71	140	11	516	19	174	15	371	18	12075	413	5350	276	<LOD	464	55	12	<LOD	89	<LOD	225
RD-134	551	25	90	18	748	27	50145	431	1139	80	188	12	425	18	109	16	396	23	14043	492	6721	314	<LOD	490	69	12	<LOD	93	<LOD	251
RD-135	805	28	97	15	945	26	60482	515	1230	84	120	10	352	17	122	15	348	21	10920	391	6137	296	<LOD	431	70	11	100	31	<LOD	244
RD-136	572	24	135	14	372	18	33509	298	694	58	260	12	139	11	<LOD	36	1136	31	46909	1314	6292	360	<LOD	508	44	9	<LOD	95	<LOD	351
RD-137	416	18	110	15	337	15	29926	270	601	61	246	14	112	10	<LOD	36	1354	34	45441	1284	5043	343	<LOD	515	32	11	<LOD	96	<LOD	352
RD-138	523	20	132	17	778	24	34271	312	702	64	371	19	167	14	<LOD	37	878	31	42836	1234	7735	401	<LOD	528	34	9	<LOD	102	<LOD	332
RD-139	604	22	136	16	285	15	35366	309	573	60	69	11	130	10	<LOD	34	1132	33	38177	1077	3991	307	<LOD	484	<LOD	29	<LOD	95	<LOD	307
RD-140	629	27	112	15	386	21	46891	411	953	76	147	12	134	13	<LOD	38	909	28	39471	1163	13473	536	<LOD	591	48	10	<LOD	102	<LOD	352
RD-141	749	24	171	21	355	21	48523	421	969	79	137	13	131	13	<LOD	38	1100	35	37753	1133	7282	380	<LOD	544	<LOD	35	<LOD	102	<LOD	363
RD-142	653	24	147	16	429	18	37375	337	995	70	108	12	139	11	<LOD	36	975	29	39916	1129	8394	412	<LOD	511	45	10	<LOD	96	<LOD	333
RD-143	737	25	155	18	438	18	50375	436	1249	78	233	14	199	14	<LOD	38	1006	33	38941	1177	13888	558	<LOD	588	44	11	<LOD	100	<LOD	361

Sample_ID	Ti ppm	Ti +/- ppm	V ppm	V +/- ppm	Mn ppm	Mn +/- ppm	Fe ppm	Fe +/- ppm	Co ppm	Co +/- ppm	Cu ppm	Cu +/- ppm	Zn ppm	Zn +/- ppm	As ppm	As +/- ppm	Rb ppm	Rb +/- ppm	Sr ppm	Sr +/- ppm	Zr ppm	Zr +/- ppm	Mo ppm	Mo +/- ppm	Pb ppm	Pb +/- ppm	Bi ppm	Bi +/- ppm	Th ppm	Th +/- ppm
RD-144	749	25	109	18	383	20	36564	324	849	66	236	15	235	15	<LOD	35	1074	29	35433	1004	8039	370	<LOD	493	36	10	<LOD	94	<LOD	300
RD-145	903	27	118	20	386	18	49709	435	1217	82	97	11	192	14	<LOD	39	1097	32	31670	937	15744	566	<LOD	593	55	12	103	31	<LOD	321
RD-146	587	21	114	15	421	20	36286	304	690	66	403	19	126	13	<LOD	37	1133	31	34417	1024	5287	344	<LOD	582	42	12	<LOD	94	<LOD	335
RD-147	563	20	118	17	365	19	38487	341	948	68	175	10	204	12	<LOD	36	1949	39	31863	944	12494	486	<LOD	552	46	11	<LOD	97	<LOD	316
RD-148	738	26	88	17	318	18	35231	303	894	61	106	12	256	13	<LOD	38	1713	37	30580	912	10843	449	<LOD	562	39	12	<LOD	100	<LOD	311
RD-150	464	23	114	14	2161	43	50235	434	848	74	516	21	465	20	131	15	1108	33	25692	790	7092	350	<LOD	568	<LOD	35	<LOD	99	<LOD	320
RD-151	600	24	80	18	410	18	38623	343	769	66	115	11	191	14	40	12	1561	39	30522	912	9939	411	<LOD	522	36	11	<LOD	97	<LOD	314
RD-152	672	26	105	17	480	19	51790	445	1132	81	194	14	294	15	<LOD	40	1756	41	23830	755	17781	611	<LOD	625	<LOD	35	<LOD	98	<LOD	297
CDN-CM-27	419	22	121	17	519	22	36809	347	910	70	11155	128	402	29	136	20	348	22	16843	599	7582	379	51540	1597	199	15	<LOD	105	403	120
RD-153	521	24	67	14	861	28	41334	357	743	66	210	16	341	17	<LOD	41	1450	34	30654	930	28973	908	<LOD	687	70	11	<LOD	101	<LOD	342
RD-154	629	25	143	16	423	20	46088	405	878	73	170	14	152	12	<LOD	37	1452	36	28402	871	5908	345	<LOD	501	38	12	<LOD	95	<LOD	306
RD-155	693	25	101	15	377	20	54537	476	1160	82	185	15	186	13	<LOD	39	1202	33	28229	876	17856	619	<LOD	612	41	11	<LOD	99	<LOD	329
RD-156	772	26	133	17	571	24	64888	563	1413	89	218	15	239	15	<LOD	41	1174	32	27435	864	11097	464	<LOD	578	<LOD	35	<LOD	100	<LOD	294
RD-158	689	24	88	18	830	26	50707	456	969	82	515	21	269	17	91	16	1399	38	29861	960	16563	621	<LOD	646	<LOD	35	<LOD	107	<LOD	370
RD-159	667	27	131	16	402	18	43968	390	977	71	120	11	163	14	44	14	1762	41	27889	862	13685	534	<LOD	593	63	11	<LOD	98	<LOD	308
RD-160	465	20	81	14	2081	41	54423	437	1172	74	817	24	228	13	75	15	850	30	15136	487	10780	406	<LOD	550	36	12	<LOD	94	552	109
RD-161	916	29	167	22	699	23	62624	559	1221	91	298	16	288	16	<LOD	43	1350	36	28879	888	6469	344	<LOD	510	49	13	<LOD	102	<LOD	326
RD-162	573	21	95	17	442	21	41006	355	728	66	113	11	224	14	<LOD	39	1896	39	27106	797	8388	375	<LOD	505	56	11	<LOD	98	<LOD	309
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RD-164	487	22	97	17	401	18	44286	390	745	71	183	11	212	15	<LOD	37	1393	34	27511	833	10996	442	<LOD	528	47	12	<LOD	98	<LOD	317
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RD-166	747	25	103	17	505	21	62291	535	1335	85	246	16	220	15	46	14	1541	35	20473	683	17466	620	<LOD	620	<LOD	37	<LOD	98	483	119
RD-167	113	7	<LOD	22	113	8	9673	89	209	25	276	10	49	7	<LOD	20	182	16	17013	426	2268	161	<LOD	308	<LOD	18	<LOD	69	<LOD	166
RD-168	564	21	130	17	390	18	39735	343	878	68	76	11	79	10	<LOD	34	603	28	44217	1255	12026	497	<LOD	557	<LOD	30	<LOD	99	<LOD	335
RD-169	90	9	<LOD	26	847	20	18347	139	349	40	189	9	67	6	<LOD	22	297	16	20710	541	2182	191	<LOD	351	<LOD	22	<LOD	74	<LOD	229
RD-170	319	20	113	15	298	18	25109	233	631	55	114	12	78	11	<LOD	34	721	26	45118	1267	8337	395	<LOD	512	<LOD	28	<LOD	99	<LOD	347
RD-171	606	23	111	17	416	20	39896	351	975	67	120	12	120	12	<LOD	36	710	29	47646	1401	9481	466	<LOD	582	32	11	<LOD	100	<LOD	373
RD-172	302	17	90	13	309	15	20934	177	466	47	113	9	63	8	<LOD	28	563	24	41974	1110	5763	313	<LOD	450	<LOD	23	<LOD	84	<LOD	295
RD-173	477	24	122	14	414	18	35254	316	821	63	106	10	82	10	<LOD	36	757	30	46107	1338	17922	650	<LOD	606	43	12	<LOD	103	<LOD	343
RD-174	483	22	104	15	229	15	22773	220	570	54	60	8	66	10	<LOD	33	746	27	47631	1306	5866	363	<LOD	501	<LOD	30	<LOD	96	<LOD	338
RD-175	<LOD	19	<LOD	18	17	7	4825	39	86	15	88	6	14	4	<LOD	20	150	10	14808	368	814	139	<LOD	295	<LOD	17	<LOD	65	<LOD	166
RD-176	253	17	44	11	282	14	31937	256	519	52	129	10	88	10	<LOD	29	358	19	31214	846	4536	278	<LOD	451	<LOD	26	84	28	<LOD	277
RD-177	387	19	88	16	280	13	27659	242	637	54	143	12	97	9	<LOD	29	475	24	36690	999	7381	362	<LOD	483	<LOD	27	<LOD	92	<LOD	296
RD-178	320	15	63	11	194	12	28006	225	708	50	445	17	73	8	<LOD	30	437	22	28400	759	4539	269	<LOD	443	38	8	<LOD	87	<LOD	263
RD-179	363	17	96	15	1075	26	28193	243	664	54	234	12	112	12	<LOD	33	514	21	39273	1122	8261	401	<LOD	497	31	11	<LOD	93	<LOD	324
RD-180	260	13	59	10	284	13	22644	187	476	44	217	14	66	9	<LOD	28	303	19	22882	601	3069	210	<LOD	419	<LOD	23	<LOD	79	<LOD	207
RD-181	535	22	147	18	592	22	35878	323	804	63	119	10	136	11	<LOD	37	717	26	45719	1269	8650	408	<LOD	520	<LOD	30	<LOD	98	<LOD	350
CDN-CM-27	419	23	106	17	531	23	36990	359	819	72	10809	129	432	30	115	20	379	23	15927	564	7386	366	47919	1471	195	16	<LOD	112	<LOD	339
RD-182	569	21	100	15	385	18	38457	345	832	63	118	9	106	12	<LOD	35	674	26	38528	1115	7970	389	<LOD	496	37	10	<LOD	97	<LOD	343
RD-183	548	20	108	17	299	16	32263	284	893	63	83	8	104	9	<LOD	33	633	27	36320	1019	9115	400	<LOD	486	38	9	<LOD	94	<LOD	284
RD-184	696	27	142	21	598	26	54844	494	1055	81	780	15	139	14	<LOD	37	613	29	47097	1396	5679	377	<LOD	555	<LOD	34	<LOD	102	<LOD	366
RD-185	359	18	77	14	419	15	24815	203	744	49	810	12	118	9	<LOD	28	558	23	30018	798	4637	285	<LOD	432	<LOD	25	89	30	<LOD	287
RD-186	610	24	141	16	522	21	41890	357	762	68	608	16	187	15	<LOD	37	749	26	38809	1123	10439	443	<LOD	548	37	12	<LOD	101	<LOD	331
RD-187	671	27	156	20	426	19	41075	364	1019	72	259	10	140	12	<LOD	36	788	28	40337	1162	8809	427	<LOD	535	<LOD	30	<LOD	98	<LOD	335
RD-188	592	24	146	18	444	20	39131	342	866	65	465	10	115	11	<LOD	35	713	27	45978	1319	8968	433	<LOD	537	37	9	<LOD	100	<LOD	351
RD-189	660	25	133	19	877	26	37503	336	824	65	788	9	150	11	<LOD	34	781	30	47443	1347	7742	393	<LOD	535	31	10	<LOD	98	<LOD	360
RD-190	659	24	127	19	539	20	37846	354	992	70	117	12	149	14	<LOD	38	777	27	48254	1417	12256	522	<LOD	590	<LOD	34	<LOD	108	<LOD	379
RD-191	587	23	133	18	387	18	37347	329	833	68	109	13	169	13	<LOD	37	838	30	47302	1398	10022	476	<LOD	576	<LOD	30	<LOD	98	<LOD	376
RD-192	585	25	159	19	443	20	38001	343	816	69	227	16	170	12	<LOD	33	674	27	42783	1227	12868	513	<LOD	564	<LOD	31	<LOD	100	<LOD	342
RD-193	522	22	113	15	278	13	26978	247	657	51	37	9	83	9	<LOD	33	1000	32	44985	1264	9921	435	<LOD	539	<LOD	29	<LOD	97	<LOD	344
RD-194	567	23	115	17	511	22	38689	335	890	68	197	15	139	11	<LOD	36	902	31	40699	1188	6589	375	<LOD	524	37	11	<LOD	95	<LOD	342
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CDN-CM-27	434	23	89	17	523	23	37111	353	834	71	10916	127	426	30	128	21	393	23	17252	610	7740	382	50929	1577	209	16	<LOD	108	<LOD	342
RD-196	528	22	121	17	530	19	35926	325	828	65	189	12	120	10	<LOD	35	953	31	42504	1248	11776	492	<LOD	558	<LOD	28	<LOD	97	<LOD	365
RD-197	533	22	108	13	412	16	33239	290	754	61	181	13	119	12	49	13	753	25	39269	1089	5824	345	<LOD	482	32	11	<LOD	97	<LOD	324
RD-198	623	24	124	19	478	21	41521	360	738	67	199	14	118	10	105	14	812	29	43389	1221	9482	437	<LOD	553	37	12	<LOD	98	<LOD	355
RD-199	366	22	96	17	566	22	28070	262	531	58	212	11	75	9	60	13	1269	35	46131	1310	14518	550	<LOD	605	46	10	<LOD	99	<LOD	361
RD-200	640	22	116	18	452	21	40139	350	798	67	304	13	115	11	172	15	519	26	39115	1142	7663	395	<LOD	608	<LOD	31	<LOD	95	<LOD	359
RD-201	603	24	152	15	510	21	41214	361	792	72	258	15	142	12	<LOD	37	931	31	40308	1176	10785	468	<LOD	563	33	10	<LOD	102	<LOD	360
RD-202	591	26	152	19	624	21	39112	353	658	68	117	13	131	13	<LOD	37	1003	33	43539	1304	5814	383	<LOD	534	<LOD	32	<LOD	97	<LOD	369
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RD-205	559	24	128	17	476	18	38639	345	582	70	374	18	144	14	<LOD	37	1276	34	37485	1121	9606	446	<LOD	548	<LOD	30	<LOD	98	<LOD	351
RD-206	421	19	96	12	347	17	27120	238	560	56	136	12	88	9	194	15	525	28	34066	962	7539	353	<LOD	645	<LOD	28	<LOD	96	<LOD	327
RD-207	515	20	138	16	500	19	33517	304	552	64	211	14	125	12	<LOD	37	866	28	44294	1309	7451	405	<LOD	594	30	9	<LOD	98	<LOD	382
RD-208	223	15	46	12	616	21	21068	190	388	50	168	12	68	8	<LOD	32	617	28	32195	901	3970	286	<LOD	543	<LOD	27	<LOD	92	<LOD	312

Sample_ID	Ti ppm	Ti +/- ppm	V ppm	V +/- ppm	Mn ppm	Mn +/- ppm	Fe ppm	Fe +/- ppm	Co ppm	Co +/- ppm	Cu ppm	Cu +/- ppm	Zn ppm	Zn +/- ppm	As ppm	As +/- ppm	Rb ppm	Rb +/- ppm	Sr ppm	Sr +/- ppm	Zr ppm	Zr +/- ppm	Mo ppm	Mo +/- ppm	Pb ppm	Pb +/- ppm	Bi ppm	Bi +/- ppm	Th ppm	Th +/- ppm
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RD-211	609	25	141	18	460	21	39802	349	720	67	197	16	139	12	<LOD	37	747	27	42984	1224	7567	398	<LOD	530	35	12	<LOD	102	<LOD	349
RD-212	841	28	119	17	335	16	30211	278	763	62	41	7	102	12	<LOD	36	877	29	40405	1185	11550	484	<LOD	561	<LOD	30	<LOD	102	<LOD	343
RD-213	533	23	99	14	231	17	27772	253	510	57	41	11	79	11	<LOD	33	855	28	40500	1129	12185	482	<LOD	516	<LOD	27	<LOD	95	<LOD	325
RD-214	660	23	113	16	355	15	28437	250	697	60	60	8	129	12	<LOD	37	889	28	42209	1184	14843	553	<LOD	546	48	11	<LOD	96	<LOD	345
RD-215	608	24	131	14	426	18	38887	342	862	65	161	13	146	13	<LOD	34	888	27	38242	1102	9894	436	<LOD	510	46	9	<LOD	94	<LOD	335
RD-216	389	20	96	12	421	17	37979	299	899	59	633	21	157	11	<LOD	33	495	24	16088	490	3785	242	<LOD	655	<LOD	28	<LOD	90	<LOD	290
RD-217	579	21	96	17	317	15	33988	299	649	63	131	13	146	10	<LOD	34	1033	30	38786	1105	7972	386	<LOD	497	33	11	<LOD	91	<LOD	335
RD-218	643	22	126	19	447	20	44811	379	988	70	176	11	205	14	<LOD	39	840	27	38873	1119	7644	374	<LOD	490	44	12	<LOD	99	<LOD	339
RD-219	526	21	92	16	292	14	32880	290	651	61	101	10	99	10	<LOD	36	869	27	42821	1241	8989	434	<LOD	531	36	10	<LOD	95	385	122
RD-220	513	22	128	15	395	19	42545	370	788	69	223	16	109	11	<LOD	36	895	30	43191	1258	8286	400	<LOD	502	<LOD	30	<LOD	100	<LOD	353
RD-221	522	23	114	17	256	15	33529	294	500	63	142	13	109	12	<LOD	35	1047	31	43104	1208	5434	333	<LOD	506	29	10	<LOD	95	<LOD	342
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RD-223	542	24	104	17	443	17	37200	311	741	61	203	12	165	12	<LOD	33	862	29	37027	1066	6585	346	<LOD	494	<LOD	28	<LOD	92	<LOD	327
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RD-269	1020	32	112	20	618	26	67989	592	1317	90	108	10	185	13	67	14	389	24	11247	434	5350	295	<LOD	494	<LOD	33	<LOD	98	<LOD	244
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RD-272	586	25	107	16	356	19	24115	213	509	51	44	10	100	10	68	14	1058	32	41346	1133	8141	369	<LOD	499	<LOD	28	<LOD	94	<LOD	314

Sample_ID	Ti ppm	Ti +/- ppm	V ppm	V +/- ppm	Mn ppm	Mn +/- ppm	Fe ppm	Fe +/- ppm	Co ppm	Co +/- ppm	Cu ppm	Cu +/- ppm	Zn ppm	Zn +/- ppm	As ppm	As +/- ppm	Rb ppm	Rb +/- ppm	Sr ppm	Sr +/- ppm	Zr ppm	Zr +/- ppm	Mo ppm	Mo +/- ppm	Pb ppm	Pb +/- ppm	Bi ppm	Bi +/- ppm	Th ppm	Th +/- ppm
RD-273	373	19	<LOD	37	2543	41	33728	282	1196	61	512	20	469	17	565	22	655	25	4114	202	2439	190	5333	286	40	10	<LOD	89	462	95
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RD-277	1106	29	118	17	518	19	37464	318	889	67	90	9	156	13	41	12	1659	39	27872	869	15089	541	<LOD	596	42	10	<LOD	97	413	109
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RD-280	642	24	98	17	439	17	35460	320	596	66	260	13	210	14	161	16	1935	43	21551	673	21675	699	<LOD	611	56	10	<LOD	98	331	112
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RD-299	279	15	114	14	256	15	20114	183	703	43	41	8	115	10	<LOD	30	260	20	10202	354	2859	208	<LOD	408	<LOD	26	<LOD	89	<LOD	213
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CDN-CM-27	446	24	121	17	572	21	36615	342	907	70	10689	125	408	30	111	19	361	23	16610	569	7592	365	49567	1507	204	15	<LOD	103	<LOD	320
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C-14	681	24	85	17	348	20	44127	372	1074	72	82	12	169	12	62	13	493	23	15159	499	9137	371	<LOD	498	<LOD	30	<LOD	89	<LOD	258
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C-19	459	21	148	16	714	24	31745	283	605	60	216	11	156	11	102	14	1038	29	37778	1109	5754	352	<LOD	529	<LOD	29	<LOD	94	<LOD	348
C-20	615	20	79	16	264	14	30426	256	616	57	89	9	127	12	91	14	1408	32	20603	629	17840	574	<LOD	565	46	10	<LOD	93	<LOD	285
C-21	207	14	<LOD	29	218	11	25011	210	762	51	75	8	91	8	<LOD	27	493	20	24112	630	4281	249	<LOD	404	<LOD	26	<LOD	87	<LOD	209
C-22	432	23	55	14	301	15	44790	373	1378	74	120	13	306	14	67	12	305	18	13980	457	4265	263	<LOD	461	<LOD	28	<LOD	93	<LOD	247
C-23	780	28	119	18	859	28	66223	578	1403	91	1486	32	673	26	336	23	1287	34	17805	575	15441	525	683	218	68	13	<LOD	98	<LOD	302
C-24	472	18	457	17	140	13	12918	128	636	41	152	11	149	11	80	12	1075	27	16301	515	6508	296	640	159	55	11	<LOD	92	<LOD	241
C-25	571	24	91	16	345	17	33201	288	586	62	134	14	137	12	85	14	1142	35	39364	1171	5072	343	<LOD	502	50	12	<LOD	100	<LOD	342
C-26	685	23	87	15	286	18	37898	315	659	63	136	12	130	11	447	19	1801	38	21002	650	19700	645	1735	242	50	10	<LOD	91	<LOD	295
C-27	349	17	<LOD	38	261	14	35111	292	1168	61	51	8	175	12	35	11	190	16	8235	316	4518	240	<LOD	448	<LOD	27	<LOD	91	<LOD	241
C-28	699	28	61	17	422	23	57167	491	1196	80	126	15	193	11	76	15	1567	39	18777	617	21098	691	<LOD	600	<LOD	32	<LOD	94	<LOD	318
C-29	469	21	75	17	570	19	39359	336	977	65	199	15	161	10	46	12	582	24	28363	811	5549	286	<LOD	492	<LOD	29	<LOD	94	<LOD	282
C-30	540	21	95	17	289	16	31286	266	600	59	94	12	178	13	77	12	1949	38	19967	608	19821	633	<LOD	597	38	9	<LOD	93	<LOD	290
C-31	339	18	<LOD	40	865	23	36495	312	1105	65	121	11	406	16	<LOD	33	310	17	9225	335	4480	244	<LOD	455	38	10	<LOD	88	<LOD	215
C-32	867	28	101	19	405	22	62792	548	1390	87	117	13	227	13	60	14	313	19	13135	447	6414	315	<LOD	487	<LOD	32	<LOD	91	<LOD	243
C-33	659	25	107	16	404	19	37818	335	854	64	109	11	123	11	<LOD	35	836	30	41247	1173	7741	398	<LOD	498	53	12	<LOD	98	<LOD	321
C-34	545	22	<LOD	39	183	11	24522	203	1127	54	81	9	132	12	68	12	278	19	10266	346	6766	291	<LOD	442	39	8	<LOD	90	<LOD	222
C-35	619	23	142	21	707	26	50117	434	1074	79	291	14	163	13	<LOD	41	975	29	32322	973	8777	405	<LOD	563	36	10	<LOD	103	<LOD	331
C-36	363	20	38	14	671	23	32429	270	803	56	173	10	274	14	166	13	433	22	13524	429	5598	277	<LOD	437	28	8	<LOD	84	<LOD	231

XRF Analysis: Raw Data

Sample_ID	Ti ppm	Ti +/- ppm	V ppm	V +/- ppm	Mn ppm	Mn +/- ppm	Fe ppm	Fe +/- ppm	Co ppm	Co +/- ppm	Cu ppm	Cu +/- ppm	Zn ppm	Zn +/- ppm	As ppm	As +/- ppm	Rb ppm	Rb +/- ppm	Sr ppm	Sr +/- ppm	Zr ppm	Zr +/- ppm	Mo ppm	Mo +/- ppm	Pb ppm	Pb +/- ppm	Bi ppm	Bi +/- ppm	Th ppm	Th +/- ppm
C-37	775	25	171	21	366	18	49955	443	919	78	74	8	80	10	<LOD	37	646	24	43195	1255	12565	509	<LOD	552	46	13	<LOD	102	<LOD	354
C-38	744	26	58	15	341	20	52784	431	1244	75	120	9	195	12	90	15	356	22	13308	441	7083	307	<LOD	452	47	10	<LOD	88	<LOD	235
C-39	56	13	<LOD	27	592	17	18042	143	704	45	142	8	221	11	108	13	305	18	8888	294	4089	200	<LOD	366	42	8	<LOD	81	<LOD	188
C-40	684	25	90	14	525	18	47294	395	1162	75	100	10	264	13	66	13	509	24	17265	527	5941	283	<LOD	433	<LOD	30	<LOD	87	<LOD	240
C-41	857	29	92	18	539	25	60276	542	1242	89	127	13	320	18	51	14	409	21	10779	401	6784	308	<LOD	494	<LOD	33	<LOD	101	<LOD	255

APPENDIX II
SAMPLE DETAIL

b. Corrected Copper and Arsenic Results with Locations

Project: Cathedral
Date: Nov 5, 2018

Sample Results
(Corrected XRF Data)

Sample Type: Soil

SAMPLE_ID	UTM (NAD83)		Cu_XRF_cor (ppm)	As_XRF_cor (ppm)
	Easting	Northing		
L110N 5000E	347849	6218971	171	19
L110N 5020E	347869	6218977	115	13
L110N 5040E	347886	6218984	50	<7
L110N 5060E	347906	6218990	153	19
L110N 5080E	347924	6218997	97	25
L110N 5100E	347942	6219004	84	13
L110N 5120E	347963	6219011	82	25
L110N 5140E	347981	6219018	96	91
L110N 5160E	348000	6219024	97	9
L110N 5180E	348019	6219030	NS	
L110N 5200E	348037	6219037	115	17
L110N 5220E	348057	6219044	164	18
L110N 5240E	348075	6219051	876	32
L110N 5260E	348094	6219058	633	15
L110N 5280E	348113	6219065	647	15
L110N 5300E	348132	6219072	426	36
L110N 5320E	348151	6219076	178	48
L110N 5340E	348170	6219082	274	64
L110N 5360E	348190	6219088	229	24
L110N 5380E	348206	6219093	844	61
L110N 5400E	348224	6219101	318	229
L110N 5420E	348242	6219107	NS	
L110N 5440E	348261	6219114	NS	
L110N 5460E	348280	6219120	249	212
L110N 5480E	348297	6219125	184	101
L110N 5500E	348315	6219131	NS	
L110N 5520E	348335	6219137	191	27
L110N 5540E	348351	6219144	46	16
L110N 5560E	348368	6219153	187	67
L110N 5580E	348388	6219159	194	69
L110N 5600E	348406	6219166	119	45
L110N 5620E	348425	6219173	179	20
L110N 5640E	348444	6219181	201	87
L110N 5660E	348461	6219186	204	65
L110N 5680E	348478	6219193	144	64
L110N 5700E	348497	6219199	157	38
1100-1	346818	6215346	161	<7
1100-2	346797	6215358	126	12
1100-3	346777	6215368	108	10
1100-4	346755	6215376	116	<7
1100-5	346732	6215389	139	<7
1100-6	346713	6215398	158	<7
1100-7	346693	6215410	73	8
1100-8	346672	6215421	93	7
1100-9	346655	6215432	107	<7
1100-10	346631	6215444	236	<7
1100-11	346613	6215458	146	<7
1100-12	346591	6215466	98	<7
1100-13	346573	6215480	90	<7
1100-14	346551	6215490	41	<7
1100-15	346532	6215503	91	<7
1100-16	346510	6215512	138	<7
1100-17	346489	6215523	90	<7
1100-18	346470	6215537	95	9
1100-19	346451	6215550	51	<7
1100-20	346430	6215561	100	12
1100-21	346410	6215572	270	9

Project: Cathedral
Date: Nov 5, 2018

Sample Results
(Corrected XRF Data)

Sample Type: Soil

SAMPLE_ID	UTM (NAD83)		Cu_XRF_cor (ppm)	As_XRF_cor (ppm)
	Easting	Northing		
1100-22	346390	6215583	54	<7
1100-23	346363	6215591	89	<7
1100-24	346337	6215601	66	<7
1100-25	346314	6215612	128	19
1100-26	346290	6215622	63	<7
1100-27	346269	6215635	49	<7
1100-28	346248	6215648	191	8
1100-29	346230	6215663	348	8
1100-30	346204	6215670	72	<7
1100-31	346183	6215682	51	<7
1100-32	346156	6215693	46	<7
1100-33	346135	6215703	36	<7
1100-34	346116	6215715	110	9
1100-35	346094	6215729	73	<7
1100-36	346072	6215742	43	<7
1100-37	346054	6215760	46	<7
1100-38	346029	6215776	57	<7
1100-39	346006	6215785	85	<7
1100-40	345986	6215793	51	<7
1100-41	345965	6215806	176	<7
1100-42	345950	6215820	132	<7
1100-43	345929	6215834	52	<7
1100-44	345911	6215850	87	<7
1100-45	345896	6215867	52	<7
1100-46	345881	6215884	18	<7
1100-47	345868	6215902	36	<7
1100-48	345850	6215921	76	<7
1100-49	345841	6215940	55	16
1100-50	345829	6215959	55	<7
1100-51	345811	6215974	73	<7
1100-52	345790	6215988	73	19
1100-53	345777	6216004	120	<7
1100-54	345763	6216023	128	<7
1100-55	345747	6216039	145	<7
1100-56	345734	6216056	108	<7
1100-57	345720	6216074	70	<7
1100-58	345704	6216090	59	<7
1100-59	345689	6216107	104	<7
1100-60	345675	6216128	73	<7
1100-61	345661	6216146	41	<7
1100-62	345642	6216158	30	<7
1100-63	345623	6216166	34	<7
1100-64	345602	6216180	39	<7
1100-65	345586	6216192	76	<7
1100-66	345572	6216209	35	<7
1100-67	345551	6216219	97	<7
1100-68	345533	6216233	43	<7
1100-69	345515	6216243	65	<7
1100-70	345494	6216257	63	<7
1100-71	345478	6216271	54	<7
1100-72	345464	6216284	83	<7
1100-73	345448	6216297	67	<7
1100-74	345433	6216312	47	<7
1100-75	345414	6216322	60	<7
1100-76	345395	6216336	94	<7
1100-77	345377	6216348	162	14
1100-78	345359	6216360	152	14

Project: Cathedral
Date: Nov 5, 2018

Sample Results
(Corrected XRF Data)

Sample Type: Soil

SAMPLE_ID	UTM (NAD83)		Cu_XRF_cor (ppm)	As_XRF_cor (ppm)
	Easting	Northing		
1100-79	345342	6216371	163	18
1100-80	345324	6216384	167	11
1100-81	345308	6216398	120	20
1100-82	345291	6216412	97	<7
1100-83	345274	6216428	96	<7
1100-84	345258	6216447	NS	
1100-85	345236	6216460	169	9
1100-86	345215	6216473	110	17
1100-87	345194	6216490	174	<7
1100-88	345174	6216505	102	11
1100-89	345158	6216522	135	15
1100-90	345136	6216534	105	31
1100-91	345117	6216551	101	43
1100-92	345096	6216565	183	<7
1100-93	345075	6216583	109	<7
1100-94	345057	6216598	206	<7
1100-95	345039	6216614	117	<7
1100-96	345020	6216629	69	<7
1100-97	344999	6216643	109	<7
1100-98	344983	6216662	64	<7
1100-99	344967	6216681	31	<7
1100-100	344939	6216690	83	<7
1100-101	344922	6216704	63	<7
1100-102	344904	6216716	27	<7
1100-103	344891	6216735	155	75
1100-104	344867	6216748	89	37
1100-105	344852	6216765	71	<7
1100-106	344826	6216778	69	<7
1100-107	344808	6216791	139	<7
1100-108	344789	6216806	49	<7
1100-109	344770	6216822	27	15
1100-110	344752	6216834	55	<7
1100-111	344728	6216849	42	<7
1100-112	344707	6216864	561	27
1100-113	344687	6216878	85	<7
1100-114	344664	6216891	31	<7
1100-115	344645	6216906	115	8
1100-116	344632	6216921	117	23
1100-117	344613	6216936	179	11
1100-118	344594	6216949	157	13
1100-119	344576	6216966	149	10
1100-120	344558	6216981	174	11
1100-121	344538	6216996	144	51
1100-122	344521	6217007	187	31
1100-123	344506	6217027	241	18
1100-124	344483	6217041	187	13
1100-125	344459	6217046	125	20
1100-126	344434	6217054	102	10
1100-127	344411	6217062	69	<7
1100-128	344390	6217078	119	10
1100-129	344372	6217090	123	10
1100-130	344349	6217101	227	15
1100-131	344328	6217111	190	17
1100-132	344311	6217128	186	13
1100-133	344290	6217140	281	<7
1100-134	344270	6217155	195	12
1100-135	344252	6217169	311	17

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Sample Results
(Corrected XRF Data)

Sample Type: Soil

SAMPLE_ID	UTM (NAD83)		Cu_XRF_cor (ppm)	As_XRF_cor (ppm)
	Easting	Northing		
1100-136	344230	6217179	164	13
1100-137	344206	6217192	162	<7
1100-138	344185	6217198	173	10
1100-139	344163	6217210	64	<7
1100-140	344136	6217218	86	<7
1100-141	344112	6217228	82	<7
1100-142	344090	6217239	113	<7
1100-143	344070	6217254	165	10
1100-144	344048	6217268	442	19
1100-145	344035	6217286	28	<7
1100-146	344014	6217299	NS	
1100-147	343992	6217312	226	17
1100-148	343968	6217323	165	16
1100-149	343946	6217335	115	<7
1100-150	343926	6217349	224	<7
1100-151	343906	6217364	465	11
1100-152	343885	6217375	245	10
1100-153	343861	6217385	83	11
1100-154	343843	6217401	189	<7
1100-155	343814	6217410	139	<7
1100-156	343799	6217426	60	<7
1100-157	343775	6217437	113	<7
1100-158	343754	6217450	137	<7
1100-159	343728	6217463	126	<7
1100-160	343711	6217473	97	<7
1100-161	343689	6217487	57	<7
1100-162	343669	6217506	54	<7
1100-163	343646	6217514	801	77
1100-164	343624	6217529	411	65
1100-165	343600	6217538	467	44
1100-166	343581	6217551	163	37
1100-167	343560	6217564	192	88
1100-168	343537	6217576	246	72
1100-169	343516	6217589	310	68
1100-170	343495	6217600	72	97
1100-171	343472	6217612	399	90
1100-172	343451	6217626	61	15
1100-173	343431	6217643	245	78
1100-174	343410	6217655	689	187
1100-175	343389	6217668	136	43
1100-176	343369	6217680	57	21
1100-177	343349	6217694	NS	
1100-178	343322	6217701	119	48
1100-179	343297	6217710	79	23
1100-180	343276	6217723	188	52
1100-181	343257	6217741	156	46
1100-182	343236	6217752	106	23
1100-183	343218	6217763	101	17
1100-184	343195	6217775	227	99
1100-185	343174	6217788	203	93
1100-186	343154	6217800	345	147
1100-187	343136	6217811	87	33
1100-188	343112	6217824	188	23
1100-189	343095	6217835	272	21
1100-190	343074	6217846	126	10
1100-191	343051	6217854	186	36
1100-192	343028	6217865	84	21

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Sample Results
(Corrected XRF Data)

Sample Type: Soil

SAMPLE_ID	UTM (NAD83)		Cu_XRF_cor (ppm)	As_XRF_cor (ppm)
	Easting	Northing		
1100-193	343006	6217877	179	<7
1100-194	342988	6217889	91	12
1100-195	342967	6217901	156	18
1100-196	342950	6217919	153	16
1100-197	342927	6217928	124	12
1100-198	342905	6217939	187	24
1100-199	342883	6217949	90	11
1100-200	342864	6217962	57	11
1100-201	342843	6217973	49	<7
1100-202	342820	6217986	42	<7
1100-203	342801	6217998	45	<7
1100-204	342782	6218014	42	9
1100-205	342762	6218027	50	14
1100-206	342740	6218038	66	11
1100-207	342720	6218051	80	<7
1100-208	342699	6218064	118	<7
1100-209	342677	6218076	112	13
1100-210	342657	6218087	66	18
1100-211	342637	6218102	48	13
1100-212	342616	6218114	NS	
1100-213	342595	6218125	39	<7
1100-214	342573	6218138	63	12
1100-215	342550	6218149	53	9
1100-216	342529	6218161	38	<7
1100-217	342511	6218176	93	9
1100-218	342491	6218188	45	8
1100-219	342469	6218201	83	13
1100-220	342446	6218212	48	<7
1100-221	342423	6218223	120	13
1100-222	342403	6218236	107	45
1100-223	342383	6218250	NS	
1100-224	342358	6218257	36	<7
1100-225	342334	6218269	52	<7
1100-226	342316	6218283	31	11
1100-227	342295	6218298	48	11
1100-228	342274	6218310	85	15
1100-229	342249	6218319	58	11
1100-230	342225	6218327	48	11
1100-231	342194	6218334	35	<7
1100-232	342169	6218346	52	14
1100-233	342148	6218354	85	<7
1100-234	342127	6218368	54	13
1100-235	342116	6218383	134	15
1100-236	342096	6218399	77	11
1100-237	342072	6218409	115	<7
1100-238	342050	6218421	65	<7
1100-239	342030	6218432	50	13
1100-240	341998	6218438	48	9
1100-241	341978	6218450	42	12
1100-242	341954	6218462	50	13
1100-243	341936	6218475	85	15
1100-244	341918	6218492	43	13
1100-245	341906	6218508	69	16
1100-246	341877	6218519	71	<7
1100-247	341858	6218532	100	<7
1100-248	341834	6218541	71	<7
1100-249	341813	6218552	158	11

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Sample Results
(Corrected XRF Data)

Sample Type: Soil

SAMPLE_ID	UTM (NAD83)		Cu_XRF_cor (ppm)	As_XRF_cor (ppm)
	Easting	Northing		
1100-250	341792	6218566	104	19
1100-251	341771	6218579	275	15
1100-252	341749	6218592	171	9
1100-253	341729	6218603	123	22
1100-254	341712	6218618	80	12
1100-255	341689	6218635	64	10
1100-256	341669	6218647	124	13
1100-257	341651	6218661	123	<7
1100-258	341629	6218672	103	19
1100-259	341608	6218684	399	21
1100-260	341587	6218697	89	<7
1100-261	341562	6218714	117	13
1100-262	341537	6218725	141	<7
1100-263	341518	6218737	NS	
1100-264	341493	6218742	129	<7
1100-265	341470	6218751	94	11
1100-266	341447	6218762	355	89
1100-267	341424	6218771	282	22
1100-268	341404	6218785	315	41
1100-269	341381	6218799	376	12
1100-270	341358	6218809	124	14
1100-271	341337	6218820	74	16
1100-272	341312	6218829	57	10
1100-273	341286	6218838	153	53
1100-274	341263	6218850	NS	
1100-275	341239	6218863	70	<7
1100-276	341215	6218873	89	15
1100-277	341191	6218885	106	13
1100-278	341170	6218893	90	12
1100-279	341145	6218906	135	17
1100-280	341124	6218917	105	11
1100-281	341102	6218928	130	14
1100-282	341081	6218941	69	12
1100-283	341058	6218953	167	13
1100-284	341038	6218968	154	21
1100-285	341017	6218981	117	<7
1100-286	340997	6218996	416	29
1100-287	340977	6219010	274	12
1100-288	340956	6219023	69	13
1100-289	340935	6219035	243	20
1100-290	340915	6219048	260	25
1100-291	340894	6219060	324	28
1100-292	340872	6219075	390	21
1100-293	340853	6219087	433	68
1100-294	340835	6219105	351	54
1100-295	340817	6219121	140	20
1100-296	340794	6219131	161	15
1100-297	340772	6219141	381	38
1100-298	340750	6219156	123	<7
1100-299	340736	6219175	332	33
1100-300	340715	6219192	311	21
1100-301	340695	6219204	250	22
1100-302	340670	6219218	NS	
1100-303	340646	6219229	332	18
1100-304	340621	6219235	217	27
1100-305	340595	6219232	81	14
1100-306	340572	6219241	69	13

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Sample Results
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Sample Type: Soil

SAMPLE_ID	UTM (NAD83)		Cu_XRF_cor (ppm)	As_XRF_cor (ppm)
	Easting	Northing		
1100-307	340550	6219253	322	<7
1100-308	340527	6219265	45	11
1100-309	340509	6219277	110	10
1100-310	340493	6219291	72	<7
1100-311	340471	6219302	97	<7
1100-312	340446	6219310	275	23
1100-313	340421	6219320	214	25
1100-314	340397	6219331	514	32
1100-315	340372	6219342	110	13
1100-316	340352	6219351	67	8
1100-317	340334	6219366	97	<7
1100-318	340312	6219380	93	10
1100-319	340290	6219390	108	13
1100-320	340269	6219402	82	<7
1100-321	340248	6219412	231	10
1100-322	340223	6219420	87	16
1100-323	340196	6219428	100	12
1100-324	340176	6219441	347	13
1100-325	340151	6219452	246	13
1100-326	340127	6219465	86	10
1100-327	340114	6219482	46	<7
1100-328	340090	6219488	290	12
1100-329	340067	6219501	114	23
1100-330	340047	6219513	79	11
1100-331	340028	6219531	108	15
1100-332	339999	6219542	102	17
1100-333	339979	6219554	145	10
1100-334	339952	6219566	67	<7
1100-335	339927	6219575	26	11
1100-336	339920	6219593	88	<7
1100-337	339890	6219603	180	12
1100-338	339867	6219615	78	13
1100-339	339850	6219630	115	13
1100-340	339827	6219639	610	25
1200-1	347083	6215937	96	<7
1200-2	347053	6215950	46	<7
1200-3	347021	6215960	139	<7
1200-4	346993	6215971	59	<7
1200-5	346963	6215985	706	<7
1200-6	346933	6215994	220	<7
1200-7	346901	6216005	163	<7
1200-8	346879	6216016	81	<7
1200-9	346851	6216022	89	<7
1200-10	346829	6216037	56	<7
1200-11	346804	6216042	144	<7
1200-12	346781	6216052	117	<7
1200-13	346758	6216062	124	10
1200-14	346734	6216075	22	<7
1200-15	346710	6216081	40	<7
1200-16	346688	6216091	36	<7
1200-17	346665	6216099	50	<7
1200-18	346641	6216103	23	<7
1200-19	346620	6216113	34	<7
1200-20	346597	6216118	63	<7
1200-21	346574	6216126	115	<7
1200-22	346547	6216136	226	11
1200-23	346522	6216149	134	<7

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Sample Type: Soil

SAMPLE_ID	UTM (NAD83)		Cu_XRF_cor (ppm)	As_XRF_cor (ppm)
	Easting	Northing		
1200-24	346492	6216156	49	<7
1200-25	346466	6216162	361	13
1200-26	346442	6216179	149	<7
1200-27	346411	6216191	103	<7
1200-28	346386	6216207	65	<7
1200-29	346365	6216224	810	<7
1200-30	346336	6216240	679	<7
1200-31	346310	6216255	64	55
1200-32	346283	6216268	76	49
1200-33	346256	6216283	83	56
1200-34	346235	6216303	80	49
1200-35	346213	6216324	63	21
1200-36	346189	6216340	69	23
1200-37	346169	6216356	68	26
1200-38	346140	6216378	70	25
1200-39	346118	6216389	52	15
1200-40	346094	6216413	47	20
1200-41	346070	6216425	55	18
1200-42	346051	6216438	51	18
1200-43	346029	6216448	62	27
1200-44	346006	6216462	70	21
1200-45	345986	6216478	65	27
1200-46	345964	6216485	71	27
1200-47	345943	6216503	138	24
1200-48	345920	6216515	110	19
1200-49	345896	6216523	80	13
1200-50	345871	6216536	71	13
1200-51	345854	6216550	80	11
1200-52	345833	6216566	226	<7
1200-53	345807	6216575	132	<7
1200-54	345794	6216592	89	<7
1200-55	345770	6216599	63	12
1200-56	345746	6216616	35	12
1200-57	345719	6216630	53	22
1200-58	345700	6216639	69	14
1200-59	345676	6216650	98	19
1200-60	345659	6216666	73	22
1200-61	345639	6216680	50	23
1200-62	345621	6216695	69	16
1200-63	345596	6216706	57	14
1200-64	345579	6216720	46	13
1200-65	345562	6216735	46	10
1200-66	345539	6216744	85	16
1200-67	345518	6216758	63	<7
1200-68	345494	6216769	38	14
1200-69	345480	6216788	69	11
1200-70	345460	6216802	98	13
1200-71	345442	6216820	306	13
1200-72	345418	6216828	174	<7
1200-73	345402	6216845	86	11
1200-74	345385	6216858	85	20
1200-75	345360	6216867	53	16
1200-76	345344	6216883	56	15
1200-77	345321	6216897	74	15
1200-78	345302	6216910	102	18
1200-79	345280	6216920	78	26
1200-80	345262	6216937	70	36

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Sample Type: Soil

SAMPLE_ID	UTM (NAD83)		Cu_XRF_cor (ppm)	As_XRF_cor (ppm)
	Easting	Northing		
1200-81	345248	6216954	92	19
1200-82	345225	6216968	44	18
1200-83	345209	6216986	174	21
1200-84	345199	6217004	373	16
1200-85	345178	6217019	328	28
1200-86	345161	6217035	413	18
1200-87	345138	6217049	370	14
1200-88	345132	6217071	139	22
1200-89	345116	6217091	46	15
1200-90	345099	6217104	NS	
1200-91	345082	6217119	57	20
1200-92	345067	6217139	73	25
1200-93	345052	6217155	41	13
1200-94	345034	6217171	96	57
1200-95	345018	6217187	76	<7
1200-96	345003	6217205	66	8
1200-97	344986	6217221	51	11
1200-98	344966	6217234	38	8
1200-99	344948	6217248	47	9
1200-100	344929	6217265	45	16
1200-101	344912	6217286	49	11
1200-102	344899	6217307	43	8
1200-103	344884	6217326	27	13
1200-104	344865	6217341	29	8
1200-105	344842	6217356	42	<7
1200-106	344818	6217375	49	12
1200-107	344807	6217395	40	<7
1200-108	344781	6217414	59	<7
1200-109	344768	6217429	107	34
1200-110	344755	6217450	60	21
1200-111	344728	6217464	69	20
1200-112	344708	6217483	97	38
1200-113	344694	6217498	51	17
1200-114	344679	6217516	136	91
1200-115	344661	6217537	89	11
1200-116	344636	6217549	57	9
1200-117	344616	6217568	63	10
1200-118	344602	6217585	71	22
1200-119	344586	6217607	49	14
1200-120	344566	6217625	63	26
1200-121	344539	6217631	64	15
1200-122	344520	6217644	62	23
1200-123	344497	6217654	NS	
1200-124	344474	6217664	34	<7
1200-125	344448	6217670	47	<7
1200-126	344428	6217683	34	<7
1200-127	344405	6217693	63	17
1200-128	344385	6217705	49	<7
1200-129	344357	6217710	61	<7
1200-130	344337	6217722	42	8
1200-131	344314	6217732	44	8
1200-132	344288	6217739	39	<7
1200-133	344267	6217749	51	<7
1200-134	344245	6217759	48	7
1200-135	344225	6217771	25	9
1200-136	344199	6217780	64	35
1200-137	344178	6217792	38	15

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Sample Type: Soil

SAMPLE_ID	UTM (NAD83)		Cu_XRF_cor (ppm)	As_XRF_cor (ppm)
	Easting	Northing		
1200-138	344153	6217799	60	17
1200-139	344128	6217806	43	14
1200-140	344105	6217816	61	9
1200-141	344086	6217827	44	16
1200-142	344065	6217835	58	20
1200-143	344041	6217838	73	18
1200-144	344017	6217845	73	9
1200-145	343999	6217853	82	24
1200-146	343982	6217864	60	18
1200-147	343957	6217873	55	15
1200-148	343937	6217885	46	19
1200-149	343916	6217893	36	<7
1200-150	343892	6217898	63	13
1200-151	343872	6217907	60	<7
1200-152	343851	6217916	64	10
1200-153	343834	6217926	59	10
1200-154	343809	6217935	40	<7
1200-155	343788	6217943	141	43
1200-156	343769	6217955	198	19
1200-157	343747	6217964	46	13
1200-158	343724	6217968	218	16
1200-159	343702	6217974	167	16
1200-160	343678	6217980	241	17
1200-161	343661	6217991	64	19
1200-162	343638	6218004	431	26
1200-163	343617	6218014	322	14
1200-164	343597	6218025	240	38
1200-165	343573	6218034	65	24
1200-166	343551	6218041	473	21
1200-167	343528	6218052	68	19
1200-168	343511	6218065	32	10
1200-169	343489	6218074	65	<7
1200-170	343465	6218081	45	11
1200-171	343446	6218096	75	<7
1200-172	343420	6218101	300	10
1200-173	343399	6218110	59	10
1200-174	343377	6218120	48	9
1200-175	343356	6218131	27	<7
1200-176	343334	6218144	110	15
1200-177	343312	6218154	165	13
1200-178	343292	6218166	340	8
1200-179	343271	6218176	45	9
1200-180	343247	6218183	105	<7
1200-181	343228	6218198	163	<7
1200-182	343211	6218213	151	9
1200-183	343185	6218227	174	9
1200-184	343171	6218244	71	14
1200-185	343150	6218254	66	21
1200-186	343127	6218267	65	26
1200-187	343113	6218281	69	8
1200-188	343095	6218296	50	13
1200-189	343068	6218314	84	14
1200-190	343050	6218326	89	11
1200-191	343033	6218344	95	13
1200-192	343020	6218364	80	11
1200-193	343001	6218379	49	14
1200-194	342975	6218393	41	12

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SAMPLE_ID	UTM (NAD83)		Cu_XRF_cor (ppm)	As_XRF_cor (ppm)
	Easting	Northing		
1200-195	342959	6218406	59	11
1200-196	342939	6218420	58	16
1200-197	342919	6218435	52	<7
1200-198	342906	6218450	66	12
1200-199	342880	6218463	113	8
1200-200	342865	6218477	94	13
1200-201	342847	6218488	83	24
1200-202	342829	6218496	74	14
1200-203	342811	6218508	83	25
1200-204	342791	6218514	439	73
1200-205	342773	6218524	284	102
1200-206	342753	6218527	336	30
1200-207	342734	6218535	77	17
1200-208	342716	6218544	158	59
1200-209	342697	6218553	210	267
1200-210	342678	6218562	222	252
1200-211	342657	6218570	55	75
1200-212	342640	6218578	276	129
1200-213	342622	6218585	41	12
1200-214	342602	6218594	172	58
1200-215	342583	6218602	594	166
1200-216	342564	6218609	88	27
1200-217	342544	6218617	48	18
1200-218	342526	6218626	61	34
1200-219	342507	6218633	63	18
1200-220	342487	6218641	88	24
1200-221	342468	6218651	110	24
1200-222	342449	6218662	65	12
1200-223	342430	6218672	97	15
1200-224	342412	6218685	197	99
1200-225	342393	6218697	174	102
1200-226	342373	6218707	306	131
1200-227	342354	6218717	105	35
1200-228	342335	6218728	157	19
1200-229	342315	6218737	201	22
1200-230	342296	6218747	91	13
1200-231	342278	6218758	151	24
1200-232	342260	6218772	759	91
1200-233	342241	6218781	331	61
1200-234	342222	6218794	447	36
1200-235	342202	6218802	179	28
1200-236	342184	6218815	207	77
1200-237	342163	6218823	276	85
1200-238	342145	6218834	292	76
1200-239	342126	6218848	70	101
1200-240	342107	6218857	519	185
1200-241	342082	6218871	53	21
1200-242	342060	6218882	239	73
1200-243	342038	6218893	703	185
1200-244	342014	6218903	146	37
1200-245	341991	6218912	56	17
1200-246	341969	6218922	111	49
1200-247	341945	6218931	73	23
1200-248	341920	6218936	142	45
1200-249	341900	6218948	161	41
1200-250	341873	6218955	115	18
1200-251	341843	6218960	85	11

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SAMPLE_ID	UTM (NAD83)		Cu_XRF_cor (ppm)	As_XRF_cor (ppm)
	Easting	Northing		
1200-252	341827	6218975	228	123
1200-253	341802	6218981	214	90
1200-254	341779	6218990	349	144
1200-255	341751	6218998	111	31
1200-256	341732	6219011	161	19
1200-257	341710	6219024	272	21
1200-258	341687	6219034	132	14
1200-259	341664	6219046	172	28
1200-260	341640	6219053	NS	
RD-1	339084	6220238	89	26
RD-2	339056	6220255	56	9
RD-3	339033	6220268	57	15
RD-4	339017	6220282	69	<7
RD-5	338997	6220297	87	9
RD-6	338978	6220314	74	<7
RD-7	338959	6220324	65	<7
RD-8	338939	6220342	64	<7
RD-9	338918	6220356	102	16
RD-10	338894	6220369	74	14
RD-11	338870	6220383	67	<7
RD-12	338849	6220399	64	<7
RD-13	338828	6220411	86	17
RD-14	338806	6220423	75	16
RD-15	338786	6220435	108	19
RD-16	338762	6220448	95	14
RD-17	338745	6220462	86	25
RD-18	338722	6220477	94	15
RD-19	338697	6220486	114	9
RD-20	338679	6220498	66	17
RD-21	338659	6220511	57	13
RD-22	338638	6220522	82	13
RD-23	338618	6220538	23	<7
RD-24	338605	6220559	111	<7
RD-25	338587	6220576	28	<7
RD-26	338570	6220594	23	<7
RD-27	338552	6220609	57	10
RD-28	338534	6220627	52	14
RD-29	338519	6220645	107	21
RD-30	338496	6220659	19	9
RD-31	338478	6220678	122	14
RD-32	338458	6220692	152	21
RD-33	338438	6220712	87	<7
RD-34	338418	6220725	81	<7
RD-35	338403	6220741	41	<7
RD-36	338388	6220759	60	<7
RD-37	338374	6220778	53	<7
RD-38	338357	6220795	45	<7
RD-39	338339	6220812	55	<7
RD-40	338325	6220829	53	<7
RD-41	338306	6220846	33	<7
RD-42	338289	6220863	60	<7
RD-43	338271	6220886	105	<7
RD-44	338255	6220896	329	<7
RD-45	338237	6220910	48	<7
RD-46	338224	6220928	113	<7
RD-47	338212	6220945	91	<7
RD-48	338199	6220969	83	<7

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SAMPLE_ID	UTM (NAD83)		Cu_XRF_cor (ppm)	As_XRF_cor (ppm)
	Easting	Northing		
RD-49	338193	6220995	82	<7
RD-50	338179	6221018	90	<7
RD-51	338163	6221036	107	<7
RD-52	338146	6221054	91	<7
RD-53	338129	6221071	69	<7
RD-54	338115	6221089	62	<7
RD-55	338098	6221105	51	<7
RD-56	338084	6221127	54	<7
RD-57	338065	6221144	19	9
RD-58	338051	6221164	72	<7
RD-59	338034	6221181	32	<7
RD-60	338012	6221197	55	<7
RD-61	337992	6221216	34	<7
RD-62	337985	6221238	56	<7
RD-63	337984	6221261	18	<7
RD-64	337973	6221281	142	<7
RD-65	337956	6221299	58	<7
RD-66	337938	6221318	90	<7
RD-67	337918	6221330	117	<7
RD-68	337908	6221353	107	<7
RD-69	337888	6221369	171	<7
RD-70	337873	6221389	123	<7
RD-71	337857	6221406	172	<7
RD-72	337836	6221421	126	10
RD-73	337816	6221437	84	<7
RD-74	337800	6221455	63	<7
RD-75	337788	6221475	69	<7
RD-76	337769	6221491	116	<7
RD-77	337748	6221507	60	<7
RD-78	337734	6221525	57	<7
RD-79	337716	6221542	92	<7
RD-80	337698	6221557	247	<7
RD-81	337685	6221575	64	<7
RD-82	337667	6221594	84	<7
RD-83	337648	6221612	59	10
RD-84	337635	6221630	270	17
RD-85	337617	6221649	33	<7
RD-86	337596	6221671	340	19
RD-87	337570	6221692	77	<7
RD-88	337551	6221710	65	27
RD-89	337530	6221733	112	18
RD-90	337507	6221751	41	20
RD-91	337490	6221769	104	40
RD-92	337473	6221787	87	14
RD-93	337458	6221803	145	22
RD-94	337445	6221820	90	28
RD-95	337426	6221840	52	27
RD-96	337402	6221860	67	13
RD-97	337375	6221882	71	12
RD-98	337344	6221907	185	58
RD-99	337321	6221932	199	110
RD-100	337307	6221954	94	17
RD-101	337293	6221979	447	14
RD-102	337275	6221999	190	9
RD-103	337259	6222017	85	21
RD-104	337252	6222038	145	127
RD-105	337242	6222065	106	31

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Sample Type: Soil

SAMPLE_ID	UTM (NAD83)		Cu_XRF_cor (ppm)	As_XRF_cor (ppm)
	Easting	Northing		
RD-106	337229	6222087	52	33
RD-107	337215	6222117	68	33
RD-108	337202	6222138	52	17
RD-109	337186	6222160	91	34
RD-110	337170	6222187	67	28
RD-111	337153	6222215	77	26
RD-112	337141	6222236	76	24
RD-113	337126	6222258	80	<7
RD-114	337111	6222279	78	33
RD-115	337093	6222300	94	22
RD-116	337077	6222315	81	18
RD-117	336810	6222628	103	14
RD-118	336804	6222645	48	20
RD-119	336791	6222664	96	19
RD-120	336779	6222681	76	23
RD-121	336768	6222697	46	25
RD-122	336759	6222715	58	38
RD-123	336748	6222731	45	29
RD-124	336739	6222747	61	22
RD-125	336729	6222767	47	25
RD-126	336720	6222787	132	146
RD-127	336706	6222803	141	55
RD-128	336520	6223097	110	44
RD-129	336502	6223115	88	32
RD-130	336481	6223132	58	12
RD-131	336465	6223147	55	20
RD-132	336449	6223164	65	70
RD-133	336436	6223184	76	40
RD-134	336414	6223204	102	25
RD-135	336404	6223224	65	28
RD-136	336394	6223238	141	<7
RD-137	336379	6223253	134	<7
RD-138	336367	6223269	202	<7
RD-139	336355	6223288	38	<7
RD-140	336341	6223305	80	<7
RD-141	336325	6223324	74	<7
RD-142	336309	6223339	59	<7
RD-143	336295	6223353	127	<7
RD-144	336282	6223368	128	<7
RD-145	336270	6223383	53	<7
RD-146	336258	6223398	219	<7
RD-147	336247	6223413	95	<7
RD-148	336233	6223427	58	<7
RD-149	336228	6223444	NS	
RD-150	336220	6223460	280	30
RD-151	336205	6223479	63	9
RD-152	336185	6223486	105	<7
RD-153	336174	6223500	114	<7
RD-154	336163	6223515	92	<7
RD-155	336154	6223528	101	<7
RD-156	336137	6223539	119	<7
RD-157	336129	6223553	NS	
RD-158	336127	6223567	280	21
RD-159	336116	6223581	65	10
RD-160	336109	6223597	444	17
RD-161	336098	6223614	162	<7
RD-162	335900	6223862	61	<7

Project: Cathedral
Date: Nov 5, 2018

Sample Results
(Corrected XRF Data)

Sample Type: Soil

SAMPLE_ID	UTM (NAD83)		Cu_XRF_cor (ppm)	As_XRF_cor (ppm)
	Easting	Northing		
RD-163	336084	6223635	192	13
RD-164	336075	6223654	100	<7
RD-165	336064	6223672	45	<7
RD-166	336047	6223689	134	11
RD-167	336038	6223705	150	<7
RD-168	336026	6223722	41	<7
RD-169	336017	6223737	103	<7
RD-170	336010	6223754	62	<7
RD-171	335991	6223764	65	<7
RD-172	335968	6223776	61	<7
RD-173	335952	6223794	58	<7
RD-174	335940	6223812	33	<7
RD-175	335932	6223828	48	<7
RD-176	335918	6223846	70	<7
RD-177	335891	6223882	78	<7
RD-178	335873	6223906	242	<7
RD-179	335854	6223925	127	<7
RD-180	335839	6223941	118	<7
RD-181	335824	6223958	65	<7
RD-182	335809	6223975	64	<7
RD-183	335790	6223991	45	<7
RD-184	335772	6224009	424	<7
RD-185	335757	6224026	440	<7
RD-186	335742	6224043	330	<7
RD-187	335730	6224063	141	<7
RD-188	335711	6224077	253	<7
RD-189	335699	6224099	428	<7
RD-190	335680	6224114	64	<7
RD-191	335657	6224130	59	<7
RD-192	335647	6224150	123	<7
RD-193	335633	6224168	20	<7
RD-194	335618	6224185	107	<7
RD-195	335607	6224206	45	<7
RD-196	335592	6224224	103	<7
RD-197	335582	6224244	98	11
RD-198	335565	6224264	108	24
RD-199	335552	6224284	115	14
RD-200	335534	6224301	165	39
RD-201	335518	6224321	140	<7
RD-202	335500	6224342	64	<7
RD-203	335487	6224364	59	<7
RD-204	335480	6224387	80	<7
RD-205	335466	6224412	203	<7
RD-206	335454	6224435	74	44
RD-207	335443	6224460	115	<7
RD-208	335434	6224483	91	<7
RD-209	335411	6224505	40	<7
RD-210	335397	6224526	49	<7
RD-211	335385	6224549	107	<7
RD-212	335369	6224568	22	<7
RD-213	335355	6224591	22	<7
RD-214	335344	6224616	33	<7
RD-215	335333	6224639	88	<7
RD-216	335317	6224661	344	<7
RD-217	335303	6224681	71	<7
RD-218	335289	6224701	96	<7
RD-219	335272	6224721	55	<7

Project: Cathedral
Date: Nov 5, 2018

Sample Results
(Corrected XRF Data)

Sample Type: Soil

SAMPLE_ID	UTM (NAD83)		Cu_XRF_cor (ppm)	As_XRF_cor (ppm)
	Easting	Northing		
RD-220	335252	6224737	121	<7
RD-221	335234	6224748	77	<7
RD-222	335209	6224764	76	<7
RD-223	335185	6224782	110	<7
RD-224	335161	6224794	57	<7
RD-225	335139	6224807	52	<7
RD-226	335118	6224820	70	<7
RD-227	335096	6224834	33	<7
RD-228	335074	6224847	48	<7
RD-229	335052	6224861	38	<7
RD-230	335031	6224874	77	<7
RD-231	335010	6224892	29	<7
RD-232	334987	6224901	236	<7
RD-233	334966	6224917	65	<7
RD-234	334945	6224933	70	<7
RD-235	334923	6224945	58	<7
RD-236	334901	6224958	41	<7
RD-237	334876	6224966	NS	
RD-238	334852	6224980	83	<7
RD-239	334836	6224998	88	<7
RD-240	334817	6225008	45	<7
RD-241	334797	6225019	47	<7
RD-242	334775	6225028	164	13
RD-243	334753	6225038	110	10
RD-244	334735	6225047	86	<7
RD-245	334713	6225058	165	14
RD-246	334692	6225068	97	<7
RD-247	334665	6225077	112	11
RD-248	334645	6225086	134	9
RD-249	334623	6225096	73	10
RD-250	334604	6225106	135	<7
RD-251	334582	6225116	324	29
RD-252	334557	6225126	168	11
RD-253	334540	6225136	164	14
RD-254	334519	6225146	72	15
RD-255	334496	6225156	64	12
RD-256	334477	6225168	77	11
RD-257	334457	6225178	90	<7
RD-258	334437	6225190	44	<7
RD-259	334416	6225199	52	16
RD-260	334401	6225212	92	23
RD-261	334390	6225226	22	9
RD-262	334375	6225236	30	<7
RD-263	334357	6225251	48	17
RD-264	334343	6225264	47	<7
RD-265	334331	6225280	61	<7
RD-266	334324	6225296	92	12
RD-267	334313	6225310	54	12
RD-268	334300	6225323	40	15
RD-269	334288	6225337	59	15
RD-270	334270	6225349	393	21
RD-271	334254	6225362	357	28
RD-272	334238	6225374	24	16
RD-273	334229	6225387	278	129
RD-274	334214	6225403	65	<7
RD-275	334199	6225417	136	<7
RD-276	334190	6225431	57	17

Project: Cathedral
Date: Nov 5, 2018

Sample Results
(Corrected XRF Data)

Sample Type: Soil

SAMPLE_ID	UTM (NAD83)		Cu_XRF_cor (ppm)	As_XRF_cor (ppm)
	Easting	Northing		
RD-277	334167	6225450	49	9
RD-278	334161	6225459	91	38
RD-279	334151	6225472	46	10
RD-280	334136	6225489	141	37
RD-281	334113	6225500	69	21
RD-282	334087	6225512	559	28
RD-283	334062	6225522	70	<7
RD-284	334039	6225533	49	12
RD-285	334019	6225546	93	10
RD-286	333997	6225555	239	20
RD-287	333980	6225570	57	<7
RD-288	333958	6225585	91	<7
RD-289	333941	6225597	155	14
RD-290	333920	6225614	52	17
RD-291	333902	6225627	51	11
RD-292	333881	6225644	89	12
RD-293	333864	6225657	42	<7
RD-294	333846	6225674	59	17
RD-295	333833	6225694	110	8
RD-296	333818	6225714	102	9
RD-297	333800	6225728	48	<7
RD-298	333781	6225743	79	12
RD-299	333758	6225759	22	<7
RD-300	333735	6225766	145	<7
C-1	350714	6216596	108	34
C-2	350714	6216620	72	<7
C-3	350713	6216643	271	21
C-4	350714	6216666	39	<7
C-5	350712	6216689	38	<7
C-6	350710	6216713	76	18
C-7	350710	6216736	60	35
C-8	350710	6216761	72	9
C-9	350709	6216783	174	10
C-10	350707	6216807	33	<7
C-11	350706	6216827	110	13
C-12	350707	6216852	171	102
C-13	350705	6216876	58	<7
C-14	350708	6216899	45	14
C-15	350705	6216925	83	23
C-16	350706	6216946	40	<7
C-17	350709	6216970	32	<7
C-18	350706	6216994	45	19
C-19	350703	6217015	117	23
C-20	350710	6217040	48	21
C-21	350703	6217064	41	<7
C-22	350705	6217088	65	15
C-23	350706	6217110	806	77
C-24	350704	6217133	83	18
C-25	350703	6217157	73	19
C-26	350699	6217182	74	102
C-27	350697	6217202	28	8
C-28	350700	6217226	69	17
C-29	350695	6217249	108	11
C-30	350691	6217275	51	18
C-31	350694	6217297	66	<7
C-32	350692	6217318	64	14
C-33	350697	6217342	59	<7

Project: Cathedral
Date: Nov 5, 2018

Sample Results
(Corrected XRF Data)

Sample Type: Soil

SAMPLE_ID	UTM (NAD83)		Cu_XRF_cor (ppm)	As_XRF_cor (ppm)
	Easting	Northing		
C-34	350697	6217368	44	16
C-35	350699	6217392	158	<7
C-36	350699	6217415	94	38
C-37	350699	6217437	40	<7
C-38	350699	6217458	65	21
C-39	350698	6217481	77	25
C-40	350701	6217508	54	15
C-41	350706	6217531	69	12

Legend

NS No sample taken at station

APPENDIX III
CONTROL SAMPLES

a. Certified Reference Material Certificates
b. Control Sample Performance

APPENDIX III
CONTROL SAMPLES

a. Certified Reference Material Certificates

CDN Resource Laboratories Ltd.

#2, 20148 – 102nd Ave, Langley, B.C., Canada, V1M 4B4, 604-882-8422, Fax: 604-882-8466 (www.cdnlabs.com)

REFERENCE MATERIAL: CDN-CM-25

Recommended values and the "Between Lab" Two Standard Deviations

Gold	***0.228 g/t ± 0.030 g/t***	***Certified value***	***30g FA / ICP or AA***
Copper	***0.191 % ± 0.006 %***	***Certified value***	***4-acid / ICP or AA***
Copper	***0.194 % ± 0.008 %***	***Certified value***	***Aqua regia / ICP or AA***
Molybdenum	***0.019 % ± 0.002 %***	***Certified value***	***4-acid / ICP or AA***
Molybdenum	***0.019 % ± 0.002 %***	***Certified value***	***Aqua regia / ICP or AA***
Sulphur	***0.367 % ± 0.028 %***	***Certified value***	***Leco***

Note: Standards with an RSD of near or less than 5% are certified; RSD's of between 5% and 15% are Provisional; RSD's over 15% are Indicated. Provisional and Indicated values cannot be used to monitor accuracy with a high degree of certainty.

PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., P. Geo.
DATE OF CERTIFICATION: August 10, 2012

METHOD OF PREPARATION:

Reject ore material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone mixer. Splits were taken and sent to 15 laboratories for round robin assaying.

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-CM-25 was prepared using 793 kg of a granitic rock blended with 7 kg of a Cu-Au-Mo concentrate.

Approximate chemical composition (from whole rock analysis) is as follows:

	Percent			Percent
SiO2	67.6		MgO	2.4
Al2O3	12.6		K2O	1.1
Fe2O3	6.3		TiO2	0.6
CaO	3.8		LOI	2.1
Na2O	3.0		S	0.3
C	0.1			

Statistical Procedures:

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The means and standard deviations were calculated using all remaining data. Any analysis that fell outside of the mean ±2 standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

REFERENCE MATERIAL CDN-CM-25

Results from round-robin assaying:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
CM-25-1	0.239	0.208	0.198	0.251	0.22	0.212	0.23	0.225	0.242	0.223	0.211	0.240	0.215	0.206	0.260
CM-25-2	0.228	0.243	0.211	0.223	0.23	0.233	0.23	0.245	0.229	0.219	0.232	0.215	0.245	0.200	0.254
CM-25-3	0.222	0.202	0.198	0.204	0.22	0.227	0.23	0.227	0.242	0.223	0.261	0.220	0.240	0.203	0.263
CM-25-4	0.245	0.203	0.201	0.215	0.23	0.275	0.23	0.221	0.238	0.233	0.249	0.240	0.228	0.197	0.247
CM-25-5	0.247	0.182	0.220	0.228	0.24	0.239	0.23	0.245	0.231	0.206	0.225	0.220	0.220	0.214	0.253
CM-25-6	0.219	0.192	0.216	0.212	0.23	0.240	0.24	0.216	0.237	0.206	0.216	0.240	0.224	0.216	0.263
CM-25-7	0.236	0.201	0.217	0.211	0.23	0.235	0.23	0.243	0.230	0.220	0.216	0.220	0.277	0.210	0.243
CM-25-8	0.250	0.197	0.203	0.214	0.24	0.247	0.24	0.248	0.228	0.248	0.221	0.218	0.232	0.215	0.249
CM-25-9	0.252	0.229	0.223	0.197	0.22	0.223	0.22	0.239	0.262	0.214	0.225	0.221	0.259	0.211	0.252
CM-25-10	0.224	0.219	0.225	0.232	0.23	0.230	0.23	0.250	0.248	0.227	0.247	0.230	0.228	0.209	0.242
Mean	0.236	0.208	0.211	0.219	0.229	0.236	0.231	0.236	0.239	0.222	0.230	0.226	0.237	0.208	0.253
Std. Devn.	0.0123	0.0181	0.0105	0.0155	0.0074	0.0168	0.0057	0.0124	0.0105	0.0125	0.0167	0.0101	0.0191	0.0065	0.0076
% RSD	5.20	8.72	4.95	7.07	3.22	7.11	2.46	5.26	4.41	5.65	7.23	4.47	8.07	3.11	3.02
4-acid	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu
CM-25-1	0.194	0.191	0.189	0.214	0.194	0.193	0.192	0.189	0.202	0.190	0.188	0.193	0.188	0.191	0.20
CM-25-2	0.197	0.184	0.190	0.213	0.193	0.191	0.187	0.190	0.209	0.188	0.187	0.196	0.193	0.191	0.19
CM-25-3	0.192	0.188	0.194	0.211	0.190	0.196	0.195	0.189	0.196	0.191	0.192	0.195	0.190	0.194	0.19
CM-25-4	0.174	0.187	0.193	0.211	0.192	0.192	0.189	0.197	0.202	0.189	0.191	0.194	0.187	0.195	0.20
CM-25-5	0.188	0.190	0.193	0.209	0.194	0.197	0.190	0.194	0.208	0.188	0.190	0.195	0.191	0.191	0.19
CM-25-6	0.185	0.194	0.193	0.211	0.193	0.197	0.189	0.193	0.207	0.190	0.189	0.195	0.191	0.194	0.19
CM-25-7	0.185	0.193	0.190	0.214	0.191	0.193	0.190	0.191	0.200	0.187	0.188	0.193	0.198	0.194	0.20
CM-25-8	0.172	0.192	0.193	0.211	0.195	0.193	0.198	0.197	0.200	0.189	0.191	0.200	0.196	0.193	0.19
CM-25-9	0.189	0.188	0.189	0.209	0.186	0.194	0.191	0.192	0.204	0.188	0.185	0.193	0.189	0.191	0.19
CM-25-10	0.183	0.194	0.192	0.208	0.188	0.192	0.191	0.191	0.194	0.185	0.192	0.193	0.191	0.193	0.19
Mean	0.186	0.190	0.192	0.211	0.192	0.194	0.191	0.192	0.202	0.189	0.189	0.195	0.191	0.193	0.193
Std. Devn.	0.0081	0.0033	0.0019	0.0021	0.0029	0.0021	0.0032	0.0029	0.0050	0.0017	0.0024	0.0022	0.0034	0.0016	0.0048
% RSD	4.34	1.74	0.99	0.98	1.49	1.11	1.67	1.53	2.45	0.91	1.27	1.11	1.80	0.84	2.50
Aqua regia	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu
CM-25-1	0.200	0.187	0.198	0.212	0.189	0.196	0.196	0.203	0.189	0.190	0.183	0.195	0.192	0.193	0.19
CM-25-2	0.201	0.191	0.197	0.222	0.187	0.199	0.199	0.200	0.192	0.192	0.183	0.199	0.195	0.191	0.19
CM-25-3	0.201	0.192	0.196	0.221	0.176	0.200	0.205	0.194	0.193	0.199	0.184	0.196	0.189	0.191	0.19
CM-25-4	0.201	0.191	0.196	0.216	0.179	0.195	0.197	0.207	0.191	0.193	0.187	0.198	0.195	0.190	0.19
CM-25-5	0.199	0.191	0.199	0.219	0.179	0.193	0.199	0.198	0.187	0.192	0.187	0.200	0.192	0.192	0.19
CM-25-6	0.200	0.19	0.200	0.219	0.178	0.193	0.201	0.204	0.192	0.188	0.191	0.192	0.190	0.193	0.19
CM-25-7	0.196	0.193	0.192	0.212	0.181	0.193	0.202	0.198	0.191	0.192	0.188	0.200	0.195	0.193	0.19
CM-25-8	0.200	0.189	0.195	0.222	0.185	0.191	0.200	0.190	0.197	0.188	0.191	0.193	0.185	0.191	0.19
CM-25-9	0.197	0.192	0.196	0.220	0.184	0.196	0.198	0.201	0.192	0.187	0.182	0.196	0.200	0.191	0.19
CM-25-10	0.202	0.189	0.195	0.211	0.175	0.195	0.200	0.198	0.185	0.190	0.180	0.199	0.189	0.193	0.19
Mean	0.200	0.191	0.196	0.217	0.181	0.195	0.200	0.199	0.191	0.191	0.186	0.197	0.192	0.192	0.190
Std. Devn.	0.0019	0.0018	0.0023	0.0043	0.0048	0.0027	0.0026	0.0049	0.0033	0.0034	0.0039	0.0029	0.0042	0.0012	0.0000
% RSD	0.95	0.93	1.16	1.99	2.64	1.38	1.29	2.47	1.74	1.80	2.08	1.45	2.20	0.61	0.00

Notes:

1. Au data from Lab. 2 was removed for failing the t test.
2. 4-acid Cu data from Labs 4 and 9 was removed for failing the t test.
3. Aqua regia Cu data from Labs 4 and 5 was removed for failing the t test.

REFERENCE MATERIAL CDN-CM-25

Results from round-robin assaying:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
4 acid	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo
CM-25-1	0.019	0.019	0.020	0.018	0.020	0.020	0.018	0.019	0.019	0.019	0.019	0.020	0.018	0.019	0.02
CM-25-2	0.019	0.018	0.019	0.019	0.020	0.019	0.018	0.020	0.019	0.020	0.019	0.020	0.018	0.018	0.02
CM-25-3	0.019	0.018	0.024	0.019	0.019	0.020	0.020	0.019	0.018	0.020	0.019	0.019	0.018	0.018	0.02
CM-25-4	0.017	0.019	0.017	0.019	0.019	0.019	0.019	0.020	0.019	0.020	0.019	0.020	0.015	0.018	0.02
CM-25-5	0.019	0.019	0.019	0.018	0.019	0.020	0.020	0.021	0.020	0.019	0.019	0.020	0.014	0.018	0.02
CM-25-6	0.019	0.019	0.022	0.018	0.020	0.020	0.020	0.020	0.019	0.019	0.019	0.020	0.016	0.018	0.02
CM-25-7	0.019	0.019	0.020	0.019	0.019	0.020	0.020	0.019	0.019	0.019	0.019	0.020	0.020	0.018	0.02
CM-25-8	0.018	0.017	0.023	0.019	0.019	0.019	0.020	0.020	0.018	0.020	0.020	0.020	0.019	0.018	0.02
CM-25-9	0.019	0.018	0.024	0.019	0.019	0.019	0.019	0.020	0.019	0.020	0.019	0.020	0.019	0.018	0.02
CM-25-10	0.019	0.017	0.022	0.020	0.019	0.020	0.019	0.020	0.018	0.019	0.020	0.019	0.016	0.018	0.02
Mean	0.019	0.018	0.021	0.019	0.019	0.020	0.019	0.020	0.019	0.020	0.019	0.020	0.017	0.018	0.020
Std. Devn.	0.0007	0.0008	0.0024	0.0004	0.0003	0.0003	0.0006	0.0005	0.0006	0.0005	0.0004	0.0004	0.0019	0.0004	0.0000
% RSD	3.61	4.50	11.22	2.33	1.74	1.32	3.12	2.33	3.36	2.70	1.98	2.13	11.25	1.94	0.00
Aqua regia	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo
CM-25-1	0.018	0.019	0.019	0.018	0.013	0.017	0.018	0.020	0.018	0.019	0.019	0.020	0.019	0.018	0.02
CM-25-2	0.019	0.020	0.019	0.019	0.012	0.017	0.017	0.020	0.018	0.020	0.019	0.020	0.020	0.018	0.02
CM-25-3	0.020	0.020	0.019	0.019	0.012	0.017	0.019	0.019	0.018	0.020	0.019	0.019	0.020	0.018	0.02
CM-25-4	0.019	0.019	0.020	0.019	0.012	0.017	0.018	0.020	0.018	0.020	0.020	0.020	0.020	0.018	0.02
CM-25-5	0.019	0.021	0.019	0.020	0.011	0.017	0.019	0.019	0.018	0.020	0.019	0.020	0.017	0.018	0.02
CM-25-6	0.019	0.020	0.018	0.020	0.012	0.017	0.018	0.020	0.019	0.020	0.020	0.020	0.021	0.017	0.02
CM-25-7	0.019	0.020	0.019	0.018	0.012	0.016	0.019	0.019	0.019	0.020	0.020	0.020	0.020	0.018	0.02
CM-25-8	0.019	0.019	0.019	0.019	0.012	0.016	0.018	0.019	0.018	0.020	0.020	0.020	0.020	0.018	0.02
CM-25-9	0.018	0.020	0.020	0.019	0.012	0.017	0.018	0.020	0.019	0.020	0.020	0.020	0.020	0.018	0.02
CM-25-10	0.019	0.021	0.019	0.018	0.011	0.017	0.017	0.019	0.018	0.020	0.018	0.020	0.020	0.018	0.02
Mean	0.019	0.020	0.019	0.019	0.012	0.017	0.018	0.019	0.018	0.020	0.019	0.020	0.020	0.018	0.020
Std. Devn.	0.0006	0.0007	0.0006	0.0007	0.0006	0.0004	0.0006	0.0005	0.0004	0.0003	0.0006	0.0003	0.0011	0.0003	0.0000
% RSD	3.00	3.71	2.97	3.79	4.71	2.47	3.17	2.32	2.01	1.59	3.01	1.59	5.38	1.52	0.00
Leco	% S	% S	% S	% S	% S	% S	% S	% S	% S	% S	% S	% S	% S	% S	% S
CM-25-1	0.38	0.38	0.35	0.399		0.35	0.37	0.35	0.37		0.40	0.34	0.38	0.32	0.32
CM-25-2	0.36	0.38	0.38	0.379		0.35	0.37	0.36	0.36		0.41	0.36	0.38	0.32	0.33
CM-25-3	0.30	0.38	0.36	0.379		0.35	0.38	0.35	0.36		0.41	0.37	0.39	0.33	0.31
CM-25-4	0.36	0.38	0.38	0.383		0.34	0.38	0.35	0.37		0.41	0.37	0.39	0.33	0.35
CM-25-5	0.37	0.38	0.38	0.366		0.35	0.38	0.36	0.37		0.41	0.38	0.39	0.34	0.34
CM-25-6	0.36	0.38	0.37	0.385		0.36	0.38	0.36	0.37		0.41	0.35	0.38	0.34	0.34
CM-25-7	0.35	0.38	0.37	0.372		0.35	0.37	0.36	0.36		0.41	0.36	0.38	0.34	0.35
CM-25-8	0.37	0.39	0.37	0.374		0.35	0.37	0.35	0.37		0.41	0.37	0.38	0.34	0.33
CM-25-9	0.37	0.38	0.37	0.377		0.35	0.37	0.36	0.36		0.41	0.37	0.39	0.35	0.34
CM-25-10	0.36	0.39	0.37	0.369		0.35	0.36	0.35	0.36		0.41	0.38	0.38	0.34	0.34
Mean	0.358	0.382	0.370	0.378		0.350	0.373	0.355	0.365		0.409	0.365	0.384	0.335	0.335
Std. Devn.	0.0220	0.0042	0.0094	0.0094		0.0047	0.0067	0.0053	0.0053		0.0032	0.0127	0.0052	0.0097	0.0127
% RSD	6.15	1.10	2.55	2.48		1.35	1.81	1.48	1.44		0.77	3.48	1.34	2.90	3.79

Notes:

1. 4-acid Mo data from Labs 3 and 13 was removed for failing the t test.
2. Aqua regia Mo data from Labs 5 and 6 was removed for failing the t test.
3. Leco sulphur data from Lab 11 was removed for failing the t test.
4. Labs 5 and 10 were unable to provide Leco sulphur data.

REFERENCE MATERIAL CDN-CM-25

Participating Laboratories:
(not in same order as listed in table of results)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada
Acme Analytical Laboratories Ltd., Santiago, Chile
Actlabs, Ancaster, Ontario, Canada
Actlabs, Thunder Bay, Ontario, Canada
Actlabs, Stewart, B.C., Canada
ALS Chemex Laboratories, North Vancouver, B.C., Canada
AGAT, Mississauga, Ontario
ASA Argentina
CIMM, Lima, Peru
Intertek - Genalysis, Perth, Australia
SGS, Lima, Peru
SGS, Toronto, Ontario, Canada
SGS, Vancouver, B.C., Canada
TSL Laboratories, Saskatoon, Canada
Ultra Trace (Bureau Veritas), Perth, Australia

Legal Notice:

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. or Barry Smee accept no liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by

Duncan Sanderson, Certified Assayer of B.C.

Geochemist

Dr. Barry Smee, Ph.D., P. Geo.

CDN Resource Laboratories Ltd.

#2, 20148 – 102nd Ave, Langley, B.C., Canada, V1M 4B4, 604-882-8422, Fax: 604-882-8466 (www.cdnlabs.com)

REFERENCE MATERIAL: CDN-CM-27

Recommended values and the "Between Lab" Two Standard Deviations

Gold	***0.636 g/t ± 0.068 g/t***	***Certified value***	***30g FA / ICP or AA***
Copper	***0.592 % ± 0.030 %***	***Certified value***	***4-acid / ICP or AA***
Copper	***0.593 % ± 0.026 %***	***Certified value***	***Aqua regia / ICP or AA***
Molybdenum	***0.051 % ± 0.004 %***	***Certified value***	***4-acid / ICP or AA***
Molybdenum	***0.051 % ± 0.004 %***	***Certified value***	***Aqua regia / ICP or AA***

Note: Standards with an RSD of near or less than 5% are certified; RSD's of between 5% and 15% are Provisional; RSD's over 15% are Indicated. Provisional and Indicated values cannot be used to monitor accuracy with a high degree of certainty.

PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., P. Geo.
DATE OF CERTIFICATION: November 2, 2012

METHOD OF PREPARATION:

Reject ore material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone mixer. Splits were taken and sent to 15 laboratories for round robin assaying.

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-CM-27 was prepared using 800 kg of a granitic rock blended with 22 kg of a Cu-Au-Mo concentrate.

Approximate chemical composition (from whole rock analysis) is as follows:

	Percent			Percent
SiO2	68.6		MgO	2.0
Al2O3	11.6		K2O	1.1
Fe2O3	6.6		TiO2	0.5
CaO	3.2		LOI	2.0
Na2O	2.8		S	0.9
C	0.1			

Statistical Procedures:

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The means and standard deviations were calculated using all remaining data. Any analysis that fell outside of the mean ±2 standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

REFERENCE MATERIAL CDN-CM-27

Results from round-robin assaying:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
CM-27-1	0.620	0.548	0.633	0.674	0.65	0.596	0.59	0.648	0.556	0.633	0.61	0.708	0.658	0.622	0.607
CM-27-2	0.641	0.646	0.648	0.704	0.60	0.635	0.64	0.660	0.575	0.637	0.60	0.675	0.585	0.644	0.600
CM-27-3	0.619	0.632	0.685	0.705	0.69	0.614	0.65	0.679	0.587	0.716	0.61	0.644	0.667	0.649	0.692
CM-27-4	0.608	0.597	0.642	0.669	0.65	0.706	0.63	0.599	0.608	0.694	0.62	0.652	0.664	0.651	0.647
CM-27-5	0.614	0.588	0.631	0.657	0.63	0.669	0.59	0.582	0.544	0.718	0.66	0.695	0.633	0.624	0.671
CM-27-6	0.618	0.629	0.619	0.677	0.64	0.622	0.65	0.582	0.638	0.604	0.60	0.646	0.673	0.633	0.697
CM-27-7	0.678	0.574	0.628	0.650	0.63	0.676	0.61	0.660	0.593	0.665	0.64	0.702	0.583	0.604	0.609
CM-27-8	0.626	0.628	0.614	0.712	0.63	0.612	0.62	0.601	0.597	0.639	0.59	0.662	0.657	0.606	0.629
CM-27-9	0.599	0.608	0.680	0.662	0.62	0.551	0.59	0.579	0.552	0.622	0.59	0.705	0.666	0.637	0.633
CM-27-10	0.600	0.538	0.605	0.684	0.68	0.586	0.69	0.600	0.619	0.619	0.66	0.645	0.677	0.625	0.656
Mean	0.622	0.599	0.639	0.679	0.642	0.627	0.626	0.619	0.587	0.655	0.618	0.673	0.646	0.630	0.644
Std. Devn.	0.0231	0.0368	0.0264	0.0215	0.0270	0.0463	0.0327	0.0383	0.0305	0.0413	0.0266	0.0269	0.0349	0.0164	0.0348
% RSD	3.72	6.15	4.14	3.16	4.21	7.39	5.23	6.19	5.20	6.31	4.30	3.99	5.40	2.61	5.40
4 acid	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu
CM-27-1	0.583	0.568	0.574	0.605	0.588	0.589	0.606	0.563	0.605	0.634	0.592	0.594	0.64	0.596	0.59
CM-27-2	0.571	0.574	0.580	0.605	0.585	0.586	0.602	0.567	0.603	0.643	0.587	0.610	0.65	0.592	0.59
CM-27-3	0.614	0.588	0.618	0.598	0.579	0.600	0.597	0.573	0.606	0.639	0.581	0.610	0.64	0.589	0.59
CM-27-4	0.637	0.568	0.588	0.594	0.590	0.586	0.602	0.559	0.607	0.644	0.596	0.610	0.61	0.602	0.59
CM-27-5	0.587	0.567	0.593	0.599	0.585	0.601	0.601	0.562	0.603	0.625	0.599	0.586	0.60	0.592	0.58
CM-27-6	0.522	0.603	0.618	0.619	0.587	0.579	0.593	0.562	0.598	0.623	0.605	0.581	0.61	0.587	0.59
CM-27-7	0.568	0.563	0.619	0.589	0.582	0.594	0.601	0.559	0.604	0.612	0.599	0.586	0.62	0.595	0.59
CM-27-8	0.575	0.579	0.654	0.598	0.578	0.585	0.598	0.561	0.605	0.585	0.583	0.598	0.61	0.590	0.58
CM-27-9	0.608	0.566	0.604	0.586	0.584	0.575	0.592	0.557	0.603	0.606	0.605	0.596	0.61	0.602	0.59
CM-27-10	0.593	0.558	0.628	0.599	0.582	0.589	0.597	0.565	0.595	0.592	0.593	0.587	0.60	0.594	0.58
Mean	0.586	0.573	0.608	0.599	0.584	0.588	0.599	0.563	0.603	0.620	0.594	0.596	0.619	0.594	0.587
Std. Devn.	0.0311	0.0134	0.0245	0.0092	0.0038	0.0083	0.0044	0.0046	0.0037	0.0210	0.0085	0.0110	0.0179	0.0051	0.0048
% RSD	5.31	2.34	4.04	1.54	0.66	1.41	0.73	0.82	0.61	3.38	1.43	1.84	2.89	0.85	0.82
Aqua regia	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu
CM-27-1	0.605	0.608	0.600	0.596	0.586	0.595	0.606	0.590	0.611	0.569	0.565	0.583	0.59	0.594	0.58
CM-27-2	0.617	0.583	0.602	0.609	0.580	0.609	0.591	0.570	0.606	0.595	0.563	0.586	0.60	0.597	0.58
CM-27-3	0.601	0.602	0.611	0.611	0.577	0.612	0.609	0.575	0.608	0.586	0.572	0.599	0.60	0.578	0.58
CM-27-4	0.601	0.586	0.584	0.592	0.566	0.616	0.598	0.567	0.603	0.591	0.524	0.608	0.61	0.591	0.58
CM-27-5	0.596	0.585	0.597	0.599	0.564	0.606	0.608	0.590	0.605	0.594	0.568	0.585	0.61	0.594	0.58
CM-27-6	0.601	0.576	0.606	0.578	0.585	0.604	0.617	0.578	0.598	0.563	0.568	0.600	0.60	0.576	0.58
CM-27-7	0.591	0.596	0.605	0.584	0.584	0.604	0.612	0.581	0.608	0.590	0.571	0.607	0.61	0.586	0.59
CM-27-8	0.605	0.594	0.601	0.603	0.580	0.600	0.593	0.593	0.603	0.591	0.572	0.600	0.64	0.593	0.58
CM-27-9	0.593	0.600	0.609	0.611	0.566	0.610	0.599	0.583	0.598	0.589	0.570	0.602	0.62	0.603	0.58
CM-27-10	0.593	0.594	0.613	0.600	0.566	0.625	0.589	0.597	0.604	0.589	0.568	0.601	0.63	0.603	0.57
Mean	0.600	0.592	0.603	0.598	0.575	0.608	0.602	0.582	0.604	0.586	0.564	0.597	0.611	0.591	0.580
Std. Devn.	0.0077	0.0098	0.0083	0.0112	0.0089	0.0085	0.0093	0.0100	0.0042	0.0108	0.0142	0.0091	0.0152	0.0093	0.0047
% RSD	1.29	1.65	1.38	1.87	1.55	1.39	1.55	1.73	0.69	1.84	2.53	1.52	2.49	1.58	0.81

REFERENCE MATERIAL CDN-CM-27

Results from round-robin assaying:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
4 acid	Mo %	Mo %	Mo %	Mo %	Mo %	Mo %	Mo %	Mo %	Mo %	Mo %	Mo %	Mo %	Mo %	Mo %	Mo %
CM-27-1	0.051	0.053	0.049	0.050	0.049	0.050	0.052	0.048	0.051	0.056	0.055	0.049	0.06	0.051	0.05
CM-27-2	0.051	0.055	0.049	0.048	0.049	0.050	0.051	0.049	0.050	0.055	0.053	0.051	0.05	0.052	0.05
CM-27-3	0.052	0.056	0.053	0.050	0.049	0.051	0.050	0.048	0.049	0.055	0.053	0.051	0.05	0.054	0.05
CM-27-4	0.056	0.055	0.050	0.048	0.051	0.051	0.051	0.050	0.050	0.057	0.051	0.052	0.05	0.052	0.05
CM-27-5	0.052	0.057	0.049	0.049	0.050	0.051	0.052	0.050	0.049	0.055	0.054	0.050	0.05	0.054	0.05
CM-27-6	0.046	0.058	0.052	0.052	0.049	0.050	0.050	0.047	0.049	0.055	0.054	0.049	0.06	0.053	0.05
CM-27-7	0.048	0.054	0.052	0.048	0.051	0.050	0.050	0.048	0.050	0.055	0.057	0.049	0.05	0.053	0.05
CM-27-8	0.050	0.054	0.050	0.047	0.050	0.049	0.051	0.048	0.050	0.053	0.056	0.050	0.05	0.051	0.05
CM-27-9	0.052	0.055	0.050	0.048	0.049	0.048	0.051	0.048	0.056	0.055	0.054	0.049	0.05	0.053	0.05
CM-27-10	0.052	0.053	0.051	0.049	0.051	0.048	0.051	0.049	0.048	0.053	0.050	0.049	0.06	0.051	0.05
Mean	0.051	0.055	0.051	0.049	0.050	0.050	0.051	0.048	0.050	0.055	0.054	0.050	0.053	0.052	0.050
Std. Devn.	0.0027	0.0016	0.0016	0.0015	0.0008	0.0011	0.0008	0.0008	0.0021	0.0012	0.0021	0.0010	0.0048	0.0014	0.0000
% RSD	5.23	2.97	3.11	3.10	1.68	2.19	1.66	1.67	4.29	2.18	3.83	2.03	9.11	2.65	0.00
Aqua regia	Mo %	Mo %	Mo %	Mo %	Mo %	Mo %	Mo %	Mo %	Mo %	Mo %	Mo %	Mo %	Mo %	Mo %	Mo %
CM-27-1	0.053	0.054	0.052	0.045	0.050	0.039	0.051	0.053	0.051	0.051	0.037	0.050	0.06	0.051	0.05
CM-27-2	0.055	0.053	0.053	0.048	0.049	0.040	0.050	0.052	0.052	0.054	0.038	0.050	0.06	0.051	0.05
CM-27-3	0.053	0.055	0.053	0.048	0.048	0.042	0.051	0.052	0.052	0.052	0.038	0.051	0.06	0.051	0.05
CM-27-4	0.053	0.054	0.051	0.047	0.048	0.041	0.050	0.053	0.051	0.053	0.037	0.051	0.06	0.051	0.04
CM-27-5	0.053	0.054	0.052	0.044	0.048	0.043	0.052	0.053	0.053	0.052	0.036	0.049	0.06	0.051	0.05
CM-27-6	0.053	0.055	0.053	0.045	0.049	0.041	0.053	0.053	0.051	0.050	0.038	0.051	0.06	0.050	0.04
CM-27-7	0.052	0.055	0.052	0.045	0.050	0.037	0.053	0.054	0.053	0.053	0.037	0.051	0.06	0.050	0.05
CM-27-8	0.054	0.055	0.052	0.046	0.050	0.035	0.051	0.052	0.050	0.053	0.038	0.051	0.05	0.052	0.04
CM-27-9	0.053	0.054	0.053	0.046	0.050	0.036	0.051	0.054	0.050	0.053	0.037	0.051	0.06	0.051	0.05
CM-27-10	0.052	0.054	0.054	0.046	0.050	0.037	0.050	0.054	0.051	0.052	0.038	0.051	0.06	0.052	0.05
Mean	0.053	0.054	0.053	0.046	0.049	0.039	0.051	0.053	0.051	0.052	0.037	0.051	0.059	0.051	0.047
Std. Devn.	0.0009	0.0007	0.0007	0.0013	0.0010	0.0028	0.0010	0.0006	0.0008	0.0012	0.0006	0.0009	0.0032	0.0006	0.0048
% RSD	1.65	1.24	1.40	2.85	2.09	7.21	1.93	1.18	1.64	2.22	1.64	1.71	5.36	1.18	10.28

Note: Aqua regia Mo results from Labs 6 and 11 were removed for failing the t test.

REFERENCE MATERIAL CDN-CM-27

Participating Laboratories:
(not in same order as listed in table of results)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada
Acme Analytical Laboratories Ltd., Santiago, Chile
Actlabs, Ancaster, Ontario, Canada
Actlabs, Thunder Bay, Ontario, Canada
ALS Chemex Laboratories, North Vancouver, B.C., Canada
AGAT, Mississauga, Ontario, Canada
Alex Stewart, Mendoza, Argentina
Certimin, Lima, Peru
Inspectorate Exploration & Mining Services, Richmond, B.C., Canada
Intertek - Genalysis, Perth, Australia
SGS, Lima, Peru
SGS, Toronto, Ontario, Canada
SGS, Vancouver, B.C., Canada
TSL Laboratories, Saskatoon, Canada
Ultra Trace (Bureau Veritas), Perth, Australia

Certified by 
Duncan Sanderson, Certified Assayer of B.C.

Geochemist 
Dr. Barry Smee, Ph.D., P. Geo.

APPENDIX III
CONTROL SAMPLES

b. Control Sample Performance

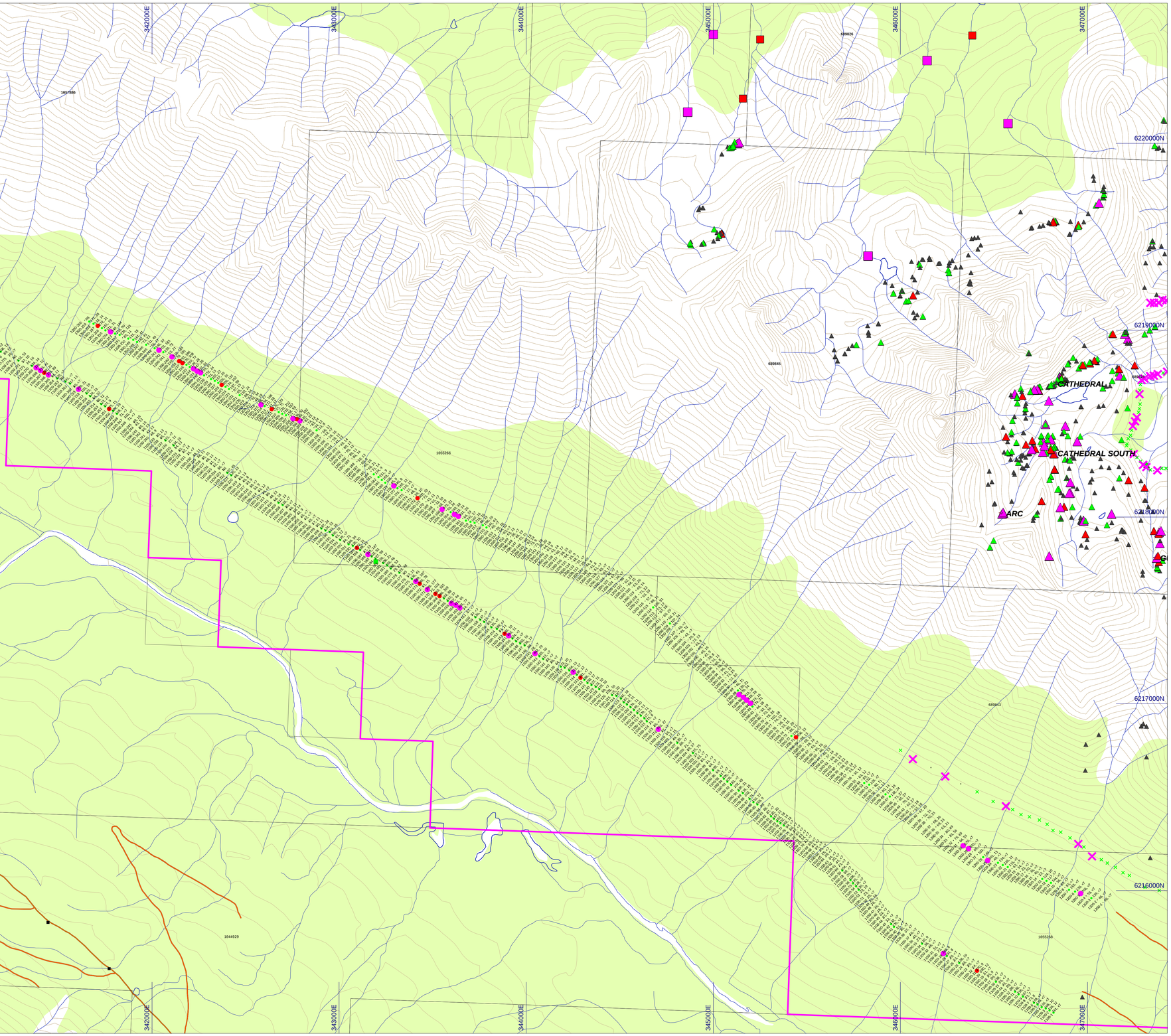
Project: Cathedral
Date: Nov 5, 2018

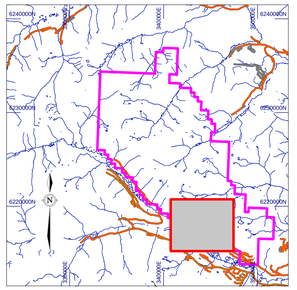
CRM Analytical Results
(Corrected XRF Data)

SAMPLE_ID	Cu_XRF_cor (ppm)	Certified Value (Cu ppm)		
		Mean	Lower Limit	Upper Limit
CDN-CM-27	5771	5930	5670	6190
CDN-CM-27	5863	5930	5670	6190
CDN-CM-27	5884	5930	5670	6190
CDN-CM-27	5771	5930	5670	6190
CDN-CM-27	5704	5930	5670	6190
CDN-CM-27	**5653**	5930	5670	6190
CDN-CM-27	5748	5930	5670	6190
CDN-CM-27	**5637**	5930	5670	6190
CDN-CM-27	5706	5930	5670	6190
CDN-CM-27	5753	5930	5670	6190
CDN-CM-25	1932	1940	1860	2020
CDN-CM-25	1904	1940	1860	2020
CDN-CM-25	1942	1940	1860	2020
CDN-CM-25	1901	1940	1860	2020
CDN-CM-25	1885	1940	1860	2020
CDN-CM-25	1917	1940	1860	2020
CDN-CM-25	1900	1940	1860	2020
CDN-CM-25	1915	1940	1860	2020
CDN-CM-25	1934	1940	1860	2020
CDN-CM-25	1891	1940	1860	2020
CDN-CM-25	1864	1940	1860	2020
CDN-CM-25	1877	1940	1860	2020
CDN-CM-27	**5622**	5930	5670	6190
CDN-CM-27	5759	5930	5670	6190
CDN-CM-27	5696	5930	5670	6190
CDN-CM-27	5696	5930	5670	6190
CDN-CM-27	5817	5930	5670	6190
CDN-CM-27	5899	5930	5670	6190
CDN-CM-27	5950	5930	5670	6190
CDN-CM-27	5768	5930	5670	6190
CDN-CM-27	5825	5930	5670	6190
CDN-CM-27	5701	5930	5670	6190
CDN-CM-27	5870	5930	5670	6190
CDN-CM-27	5770	5930	5670	6190
CDN-CM-27	5831	5930	5670	6190
CDN-CM-27	5706	5930	5670	6190

Legend

Pass: result falls within 2 standard deviations of expected value
Pass: result falls within 3 standard deviations of expected value
Fail: result falls outside of 3 standard deviations of expected value





LEGEND

TOPOGRAPHY

- Gravel Road
- Trail
- Contour (20m interval)
- Watercourse
- Waterbody
- Vegetation cover
- Property boundary
- Mineral tenures with numbers (as of November 13, 2018)

Mineral Occurrences

- BC Minfile occurrence with name
- New mineral occurrence with name

GEOCHEMISTRY

Sample Type	Soil Samples	Rock Samples	Silt Samples
2018 Soil Sample with label and Cu (ppm), As (ppm)	< 104 ppm Cu	< 0.1% Cu	< 115 ppm Cu
Historical Soil Sample	104 - 241 ppm Cu	0.1 - 1.0%	115 - 239 ppm Cu
Historical Rock Sample	242 - 310 ppm Cu	0.5 - 1.0%	240 - 299 ppm Cu
Historical Silt Sample	>= 310 ppm Cu	> 1.0% Cu	>= 300 ppm Cu

N

0 200 400 600 800 1000m

NAD83, UTM Zone 10 North
NTS 094C/04, 03

THANE MINERALS INC.

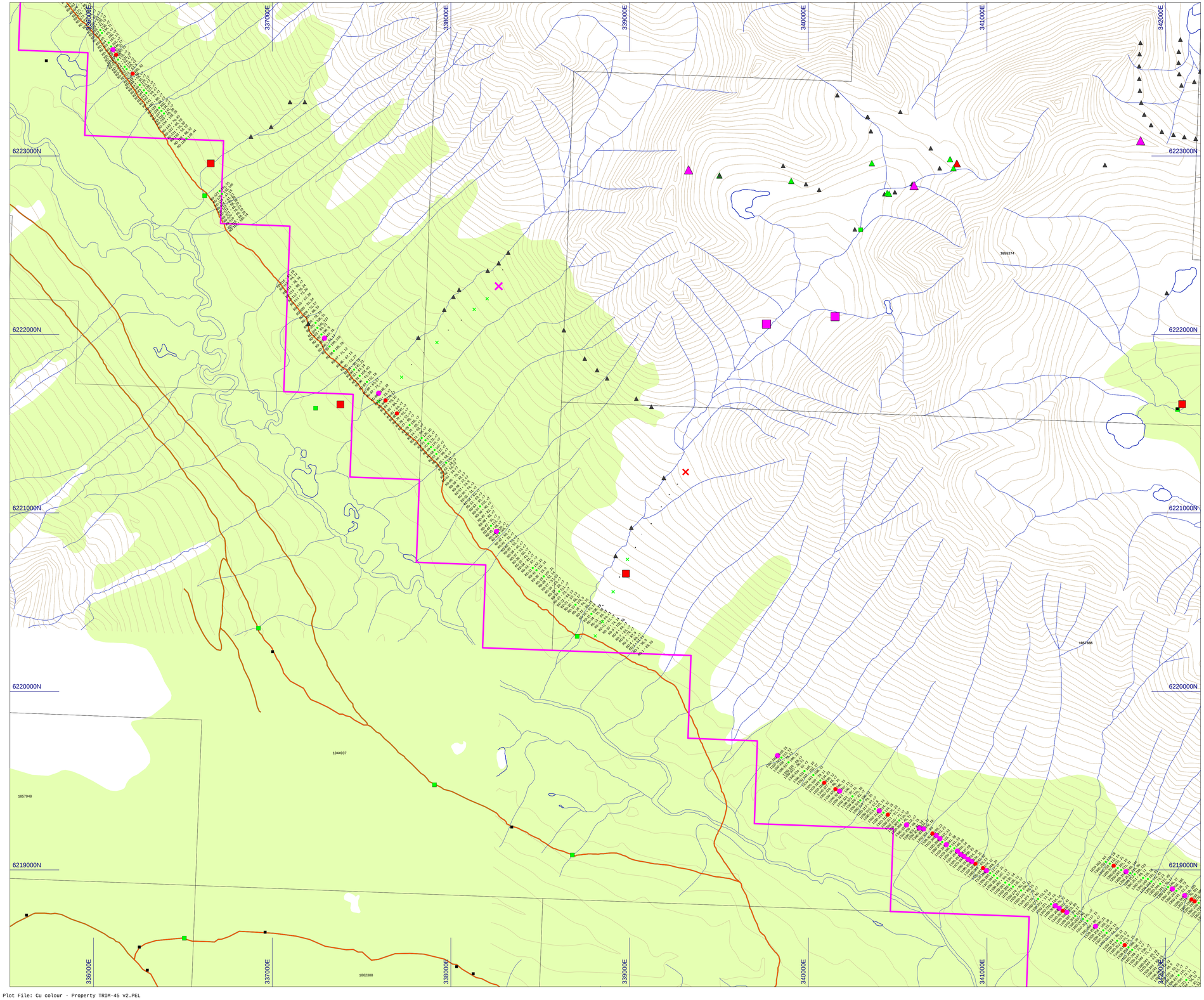
GEOCHEMISTRY PLAN MAP
COPPER & ARSENIC
AREA I - SOUTH

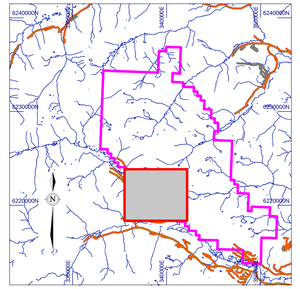
Cathedral Property
Omineca M.D., British Columbia, Canada

Project:	C-122	By:	CN
Scale:	1:10000	Drawn:	CN
Figure No.:	5	Date:	November, 2018

CME

Plot File: Cu colour - Property TRIM-45 v2.PEL





LEGEND

TOPOGRAPHY

- Gravel Road
- Trail
- Contour (20m interval)
- Watercourse
- Waterbody
- Vegetation cover
- Property boundary
- Mineral tenures with numbers (as of November 13, 2018)

Mineral Occurrences

- BC Minfile occurrence with name
- New mineral occurrence with name

GEOCHEMISTRY

Sample Type	Soil Samples	Rock Samples	Silt Samples
2018 Soil Sample with label and Cu (ppm), As (ppm)	< 104 ppm Cu	< 0.1% Cu	< 115 ppm Cu
Historical Soil Sample	104 - 241 ppm Cu	0.1 - 1.0%	115 - 239 ppm Cu
Historical Rock Sample	242 - 310 ppm Cu	0.5 - 1.0%	240 - 299 ppm Cu
Historical Silt Sample	>= 310 ppm Cu	> 1.0% Cu	>= 300 ppm Cu

N

0 200 400 600 800 1000m

NAD83, UTM Zone 10 North
NTS 094C/04, 03

THANE MINERALS INC.

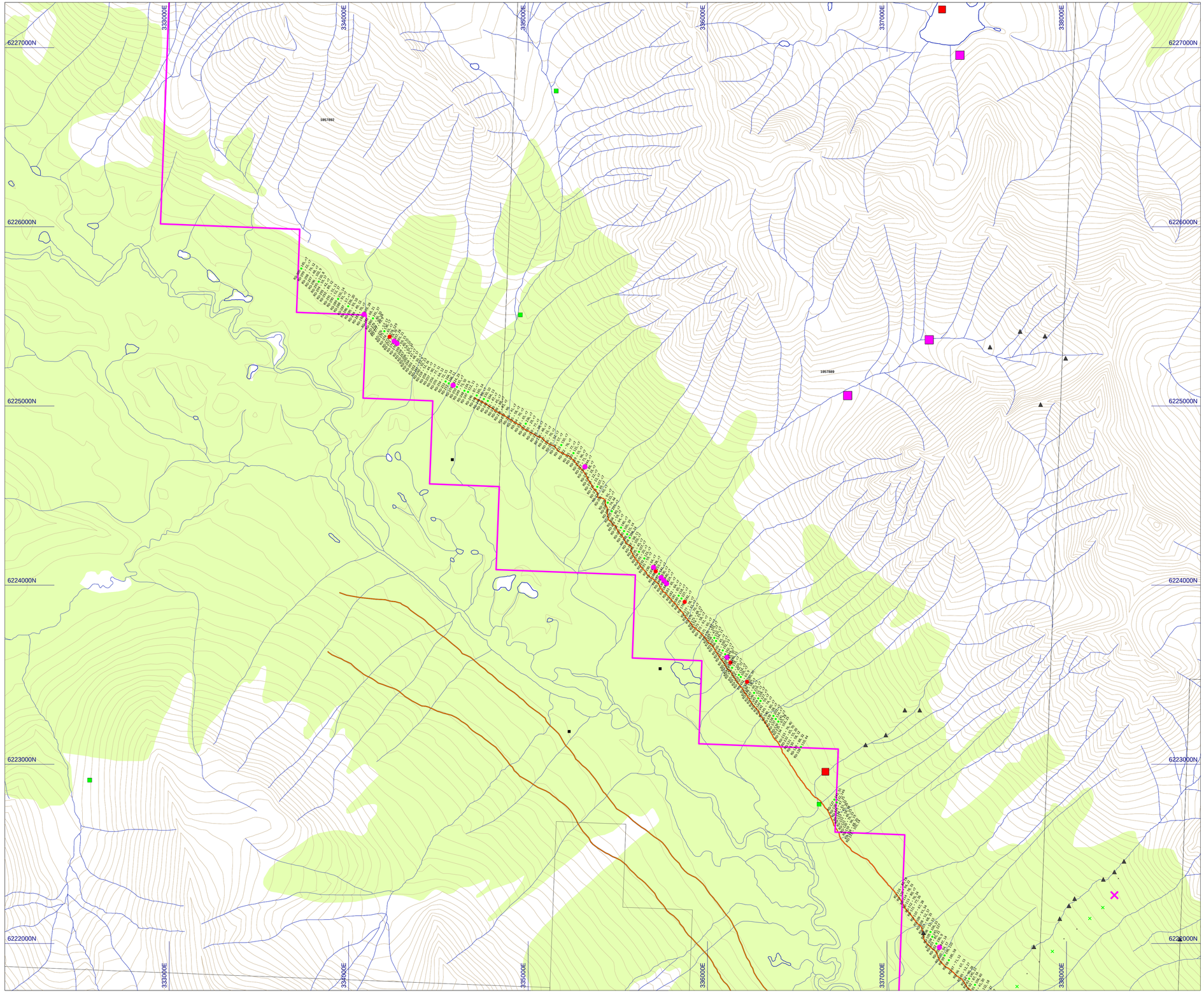
GEOCHEMISTRY PLAN MAP
COPPER & ARSENIC
AREA I - MIDDLE

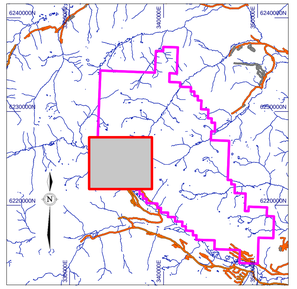
Cathedral Property
Omineca M.D., British Columbia, Canada

Project:	C-122	By:	CN
Scale:	1:10000	Drawn:	CN
Figure No.:	6	Date:	November, 2018

CME

Plot File: Cu colour - Property TRIM-45 v2.PEL





LEGEND

TOPOGRAPHY

- Gravel Road
- Trail
- Contour (20m interval)
- Watercourse
- Waterbody
- Vegetation cover
- Property boundary
- Mineral tenures with numbers (as of November 13, 2018)

Mineral Occurrences

- BC Minfile occurrence with name
- New mineral occurrence with name

GEOCHEMISTRY

Sample Type	Soil Samples	Rock Samples	Silt Samples
2018 Soil Sample with label and Cu (ppm), As (ppm)	< 104 ppm Cu	< 0.1% Cu	< 115 ppm Cu
Historical Soil Sample	104 - 241 ppm Cu	0.1 - 1.0%	115 - 239 ppm Cu
Historical Rock Sample	242 - 310 ppm Cu	0.5 - 1.0%	240 - 299 ppm Cu
Historical Silt Sample	>= 310 ppm Cu	> 1.0% Cu	>= 300 ppm Cu

N

0 200 400 600 800 1000m

NAD83, UTM Zone 10 North
NTS 094C/04, 03

THANE MINERALS INC.

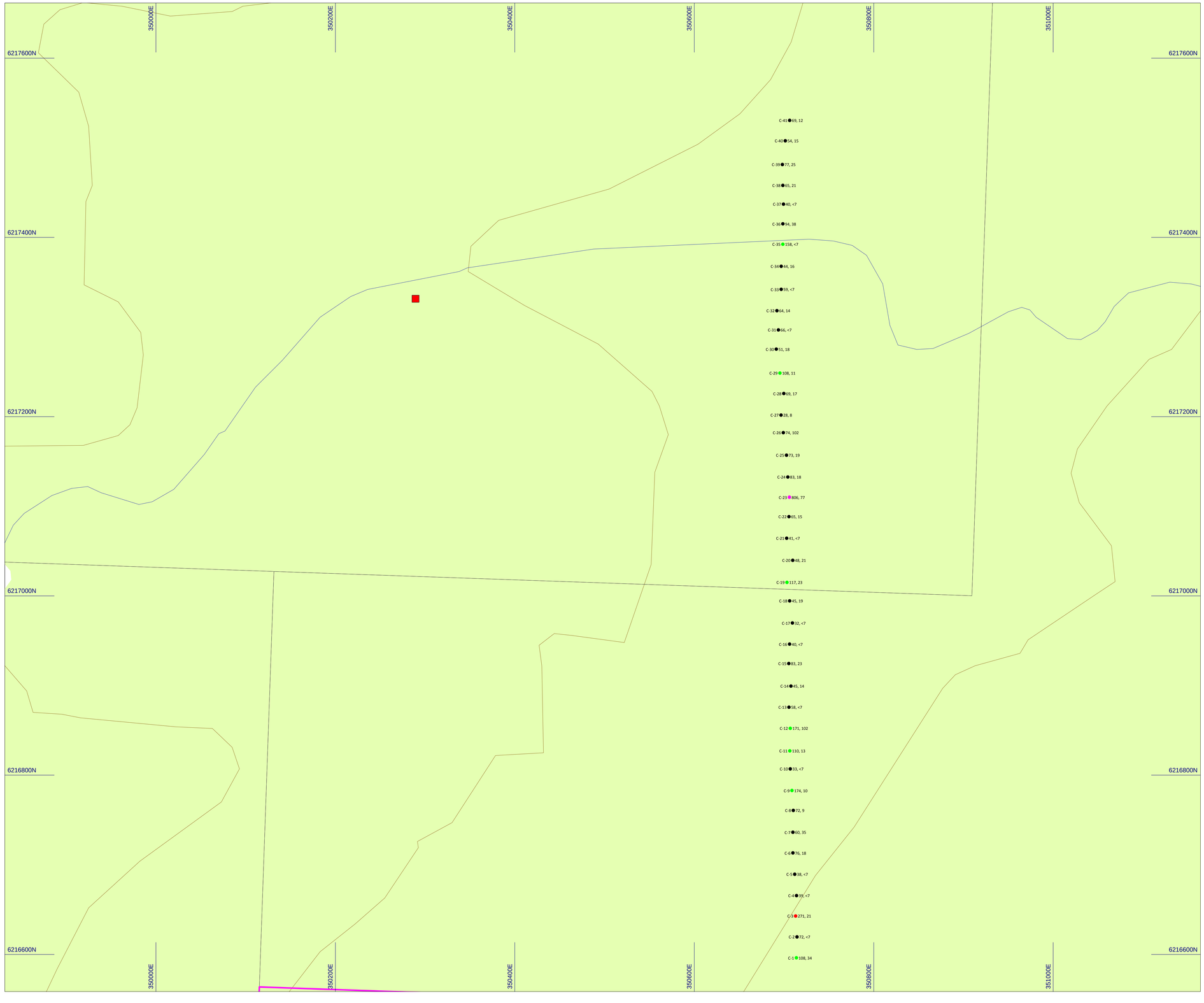
GEOCHEMISTRY PLAN MAP
COPPER & ARSENIC
AREA I - NORTH

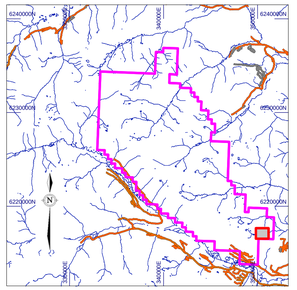
Cathedral Property
Omineca M.D., British Columbia, Canada

Project:	C-122	By:	CN
Scale:	1:10000	Drawn:	CN
Figure No.:	7	Date:	November, 2018

CME

Plot File: Cu-As Property TRIM-30 v2.PEL





LEGEND

TOPOGRAPHY

- Gravel Road
- Trail
- Contour (100m interval)
- Watercourse
- Waterbody
- Vegetation cover
- Property boundary
- Mineral tenures with numbers (as of November 13, 2018)

Mineral Occurrences

- BC Minfile occurrence with name
- New mineral occurrence with name

GEOCHEMISTRY

Sample Type	Soil Samples	Rock Samples	Silt Samples
2018 Soil Sample with label and Cu (ppm), As (ppm)	< 104 ppm Cu	< 0.1% Cu	< 115 ppm Cu
Historical Soil Sample	104 - 241 ppm Cu	0.1 - 1.0%	115 - 239 ppm Cu
Historical Rock Sample	242 - 310 ppm Cu	0.5 - 1.0%	240 - 299 ppm Cu
Historical Silt Sample	>= 310 ppm Cu	> 1.0% Cu	>= 300 ppm Cu

N

0 20 40 60 80 100m

NAD83, UTM Zone 10 North
NTS 094C/04, 03

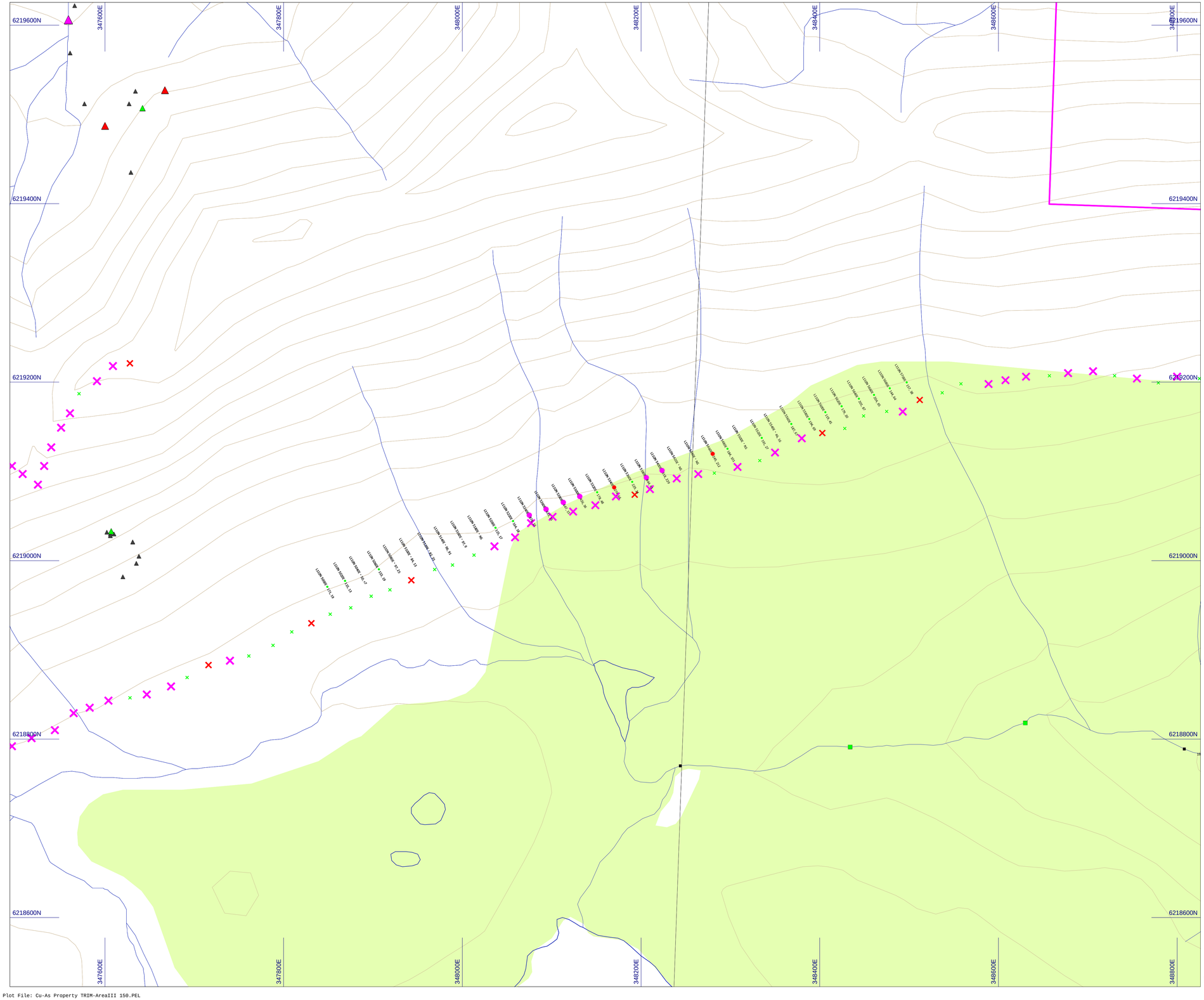
THANE MINERALS INC.

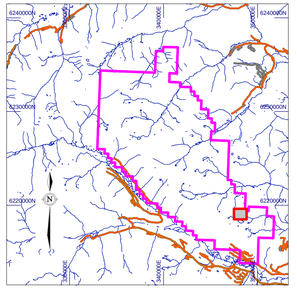
GEOCHEMISTRY PLAN MAP
COPPER & ARSENIC
AREA II

Cathedral Property
Omineca M.D., British Columbia, Canada

Project:	C-122	By:	CN
Scale:	1:2000	Drawn:	CN
Figure No.:	8	Date:	November, 2018

CME





LEGEND

TOPOGRAPHY

- Gravel Road
- Trail
- Contour (20m interval)
- Watercourse
- Waterbody
- Vegetation cover
- Property boundary
- Mineral tenures with numbers (as of November 13, 2018)

Mineral Occurrences

- BC Minfile occurrence with name
- New mineral occurrence with name

GEOCHEMISTRY

Sample Type	Soil Samples	Rock Samples	Silt Samples
2018 Soil Sample with label and Cu (ppm), As (ppm)	< 104 ppm Cu	< 0.1% Cu	< 115 ppm Cu
Historical Soil Sample	104 - 241 ppm Cu	0.1 - 1.0%	115 - 239 ppm Cu
Historical Rock Sample	242 - 310 ppm Cu	0.5 - 1.0%	240 - 299 ppm Cu
Historical Silt Sample	>= 310 ppm Cu	> 1.0% Cu	>= 300 ppm Cu

N

0 20 40 60 80 100m

NAD83, UTM Zone 10 North
NTS 094C/04, 03

THANE MINERALS INC.

GEOCHEMISTRY PLAN MAP COPPER & ARSENIC AREA III

Cathedral Property
Omineca M.D., British Columbia, Canada

Project:	C-122	By:	CN
Scale:	1:2000	Drawn:	CN
Figure No.:	9	Date:	November, 2018

CME

Plot File: Cu-As Property TRIM-AreaIII 150.PEL