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**ASSESSMENT REPORT**

describing

**GEOCHEMICAL SAMPLING AND HAND PITTING**

Fieldwork performed from August 4 to 11, 2016

at the

**MORAINE PROPERTY**

Hooch 1-12	YD07557-YD07568
13-30	YF35513-YF35530
31-254	YF35741-YF35964
Moraine 1-72	YF30621-YF30692

NTS 115A/15 & 115H/02  
Latitude 61°02'N; Longitude 136°65'W

in the

Whitehorse Mining District  
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

**STRATEGIC METALS LTD.**

by

Kelson Willms, B. Sc.

October 2016

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## INTRODUCTION

The Moraine property is located in southwestern Yukon and encompasses the Hooch and Moraine claims. It hosts several geochemical and geophysical anomalies, as well as the Moraine Showing, which comprises copper±gold±silver±molybdenum±tungsten skarn horizons and a nearby auriferous quartz vein. The property is wholly owned by Strategic Metals Ltd.

This report describes geochemical sampling and hand pitting completed between August 4 and August 11, 2016 by Archer, Cathro & Associates (1981) Limited on behalf of Strategic Metals. The author interpreted all results from this work, and his Statement of Qualifications is in Appendix I. A Statement of Expenditures is in Appendix II.

## PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Moraine property comprises 326 contiguous mineral claims, which are located on NTS map sheets 115A/15 and 115H/02 at latitude 61°01' north and longitude 136°38' west (Figure 1). The property covers an area of approximately 6500 ha (65 km<sup>2</sup>). The claims are registered in the name of Archer Cathro, which holds them in trust for Strategic Metals. Specifics concerning claim registration are tabulated below, while the locations of individual claims are shown on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Hooch 1-12	YD07557-YD07568	March 23, 2027
13-30	YF35513-YF35530	March 23, 2025
31-254	YF35741-YF35964	March 23, 2022
Moraine 1-72	YF30621-YF30692	March 23, 2025

\* Expiry dates do not include 2016 work that has not yet been filed for assessment credit

The Moraine property is located 20 km northeast of the junction between the Aishihik Lake Road and the Alaska Highway. Access to the property is generally via helicopter, but an old bulldozer trail extends to the property from Cracker Creek at km 1529 on the Alaska Highway. The Alaska Highway is usable in all seasons by two wheel drive vehicles. The community of Haines Junction, located 60 km southwest of the property, is the closest supply center to the Moraine property.

## HISTORY AND PREVIOUS WORK

The first recorded work at the Moraine Showing was done in 1934 or 1935 when Chief Hutshi Joe and Hutshi Jackson staked the Moosehide claims. Six hand pits, a four metre shaft and four, four metre long open cuts were completed at that time. No results were reported and the claims were allowed to lapse following this work.

The showing was restaked by independent prospectors as the Fox claims in 1947 and the Ox claims in 1954. Work programs from that era comprised only small-scale trenching. No assessment reports were filed for this work.

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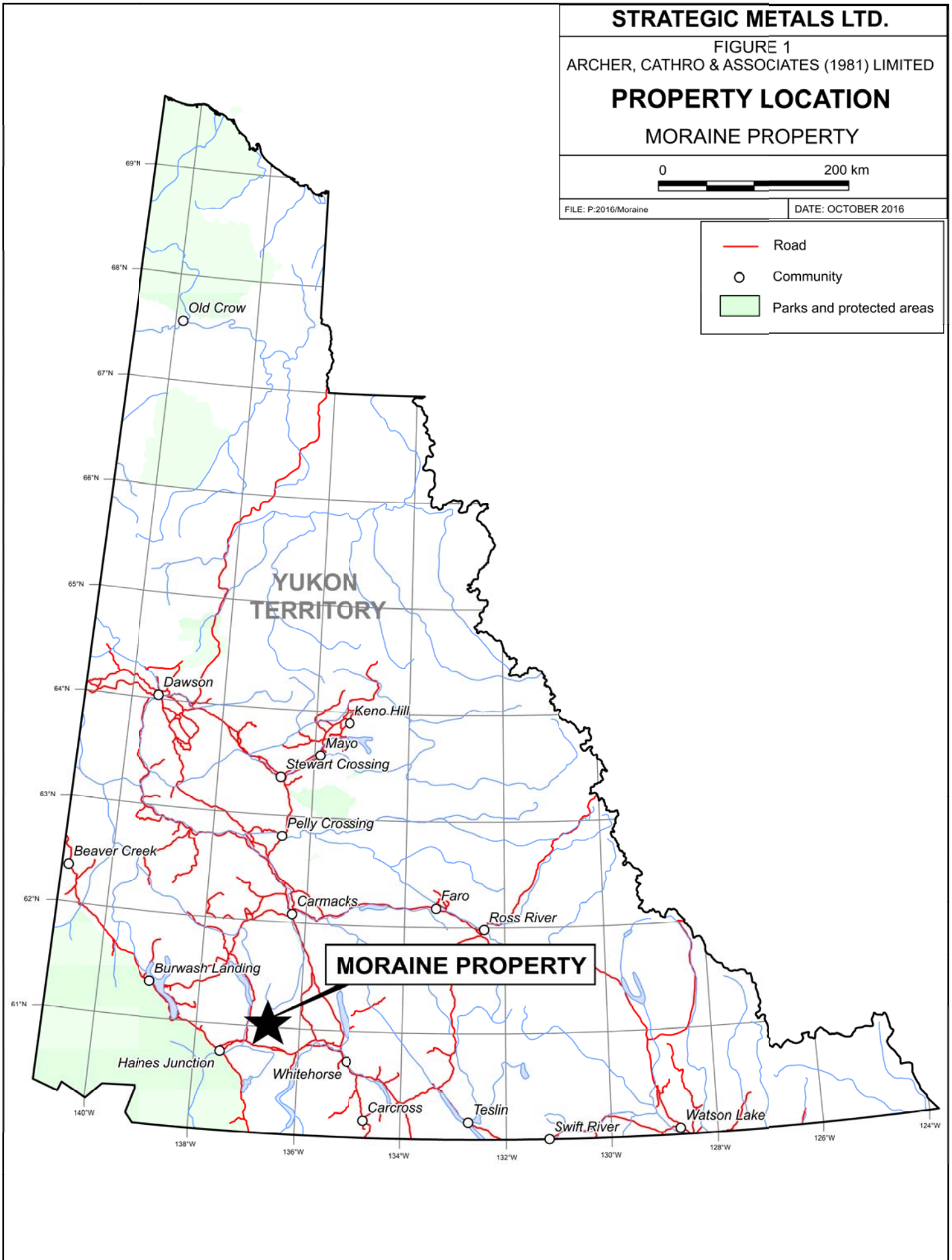
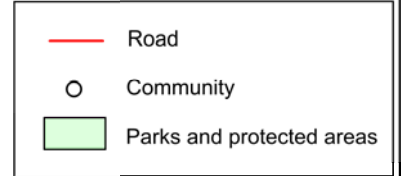
FIGURE 1  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

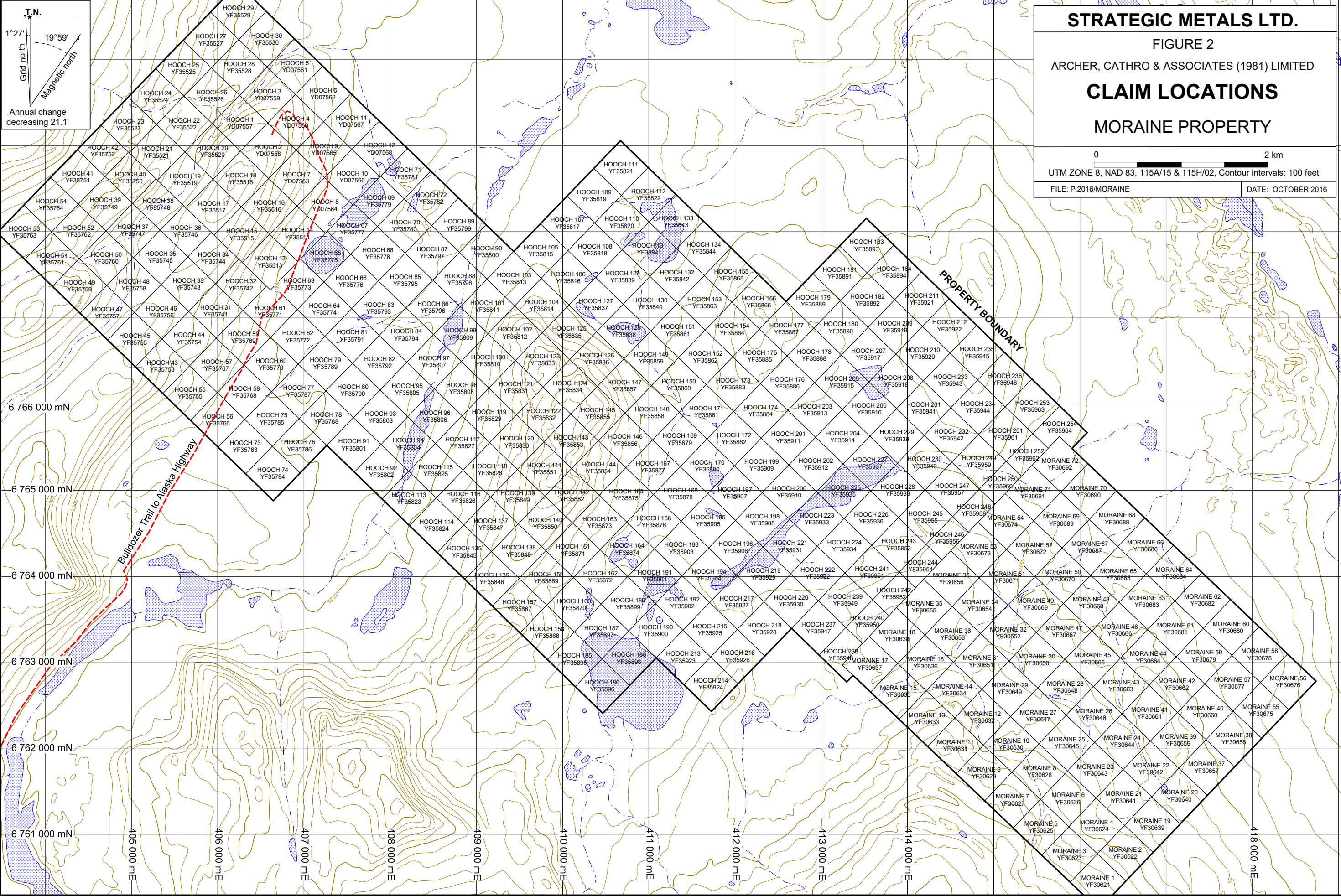
**PROPERTY LOCATION**  
**MORAINE PROPERTY**



FILE: P:2016/Moraine

DATE: OCTOBER 2016





**STRATEGIC METALS LTD.**

FIGURE 2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**CLAIM LOCATIONS**

**MORAINE PROPERTY**

0 2 km

UTM ZONE 8, NAD 83, 115A/15 & 115H/02, Contour intervals: 100 feet

FILE: P:2016/MORAINE

DATE: OCTOBER 2016

6 766 000 mN  
6 765 000 mN  
6 764 000 mN  
6 763 000 mN  
6 762 000 mN  
6 761 000 mN

405 000 mE 406 000 mE 407 000 mE 408 000 mE 409 000 mE 410 000 mE 411 000 mE 412 000 mE 413 000 mE 414 000 mE 418 000 mE

PROPERTY BOUNDARY

Bulldozer Trail to Alaska Highway

MORAINE 1 YF30621  
MORAINE 2 YF30622  
MORAINE 3 YF30623  
MORAINE 4 YF30624  
MORAINE 5 YF30625  
MORAINE 6 YF30626  
MORAINE 7 YF30627  
MORAINE 8 YF30628  
MORAINE 9 YF30629  
MORAINE 10 YF30630  
MORAINE 11 YF30631  
MORAINE 12 YF30632  
MORAINE 13 YF30633  
MORAINE 14 YF30634  
MORAINE 15 YF30635  
MORAINE 16 YF30636  
MORAINE 17 YF30637  
MORAINE 18 YF30638  
MORAINE 19 YF30639  
MORAINE 20 YF30640  
MORAINE 21 YF30641  
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MORAINE 61 YF30681  
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MORAINE 64 YF30684  
MORAINE 65 YF30685  
MORAINE 66 YF30686  
MORAINE 67 YF30687  
MORAINE 68 YF30688  
MORAINE 69 YF30689  
MORAINE 70 YF30690  
MORAINE 71 YF30691  
MORAINE 72 YF30692

In 1961, the showing was restaked by independent prospectors as the Ball claims. Bulldozer trenching was performed that year, and hand trenching was completed between 1964 and 1966. No assessment reports were filed for any of this work.



*View of Moraine Showing outlined in red (facing northwest).*

In 1966, Empress Mines Limited (Atlas Exploration Limited and Nippon Mining Limited) staked the AH claims immediately west of the Ball claims. Minor prospecting was done before the ground was allowed to lapse.

In 1967, the Ball claims were optioned by two prospectors who performed trenching before dropping their option. In 1968, Union Carbide Mining Limited optioned the Ball claims and performed bulldozer trenching, geochemical and magnetic surveys, and mapping. In 1972 and 1975, additional hand trenching was completed by the prospectors who staked the Ball claims. No assessment reports were filed to document any of this work. The Ball claims lapsed following the 1975 trenching.

In 1978, Whitehorse Copper Mines Limited restaked the showing as the Coot claims, and then formed a joint venture with Hudson Bay Exploration and Development Company Limited. Work performed by the joint venture comprised geochemical and magnetic surveys, as well as mapping (Downing, 1979). The magnetic survey identified two parallel magnetic highs that were interpreted to reflect magnetite and pyrrhotite skarn horizons. In 1981, Hudson Bay Exploration performed mapping, geochemical sampling, hand trenching and VLF-EM surveys. Results from this exploration program were not published.

In 1985, the Geological Survey of Canada (GSC) conducted a regional geochemical survey (RGS) consisting of low-density stream sediment and water samples on NTS map sheet 115H (Friske et al., 1985). Four samples were taken from creeks draining the Hooch claims. The results are listed in Table I.



**Table I – RGS Stream Sediment Samples – Open File 1219**

Sample #	Year	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Hg (ppb)	Zn (ppm)
851622	1985	0.5	0.1	1.8	14	38	58
851624	1985	0	0.1	2.3	17	34	48
853070	1985	0.5	0.1	2.5	11	29	33
853071	1985	1	0.1	3	9	31	43

Relative to other samples collected from NTS map sheet 115H, these samples returned an 80<sup>th</sup> percentile value for silver, but less than 50<sup>th</sup> percentile results for gold, arsenic, copper, mercury and zinc.

In 1989, the Moraine Showing was restaked by Aurora Gold Limited. Work performed included a magnetometer survey and geological mapping (Stephen, 1990). Chip sampling across an epidote skarn exposure returned 2.06 g/t gold, 2.48% copper, 56.9 g/t silver, 693 ppm molybdenum and 366 ppm tungsten over 3.4 m. A specimen of rusty, garnetiferous limestone assayed 2.47 g/t gold and 0.17% copper. The magnetic survey identified numerous broad magnetic highs, which were thought to outline magnetite-rich granodiorite, and a narrow linear high, which corresponds to the mapped skarn zone. The most interesting magnetic anomaly was reportedly located east of the known skarn zone in an area with thick overburden and vegetation cover. The claims later lapsed.

In 1993, the GSC conducted a regional geochemical survey consisting of low-density stream sediment and water samples on NTS map sheet 115A (Friske et al., 1994). Two samples were collected from creeks draining the Moraine claims. The results are listed in Table II.

**Table II – RGS Stream Sediment Samples – Open File 2859**

Sample #	Year	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Hg (ppb)	Zn (ppm)
931143	1993	9	0.2	2.1	106	140	21
931144	1993	15	0.4	36	105	78	76

Stream sediment samples taken from creeks draining the Moraine claims returned strongly anomalous values relative to other samples taken from the same map sheet. Silver and copper were in the 99<sup>th</sup> percentile, arsenic and mercury were in the 95<sup>th</sup> percentile and gold was in the 90<sup>th</sup> percentile. Zinc and other elements were below the 80<sup>th</sup> percentile threshold.

In 2009, Strategic Metals staked the Hooch 1 to 30 claims and, in summer 2010, it performed one day of prospecting and soil sampling. Results from this work included a 4.5 m chip sample of skarn that returned 0.391 g/t gold, 10.6 g/t silver, 0.32% copper, 340 ppm molybdenum and 350 ppm tungsten. Soil samples collected from overburden on the floors of old trenches returned strongly anomalous results up to 636 ppb gold (average 50 ppb), 23.6 ppm silver (average 2.25 ppm), 13,350 ppm copper (average 1016 ppm), 170 ppm molybdenum (average 18 ppm) and 1680 ppm tungsten (average 134 ppm). Grid soil sampling in nearby, undisturbed areas yielded much weaker values up to 19 ppb gold, 0.4 ppm silver, 148 ppm copper, 47 ppm molybdenum and 10 ppm tungsten (Smith, 2011).

In July 2011, Bonaparte Resources Inc. optioned the Hooch claims from Strategic Metals. Bonaparte performed a small geochemical sampling program comprising 16 rock and 119 soil samples. Grid soil samples yielded a few moderately anomalous values for gold (up to 27 ppb), silver (up to 1.1 ppm), bismuth (up to 5 ppm), copper (up to 118 ppm) and molybdenum (up to 23 ppm). Values for iron and tungsten were low. Trench floor soil samples yielded some strong to very strong values for gold (up to 205 ppb), silver (up to 10.5 ppm), bismuth (up to 8 ppm), copper (up to 3570 ppm), iron (up to 16.7%), molybdenum (up to 130 ppm), and tungsten (up to 1780 ppm). Rock samples of skarn returned values up to 2.1 g/t gold, 425 g/t silver, 55 ppm bismuth, 7.22% copper, 38.6% iron, 804 ppm molybdenum and 930 ppm tungsten, while a quartz vein sample yielded 13.7 g/t gold, 9.9 g/t silver and 21 ppm bismuth with low copper, molybdenum and tungsten values (Smith, 2011).

In November 2011, Strategic Metals staked the Moraine 1 to 72 claims to cover the probable source area of the anomalous 1993 RGS samples.

In December 2011, Bonaparte contracted Geotech Ltd. of Aurora, Ontario to perform helicopter-borne VTEM and magnetic surveys over the Hooch 1 to 30 claims, Strategic Metals' Moraine 1 to 72 claims and open ground between the claim blocks.

In February 2012, Strategic Metals staked the Hooch 31 to 254 claims to cover the geophysical survey area, thereby connecting the original Hooch and Moraine claim blocks.

In September 2012, Strategic Metals performed a soil and silt geochemical sampling program comprising 561 grid and contour soil samples and 72 silt samples in the southeastern part of the Hooch claim block. Grid soil sampling outlined a 1000 by 1000 m area with elevated silver, arsenic, copper and molybdenum, but low gold and bismuth values. In the northwest corner of the soil grid three isolated moderately to strongly anomalous gold values (up to 263 ppb) were returned; however, these samples lack pathfinder element support. Contour sampling south of the grid highlighted three zones of anomalous soil geochemistry. The first is an isolated very strongly anomalous gold (368 ppb) value near the southern property boundary. The second is a gold (29 ppb) and arsenic (21.5 ppm) anomaly that is also situated near the southern property boundary, and the third is a copper (253 ppm) and arsenic (82.8 ppm) anomaly located about 800 m south of the soil grid (Montague, 2013).

In January 2013, Bonaparte dropped its option on the Hooch claims.

In June 2013, Strategic Metals performed a geochemical sampling, prospecting and geological mapping program in the southeastern and central parts of the property. A total of 31 rock samples were collected, but they returned low results for all elements of interest. A total of 952 soil samples were also collected, mostly from two grids. The grid in the central part of the property returned elevated values for gold, arsenic and copper, which collectively outlined a linear northwest-trending anomaly located near the top of a knoll. The orientation of the anomaly appears to parallel foliation in nearby Snowcap Assemblage mica schist. In the southeast part of the property, six strongly anomalous gold-in-soil point values (up to 356 ppb) were returned from the second grid, including one noteworthy sample (248 ppb gold) taken from the bottom of a two metre deep soil pit. A number of the moderately to strongly anomalous

gold-in-soil results from this grid coincide with a northeast-trending creek, while six highly anomalous copper values (up to 313 ppm) are clustered in the east-central part of the grid (Flavelle, 2013).

In August 2015, Strategic Metals collected 656 soil samples and nine rock samples from the northwestern, central and southeastern parts of the property. This sampling yielded encouraging results for gold, copper and molybdenum from each of the three areas. Peak values were 765 ppb gold, 175 ppm copper and 28 ppm molybdenum. Auger soil sampling beneath the floors of historical trenches at the Moraine Showing also returned significant results, with values up to 636 ppb gold, 13,350 ppm copper and 170 ppm molybdenum. The best result from 2015 rock sampling was from a specimen of oxidized skarn within a historical trench, returning 0.771 g/t gold, 29.0 g/t silver, 3.72% copper and 780 ppm tungsten (Mitchell, 2015).

### **GEOMORPHOLOGY**

The Moraine property is located at the southeastern end of the Ruby Range within the Kluane Plateau. It is drained by creeks that flow into the Nordenskiöld River, part of the Yukon River watershed. Elevations on the property range from 950 to 1750 m above sea level (asl), and tree line is approximately 1500 m asl. The property is forested by spruce, willow and birch with an understory of buck brush, moss and lichen. Alpine areas are characterized by grasses and moss. Outcrop is locally abundant on glacially scoured knolls.

This part of Yukon was glaciated during the Late Pleistocene (26,000 to 10,000 years ago) McConnell glaciation. Glacial features commonly include glacial lakes, drumlins, and moraines. In the Moraine area, the ice sheet generally moved in a northwesterly direction; however, local meltwater channels flowed northeasterly.

The climate in the Moraine area is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. The property is mostly snow free from late May to late September.

### **REGIONAL GEOLOGY**

In 1973, the GSC published a geological map of the Aishihik Lake area (NTS map sheet 115H) at 1:250,000 scale (Tempelman-Kluit, 1974) and in 1992, it published a geological map of the Dezadeash area (NTS map sheet 115A) at 1:250,000 scale (Dodds, 1992). Gordey and Makepeace (2003) later completed a Yukon-wide geological compilation, which updated the main lithological unit names. In summer 2016, S. Israel of the Yukon Geological Survey (YGS) performed 1:50,000 scale mapping in the Moraine property area as part of a larger regional mapping project. This regional work is focusing on the metallogeny of the Dawson Range Gold Belt, and specifically on mineralization related to Late Cretaceous intrusive activity. The 1:50,000 map should be published by spring of 2017.

The Moraine property is located within the Yukon-Tanana Terrane (YTT) as shown on Figure 3. The YTT represents a continental arc that developed along the ancient Pacific margin of North

# STRATEGIC METALS LTD.

FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

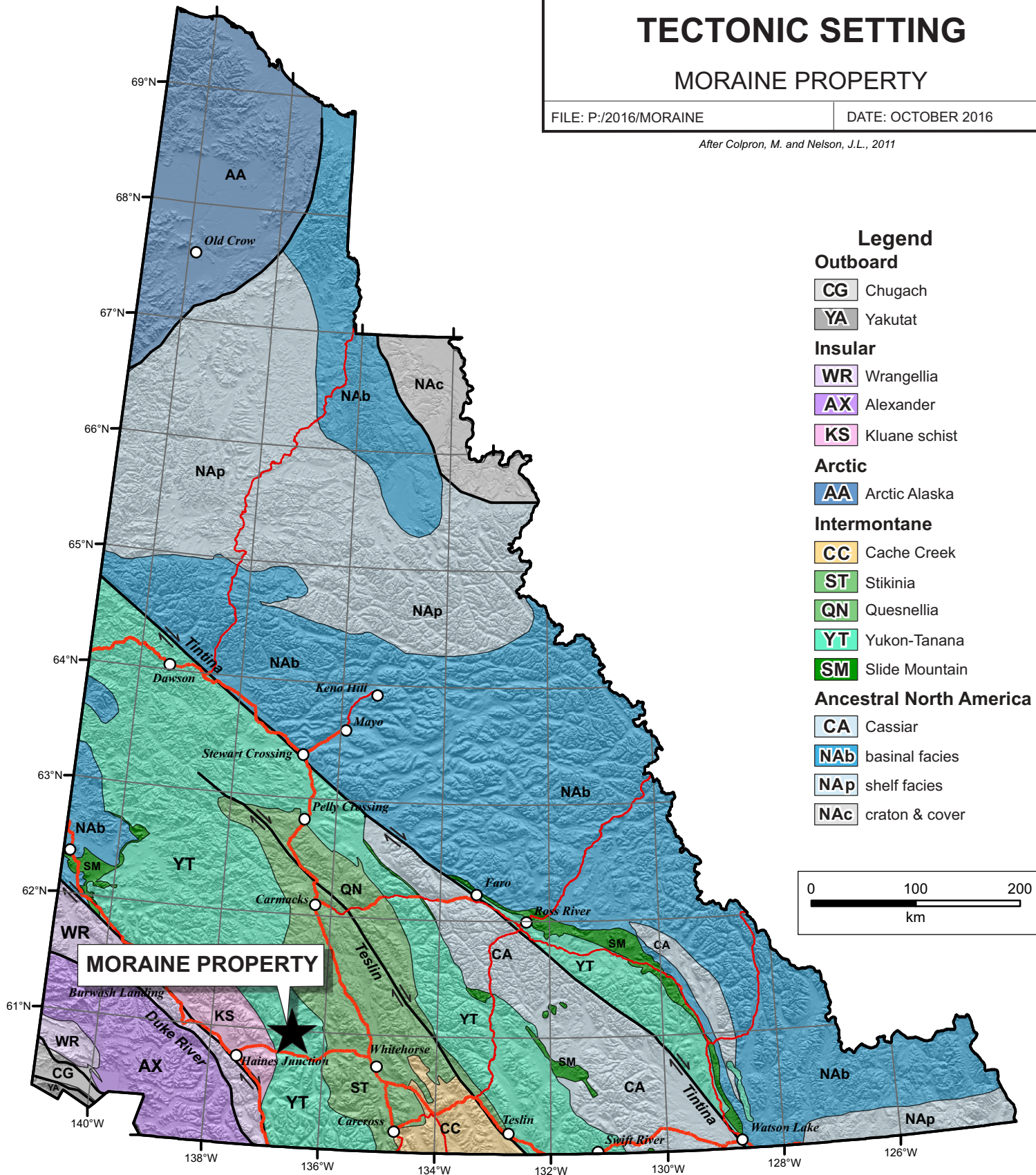
## TECTONIC SETTING

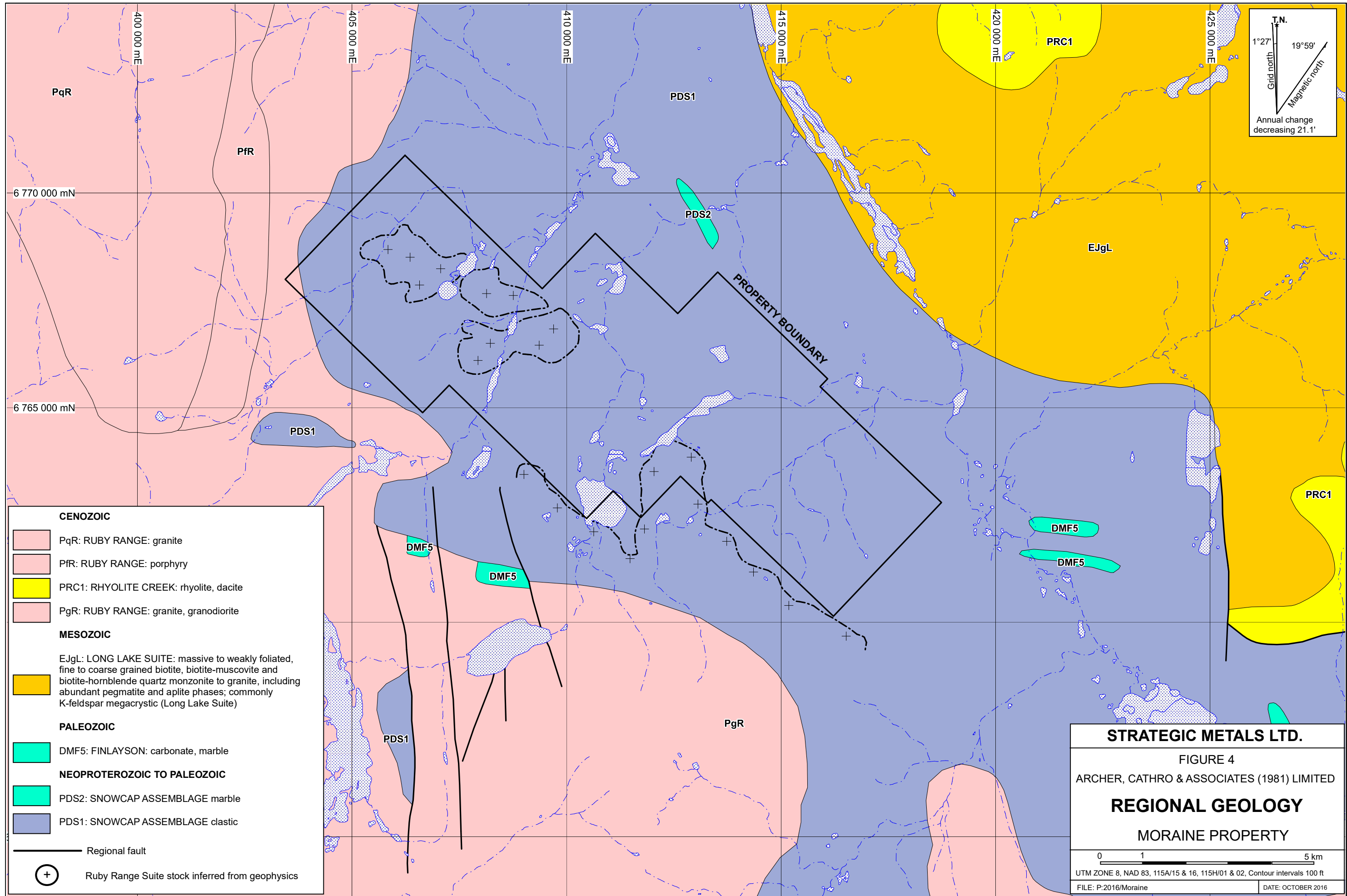
### MORaine PROPERTY

FILE: P:/2016/MORaine

DATE: OCTOBER 2016

After Colpron, M. and Nelson, J.L., 2011





America from Late Devonian to Permian. Figure 4 illustrates regional geology as presented by YGS (2013). The main lithological units are described in Table III.

**Table III – Regional Stratigraphic Units**

Unit Name	Age	Map Name	Description
Quaternary	Quaternary	Q	Unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, gravel and local volcanic ash, in part with cover of soil and organic deposits.
Ruby Range Suite	Early Tertiary	ETgN	Biotite-hornblende granodiorite (locally K-feldspar megacrysts), quartz monzonite, quartz diorite; minor granodiorite gneiss; hornblende and biotite-hornblende diorite; biotite-quartz-feldspar porphyry and porphyritic biotite-quartz monzonite.
		EtqN	Leucocratic biotite granites.
Skukum Group	Lower Eocene	IES1	Flow banded rhyolite and andesite flows and breccia, tuff, pyroclastic and epiclastic rocks, granite conglomerate; rhyolite feldspar porphyry domes, plugs and laccoliths; feldspar ± hornblende ± quartz-phyric felsite dykes and plugs.
Aishihik Suite	Early Jurassic	EjgA	Medium to coarse grained, foliated biotite-hornblende granodiorite; biotite rich screens and gneiss schlieren; foliated hornblende diorite to monzodiorite with local K-feldspar megacrysts.
Snowcap Assemblage	Late Proterozoic and Paleozoic	PDS1	Dark grey to brown, biotite-muscovite-quartz-feldspar schist, quartzite and micaceous quartzite, garnetiferous; felsic chlorite-biotite orthogneiss; rare amphibolite; minor (?) two-mica gneiss and hornblende-diorite gneiss.
		PDS2	Bleached white-weathering, white to grey, coarsely crystalline, flow banded, fetid marble; graphite, chert, metabasite and calc-silicate lamina are common.

Based on the current regional-scale mapping, the Moraine property area is mostly underlain by Snowcap Assemblage metasediments. The Snowcap Assemblage forms a north-northwesterly elongated package that extends from southeast of the Moraine property to the southern end of Aishihik Lake. A batholith of Ruby Range Suite is mapped west of the Moraine property. Regional unit contacts are anticipated to change when results of mapping done by YGS in 2016 are released.

North-trending regional faults cut both the Snowcap Assemblage and Ruby Range Suite south of the property.

## PROPERTY GEOLOGY

Quaternary sediments of uncertain thickness blanket much of the south-central and eastern parts of the property, while thinner overburden layers mantle other parts. Detailed geological mapping in areas not covered by Quaternary sediments was completed by Stephen in 1990 and Strategic Metals in 2013. Due to limited outcrop, a combination of geological and geophysical data has been used to create detailed maps of the northwestern (Moraine Showing), central and southeastern parts of the Moraine property. The Moraine Showing has been mapped at 1:2000 scale (Figure 5), while the central and southeastern areas have been mapped at 1:2500 scale (Figures 6 and 7, respectively). Each of these areas are described in the following paragraphs.

### **Moraine Showing**

Detailed mapping of the Moraine Showing was mostly done in historical trenches where bedrock is exposed. Five metasedimentary (Snowcap Assemblage) and three intrusive sub-units (Ruby Range Suite) have been identified near the showing and they are described in the following paragraphs.

Metasedimentary units form a stratigraphic package with northwesterly strikes and dips ranging from 30° and 70° to the northeast (Stephen, 1990). The stratigraphy includes a basal sub-unit composed of quartz-biotite gneiss and minor micaceous schist, which has a mapped thickness of about 250 m. This sub-unit is overlain by a 75 m thick package of quartz-rich gneiss grading to relatively clean quartzite, which is well fractured and generally rusty. The gneiss/quartzite package is conformably overlain by a 50 m thick section of white to grey limestone with thin bands of disseminated garnets. The other two stratigraphic units are skarn horizons (North and South), described later in this section.

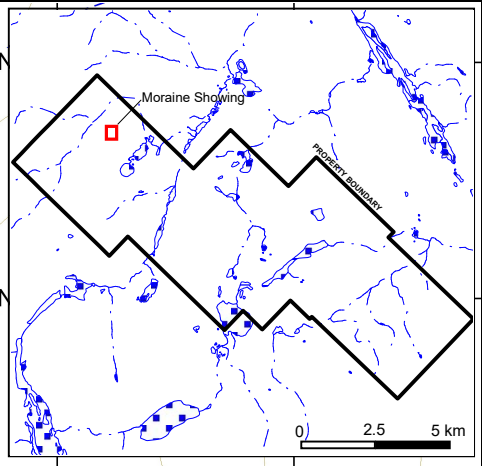
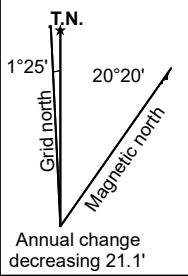
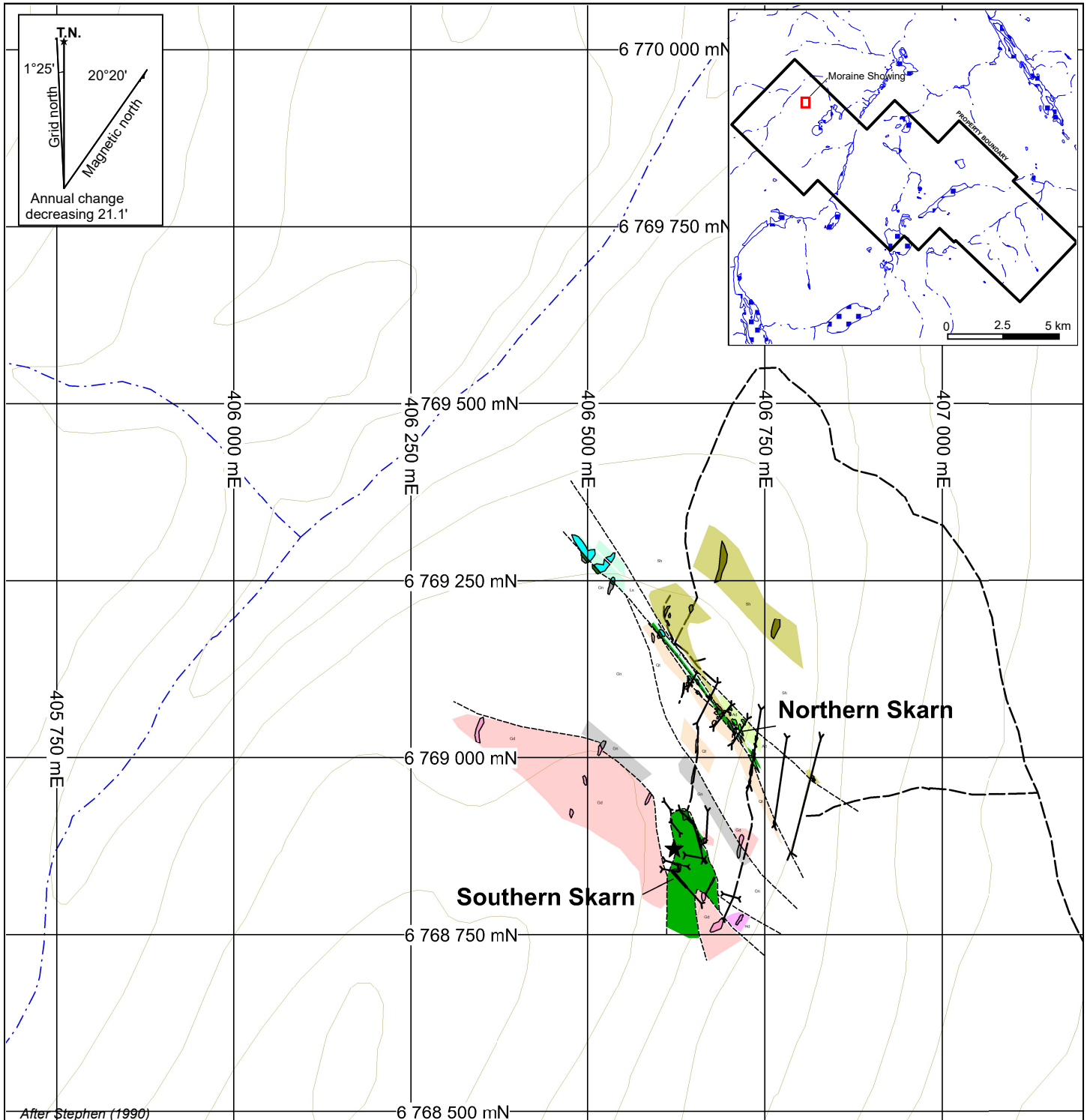
The metasedimentary package has been intruded by granodiorite, hornblende diorite and andesite. The extents of these sub-units are not known and their contacts have been mostly inferred through geophysical interpretation.

Granodiorite is grey to light pink and comprises fine to medium grained feldspar, hornblende, quartz and biotite. It is massive and forms a stock and a dyke, with north-trending, steeply dipping joints. The stock intrudes gneiss in the southwestern part of the Moraine Showing, while the dyke lies within the gneiss near the gneiss-limestone contact.

Hornblende diorite is fine to medium grained with porphyritic hornblende crystals. It lies immediately north of the granodiorite and may be a border phase to the granodiorite stock.

Andesite occurs as massive to fine grained, greenish to dark grey dykes on the edge of the North Skarn. The dykes are slightly fractured and feature minor malachite staining.

The North Skarn horizon is found along the gneiss-limestone contact as discontinuous, calc-silicate altered lenses within limestone. The overlying gneiss locally varies from massive quartz-rich gneiss to highly sheared mica schist. The South Skarn horizon is globular in shape (120 by 70 m) and lies near the granodiorite-gneiss contact. Both skarn horizons contain calcite, epidote,



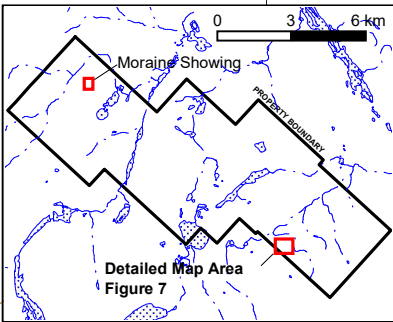
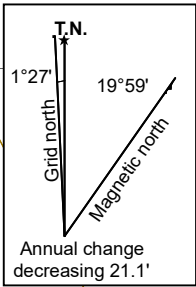
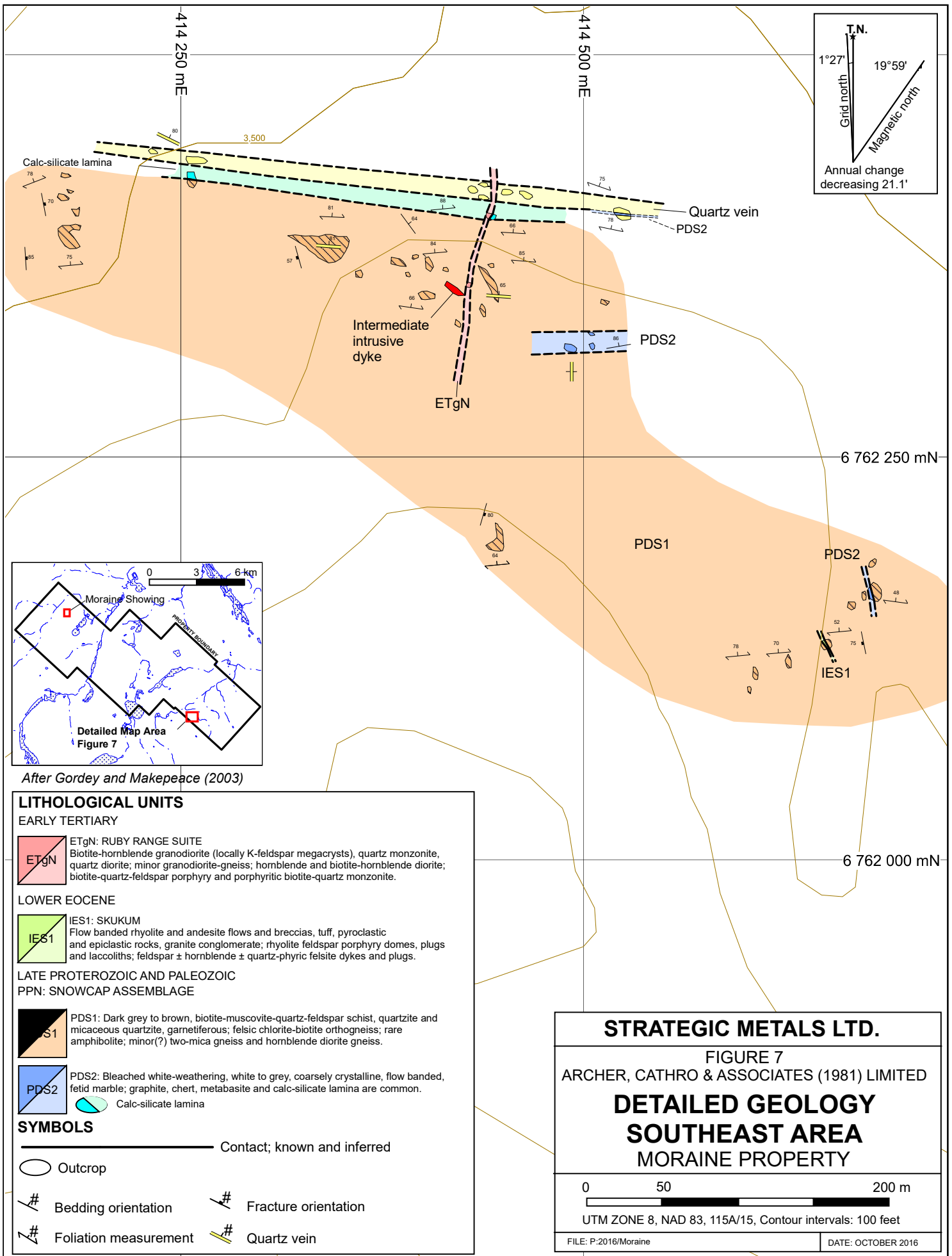
After Stephen (1990)

Inferred contact	Bulldozer trail
Outcrop	
Gold-bearing quartz vein	
Trench	
<b>INTRUSIVES</b>	
Andesite dyke	
Hornblende diorite	
Granodiorite	
<b>METASEDIMENTS</b>	
Micaceous schist & gneiss	
Limestone	
Skarn	
Quartzite	
Gneiss	

**STRATEGIC METALS LTD.**  
 FIGURE 5  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**DETAILED GEOLOGY**  
**MORAINÉ SHOWING**  
**MORAINÉ PROPERTY**

0 50 250 m  
 UTM ZONE 8, NAD 83, 115H/02, Contour intervals: 100 feet  
 FILE: P:2016/Moraine DATE: OCTOBER 2016





After Gordey and Makepeace (2003)

**LITHOLOGICAL UNITS**

**EARLY TERTIARY**

**ETgN: RUBY RANGE SUITE**  
 Biotite-hornblende granodiorite (locally K-feldspar megacrysts), quartz monzonite, quartz diorite; minor granodiorite-gneiss; hornblende and biotite-hornblende diorite; biotite-quartz-feldspar porphyry and porphyritic biotite-quartz monzonite.

**LOWER EOCENE**

**IES1: SKUKUM**  
 Flow banded rhyolite and andesite flows and breccias, tuff, pyroclastic and epiclastic rocks, granite conglomerate; rhyolite feldspar porphyry domes, plugs and laccoliths; feldspar ± hornblende ± quartz-phyric felsite dykes and plugs.

**LATE PROTEROZOIC AND PALEOZOIC**

**PPN: SNOWCAP ASSEMBLAGE**

**PDS1:** Dark grey to brown, biotite-muscovite-quartz-feldspar schist, quartzite and micaceous quartzite, gametiferous; felsic chlorite-biotite orthogneiss; rare amphibolite; minor(?) two-mica gneiss and hornblende diorite gneiss.

**PDS2:** Bleached white-weathering, white to grey, coarsely crystalline, flow banded, fetid marble; graphite, chert, metabasite and calc-silicate lamina are common.

Calc-silicate lamina

**SYMBOLS**

- Contact; known and inferred
- Outcrop
- # Bedding orientation
- # Fracture orientation
- # Foliation measurement
- # Quartz vein

**STRATEGIC METALS LTD.**

**FIGURE 7**

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**DETAILED GEOLOGY**

**SOUTHEAST AREA**

**MORaine PROPERTY**

0 50 200 m

UTM ZONE 8, NAD 83, 115A/15, Contour intervals: 100 feet

FILE: P:2016/Moraine DATE: OCTOBER 2016

actinolite and garnet with variable concentrations of magnetite, pyrrhotite, pyrite, chalcopyrite, molybdenum and molybdo-scheelite.

### **Central Area**

Outcrop in the Central area (Figure 6) is generally confined to a prominent north-trending knoll. This area is mostly underlain by micaceous schist of the Snowcap Assemblage. The schist is interbedded with limestone horizons that vary in thickness from less than 1 m to 15 m. Foliations within the schist strike northwest and dip between 50° and 80° to the northeast. Andesite dykes with variable orientations intrude the metasediments in the central and southern parts of this map area. Minor white quartz veins run sub-parallel to metasedimentary foliation and flank the andesite dykes. A pluton that intrudes the metasedimentary package in the northern part of this map area is itself cut by minor hornblende diorite dykes. A sample of this pluton has been submitted for geochronological age dating by the YGS because it's compositionally different than the Ruby Range Suite in the western part of the property (pers. comm. S. Israel, 2016). If confirmed by age dating, this pluton may mark the southeastern-most extension of Late Cretaceous magmatism in the Dawson Range Gold Belt.

### **Southeast Area**

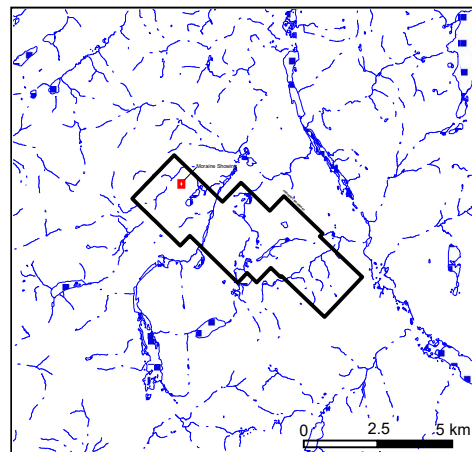
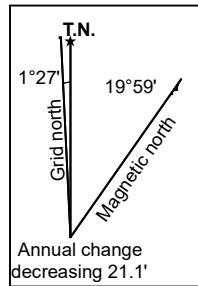
Mapping in this low-lying area was hindered by Quaternary cover and most outcrops within it are near the southern property boundary (Figure 7). Exposures comprise Snowcap Assemblage metasediments that are intruded by andesite and Ruby Range Suite granodiorite dykes.

## **MINERALIZATION**

Both skarn and vein type mineralization have been identified in the northwestern part of the property at the Moraine Showing. No mineralization has been discovered elsewhere on the property. The North and South skarn horizons are variably mineralized with pyrrhotite, chalcopyrite, magnetite and pyrite plus minor molybdenum and molybdo-scheelite (Figure 8).

In 2016, one rock sample was collected from the northwestern part of the property (Figure 9). Rock sample descriptions appear in Appendix III and Certificates of Analysis are provided in Appendix IV. The rock sample was sent to ALS Minerals in North Vancouver where it was crushed to 70% passing 2 mm before a 250 g split was pulverized to 85% passing 70 microns. A split of the pulverized fraction was then dissolved in aqua regia and analyzed for 35 elements using the inductively coupled plasma-atomic emission spectroscopy technique (ME-ICP41). An additional 30 g charge was further analysed for gold by fire assay and inductively coupled plasma-mass spectroscopy finish (Au-ICP21).

The North Skarn has been discontinuously sampled over a 30 by 100 m area. Samples collected in 2011 yielded values up to 0.391 g/t gold, 25.2 g/t silver, 1.06% copper, 38.6% iron, 804 ppm molybdenum and 930 ppm tungsten. The North Skarn is open to the southeast where historical trenches were excavated, but did not reach bedrock. The South Skarn spans a 70 by 120 m area. Skarn samples collected in 2011 returned values up to 2.1 g/t gold, 425 g/t silver, 55 ppm bismuth, 7.22% copper, 37.3% iron, 178 ppm molybdenum and 740 ppm tungsten.



**INTRUSIVES**

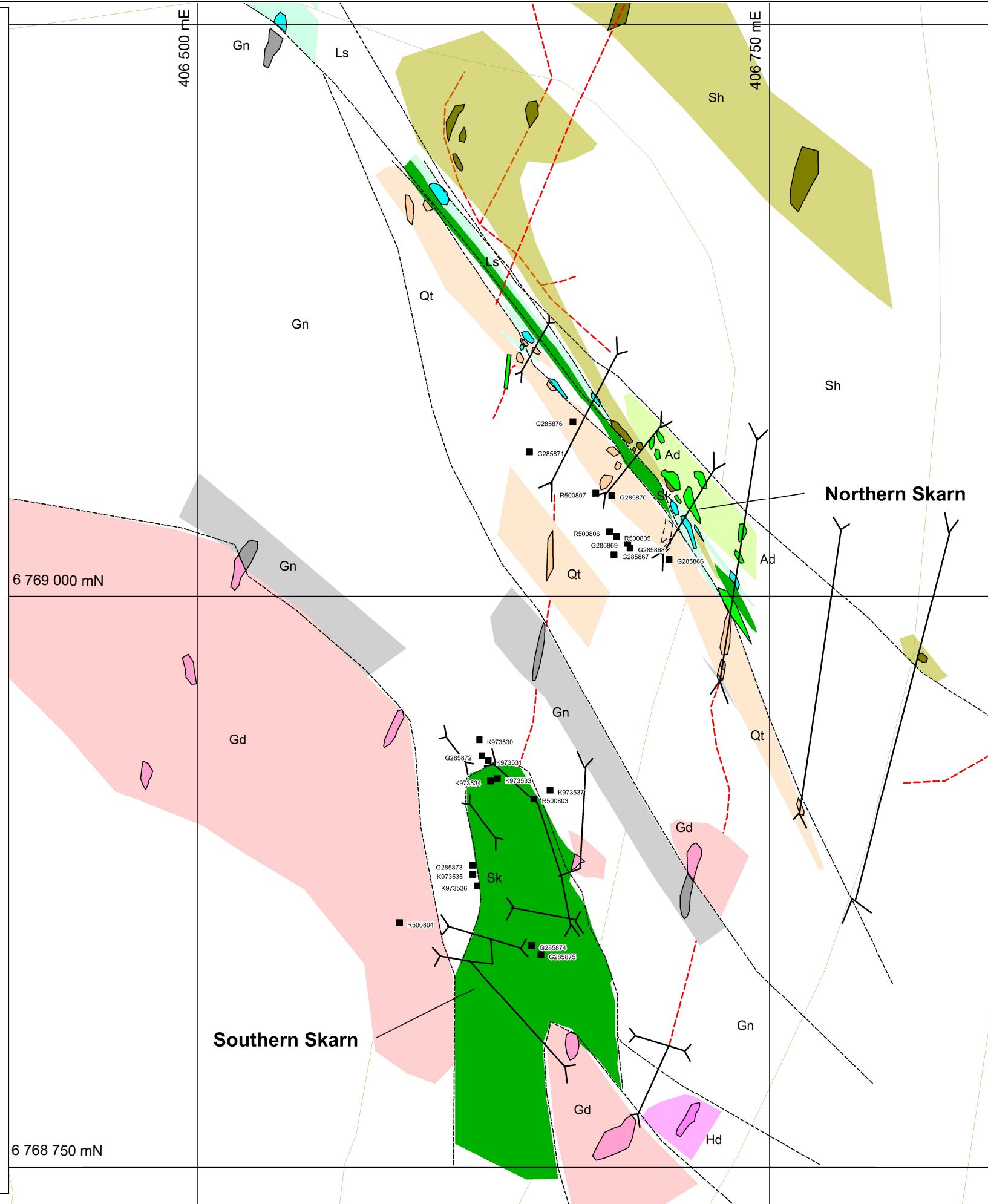
- Ad Andesite dyke
- Hd Hornblende diorite
- Gd Granodiorite

**METASEDIMENTS**

- Sh Micaceous schist & gneiss
- Ls Limestone
- Sk Skarn
- Qt Quartzite
- Gn Gneiss

*After Stephen (1990)*

- Inferred contact
- Outcrop
- Trench
- Bulldozer trail
- Significant rock sample with assay in tables



**Significant 2015 Rock Sample Results**

Rock Type	Sample Number	Sample Type	Au (g/t)	Ag (g/t)	Bi (ppm)	Cu (%)	Fe (%)	Mo (ppm)	W (ppm)
Skarn	R500803	Float	0.001	0.1	1	0.01	4.64	201	1060
Skarn	R500804	Float	0.030	0.3	1	0.02	3.55	3	200
Skarn	R500805	Float	0.037	11.0	1	0.09	7.37	103	160
Skarn	R500806	Float	0.771	29.0	1	3.72	24.7	19	780
Skarn	R500807	Float	0.014	1.1	3	0.26	3.97	120	270

**Significant 2011 Rock Sample Results**

Rock Type	Sample Number	Sample Type	Au (g/t)	Ag (g/t)	Bi (ppm)	Cu (%)	Fe (%)	Mo (ppm)	W (ppm)
Skarn	K973530	Float	0.021	4.5	3	0.14	10.8	81	520
Skarn	K973531	Float	0.020	0.4	1	0.06	10.8	20	730
Skarn	K973532	Float	0.091	118	31	1.02	2.69	36	150
Skarn	K973533	2 Piece Composite	0.178	8.7	30	0.71	34.4	59	140
Skarn	K973534	Float	0.019	4.2	1	0.91	10.5	178	740
Skarn	K973535	Float - Trench	0.087	4.2	3	0.28	13.6	13	310
Quartz Vein	K973536	Float	13.7	9.9	21	0.01	1.80	37	20
Skarn	K973537	Float	2.10	425	44	7.22	37.3	113	50

**Significant 2010 Rock Sample Results**

Rock Type	Sample Number	Sample Type	Au (g/t)	Ag (g/t)	Bi (ppm)	Cu (%)	Fe (%)	Mo (ppm)	W (ppm)
Skarn	G285866	Chip (4.5 m)	0.391	10.6	4	0.32	10.0	340	350
Skarn	G285867	Chip (1 m)	0.810	16.2	4	0.10	16.1	22	930
Skarn	G285869	Grab	0.103	3.0	1	0.24	7.38	258	110
Skarn	G285870	Chip (1.25 m)	0.070	6.7	3	0.17	15.0	804	460
Skarn	G285871	Chip (0.75 m)	0.190	25.2	1	1.06	38.6	37	550
Skarn	G285872	6 Piece Composite	0.310	1.1	2	0.16	6.31	2680	930
Skarn	G285873	Float - Trench	0.160	2.9	2	0.14	8.44	30	1210
Skarn	G285874	Chip (3 m)	0.110	5.5	1	0.68	7.94	3	90
Skarn	G285875	Chip (1.25 m)	0.171	13.5	1	1.98	8.83	30	850
Skarn	G285876	Chip (0.4 m)	0.116	11.0	5	0.38	14.7	465	630

**STRATEGIC METALS LTD.**

FIGURE 8  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**MINERALIZATION**  
 MORAINE PROPERTY

0 50 250 m

UTM ZONE 8, NAD 83, 115H/02, Contour intervals: 100 feet

FILE: P:2016/Moraine DATE: OCTOBER 2016

Rusty, mineralized quartz vein felsenmeer was discovered in 2011 in a shallow trench near the South Skarn. The vein comprised pale grey to white dusty quartz with up to 30% vugs hosting a fine grained disseminated black mineral. A sample from it returned 13.7 g/t gold, 9.9 g/t silver and 21 ppm bismuth with low copper, molybdenum and tungsten values. The vein float was confined to the trench, and no attempt was made to trace it along strike.

Secondary copper minerals, such as malachite, occur on fractures in some sub-units, notably the andesite dykes.

The rock sample collected in 2016 was a piece of rusty metasediment found east-southeast of the Moraine Showing. It returned low values for all metals of interest. The sample description can be found in Appendix III, while the Certificates of Analysis is in Appendix IV.

### **SOIL GEOCHEMISTRY**

During the 2016 field season, 594 soil samples were taken by Strategic Metals Ltd, mostly in the northwestern part of the Moraine property. The 2016 soil program expanded the area of tightly spaced grid coverage. Figure 9 illustrates 2016 soil sample locations in both the northwestern (Moraine Showing) and southeastern parts of the property. Thematic results for gold, silver, arsenic, copper, molybdenum and tungsten for samples collected in 2010, 2011, 2012, 2013, 2015 and 2016 are illustrated on Figures 10 to 15, respectively.

In 2016, soil samples were taken at 50 m spacing on lines 100 m apart. The locations were recorded using hand-held GPS units. Sample sites were marked by aluminum tags with the appropriate sample number affixed to 0.5 m wooden lath. Hand-held soil augers were used to collect samples from holes ranging from 15 to 90 cm in depth, with an average sample depth of 36 cm. Upon collection, samples were placed into individually pre-numbered Kraft paper bags. Samples were sent to ALS Minerals North where they were dried, screened to -180 microns, dissolved in aqua regia and then analyzed for 35 elements using the inductively coupled plasma-atomic emission spectroscopy technique (ME-ICP41). An additional 30 g charge was further analyzed for gold via fire assay, with inductively coupled plasma-atomic emission spectroscopy finish (Au-ICP21). Certificates of Analysis are given in Appendix IV.

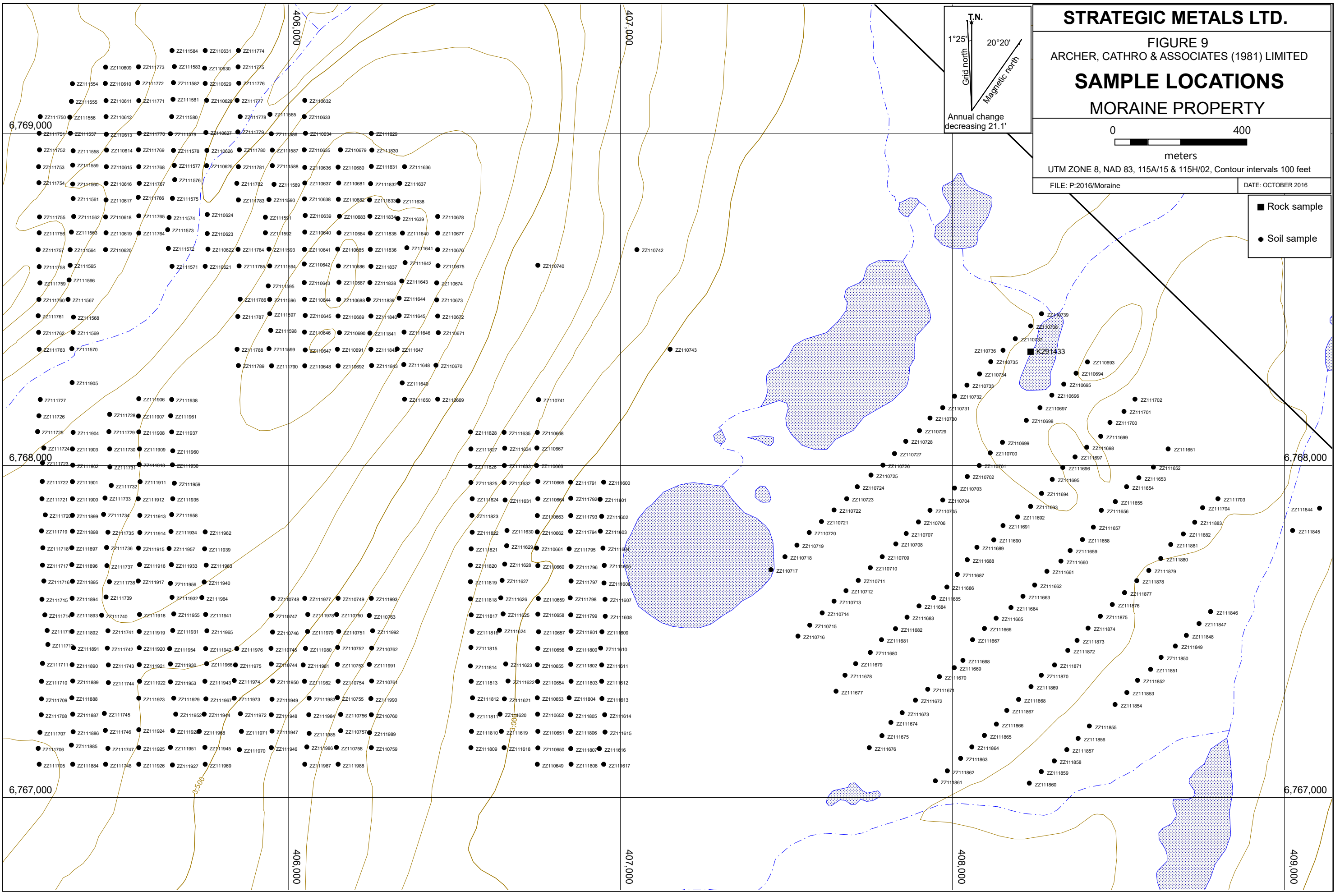
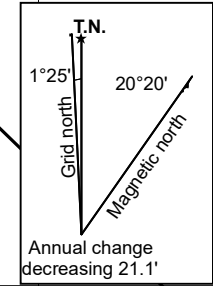
Table IV lists anomalous thresholds, along with near-surface and trench or hand pit peak values used to describe the soil geochemistry results in the following paragraphs.

**STRATEGIC METALS LTD.**

**FIGURE 9**  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**SAMPLE LOCATIONS**  
MORaine PROPERTY

0 400  
meters  
UTM ZONE 8, NAD 83, 115A/15 & 115H/02, Contour intervals 100 feet  
FILE: P:2016/Moraine DATE: OCTOBER 2016

- Rock sample
- Soil sample



**Table IV – Near-Surface Soil Geochemical Thresholds**

<b>Element</b>	<b>Weak</b>	<b>Moderate</b>	<b>Strong</b>	<b>Near-surface peaks</b>	<b>Trench or hand pit peak</b>
Gold (ppb)	$\geq 10 < 20$	$\geq 20 < 50$	$\geq 50$	765	636
Silver (ppm)	$\geq 0.1 < 0.2$	$\geq 0.2 < 0.5$	$\geq 0.5$	10.1	23.6
Copper (ppm)	$\geq 10 < 50$	$\geq 50 < 100$	$\geq 100$	313	13,350
Molybdenum (ppm)	$\geq 5 < 10$	$\geq 10 < 20$	$\geq 20$	28	170
Arsenic (ppm)	$\geq 10 < 20$	$\geq 20 < 50$	$\geq 50$	151	86
Tungsten (ppm)	$\geq 10 < 20$	$\geq 100 < 200$	$\geq 200$	10	1,780

Soil sampling has been conducted in the southeastern, central and northwestern parts of the property. The soil sample results can be divided into anomalies based on clustering of moderate to strongly anomalous values for various elements. The Moraine Showing area contains five distinct anomalies (A to E), while seven other anomalies (F to L) have been outlined elsewhere on the property.

Many of the highest gold results obtained from the property do not fall within the multi-element anomalies described below. These gold results could be highly significant, even though they lack support from other metals.

**Anomaly A** is comprised entirely of samples collected from beneath the floors of historical bulldozer trenches. These samples yielded strong anomalous values for gold (up to 636 ppb), silver (up to 23.6 ppm), copper (up to 13,350 ppm), molybdenum (up to 170 ppm), arsenic (up to 86 ppm) and tungsten (up to 1,780 ppm). Anomaly A straddles the contact zone between a Ruby Range Suite pluton and adjacent skarnified Snowcap Assemblage.

**Anomaly B** lies along the south side of Anomaly A and covers a 2300 by 1100 m area, with a medial 1000 by 500 m core that roughly coincides with the interpreted outline of the Ruby Range Suite pluton. This anomaly features strong molybdenum values within the pluton near its contact with the Snowcap Assemblage. Elevated copper values are offset to the west of the highest molybdenum values. Moderately elevated silver values flank the southwestern edge of the molybdenum anomaly. Weak to moderate gold values are sporadically distributed throughout this anomaly.

**Anomaly C** is a 600 by 500 m area of moderate to strong copper values, which lies north of Anomaly B and west of Anomaly A. It is mostly underlain by Snowcap Assemblage metasediments. The anomaly may mark buried skarn mineralization but could also be due to hydromorphic dispersion of metal from a source beneath Anomaly B.

**Anomaly D** is a 1000 by 300 m area located along the southwestern edge of the 2016 soil sample grid. This target hosts moderate gold and copper values ranging up to 34 ppb and 150 ppm, respectively.

**Anomaly E** is in a small grid situated between the northwestern and central sample grids, in an area with little topographic relief. The anomaly is interpreted to be underlain by a Ruby Range

Suite pluton and comprises a 300 by 100 m zone of coincident copper and molybdenum values. Gold values in this anomaly are highest near the edge and immediately outside of the pluton.

Results from grid soil sampling completed in 2013 and 2015 throughout the central and southeastern parts of the property outlined seven anomalies. The central soil grid contains a single elongated soil target, while the southeastern grid hosts six areas with elevated soil values. Both Quaternary sediments and Snowcap Assemblage metasediments underlie the central and southeastern parts of the property.

**Anomaly F** is a 1700 by 400 m target situated within the central part of the Moraine property. It consists of discontinuously elevated values for gold (up to 65 ppb), copper (up to 115 ppm) and arsenic (up to 74 ppm). The anomaly may be elongated northwesterly down-ice by dispersion from a source on a glacial scoured knoll.

**Anomaly G** is a 1200 by 600 m area located in the southeastern part of the property. This area contains a central cluster of moderate to strong silver (up to 0.8 ppm) and copper (up to 106 ppm) values. Elevated gold values occur sporadically along the perimeter of the silver and copper cluster, with values reaching 356 ppb.

**Anomaly H** is a 300 by 400 m area on the eastern side of Anomaly G. Elevated values include strong copper (up to 313 ppm) and moderate gold (up to 33 ppb) results. The target is situated between two east-west flowing creeks.

**Anomaly I** covers a 1500 by 1000 m area in the east-central part of the southeastern soil grid. Several weakly elevated silver (up to 0.37 ppm) results coincides with broad cluster of moderate to strong copper values (up to 264 ppm). Along the western edge of Anomaly I there are sporadic strong gold values (up to 263 ppb).

**Anomaly J** comprises a 1000 by 200 m linear trend that is defined by a single contour sample line along the eastern edge of the soil grid. This anomaly contains coincident silver and copper values, up to 0.24 ppm and 276 ppm, respectively. Two samples within this target also returned strong molybdenum values up to 29.1 ppm.

**Anomaly K** is a 500 by 300 m tightly sampled area situated along a broad ridgeline. It features weakly elevated copper results with a few moderate to strong gold values (up to 368 ppb).

**Anomaly L** is a 1500 by 450 m west-northwesterly elongated area, located 250 m east of Anomaly K. This anomaly has moderate to strong copper and arsenic response, with values up to 289 ppm and 82.8 ppm, respectively. Gold values within the anomaly are sporadically elevated, with two values of 765 ppb and 129 ppb along the edge of the soil grid.

## GEOPHYSICS

In late 2012, Strategic Metals commissioned Condor Consulting, Inc. to carry out processing and interpretation of VTEM and magnetic survey data obtained by Geotech in 2011. The total magnetic intensity (TMI) response varies dramatically across the Moraine property. The margin of the main magnetic high is irregular and roughly parallels the contact between the Ruby Range Suite granodiorite and the Snowcap Assemblage metasediments. This strong magnetic feature extends from the Moraine Showing to the southeast corner of the property. The North Skarn lies immediately north of this magnetic high and the South Skarn occurs within it. The magnetic signature across the remainder of the property is relatively subdued; however, a second, but weaker northwesterly-trending magnetic high lies along the northern edge of the survey area, close to the property boundary.

Figure 16 illustrates numerous northwesterly-trending linear magnetic features, which were determined using tilted first vertical derivative data. These features have been interpreted by Condor as magnetic dykes or skarns within the metasediments. A series of northwest-trending magnetic lows coincide with intermittent gold, arsenic and copper highs. That coincident anomalies may represent demagnetized alteration zones hosting gold-enriched vein mineralization. The northwest-trending linears are cut by a northeast-trending fault that is inferred by another prominent magnetic low. Elevated gold-in-soil values are clustered at intersections of the two trends. The tilted magnetic data also identified northerly-trending glacial features.

The VTEM data revealed strong northwesterly elongated conductive bodies on the northeastern side of the survey region, but none on the southwestern side (Figure 17). The conductive linears may represent graphite-rich beds within the metasediments. A 1500 by 1000 m, electromagnetic conductor correlates with a topographic high in the centre of the property. Geological mapping of this area in 2013 did not identify the source of the conductor due to limited outcrop exposure. This anomaly was not followed up during the 2015 or 2016 field programs.

## DISCUSSION AND CONCLUSIONS

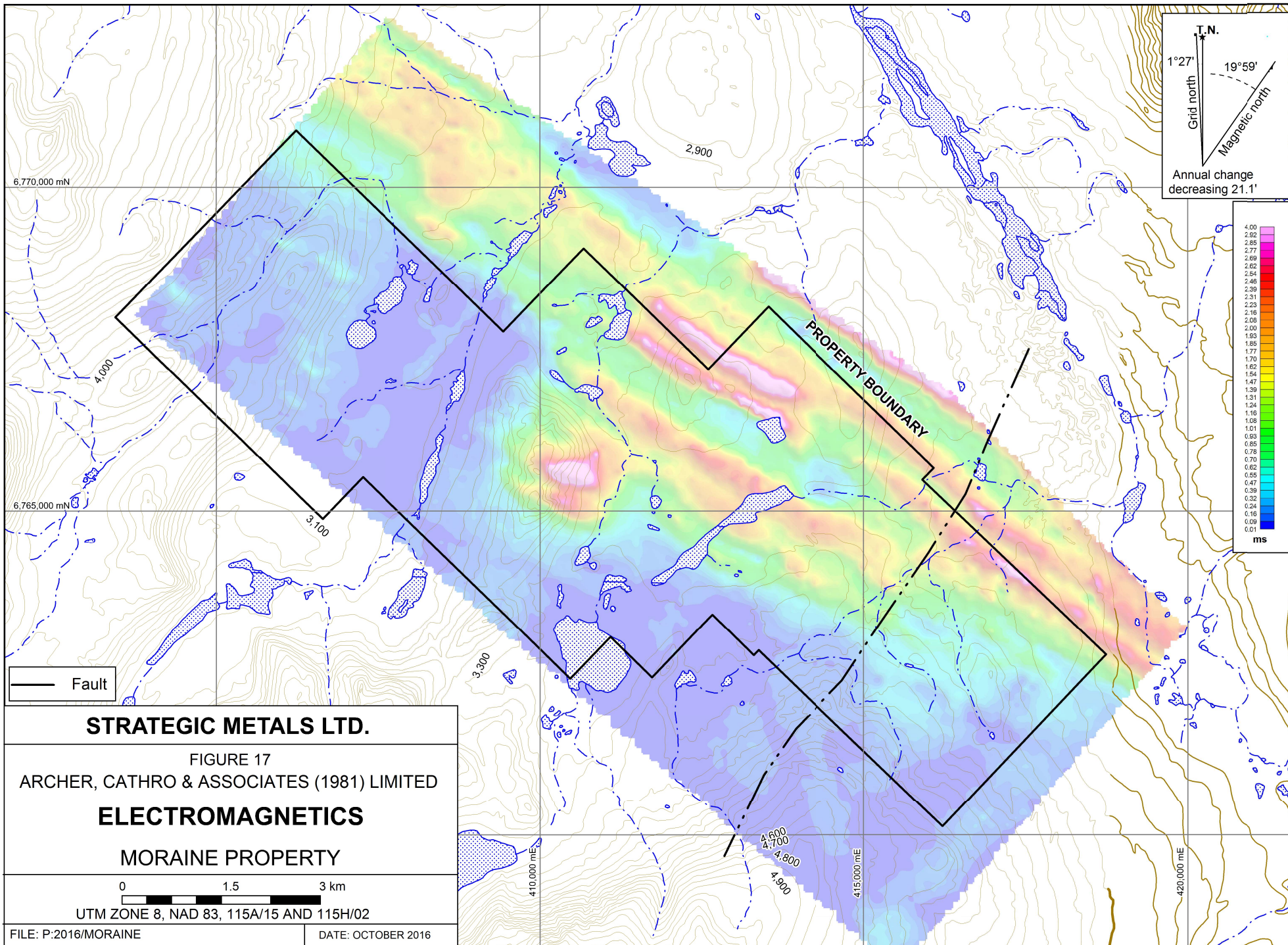
The Moraine property is favourably situated in the southern part of the Dawson Range Gold Belt, about 25 km south-southeast of Strategic Metals' Hopper property where drilling has partially delineated high-grade copper-gold and gold skarn zones flanking a porphyry copper prospect.

Historical trenching and detailed geochemical, geological and geophysical surveys on the Moraine property have identified two copper±gold±silver±molybdenum±tungsten skarn horizons and a gold-rich quartz vein, which collectively comprise the Moraine Showing.

Soil sampling has identified many anomalies that are not explained by known mineralization. Some of these anomalies are open to extension.

Future work in the northwestern part of the property should include: 1) additional closely spaced grid sampling along the northwest and southern sides of the soil grid, where previous soil sampling has identified areas that are open to expansion; and 2) self-propelled rotary air blast



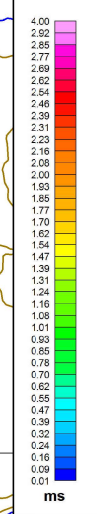


6,770,000 mN

6,765,000 mN

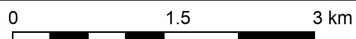
— Fault

T.N.  
 1°27'  
 Grid north  
 19°59'  
 Magnetic north  
 Annual change decreasing 21.1'



**STRATEGIC METALS LTD.**

FIGURE 17  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ELECTROMAGNETICS**  
 MORAINE PROPERTY



UTM ZONE 8, NAD 83, 115A/15 AND 115H/02

FILE: P:2016/MORAINE

DATE: OCTOBER 2016

(RAB) drilling in areas with anomalous soil geochemistry, in order to test for mineralization beneath overburden cover.

Future exploration in the southwestern part of the property should include: 1) additional closely spaced grid sampling southeast of previous soil grids to see if the existing anomalies can be expanded; 2) detailed geomorphological studies to better understand the direction and nature of glacial and glacial-fluvial transportation on the property; and 3) pending encouraging results, self-propelled RAB drilling to determine the sources and styles of mineralization causing soil anomalies.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



K. Willms, B. Sc.

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

## **STATEMENT OF QUALIFICATIONS**

I, Kelson Willms, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 2016 with a B.Sc. in Earth and Environmental Sciences.
2. From 2015 to present, I have been actively engaged in mineral exploration in the Yukon Territory and British Columbia.
3. I have interpreted all data resulting from work described in this report.



K. Willms, B. Sc.

**APPENDIX II**  
**STATEMENT OF EXPENDITURES**

Statement of Expenditures  
Hooch 1-254 and Moraine 1-72 Mineral Claims  
November 15, 2016

Labour

D. Eaton (geologist) 14 hours May to November at \$120/hr	\$ 1,764.00
H. Burrell (geologist) 22 hours May to November at \$106/hr	2,448.60
J. Morton (geologist) 12 hours May to November at \$82/hr	1,033.20
M. Kulla (field assistant) 68 hours May to November at \$51/hr	3,641.40
R. Burke (field assistant) 68 hours May to November at \$49/hr	3,498.60
Q. Willms (field assistant) 76 hours May to November at \$45/hr	3,591.00
W. Schneider (expedite) 1 hour May to November at \$92/hr	96.60
J. Itkin (office) 8.8 hours May to November at \$90/hr	831.60
J. Mariacher (office) 2 hours May to November at \$90/hr	189.00
L. Corbett (expedite) 8 hours May to November at \$81/hr	680.40
L. Smith (office) 29 hours May to November at \$69/hr	2,101.05
S. Newman (office) 40 hours May to November at \$66/hr	2,772.00
K. Willms (office) 26 hours May to November at \$57/hr	<u>1,556.10</u>
	24,203.55

Expenses (including management)

Field room and board – 29 mandays @ \$180/manday	5,898.60
Capital Helicopters – 5.4 hours Bell 206 at \$1,075/hr plus fuel	6,559.65
ALS Chemex	11,491.44
Truck rental and fuel	774.82
Jet A	<u>504.21</u>
	25,228.72
Total	<u>\$49,432.27</u>

595 samples at \$49,432.27= \$83.08/sample



**APPENDIX III**  
**ROCK SAMPLE DESCRIPTIONS**

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**Rock Sample Descriptions**Property: Moraine

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Sample Number: K291433 UTM: 408235 mE Nad83, Zone 8  
Elevation: 722 m UTM: 6768343 mN

Comments: Specimen sample of black to brown weathering, punky quartz breccia through biotite schist(?) wall rock. Live limonite on fx. surfaces and very rare clots of f.g. py.

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**APPENDIX IV**  
**CERTIFICATES OF ANALYSIS**



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com

To: STRATEGIC METALS LTD.  
 C/O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016-510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Plus Appendix Pages  
 Finalized Date: 2-SEP-2016  
 Account: MTT

**CERTIFICATE WH16132831**

Project: Moraine

This report is for 155 Soil samples submitted to our lab in Whitehorse, YT, Canada on 12-AUG-2016.

The following have access to data associated with this certificate:

HEATHER BURRELL	JOAN MARIACHER
-----------------	----------------

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

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

To: STRATEGIC METALS LTD.  
 ATTN: JOAN MARIACHER  
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 1016-510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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

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

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: MTT

Project: Moraine

**CERTIFICATE OF ANALYSIS WH16132831**

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ110609		0.40	<0.001	<0.2	2.06	6	<10	110	<0.5	<2	0.64	<0.5	12	39	20	2.90
ZZ110610		0.50	0.001	<0.2	1.54	7	<10	110	<0.5	<2	1.12	<0.5	11	32	35	2.46
ZZ110611		0.48	0.002	<0.2	1.79	5	<10	120	<0.5	<2	0.90	<0.5	12	38	35	2.67
ZZ110612		0.48	0.006	<0.2	1.38	8	<10	100	<0.5	<2	1.51	<0.5	11	32	186	2.24
ZZ110613		0.38	0.007	<0.2	1.40	6	<10	100	<0.5	<2	1.56	<0.5	9	32	79	2.23
ZZ110614		0.28	0.002	<0.2	1.49	7	<10	140	<0.5	<2	2.05	0.8	11	32	100	2.11
ZZ110615		0.48	0.002	<0.2	1.46	4	<10	100	<0.5	<2	1.10	<0.5	10	34	125	2.24
ZZ110616		0.34	0.005	<0.2	1.66	5	<10	110	<0.5	<2	1.29	<0.5	11	37	168	2.47
ZZ110617		0.44	0.003	<0.2	1.83	5	<10	90	<0.5	<2	0.40	<0.5	9	34	21	2.54
ZZ110618		0.40	0.001	<0.2	2.05	4	<10	150	0.5	<2	0.49	<0.5	19	46	120	2.89
ZZ110619		0.50	0.001	<0.2	1.65	5	<10	130	<0.5	<2	0.47	<0.5	12	34	20	2.49
ZZ110620		0.42	0.018	<0.2	1.89	4	<10	150	<0.5	<2	0.70	<0.5	10	32	19	2.62
ZZ110621		0.54	0.001	<0.2	1.41	3	<10	170	<0.5	<2	1.03	<0.5	9	31	59	2.26
ZZ110622		0.50	0.002	<0.2	1.62	3	<10	160	<0.5	<2	1.42	<0.5	10	36	119	2.45
ZZ110623		0.52	0.011	<0.2	1.55	4	<10	160	<0.5	<2	1.10	<0.5	9	34	38	2.36
ZZ110624		0.42	0.002	<0.2	1.47	4	<10	170	<0.5	2	1.15	<0.5	12	35	52	2.45
ZZ110625		0.34	0.006	<0.2	1.31	4	<10	120	<0.5	<2	1.38	<0.5	9	29	37	2.02
ZZ110626		0.50	0.001	<0.2	1.45	3	<10	180	<0.5	<2	0.69	<0.5	9	26	20	2.37
ZZ110627		0.50	0.003	<0.2	1.42	4	<10	180	<0.5	<2	0.93	<0.5	6	23	48	2.10
ZZ110628		0.40	0.001	<0.2	1.42	4	<10	100	<0.5	<2	1.31	0.6	10	32	61	2.39
ZZ110629		0.50	<0.001	<0.2	1.32	3	<10	80	<0.5	<2	0.64	<0.5	7	28	13	2.10
ZZ110630		0.42	0.008	0.2	1.59	3	<10	120	<0.5	<2	1.48	<0.5	12	32	60	2.36
ZZ110631		0.46	0.003	<0.2	1.48	3	<10	140	<0.5	<2	0.99	<0.5	9	30	22	2.27
ZZ110632		0.50	0.004	<0.2	1.41	5	<10	120	<0.5	<2	0.84	<0.5	8	30	22	2.25
ZZ110633		0.50	0.001	<0.2	1.13	4	<10	110	<0.5	2	0.65	<0.5	7	24	23	1.93
ZZ110634		0.54	0.004	0.2	1.82	5	<10	190	<0.5	<2	0.75	<0.5	13	39	79	2.69
ZZ110635		0.52	0.004	<0.2	1.57	3	<10	150	<0.5	<2	0.85	<0.5	10	35	44	2.45
ZZ110636		0.36	0.006	0.4	1.90	3	<10	260	<0.5	<2	1.13	<0.5	13	40	182	2.71
ZZ110637		0.40	0.003	0.2	2.19	5	<10	240	0.5	<2	0.93	<0.5	14	45	96	2.81
ZZ110638		0.46	0.002	<0.2	1.81	5	<10	150	<0.5	2	0.67	<0.5	12	36	19	2.81
ZZ110639		0.52	0.009	<0.2	1.71	4	<10	180	<0.5	<2	0.77	<0.5	10	43	27	2.72
ZZ110640		0.58	0.004	<0.2	1.58	3	<10	140	<0.5	<2	0.81	<0.5	11	35	42	2.37
ZZ110641		0.42	0.001	<0.2	1.60	3	<10	120	<0.5	<2	0.58	<0.5	10	34	94	2.37
ZZ110642		0.52	0.003	0.2	1.76	4	<10	200	<0.5	<2	0.92	<0.5	13	39	80	2.68
ZZ110643		0.38	0.001	<0.2	1.81	3	<10	140	<0.5	<2	0.59	<0.5	12	40	25	2.70
ZZ110644		0.44	0.006	<0.2	1.91	5	<10	140	<0.5	<2	0.47	<0.5	9	37	32	2.63
ZZ110645		0.54	0.003	<0.2	1.93	5	<10	150	<0.5	<2	0.47	<0.5	10	40	27	2.77
ZZ110646		0.34	<0.001	0.3	2.03	2	<10	350	0.6	<2	0.52	<0.5	16	36	35	2.70
ZZ110647		0.34	0.005	<0.2	1.76	5	<10	110	<0.5	<2	0.76	<0.5	9	35	16	2.64
ZZ110648		0.48	<0.001	<0.2	1.83	6	<10	130	<0.5	<2	0.44	<0.5	10	38	19	2.71



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 Account: MTT

Project: Moraine

**CERTIFICATE OF ANALYSIS WH16132831**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ110609		10	<1	0.25	10	0.74	322	1	0.03	26	300	5	0.01	<2	5	46
ZZ110610		<10	<1	0.19	10	0.63	397	<1	0.03	31	670	6	0.02	<2	4	60
ZZ110611		10	<1	0.26	10	0.77	342	<1	0.04	28	520	4	0.02	<2	5	53
ZZ110612		<10	<1	0.18	10	0.57	324	<1	0.03	46	700	5	0.05	<2	3	84
ZZ110613		<10	1	0.22	10	0.60	289	<1	0.03	26	750	7	0.06	<2	4	89
ZZ110614		10	1	0.18	10	0.59	393	<1	0.03	31	820	6	0.09	<2	3	109
ZZ110615		<10	<1	0.25	10	0.64	262	<1	0.03	35	630	5	0.03	<2	5	60
ZZ110616		<10	<1	0.23	10	0.69	302	1	0.03	34	860	7	0.05	<2	5	75
ZZ110617		10	<1	0.20	10	0.63	242	1	0.02	21	230	4	<0.01	<2	4	28
ZZ110618		10	<1	0.23	10	0.68	865	3	0.03	32	370	6	0.01	<2	6	34
ZZ110619		10	<1	0.25	10	0.64	317	5	0.03	19	350	4	<0.01	<2	5	30
ZZ110620		10	<1	0.16	10	0.76	326	2	0.05	21	580	4	0.01	<2	5	49
ZZ110621		10	<1	0.27	10	0.65	321	3	0.04	17	870	4	0.02	2	5	52
ZZ110622		10	1	0.27	10	0.74	384	1	0.04	25	810	4	0.03	<2	5	62
ZZ110623		10	<1	0.22	10	0.69	451	2	0.04	19	530	2	0.03	<2	5	56
ZZ110624		10	<1	0.24	10	0.72	568	3	0.03	18	800	6	0.03	2	5	57
ZZ110625		<10	<1	0.17	10	0.58	309	<1	0.03	20	680	3	0.05	<2	4	69
ZZ110626		10	<1	0.27	10	0.63	300	1	0.04	15	820	3	<0.01	<2	5	43
ZZ110627		10	<1	0.32	10	0.58	220	<1	0.04	15	820	3	0.03	2	4	57
ZZ110628		10	<1	0.24	10	0.59	328	<1	0.04	32	630	5	0.04	<2	4	77
ZZ110629		<10	<1	0.20	10	0.58	285	<1	0.03	17	470	2	0.01	<2	4	37
ZZ110630		10	<1	0.17	10	0.56	431	<1	0.03	26	450	6	0.05	<2	4	81
ZZ110631		10	<1	0.13	10	0.53	326	1	0.02	16	340	4	0.03	<2	4	54
ZZ110632		10	<1	0.17	10	0.61	354	3	0.04	19	690	3	0.01	<2	5	46
ZZ110633		<10	<1	0.19	10	0.50	314	2	0.03	18	780	6	0.01	<2	4	39
ZZ110634		10	<1	0.26	10	0.79	405	8	0.03	23	530	15	0.02	<2	6	42
ZZ110635		10	<1	0.20	10	0.71	431	5	0.03	21	690	7	0.02	<2	5	46
ZZ110636		10	<1	0.38	10	0.81	618	5	0.04	28	530	90	0.04	<2	6	65
ZZ110637		10	<1	0.26	10	0.81	572	5	0.04	32	490	10	0.02	<2	6	53
ZZ110638		10	<1	0.17	10	0.77	409	10	0.03	20	490	5	0.01	<2	5	39
ZZ110639		10	<1	0.20	10	0.88	387	8	0.03	21	740	11	0.01	<2	6	41
ZZ110640		10	<1	0.25	10	0.68	332	4	0.04	21	440	7	0.01	<2	5	44
ZZ110641		10	<1	0.22	10	0.63	459	4	0.03	20	510	6	0.02	<2	5	32
ZZ110642		10	<1	0.26	10	0.75	520	3	0.04	27	470	12	0.02	<2	5	49
ZZ110643		10	1	0.31	10	0.78	373	4	0.03	23	420	6	0.01	<2	5	35
ZZ110644		10	<1	0.31	10	0.74	256	3	0.03	22	290	9	0.01	<2	5	30
ZZ110645		10	<1	0.21	10	0.75	285	1	0.03	24	260	6	<0.01	<2	5	30
ZZ110646		10	1	0.11	10	0.54	1200	6	0.02	22	460	7	0.01	<2	5	35
ZZ110647		10	1	0.26	10	0.65	265	1	0.02	20	370	6	0.03	<2	4	43
ZZ110648		10	<1	0.19	10	0.75	257	1	0.02	25	220	7	0.02	2	4	31



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 Account: MTT

Project: Moraine

**CERTIFICATE OF ANALYSIS WH16132831**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ110609		<20	0.15	<10	<10	68	<10	52
ZZ110610		<20	0.13	<10	<10	56	<10	51
ZZ110611		<20	0.15	<10	<10	62	<10	54
ZZ110612		<20	0.10	<10	<10	46	<10	56
ZZ110613		<20	0.10	<10	<10	46	<10	81
ZZ110614		<20	0.10	<10	<10	43	<10	118
ZZ110615		<20	0.13	<10	<10	52	<10	49
ZZ110616		<20	0.14	<10	<10	55	<10	91
ZZ110617		<20	0.16	<10	<10	64	<10	55
ZZ110618		<20	0.15	<10	<10	73	<10	59
ZZ110619		<20	0.17	<10	<10	63	<10	54
ZZ110620		<20	0.16	<10	<10	71	<10	51
ZZ110621		<20	0.14	<10	<10	55	<10	49
ZZ110622		<20	0.15	<10	<10	59	<10	58
ZZ110623		<20	0.14	<10	<10	58	<10	45
ZZ110624		<20	0.13	<10	<10	61	<10	48
ZZ110625		<20	0.12	<10	<10	50	<10	48
ZZ110626		<20	0.17	<10	<10	55	<10	48
ZZ110627		<20	0.15	<10	<10	45	<10	48
ZZ110628		<20	0.13	<10	<10	47	<10	110
ZZ110629		<20	0.13	<10	<10	53	<10	39
ZZ110630		<20	0.12	<10	<10	55	<10	44
ZZ110631		<20	0.13	<10	<10	58	<10	42
ZZ110632		<20	0.15	<10	<10	56	<10	40
ZZ110633		<20	0.13	<10	<10	47	<10	42
ZZ110634		<20	0.16	<10	10	68	<10	60
ZZ110635		<20	0.15	<10	10	65	<10	46
ZZ110636		<20	0.15	10	10	65	<10	98
ZZ110637		<20	0.17	<10	10	72	<10	61
ZZ110638		<20	0.18	<10	10	72	<10	53
ZZ110639		<20	0.16	<10	<10	71	<10	50
ZZ110640		<20	0.15	<10	<10	63	<10	41
ZZ110641		<20	0.14	<10	<10	59	<10	43
ZZ110642		<20	0.15	<10	<10	69	<10	58
ZZ110643		<20	0.19	<10	<10	74	<10	45
ZZ110644		<20	0.18	<10	<10	71	<10	43
ZZ110645		<20	0.18	<10	<10	76	<10	43
ZZ110646		<20	0.14	<10	<10	72	<10	58
ZZ110647		<20	0.16	<10	<10	71	<10	54
ZZ110648		<20	0.16	<10	<10	74	<10	44



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**CERTIFICATE OF ANALYSIS WH16132831**

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ110649		0.36	0.001	<0.2	1.63	4	10	130	<0.5	<2	1.63	<0.5	11	35	30	2.49
ZZ110650		0.44	0.001	<0.2	1.54	5	<10	140	<0.5	<2	2.96	<0.5	9	33	34	2.40
ZZ110651		0.44	0.001	<0.2	1.79	4	<10	170	<0.5	<2	3.04	<0.5	10	37	28	2.70
ZZ110652		0.46	<0.001	<0.2	1.67	5	<10	160	<0.5	<2	3.64	<0.5	9	36	22	2.60
ZZ110653		0.48	0.002	<0.2	1.80	5	<10	180	<0.5	2	4.11	<0.5	10	37	28	2.77
ZZ110654		0.50	0.001	<0.2	1.46	2	<10	100	<0.5	<2	1.05	<0.5	10	34	24	2.44
ZZ110655		0.40	<0.001	<0.2	1.73	5	<10	110	<0.5	<2	0.59	<0.5	9	36	18	2.54
ZZ110656		0.50	<0.001	<0.2	1.53	5	<10	90	<0.5	<2	0.60	<0.5	9	35	18	2.51
ZZ110657		0.54	<0.001	<0.2	1.91	6	<10	110	<0.5	<2	0.54	<0.5	11	41	21	2.90
ZZ110658		0.40	0.001	<0.2	1.46	5	<10	130	<0.5	<2	2.64	<0.5	9	31	22	2.31
ZZ110659		0.44	<0.001	<0.2	1.62	5	<10	90	<0.5	<2	0.42	<0.5	10	35	10	2.65
ZZ110660		0.44	<0.001	<0.2	1.75	4	<10	170	0.5	<2	1.32	<0.5	11	35	24	2.61
ZZ110661		0.42	<0.001	<0.2	1.68	5	<10	120	<0.5	<2	0.64	<0.5	10	35	23	2.55
ZZ110662		0.42	0.002	<0.2	1.47	4	<10	100	<0.5	<2	0.52	<0.5	8	30	15	2.31
ZZ110663		0.40	0.002	<0.2	1.54	5	<10	150	<0.5	<2	1.12	<0.5	9	32	61	2.38
ZZ110664		0.44	0.002	<0.2	1.59	5	<10	80	<0.5	<2	0.45	<0.5	10	35	18	2.49
ZZ110665		0.40	<0.001	<0.2	1.66	6	<10	90	<0.5	<2	0.45	<0.5	12	35	17	2.54
ZZ110666		0.44	0.002	<0.2	1.49	3	<10	150	<0.5	<2	0.62	<0.5	10	32	30	2.37
ZZ110667		0.44	<0.001	<0.2	1.53	4	<10	90	<0.5	<2	0.43	<0.5	14	33	17	2.54
ZZ110668		0.34	<0.001	<0.2	1.33	2	<10	90	<0.5	<2	0.33	<0.5	9	28	10	2.15
ZZ110669		0.38	<0.001	0.2	1.61	3	<10	180	<0.5	<2	0.32	0.8	12	32	14	2.51
ZZ110670		0.44	<0.001	<0.2	1.46	3	<10	110	<0.5	<2	0.36	<0.5	9	30	12	2.27
ZZ110671		0.40	0.002	<0.2	1.78	5	<10	90	<0.5	<2	0.38	<0.5	10	37	16	2.63
ZZ110672		0.44	<0.001	<0.2	1.68	3	<10	90	<0.5	<2	0.39	<0.5	9	34	13	2.56
ZZ110673		0.36	0.017	<0.2	1.69	5	<10	80	<0.5	<2	0.40	<0.5	9	35	14	2.69
ZZ110674		0.44	0.038	0.5	1.80	6	<10	160	<0.5	2	0.45	0.6	14	38	49	3.05
ZZ110675		0.40	<0.001	<0.2	1.44	4	<10	110	<0.5	2	0.46	<0.5	8	29	14	2.14
ZZ110676		0.40	0.021	<0.2	1.57	5	<10	70	<0.5	2	0.50	<0.5	8	32	16	2.40
ZZ110677		0.40	<0.001	<0.2	1.62	4	<10	100	<0.5	<2	0.53	<0.5	9	32	17	2.37
ZZ110678		0.36	<0.001	0.4	1.55	5	<10	130	<0.5	<2	0.37	0.7	10	34	22	2.59
ZZ110679		0.50	0.001	<0.2	1.57	4	<10	190	<0.5	<2	0.68	<0.5	10	32	37	2.35
ZZ110680		0.56	0.011	<0.2	1.37	3	<10	160	<0.5	<2	0.64	<0.5	9	30	29	2.12
ZZ110681		0.38	0.001	<0.2	1.58	2	<10	140	<0.5	<2	0.64	<0.5	10	39	73	2.50
ZZ110682		0.46	0.002	0.2	1.45	3	<10	150	<0.5	<2	0.81	<0.5	10	30	77	2.19
ZZ110683		0.42	0.002	<0.2	1.76	3	<10	160	<0.5	<2	0.79	<0.5	11	39	82	2.59
ZZ110684		0.42	0.003	<0.2	1.38	3	<10	150	<0.5	<2	0.72	<0.5	8	28	36	2.05
ZZ110685		0.34	0.004	0.3	1.72	4	<10	160	0.5	<2	0.51	<0.5	13	39	49	2.63
ZZ110686		0.44	0.001	<0.2	2.18	3	<10	140	0.6	<2	0.37	<0.5	12	41	25	3.02
ZZ110687		0.42	0.001	0.2	2.00	5	<10	160	<0.5	<2	0.41	<0.5	11	40	24	2.73
ZZ110688		0.44	0.001	<0.2	1.96	4	<10	170	<0.5	<2	0.53	<0.5	10	42	29	2.75





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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ110649		10	<1	0.28	10	0.75	273	1	0.04	26	820	4	0.09	<2	5	92
ZZ110650		10	<1	0.26	10	0.78	368	1	0.05	26	930	4	0.06	<2	5	127
ZZ110651		10	<1	0.26	10	0.92	415	<1	0.05	25	880	4	0.02	2	6	115
ZZ110652		10	<1	0.26	10	0.89	391	<1	0.06	22	1000	5	0.03	<2	6	129
ZZ110653		10	<1	0.29	10	0.97	441	<1	0.07	24	1010	4	0.03	<2	6	143
ZZ110654		10	<1	0.20	10	0.75	329	1	0.04	22	770	3	0.02	2	5	62
ZZ110655		10	<1	0.18	10	0.67	250	<1	0.04	21	340	5	0.01	<2	5	36
ZZ110656		<10	<1	0.20	10	0.63	250	<1	0.03	21	530	3	<0.01	<2	5	35
ZZ110657		10	<1	0.24	10	0.71	321	<1	0.03	26	590	5	0.01	<2	6	33
ZZ110658		10	<1	0.21	10	0.74	336	<1	0.04	21	790	4	0.02	<2	4	122
ZZ110659		10	<1	0.19	10	0.55	329	1	0.02	18	300	3	<0.01	<2	4	25
ZZ110660		10	<1	0.15	10	0.74	505	1	0.04	23	530	5	0.01	<2	5	72
ZZ110661		10	<1	0.20	10	0.68	278	1	0.04	22	630	4	<0.01	<2	6	41
ZZ110662		10	<1	0.23	10	0.61	243	1	0.04	17	450	3	<0.01	<2	5	36
ZZ110663		10	<1	0.24	10	0.69	247	4	0.03	22	710	6	0.02	<2	5	75
ZZ110664		<10	<1	0.28	10	0.65	249	2	0.03	18	370	3	<0.01	<2	5	29
ZZ110665		10	1	0.27	10	0.60	332	2	0.02	20	350	5	<0.01	<2	5	29
ZZ110666		<10	<1	0.30	10	0.60	446	1	0.03	19	790	5	0.01	2	4	38
ZZ110667		<10	<1	0.38	10	0.58	459	3	0.03	20	400	7	0.01	<2	4	33
ZZ110668		<10	<1	0.19	<10	0.47	313	3	0.02	15	200	7	<0.01	<2	3	20
ZZ110669		10	<1	0.18	10	0.53	580	4	0.02	18	240	8	0.01	<2	4	21
ZZ110670		<10	1	0.19	10	0.55	265	1	0.02	16	330	8	<0.01	<2	4	21
ZZ110671		10	<1	0.21	10	0.69	252	4	0.02	19	410	10	<0.01	<2	4	24
ZZ110672		10	<1	0.23	10	0.63	219	15	0.02	17	360	8	<0.01	<2	4	24
ZZ110673		10	<1	0.30	10	0.74	263	18	0.02	17	290	10	0.01	<2	4	23
ZZ110674		10	1	0.39	10	0.77	589	15	0.02	20	540	23	0.02	<2	5	30
ZZ110675		10	<1	0.16	10	0.58	327	17	0.02	16	280	4	0.01	<2	4	29
ZZ110676		10	<1	0.26	10	0.62	237	9	0.02	16	380	8	0.02	<2	4	30
ZZ110677		10	<1	0.11	10	0.67	306	6	0.03	18	460	4	0.01	<2	4	35
ZZ110678		10	<1	0.20	10	0.60	237	16	0.02	17	270	12	0.02	<2	4	25
ZZ110679		10	<1	0.09	10	0.64	340	4	0.03	20	500	6	0.02	<2	5	40
ZZ110680		10	<1	0.15	10	0.63	303	4	0.03	17	680	5	0.02	<2	4	34
ZZ110681		10	<1	0.33	10	0.75	302	10	0.03	20	260	11	0.02	<2	5	39
ZZ110682		<10	<1	0.14	10	0.59	322	12	0.03	19	550	7	0.03	<2	4	42
ZZ110683		10	<1	0.32	10	0.72	324	10	0.03	21	410	19	0.03	<2	5	43
ZZ110684		<10	<1	0.09	10	0.54	297	16	0.03	17	540	6	0.02	<2	4	39
ZZ110685		10	<1	0.20	10	0.61	298	9	0.03	23	370	12	0.02	<2	4	33
ZZ110686		10	<1	0.20	10	0.74	357	4	0.02	23	210	12	0.01	<2	5	26
ZZ110687		10	<1	0.31	10	0.79	341	3	0.03	23	230	10	0.02	<2	5	28
ZZ110688		10	<1	0.25	10	0.79	302	2	0.03	25	210	8	0.02	<2	6	34



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ110649		<20	0.15	<10	<10	58	<10	53
ZZ110650		<20	0.15	<10	<10	57	<10	49
ZZ110651		<20	0.19	<10	<10	67	<10	54
ZZ110652		<20	0.18	<10	<10	65	<10	52
ZZ110653		<20	0.20	<10	<10	67	<10	59
ZZ110654		<20	0.14	<10	<10	63	<10	45
ZZ110655		<20	0.17	<10	<10	69	<10	38
ZZ110656		<20	0.15	<10	<10	68	<10	40
ZZ110657		<20	0.17	<10	<10	78	<10	42
ZZ110658		<20	0.14	<10	<10	57	<10	50
ZZ110659		<20	0.15	<10	<10	74	<10	38
ZZ110660		<20	0.15	<10	<10	63	<10	45
ZZ110661		<20	0.16	<10	<10	64	<10	44
ZZ110662		<20	0.16	<10	<10	61	<10	34
ZZ110663		<20	0.13	<10	<10	58	<10	52
ZZ110664		<20	0.17	<10	<10	64	<10	39
ZZ110665		<20	0.16	<10	<10	63	<10	64
ZZ110666		<20	0.13	<10	<10	61	<10	53
ZZ110667		<20	0.15	<10	<10	63	<10	47
ZZ110668		<20	0.15	<10	<10	58	<10	43
ZZ110669		<20	0.16	<10	<10	67	<10	94
ZZ110670		<20	0.15	<10	<10	60	<10	63
ZZ110671		<20	0.16	<10	<10	72	<10	55
ZZ110672		<20	0.17	<10	<10	70	<10	51
ZZ110673		<20	0.18	<10	<10	76	<10	48
ZZ110674		<20	0.17	<10	<10	75	<10	88
ZZ110675		<20	0.14	<10	<10	52	<10	40
ZZ110676		<20	0.14	<10	<10	63	<10	41
ZZ110677		<20	0.14	<10	<10	59	<10	45
ZZ110678		<20	0.14	<10	<10	68	<10	81
ZZ110679		<20	0.12	<10	<10	59	<10	42
ZZ110680		<20	0.14	<10	<10	55	<10	42
ZZ110681		<20	0.17	<10	<10	70	<10	49
ZZ110682		<20	0.13	<10	10	56	<10	65
ZZ110683		<20	0.15	<10	<10	68	<10	46
ZZ110684		<20	0.11	<10	10	52	<10	36
ZZ110685		<20	0.14	<10	<10	68	<10	54
ZZ110686		<20	0.18	<10	<10	76	<10	55
ZZ110687		<20	0.18	<10	<10	70	<10	54
ZZ110688		<20	0.18	<10	<10	73	<10	47



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ110689		0.48	0.001	<0.2	1.73	3	<10	190	<0.5	<2	0.49	<0.5	10	34	26	2.42
ZZ110690		0.36	0.008	0.2	1.54	5	<10	180	<0.5	<2	0.47	<0.5	11	32	34	2.37
ZZ110691		0.38	0.001	<0.2	1.75	5	<10	110	<0.5	2	0.47	<0.5	9	35	25	2.56
ZZ110692		0.38	0.001	<0.2	1.47	4	<10	100	<0.5	<2	0.36	<0.5	7	29	16	2.17
ZZ110693		0.40	0.002	<0.2	1.05	2	<10	90	<0.5	<2	3.10	<0.5	6	25	16	1.76
ZZ110694		0.34	0.001	<0.2	1.32	4	<10	90	<0.5	<2	1.52	<0.5	8	30	14	2.14
ZZ110695		0.36	<0.001	<0.2	1.75	5	<10	90	<0.5	<2	0.44	<0.5	12	40	15	2.93
ZZ110696		0.38	<0.001	<0.2	1.70	2	<10	60	<0.5	<2	0.36	<0.5	10	33	12	2.46
ZZ110697		0.38	0.001	<0.2	1.32	4	<10	110	<0.5	<2	0.62	<0.5	8	30	22	2.25
ZZ110698		0.34	0.003	0.2	1.35	3	10	240	<0.5	<2	6.97	0.8	10	28	74	2.06
ZZ110699		0.36	0.002	<0.2	0.36	<2	20	170	<0.5	<2	22.8	<0.5	4	10	35	0.92
ZZ110700		0.36	0.002	<0.2	1.17	2	<10	120	<0.5	<2	4.87	<0.5	7	27	23	1.93
ZZ110701		0.40	0.006	<0.2	1.44	3	<10	80	<0.5	2	0.51	<0.5	7	32	12	2.22
ZZ110702		0.40	<0.001	<0.2	1.45	4	<10	70	<0.5	<2	0.48	<0.5	10	33	10	2.37
ZZ110703		0.42	0.002	<0.2	1.47	4	<10	120	<0.5	<2	2.25	<0.5	8	31	17	2.23
ZZ110704		0.42	<0.001	<0.2	1.50	5	<10	120	<0.5	<2	0.48	<0.5	8	33	12	2.29
ZZ110705		0.40	<0.001	<0.2	1.82	9	<10	110	<0.5	<2	0.40	<0.5	10	40	18	2.57
ZZ110706		0.54	0.001	<0.2	1.40	4	<10	160	<0.5	<2	3.54	<0.5	9	37	25	2.26
ZZ110707		0.50	0.001	<0.2	1.34	3	10	140	<0.5	<2	6.24	<0.5	8	29	22	2.05
ZZ110708		0.48	0.001	<0.2	1.58	4	<10	120	<0.5	<2	1.74	<0.5	9	35	15	2.55
ZZ110709		0.46	0.001	<0.2	1.56	6	<10	150	<0.5	<2	3.17	<0.5	10	34	26	2.48
ZZ110710		0.58	0.002	<0.2	1.52	5	<10	150	<0.5	<2	3.25	<0.5	11	34	27	2.45
ZZ110711		0.42	0.001	<0.2	1.52	4	<10	120	<0.5	<2	0.73	<0.5	8	34	18	2.43
ZZ110712		0.46	<0.001	<0.2	1.29	4	<10	60	<0.5	<2	0.51	<0.5	8	30	13	2.20
ZZ110713		0.52	<0.001	<0.2	1.64	2	<10	100	<0.5	<2	0.53	<0.5	9	36	13	2.57
ZZ110714		0.44	0.016	<0.2	1.45	4	<10	80	<0.5	<2	0.54	<0.5	9	35	22	2.46
ZZ110715		0.48	<0.001	<0.2	1.89	4	<10	70	<0.5	<2	0.53	<0.5	11	48	21	3.54
ZZ110716		0.54	<0.001	<0.2	1.23	2	<10	50	<0.5	<2	0.60	<0.5	8	32	14	2.40
ZZ110717		0.40	0.014	<0.2	0.97	2	<10	50	<0.5	<2	1.89	<0.5	6	25	13	1.81
ZZ110718		0.50	<0.001	<0.2	1.55	4	<10	60	<0.5	<2	0.53	<0.5	10	38	14	2.90
ZZ110719		0.44	<0.001	<0.2	1.86	5	<10	80	<0.5	<2	0.55	<0.5	11	42	24	3.00
ZZ110720		0.44	<0.001	<0.2	1.25	5	<10	140	<0.5	<2	4.61	<0.5	7	27	22	2.06
ZZ110721		0.42	<0.001	<0.2	1.49	5	<10	100	<0.5	<2	0.57	<0.5	8	33	19	2.39
ZZ110722		0.40	0.001	<0.2	1.50	3	<10	130	<0.5	<2	1.05	<0.5	8	34	20	2.32
ZZ110723		0.46	0.001	<0.2	1.56	4	<10	150	<0.5	<2	3.14	<0.5	10	34	25	2.46
ZZ110724		0.44	0.003	<0.2	1.54	4	<10	130	<0.5	<2	2.03	<0.5	7	33	21	2.33
ZZ110725		0.46	0.002	<0.2	1.52	5	10	150	<0.5	<2	3.46	<0.5	8	33	21	2.35
ZZ110726		0.46	0.004	<0.2	1.75	3	<10	190	<0.5	<2	3.31	<0.5	11	38	28	2.76
ZZ110727		0.40	0.005	<0.2	1.56	13	<10	160	<0.5	2	2.88	<0.5	12	39	26	2.65
ZZ110728		0.40	0.003	<0.2	1.63	4	<10	180	<0.5	<2	2.70	<0.5	10	36	26	2.76



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ110689		10	<1	0.12	10	0.67	454	2	0.03	21	540	8	0.01	<2	4	30
ZZ110690		10	<1	0.21	10	0.60	512	2	0.02	18	440	7	0.01	<2	5	29
ZZ110691		10	<1	0.26	10	0.68	280	2	0.02	21	390	8	0.02	<2	5	27
ZZ110692		<10	<1	0.21	10	0.57	215	1	0.02	17	410	4	0.01	<2	4	21
ZZ110693		<10	<1	0.18	10	0.60	257	<1	0.03	16	860	2	0.02	<2	4	75
ZZ110694		10	<1	0.23	10	0.80	270	1	0.04	17	560	2	0.02	<2	5	83
ZZ110695		10	<1	0.21	10	0.60	273	1	0.02	22	340	4	0.01	<2	4	27
ZZ110696		10	<1	0.15	10	0.54	210	1	0.02	20	250	5	0.01	<2	4	22
ZZ110697		<10	<1	0.15	10	0.60	292	<1	0.03	19	540	3	0.01	<2	5	36
ZZ110698		<10	<1	0.13	10	0.67	205	1	0.05	26	1000	5	0.11	<2	3	329
ZZ110699		<10	<1	0.03	<10	0.48	363	5	0.05	12	950	2	0.48	<2	1	1280
ZZ110700		<10	<1	0.17	10	0.67	246	1	0.05	16	810	3	0.04	<2	4	134
ZZ110701		10	<1	0.13	10	0.59	252	1	0.03	16	400	4	0.01	<2	5	30
ZZ110702		<10	<1	0.21	10	0.59	321	1	0.03	16	570	4	0.01	<2	4	28
ZZ110703		<10	<1	0.15	10	0.73	289	1	0.06	18	710	5	0.02	<2	5	80
ZZ110704		<10	<1	0.16	10	0.60	285	1	0.03	17	320	4	0.01	<2	5	32
ZZ110705		10	<1	0.21	10	0.65	225	1	0.03	24	200	5	0.01	<2	5	29
ZZ110706		<10	<1	0.25	10	0.93	368	1	0.06	22	1010	3	0.03	<2	5	130
ZZ110707		<10	<1	0.23	10	1.15	340	1	0.07	19	850	3	0.05	<2	5	336
ZZ110708		10	<1	0.25	10	0.89	264	3	0.05	20	1040	4	0.05	<2	5	80
ZZ110709		10	<1	0.27	10	0.86	427	1	0.06	23	1050	4	0.01	<2	6	99
ZZ110710		10	<1	0.25	10	0.92	426	1	0.06	24	1040	5	0.02	<2	5	104
ZZ110711		10	<1	0.21	10	0.79	378	1	0.04	19	560	5	0.02	<2	5	51
ZZ110712		<10	<1	0.14	10	0.60	290	<1	0.02	19	720	2	0.01	<2	4	29
ZZ110713		10	<1	0.19	10	0.63	391	<1	0.03	21	1000	4	0.01	<2	5	34
ZZ110714		<10	<1	0.17	10	0.63	327	1	0.03	23	690	5	0.01	<2	5	31
ZZ110715		10	<1	0.12	10	0.71	268	<1	0.03	27	530	3	0.01	<2	5	37
ZZ110716		<10	<1	0.12	10	0.60	273	<1	0.02	19	930	3	0.01	<2	4	37
ZZ110717		<10	<1	0.15	10	0.64	227	1	0.03	15	740	3	0.07	<2	3	91
ZZ110718		10	<1	0.12	10	0.62	281	<1	0.02	22	650	4	0.01	<2	5	31
ZZ110719		10	1	0.19	10	0.71	317	<1	0.03	25	500	4	0.01	<2	7	35
ZZ110720		<10	<1	0.15	10	0.64	253	<1	0.03	19	740	3	0.03	<2	4	99
ZZ110721		<10	<1	0.20	10	0.56	233	1	0.03	20	440	5	0.01	<2	5	33
ZZ110722		<10	<1	0.25	10	0.77	261	1	0.04	19	920	3	0.03	<2	5	62
ZZ110723		10	<1	0.25	10	0.94	397	1	0.06	22	910	5	0.02	<2	6	116
ZZ110724		10	<1	0.15	10	0.80	303	1	0.05	20	760	3	0.02	<2	5	83
ZZ110725		10	<1	0.21	10	0.92	328	1	0.07	21	920	4	0.06	<2	5	129
ZZ110726		10	<1	0.24	10	1.01	477	1	0.08	25	1020	5	0.06	<2	6	109
ZZ110727		10	<1	0.25	10	0.95	379	1	0.06	28	960	4	0.03	<2	5	99
ZZ110728		10	<1	0.23	10	0.97	369	1	0.06	23	1080	4	0.04	<2	5	99



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ110689		<20	0.15	<10	<10	64	<10	50
ZZ110690		<20	0.14	<10	<10	60	<10	57
ZZ110691		<20	0.15	<10	<10	66	<10	45
ZZ110692		<20	0.14	<10	<10	56	<10	40
ZZ110693		<20	0.12	<10	<10	48	<10	33
ZZ110694		<20	0.14	<10	<10	59	<10	38
ZZ110695		<20	0.15	<10	<10	80	<10	48
ZZ110696		<20	0.14	<10	<10	65	<10	47
ZZ110697		<20	0.12	<10	<10	58	<10	37
ZZ110698		<20	0.09	<10	<10	53	<10	55
ZZ110699		<20	0.03	<10	20	19	<10	24
ZZ110700		<20	0.12	<10	<10	50	<10	35
ZZ110701		<20	0.14	<10	<10	59	<10	37
ZZ110702		<20	0.14	<10	<10	64	<10	39
ZZ110703		<20	0.14	<10	<10	56	<10	38
ZZ110704		<20	0.15	<10	<10	62	<10	38
ZZ110705		<20	0.16	<10	<10	65	<10	39
ZZ110706		<20	0.16	<10	<10	55	<10	48
ZZ110707		<20	0.14	<10	<10	51	<10	44
ZZ110708		<20	0.16	<10	<10	62	<10	51
ZZ110709		<20	0.17	<10	<10	62	<10	54
ZZ110710		<20	0.16	<10	<10	60	<10	53
ZZ110711		<20	0.14	<10	<10	60	<10	45
ZZ110712		<20	0.12	<10	<10	60	<10	35
ZZ110713		<20	0.14	<10	<10	71	<10	51
ZZ110714		<20	0.14	<10	<10	68	<10	39
ZZ110715		<20	0.16	<10	<10	110	<10	45
ZZ110716		<20	0.12	<10	<10	73	<10	34
ZZ110717		<20	0.11	<10	<10	52	<10	32
ZZ110718		<20	0.13	<10	<10	83	<10	55
ZZ110719		<20	0.16	<10	<10	81	<10	42
ZZ110720		<20	0.11	<10	<10	54	<10	39
ZZ110721		<20	0.13	<10	<10	63	<10	40
ZZ110722		<20	0.16	<10	<10	60	<10	43
ZZ110723		<20	0.17	<10	<10	61	<10	51
ZZ110724		<20	0.16	<10	<10	60	<10	44
ZZ110725		<20	0.16	<10	<10	58	<10	47
ZZ110726		<20	0.20	<10	<10	68	<10	60
ZZ110727		<20	0.16	<10	<10	63	<10	54
ZZ110728		<20	0.18	<10	<10	66	<10	53



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ110729		0.36	0.110	<0.2	1.70	7	<10	120	<0.5	<2	2.12	<0.5	10	35	26	2.45
ZZ110730		0.36	0.002	<0.2	1.58	6	<10	140	<0.5	<2	1.40	<0.5	8	36	33	2.45
ZZ110731		0.44	0.001	<0.2	1.58	5	<10	220	<0.5	<2	2.88	<0.5	10	33	24	2.47
ZZ110732		0.48	0.007	<0.2	1.55	5	<10	140	<0.5	<2	1.88	<0.5	9	33	22	2.37
ZZ110733		0.46	0.001	<0.2	1.73	7	<10	170	<0.5	<2	1.83	<0.5	11	37	25	2.65
ZZ110734		0.32	<0.001	<0.2	1.75	10	<10	110	<0.5	<2	0.65	<0.5	10	39	20	2.76
ZZ110735		0.44	<0.001	<0.2	1.74	4	<10	110	<0.5	<2	0.50	<0.5	11	39	21	2.70
ZZ110736		0.50	<0.001	<0.2	1.54	5	<10	80	<0.5	<2	0.46	<0.5	10	34	12	2.44
ZZ110737		0.48	0.001	<0.2	2.62	3	<10	80	<0.5	<2	1.14	<0.5	14	81	26	3.03
ZZ110738		0.46	0.002	<0.2	1.73	8	<10	80	<0.5	<2	0.44	<0.5	12	39	18	2.67
ZZ110739		0.54	0.001	<0.2	1.79	5	<10	70	<0.5	<2	1.39	<0.5	11	40	16	2.91
ZZ110740		0.52	0.002	<0.2	1.60	4	<10	90	<0.5	<2	0.59	<0.5	11	41	45	2.53
ZZ110741		0.58	0.011	0.5	2.06	5	<10	150	<0.5	<2	0.60	0.5	15	44	52	3.23
ZZ110742		0.52	0.020	0.4	1.75	10	<10	130	0.5	<2	6.78	<0.5	18	29	66	3.77
ZZ110743		0.60	0.015	<0.2	1.61	5	<10	100	<0.5	<2	0.61	<0.5	10	38	43	2.84
ZZ110744		0.20	0.002	0.2	1.43	3	<10	160	<0.5	<2	0.87	<0.5	12	30	24	2.38
ZZ110745		0.32	<0.001	<0.2	1.69	3	<10	100	<0.5	<2	0.57	<0.5	10	36	20	2.53
ZZ110746		0.30	0.002	<0.2	1.73	4	<10	250	0.5	<2	0.85	<0.5	15	32	73	2.48
ZZ110747		0.30	0.005	<0.2	1.77	9	<10	130	0.8	<2	0.88	<0.5	31	32	26	4.13
ZZ110748		0.28	0.001	0.2	1.67	2	<10	120	0.5	<2	0.54	<0.5	15	34	26	2.55
ZZ110749		0.22	0.001	0.2	1.25	<2	<10	110	<0.5	<2	0.39	<0.5	11	26	12	2.13
ZZ110750		0.28	0.008	<0.2	1.55	4	<10	130	<0.5	<2	0.44	<0.5	12	32	34	2.42
ZZ110751		0.22	<0.001	<0.2	1.35	2	<10	100	<0.5	2	0.67	<0.5	10	26	18	2.13
ZZ110752		0.26	<0.001	<0.2	1.41	4	<10	100	<0.5	<2	0.45	<0.5	9	29	11	2.20
ZZ110753		0.26	<0.001	<0.2	1.55	5	<10	90	<0.5	<2	0.42	<0.5	11	33	10	2.44
ZZ110754		0.22	<0.001	<0.2	1.56	3	<10	120	<0.5	<2	0.53	<0.5	11	33	17	2.48
ZZ110755		0.22	<0.001	<0.2	1.57	3	<10	80	<0.5	<2	0.51	<0.5	11	32	14	2.39
ZZ110756		0.34	0.001	<0.2	1.60	4	<10	130	<0.5	<2	3.13	<0.5	10	36	28	2.63
ZZ110757		0.20	<0.001	<0.2	2.18	3	<10	110	<0.5	<2	0.82	<0.5	14	47	30	3.19
ZZ110758		0.28	<0.001	<0.2	1.54	3	<10	90	<0.5	<2	0.66	<0.5	12	31	13	2.45
ZZ110759		0.26	0.001	<0.2	1.22	2	10	220	<0.5	<2	5.37	<0.5	13	26	52	1.89
ZZ110760		0.18	<0.001	<0.2	1.63	2	<10	130	<0.5	3	0.94	<0.5	12	33	34	2.67
ZZ110761		0.20	0.002	0.2	1.22	3	<10	130	<0.5	<2	0.58	<0.5	10	25	29	1.93
ZZ110762		0.24	0.002	<0.2	1.37	2	<10	100	<0.5	<2	0.50	<0.5	13	30	25	2.33
ZZ110763		0.22	0.005	<0.2	1.11	<2	<10	120	<0.5	<2	0.54	<0.5	9	25	16	1.86



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ110729		10	<1	0.15	10	0.80	308	2	0.05	23	760	6	0.04	<2	5	81
ZZ110730		<10	<1	0.13	10	0.79	274	<1	0.05	22	720	3	0.02	<2	6	82
ZZ110731		10	<1	0.25	10	0.89	398	1	0.07	23	970	5	0.05	<2	5	132
ZZ110732		10	<1	0.19	10	0.80	356	1	0.06	20	660	4	0.05	<2	5	83
ZZ110733		10	<1	0.25	10	0.98	335	1	0.06	24	570	5	0.04	<2	6	137
ZZ110734		10	<1	0.30	10	0.76	250	2	0.04	24	350	7	0.03	<2	5	61
ZZ110735		10	<1	0.35	10	0.61	301	<1	0.03	22	450	5	0.01	<2	7	34
ZZ110736		10	<1	0.21	10	0.59	285	1	0.02	19	470	4	0.01	<2	5	31
ZZ110737		10	<1	0.17	10	1.27	335	<1	0.06	49	680	4	0.01	<2	7	69
ZZ110738		10	<1	0.18	10	0.65	196	1	0.03	27	290	9	0.02	<2	4	28
ZZ110739		10	<1	0.24	10	0.78	250	1	0.03	22	250	5	0.04	<2	5	90
ZZ110740		10	<1	0.30	10	0.76	327	2	0.03	29	640	12	0.02	<2	5	35
ZZ110741		10	<1	0.43	10	0.94	496	7	0.04	27	500	22	0.02	<2	7	38
ZZ110742		10	<1	0.23	20	0.78	517	4	0.06	48	1040	18	0.18	<2	5	274
ZZ110743		10	<1	0.22	10	0.65	297	13	0.03	21	360	12	0.01	<2	5	45
ZZ110744		10	<1	0.37	10	0.54	490	1	0.03	22	600	9	0.04	<2	4	52
ZZ110745		10	<1	0.26	10	0.71	301	1	0.03	22	690	6	0.01	<2	5	36
ZZ110746		10	<1	0.16	10	0.52	937	1	0.04	36	480	6	0.03	<2	5	47
ZZ110747		10	<1	0.18	20	0.62	1120	2	0.09	29	1530	33	0.09	<2	3	157
ZZ110748		10	<1	0.27	10	0.59	412	1	0.03	25	380	6	0.02	<2	4	32
ZZ110749		<10	<1	0.24	10	0.44	452	2	0.02	16	160	5	0.01	<2	3	23
ZZ110750		10	<1	0.27	10	0.56	540	1	0.02	25	320	6	<0.01	<2	5	28
ZZ110751		<10	<1	0.32	10	0.51	267	<1	0.03	17	320	4	0.01	<2	4	40
ZZ110752		<10	<1	0.26	10	0.51	271	<1	0.02	17	430	3	<0.01	<2	4	28
ZZ110753		<10	<1	0.29	10	0.55	360	1	0.02	18	330	6	<0.01	<2	4	28
ZZ110754		10	1	0.33	10	0.60	459	1	0.02	21	340	5	<0.01	<2	4	34
ZZ110755		10	<1	0.27	10	0.51	195	1	0.03	22	320	4	0.01	<2	3	35
ZZ110756		10	<1	0.27	10	0.84	389	1	0.04	27	960	6	0.02	2	5	119
ZZ110757		10	<1	0.31	10	0.94	273	1	0.04	35	310	6	0.02	<2	7	59
ZZ110758		10	<1	0.21	10	0.44	212	1	0.02	22	150	5	<0.01	<2	3	54
ZZ110759		<10	1	0.19	10	0.58	478	1	0.03	37	610	4	0.17	<2	3	294
ZZ110760		10	<1	0.25	10	0.54	255	2	0.02	31	250	9	0.04	<2	4	62
ZZ110761		<10	<1	0.28	10	0.44	590	<1	0.02	19	440	5	0.02	<2	3	44
ZZ110762		<10	<1	0.37	10	0.53	459	<1	0.02	22	490	6	0.03	<2	4	33
ZZ110763		<10	<1	0.29	10	0.44	579	<1	0.02	16	700	4	0.03	<2	3	35



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ110729		<20	0.14	<10	<10	62	<10	44
ZZ110730		<20	0.14	<10	<10	64	<10	42
ZZ110731		<20	0.17	<10	<10	59	<10	49
ZZ110732		<20	0.15	<10	<10	61	<10	41
ZZ110733		<20	0.17	<10	<10	65	<10	46
ZZ110734		<20	0.17	<10	<10	69	<10	40
ZZ110735		<20	0.16	<10	<10	71	<10	39
ZZ110736		<20	0.14	<10	<10	68	<10	41
ZZ110737		<20	0.19	<10	<10	78	<10	43
ZZ110738		<20	0.15	<10	<10	68	<10	41
ZZ110739		<20	0.16	<10	<10	78	<10	50
ZZ110740		<20	0.15	<10	<10	70	<10	45
ZZ110741		<20	0.20	<10	<10	76	<10	82
ZZ110742		<20	0.13	<10	<10	50	<10	55
ZZ110743		<20	0.15	<10	<10	77	<10	39
ZZ110744		<20	0.12	<10	<10	55	<10	43
ZZ110745		<20	0.16	<10	<10	64	<10	47
ZZ110746		<20	0.13	<10	<10	58	<10	58
ZZ110747		<20	0.06	<10	<10	62	<10	73
ZZ110748		<20	0.15	<10	<10	63	<10	50
ZZ110749		<20	0.14	<10	<10	55	<10	49
ZZ110750		<20	0.15	<10	<10	59	<10	55
ZZ110751		<20	0.13	<10	<10	52	<10	35
ZZ110752		<20	0.13	<10	<10	56	<10	40
ZZ110753		<20	0.15	<10	<10	60	<10	44
ZZ110754		<20	0.16	<10	<10	60	<10	48
ZZ110755		<20	0.14	<10	<10	56	<10	46
ZZ110756		<20	0.17	<10	<10	66	<10	51
ZZ110757		<20	0.17	<10	<10	69	<10	49
ZZ110758		<20	0.14	<10	<10	61	<10	37
ZZ110759		<20	0.09	<10	10	40	<10	54
ZZ110760		<20	0.14	<10	<10	62	<10	41
ZZ110761		<20	0.11	<10	<10	45	<10	39
ZZ110762		<20	0.13	<10	<10	54	<10	46
ZZ110763		<20	0.10	<10	<10	43	<10	36





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Account: MTT

Project: Moraine

**CERTIFICATE OF ANALYSIS WH16132831**

CERTIFICATE COMMENTS									
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table><tr><td>Au-ICP21</td><td>LOG-22</td><td>ME-ICP41</td><td>SCR-41</td></tr><tr><td>WEI-21</td><td></td><td></td><td></td></tr></table>	Au-ICP21	LOG-22	ME-ICP41	SCR-41	WEI-21			
Au-ICP21	LOG-22	ME-ICP41	SCR-41						
WEI-21									



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 Account: MTT

**CERTIFICATE WH16132836**

Project: Moraine

This report is for 195 Soil samples submitted to our lab in Whitehorse, YT, Canada on 12-AUG-2016.

The following have access to data associated with this certificate:

HEATHER BURRELL	JOAN MARIACHER
-----------------	----------------

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

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

To: STRATEGIC METALS LTD.  
 ATTN: JOAN MARIACHER  
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 1016-510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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

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

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Moraine

**CERTIFICATE OF ANALYSIS WH16132836**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ111554		0.32	0.003	0.2	1.82	6	<10	140	0.5	<2	1.40	<0.5	13	40	149	2.77
ZZ111555		0.26	0.002	<0.2	1.30	6	<10	120	<0.5	<2	2.52	0.5	10	27	61	1.96
ZZ111556		0.40	0.005	0.2	1.39	5	<10	120	<0.5	<2	2.52	0.5	10	29	124	2.18
ZZ111557		0.36	0.002	<0.2	1.47	5	<10	130	<0.5	<2	1.91	0.9	10	32	110	2.26
ZZ111558		0.32	0.003	<0.2	1.53	6	<10	130	<0.5	<2	1.87	<0.5	9	34	62	2.28
ZZ111559		0.42	0.002	<0.2	1.44	4	<10	120	<0.5	<2	1.40	<0.5	10	31	77	2.23
ZZ111560		0.42	0.009	<0.2	1.70	5	<10	100	<0.5	<2	1.56	<0.5	14	40	137	2.92
ZZ111561		0.32	0.001	<0.2	1.85	5	<10	180	<0.5	<2	0.60	<0.5	11	37	56	2.59
ZZ111562		0.40	<0.001	<0.2	1.54	3	<10	110	<0.5	<2	0.48	<0.5	9	31	29	2.27
ZZ111563		0.22	0.029	<0.2	1.78	<2	<10	130	<0.5	<2	0.69	<0.5	13	45	26	2.78
ZZ111564		0.38	0.006	<0.2	2.05	4	<10	110	<0.5	<2	0.40	<0.5	12	40	23	2.91
ZZ111565		0.34	0.002	0.2	1.73	5	<10	130	<0.5	<2	0.60	<0.5	13	33	70	2.54
ZZ111566		0.32	<0.001	0.2	1.85	5	<10	150	<0.5	<2	0.81	<0.5	12	39	60	2.64
ZZ111567		0.40	<0.001	<0.2	2.16	5	<10	140	0.5	<2	0.73	<0.5	15	44	48	3.03
ZZ111568		0.28	<0.001	<0.2	1.38	3	<10	180	<0.5	3	0.36	<0.5	15	31	16	2.62
ZZ111569		0.24	0.003	<0.2	2.36	5	<10	230	0.7	<2	0.95	<0.5	15	40	106	3.06
ZZ111570		0.36	<0.001	<0.2	1.34	2	<10	150	<0.5	<2	0.48	<0.5	7	23	13	1.95
ZZ111571		0.32	0.002	<0.2	1.74	4	<10	160	<0.5	<2	0.46	<0.5	11	33	23	2.35
ZZ111572		0.28	0.001	<0.2	1.80	4	<10	250	<0.5	2	0.91	1.0	14	37	48	2.83
ZZ111573		0.26	0.001	<0.2	1.15	3	<10	70	<0.5	<2	0.94	<0.5	7	23	66	1.77
ZZ111574		0.36	0.001	<0.2	1.29	3	<10	80	<0.5	<2	1.50	0.5	8	27	91	1.96
ZZ111575		0.30	0.006	<0.2	1.98	3	<10	90	<0.5	<2	0.40	<0.5	16	48	50	2.96
ZZ111576		0.32	0.017	<0.2	1.42	6	<10	130	<0.5	<2	1.75	<0.5	9	31	60	2.32
ZZ111577		0.24	0.001	<0.2	1.52	6	<10	130	<0.5	<2	0.83	<0.5	9	27	30	2.16
ZZ111578		0.20	0.001	<0.2	1.16	3	<10	100	<0.5	<2	1.29	1.3	8	25	73	1.82
ZZ111579		0.40	0.001	<0.2	1.36	5	<10	110	<0.5	<2	1.14	0.5	10	27	29	2.14
ZZ111580		0.34	0.002	<0.2	2.61	4	<10	110	0.7	<2	0.44	<0.5	19	47	33	3.43
ZZ111581		0.26	0.012	<0.2	1.44	4	<10	140	<0.5	<2	0.55	<0.5	9	34	10	2.44
ZZ111582		0.22	0.003	<0.2	1.56	7	<10	120	<0.5	<2	2.30	1.2	15	32	160	2.58
ZZ111583		0.58	0.001	<0.2	1.40	5	<10	120	<0.5	<2	0.81	<0.5	8	31	24	2.20
ZZ111584		0.28	0.002	<0.2	1.24	2	<10	100	<0.5	<2	0.80	<0.5	8	26	9	2.03
ZZ111585		0.36	0.007	0.6	1.62	5	<10	160	<0.5	<2	1.50	0.5	10	34	53	2.51
ZZ111586		0.34	0.003	0.2	1.31	4	<10	130	<0.5	<2	1.53	<0.5	8	27	42	1.85
ZZ111587		0.30	0.007	<0.2	1.35	3	<10	110	<0.5	<2	0.66	<0.5	9	29	32	2.14
ZZ111588		0.38	0.002	<0.2	1.45	2	<10	190	<0.5	<2	1.43	<0.5	10	34	44	2.35
ZZ111589		0.24	0.017	<0.2	1.57	3	<10	140	<0.5	<2	0.64	<0.5	10	36	18	2.50
ZZ111590		0.46	0.001	<0.2	1.62	3	<10	150	<0.5	<2	0.52	<0.5	9	35	22	2.51
ZZ111591		0.24	0.004	0.3	1.74	8	<10	150	<0.5	<2	0.90	<0.5	16	42	95	3.20
ZZ111592		0.54	0.006	0.2	1.69	2	<10	220	<0.5	<2	1.04	<0.5	13	41	98	2.43
ZZ111593		0.38	0.001	<0.2	1.78	3	<10	200	<0.5	<2	0.71	<0.5	10	37	41	2.44



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Project: Moraine

**CERTIFICATE OF ANALYSIS WH16132836**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ111554		10	<1	0.20	20	0.69	349	1	0.04	39	570	7	0.06	<2	5	76
ZZ111555		<10	<1	0.16	10	0.51	349	<1	0.03	29	730	5	0.10	<2	3	116
ZZ111556		<10	<1	0.18	10	0.65	305	<1	0.03	31	810	6	0.09	<2	4	125
ZZ111557		<10	<1	0.21	10	0.61	347	1	0.04	33	700	7	0.08	<2	4	99
ZZ111558		<10	<1	0.21	10	0.64	285	1	0.04	23	710	5	0.09	<2	4	96
ZZ111559		<10	<1	0.19	10	0.58	317	1	0.03	27	640	5	0.07	<2	4	77
ZZ111560		10	<1	0.23	10	0.63	194	1	0.04	51	310	14	0.05	<2	5	83
ZZ111561		10	<1	0.14	10	0.69	307	1	0.02	24	670	6	0.01	<2	5	33
ZZ111562		10	<1	0.09	10	0.58	247	2	0.02	16	350	4	0.01	<2	4	31
ZZ111563		10	<1	0.31	10	0.85	555	1	0.03	26	770	5	0.03	<2	5	43
ZZ111564		10	<1	0.32	10	0.73	338	1	0.02	26	390	4	0.02	<2	4	32
ZZ111565		10	<1	0.33	10	0.63	587	2	0.03	28	690	9	0.06	<2	4	43
ZZ111566		10	<1	0.36	10	0.77	488	1	0.04	25	750	9	0.05	<2	5	53
ZZ111567		10	<1	0.32	10	0.95	548	1	0.03	28	570	8	0.05	<2	5	49
ZZ111568		10	<1	0.24	10	0.51	782	2	0.03	16	410	8	0.03	<2	4	25
ZZ111569		10	<1	0.21	20	0.79	449	2	0.05	35	790	6	0.04	<2	7	55
ZZ111570		<10	<1	0.26	10	0.50	315	<1	0.04	13	690	4	0.03	<2	3	28
ZZ111571		10	<1	0.18	10	0.64	360	1	0.04	19	640	8	0.05	<2	3	29
ZZ111572		10	<1	0.16	10	0.66	537	2	0.04	24	620	11	0.04	<2	4	61
ZZ111573		<10	<1	0.15	10	0.46	310	1	0.04	18	520	4	0.05	<2	3	55
ZZ111574		<10	<1	0.18	10	0.51	299	1	0.04	27	590	5	0.08	<2	3	83
ZZ111575		10	<1	0.40	10	0.83	279	1	0.04	34	230	10	0.03	<2	5	29
ZZ111576		10	<1	0.18	10	0.58	319	<1	0.04	23	870	6	0.09	<2	3	90
ZZ111577		10	<1	0.16	10	0.48	253	1	0.04	18	360	6	0.05	<2	4	47
ZZ111578		<10	<1	0.23	10	0.46	354	<1	0.04	25	470	5	0.06	<2	3	68
ZZ111579		<10	<1	0.24	10	0.55	418	1	0.04	19	490	5	0.05	<2	3	63
ZZ111580		10	<1	0.19	10	0.74	344	1	0.03	41	290	9	0.04	<2	5	32
ZZ111581		10	<1	0.19	10	0.52	219	1	0.03	14	180	6	0.03	<2	3	32
ZZ111582		10	<1	0.21	10	0.65	593	1	0.04	52	680	5	0.12	<2	4	111
ZZ111583		<10	<1	0.22	10	0.59	327	1	0.04	17	910	3	0.03	<2	5	46
ZZ111584		<10	<1	0.16	10	0.53	268	1	0.04	13	740	4	0.04	<2	4	45
ZZ111585		10	<1	0.28	10	0.75	489	2	0.05	18	850	53	0.06	<2	5	73
ZZ111586		<10	<1	0.14	10	0.53	287	3	0.04	16	830	6	0.08	<2	3	78
ZZ111587		<10	<1	0.21	10	0.64	308	4	0.03	15	340	9	0.04	<2	4	36
ZZ111588		<10	<1	0.20	10	0.72	406	4	0.04	17	720	11	0.07	<2	4	73
ZZ111589		10	<1	0.36	10	0.81	338	4	0.04	15	500	23	0.04	<2	5	37
ZZ111590		10	<1	0.23	10	0.74	341	5	0.03	18	300	8	0.02	<2	5	30
ZZ111591		10	<1	0.27	20	0.88	403	4	0.03	28	760	10	0.03	<2	6	49
ZZ111592		10	<1	0.17	10	0.70	411	7	0.02	23	670	7	0.03	<2	5	52
ZZ111593		10	<1	0.22	10	0.74	310	3	0.03	19	310	7	0.02	<2	5	40



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**CERTIFICATE OF ANALYSIS WH16132836**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ111554		<20	0.13	<10	<10	60	<10	68
ZZ111555		<20	0.09	<10	<10	39	<10	79
ZZ111556		<20	0.10	<10	<10	42	<10	107
ZZ111557		<20	0.11	<10	<10	46	<10	125
ZZ111558		<20	0.12	<10	<10	50	<10	71
ZZ111559		<20	0.11	<10	<10	52	<10	50
ZZ111560		<20	0.13	<10	<10	55	<10	46
ZZ111561		<20	0.14	<10	<10	62	<10	49
ZZ111562		<20	0.13	<10	<10	58	<10	47
ZZ111563		<20	0.15	<10	<10	64	<10	59
ZZ111564		<20	0.15	<10	<10	69	<10	72
ZZ111565		<20	0.12	<10	<10	60	<10	63
ZZ111566		<20	0.13	<10	<10	63	<10	63
ZZ111567		<20	0.17	<10	<10	76	<10	67
ZZ111568		<20	0.15	<10	<10	64	<10	56
ZZ111569		<20	0.14	<10	<10	68	<10	77
ZZ111570		<20	0.13	<10	<10	45	<10	40
ZZ111571		<20	0.13	<10	<10	60	<10	54
ZZ111572		<20	0.14	<10	<10	71	<10	81
ZZ111573		<20	0.09	<10	<10	41	<10	46
ZZ111574		<20	0.10	<10	<10	44	<10	71
ZZ111575		<20	0.16	<10	<10	62	<10	50
ZZ111576		<20	0.10	<10	<10	51	<10	65
ZZ111577		<20	0.12	<10	<10	54	<10	41
ZZ111578		<20	0.10	<10	<10	40	<10	77
ZZ111579		<20	0.12	<10	<10	46	<10	101
ZZ111580		<20	0.17	<10	<10	76	<10	103
ZZ111581		<20	0.15	<10	<10	71	<10	48
ZZ111582		<20	0.12	<10	<10	46	<10	239
ZZ111583		<20	0.14	<10	<10	54	<10	46
ZZ111584		<20	0.12	<10	<10	49	<10	33
ZZ111585		<20	0.14	<10	10	57	<10	115
ZZ111586		<20	0.08	<10	10	45	<10	34
ZZ111587		<20	0.14	<10	<10	57	<10	40
ZZ111588		<20	0.13	<10	20	60	<10	48
ZZ111589		<20	0.17	<10	<10	65	<10	64
ZZ111590		<20	0.17	<10	<10	65	<10	49
ZZ111591		<20	0.16	<10	<10	68	<10	54
ZZ111592		<20	0.13	<10	10	65	<10	52
ZZ111593		<20	0.16	<10	<10	65	<10	49



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Project: Moraine

**CERTIFICATE OF ANALYSIS WH16132836**

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ111594		0.28	0.005	<0.2	1.32	<2	<10	160	<0.5	<2	1.09	<0.5	10	33	38	2.08
ZZ111595		0.32	0.003	<0.2	1.45	3	<10	140	<0.5	<2	0.71	<0.5	11	34	79	2.39
ZZ111596		0.30	0.003	<0.2	1.89	4	<10	210	<0.5	<2	0.89	<0.5	15	38	123	2.90
ZZ111597		0.38	0.001	<0.2	1.66	4	<10	150	0.5	<2	0.69	<0.5	11	36	70	2.51
ZZ111598		0.24	<0.001	<0.2	1.49	2	<10	120	<0.5	<2	0.69	<0.5	11	33	26	2.59
ZZ111599		0.30	0.001	<0.2	1.68	3	<10	90	<0.5	<2	0.45	<0.5	11	36	30	2.74
ZZ111600		0.24	<0.001	<0.2	2.04	4	<10	100	0.5	2	0.38	<0.5	10	44	16	2.96
ZZ111601		0.34	<0.001	<0.2	1.31	3	10	130	<0.5	<2	3.95	<0.5	8	28	25	2.04
ZZ111602		0.22	<0.001	<0.2	1.47	2	10	190	<0.5	<2	5.41	<0.5	8	29	26	2.13
ZZ111603		0.16	<0.001	<0.2	1.68	4	10	160	<0.5	<2	1.79	<0.5	10	35	18	2.56
ZZ111604		0.24	0.009	<0.2	1.66	3	<10	120	<0.5	<2	0.43	<0.5	10	33	13	2.54
ZZ111605		0.24	<0.001	<0.2	1.42	4	<10	60	<0.5	<2	0.44	<0.5	8	32	10	2.46
ZZ111606		0.64	<0.001	<0.2	1.63	3	10	160	<0.5	<2	3.98	<0.5	10	37	25	2.58
ZZ111607		0.54	0.004	<0.2	1.71	2	<10	160	<0.5	2	4.58	<0.5	11	36	27	2.68
ZZ111608		0.34	0.001	<0.2	1.05	3	10	190	<0.5	<2	8.3	<0.5	7	21	28	1.67
ZZ111609		0.62	0.001	<0.2	1.70	4	<10	180	<0.5	<2	3.42	<0.5	10	36	28	2.69
ZZ111610		0.48	<0.001	<0.2	1.69	4	<10	160	<0.5	<2	3.29	<0.5	10	38	27	2.65
ZZ111611		0.40	<0.001	<0.2	1.76	3	10	160	<0.5	2	2.40	<0.5	10	36	30	2.61
ZZ111612		0.60	0.001	<0.2	1.70	5	<10	160	<0.5	2	3.31	<0.5	10	36	27	2.74
ZZ111613		0.36	<0.001	<0.2	1.48	2	<10	130	<0.5	<2	2.15	<0.5	7	32	27	2.34
ZZ111614		0.26	0.001	<0.2	1.42	3	<10	100	<0.5	<2	0.87	<0.5	8	31	16	2.26
ZZ111615		0.30	0.001	<0.2	1.49	2	<10	100	<0.5	2	0.74	<0.5	8	32	18	2.35
ZZ111616		0.26	0.001	<0.2	1.70	3	<10	170	<0.5	<2	1.13	<0.5	10	36	26	2.63
ZZ111617		0.28	<0.001	<0.2	1.68	4	<10	70	<0.5	2	0.41	<0.5	8	35	12	2.60
ZZ111618		0.40	0.001	<0.2	1.57	4	<10	120	<0.5	<2	2.06	<0.5	8	34	23	2.41
ZZ111619		0.28	0.002	<0.2	1.73	3	<10	130	<0.5	2	1.41	<0.5	10	37	27	2.58
ZZ111620		0.36	0.001	<0.2	1.34	4	<10	190	<0.5	2	2.25	<0.5	8	27	30	2.06
ZZ111621		0.26	<0.001	<0.2	1.35	3	<10	110	<0.5	<2	1.52	<0.5	8	29	19	2.23
ZZ111622		0.26	<0.001	<0.2	1.44	2	<10	40	<0.5	<2	0.45	<0.5	7	30	9	2.39
ZZ111623		0.28	<0.001	<0.2	1.38	4	<10	70	<0.5	<2	0.51	<0.5	8	30	12	2.35
ZZ111624		0.28	<0.001	<0.2	2.05	5	<10	120	0.5	<2	0.52	<0.5	13	39	19	3.08
ZZ111625		0.26	0.002	<0.2	1.79	3	<10	150	<0.5	<2	1.57	<0.5	10	38	30	2.75
ZZ111626		0.26	<0.001	<0.2	1.13	3	<10	60	<0.5	<2	0.40	<0.5	6	24	12	1.88
ZZ111627		0.28	<0.001	<0.2	1.32	3	<10	100	<0.5	<2	0.41	<0.5	8	28	11	2.15
ZZ111628		0.22	0.005	<0.2	1.31	3	<10	60	<0.5	2	0.36	<0.5	8	28	7	2.12
ZZ111629		0.22	<0.001	<0.2	1.16	<2	<10	110	<0.5	<2	0.34	<0.5	8	24	10	1.96
ZZ111630		0.26	<0.001	<0.2	1.32	3	<10	110	<0.5	2	0.38	<0.5	10	26	12	2.15
ZZ111631		0.34	0.026	0.2	1.48	4	<10	220	<0.5	<2	0.71	1.1	10	31	78	2.44
ZZ111632		0.38	<0.001	<0.2	1.19	2	<10	190	<0.5	<2	0.54	<0.5	8	23	26	1.93
ZZ111633		0.30	0.002	0.2	1.02	3	<10	230	<0.5	<2	0.85	1.7	8	20	39	1.80



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**CERTIFICATE OF ANALYSIS WH16132836**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ111594		<10	<1	0.17	10	0.63	347	4	0.03	17	710	4	0.04	<2	3	53
ZZ111595		10	<1	0.26	10	0.71	311	5	0.03	17	390	7	0.02	<2	4	38
ZZ111596		10	<1	0.30	10	0.93	707	3	0.05	26	760	7	0.02	<2	5	53
ZZ111597		10	<1	0.26	10	0.62	410	3	0.03	26	460	8	0.02	<2	4	38
ZZ111598		10	<1	0.28	10	0.59	340	2	0.02	21	400	6	0.03	<2	4	41
ZZ111599		10	<1	0.22	10	0.63	266	2	0.02	23	280	8	0.02	<2	4	26
ZZ111600		10	<1	0.25	10	0.67	223	3	0.03	23	220	4	0.01	<2	6	28
ZZ111601		<10	<1	0.23	10	0.75	329	7	0.05	19	860	3	0.12	<2	4	210
ZZ111602		10	<1	0.22	10	0.71	416	4	0.04	20	830	2	0.14	<2	4	312
ZZ111603		10	<1	0.22	10	0.73	423	4	0.03	21	550	5	0.05	<2	5	113
ZZ111604		10	<1	0.15	10	0.50	379	1	0.02	18	640	4	0.01	<2	4	26
ZZ111605		<10	<1	0.16	10	0.54	231	1	0.02	18	350	3	0.01	<2	4	25
ZZ111606		10	<1	0.30	10	0.72	406	5	0.04	23	660	3	0.06	<2	5	203
ZZ111607		10	<1	0.31	10	0.84	419	5	0.05	23	900	2	0.04	<2	6	240
ZZ111608		<10	<1	0.18	10	0.59	361	1	0.05	18	720	<2	0.12	<2	3	665
ZZ111609		10	<1	0.31	10	0.88	393	1	0.05	23	900	2	0.04	<2	6	191
ZZ111610		10	<1	0.31	10	0.88	354	1	0.05	23	980	3	0.04	<2	6	152
ZZ111611		10	<1	0.32	10	0.85	384	1	0.05	24	1050	4	0.08	<2	6	120
ZZ111612		10	1	0.32	10	0.88	450	1	0.05	23	1100	4	0.03	<2	6	104
ZZ111613		10	<1	0.28	10	0.77	309	1	0.05	21	870	3	0.06	<2	5	93
ZZ111614		<10	<1	0.22	10	0.69	207	<1	0.04	19	580	3	0.05	<2	4	49
ZZ111615		<10	<1	0.14	10	0.72	246	1	0.03	19	480	3	0.02	<2	5	45
ZZ111616		10	1	0.21	10	0.73	456	1	0.04	23	630	4	0.02	<2	5	66
ZZ111617		<10	<1	0.16	10	0.66	208	2	0.02	18	250	4	0.01	<2	4	25
ZZ111618		10	<1	0.21	10	0.80	318	1	0.05	21	740	3	0.02	<2	5	90
ZZ111619		10	<1	0.23	10	0.68	408	1	0.04	22	490	4	0.02	<2	5	62
ZZ111620		<10	<1	0.20	10	0.59	267	1	0.04	22	550	<2	0.08	<2	4	141
ZZ111621		<10	<1	0.19	10	0.57	216	<1	0.04	18	410	3	0.03	<2	4	97
ZZ111622		10	<1	0.16	10	0.52	165	1	0.02	16	170	3	0.01	<2	3	24
ZZ111623		<10	<1	0.16	10	0.49	260	1	0.02	18	250	3	0.01	<2	4	31
ZZ111624		10	<1	0.22	10	0.67	236	1	0.03	27	260	4	0.01	2	6	37
ZZ111625		10	<1	0.19	10	0.86	315	1	0.05	25	660	2	0.02	<2	6	88
ZZ111626		<10	1	0.17	10	0.47	170	2	0.03	14	290	4	0.02	<2	3	25
ZZ111627		<10	<1	0.14	<10	0.52	218	2	0.03	14	160	3	0.02	<2	3	27
ZZ111628		<10	1	0.18	10	0.52	205	1	0.03	15	200	4	0.02	<2	3	21
ZZ111629		<10	<1	0.15	<10	0.40	504	1	0.03	13	370	4	0.02	<2	3	20
ZZ111630		<10	<1	0.20	10	0.48	517	2	0.03	15	270	3	0.02	<2	3	25
ZZ111631		<10	<1	0.34	10	0.68	532	2	0.04	18	930	33	0.05	<2	4	47
ZZ111632		<10	<1	0.26	10	0.48	504	1	0.03	14	560	7	0.02	<2	3	34
ZZ111633		<10	<1	0.28	10	0.46	666	1	0.03	12	840	13	0.06	<2	2	53



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ111594		<20	0.14	<10	<10	55	<10	53
ZZ111595		<20	0.16	<10	<10	66	<10	42
ZZ111596		<20	0.15	<10	<10	67	<10	51
ZZ111597		<20	0.15	<10	<10	68	<10	47
ZZ111598		<20	0.15	<10	<10	68	<10	63
ZZ111599		<20	0.15	<10	<10	70	<10	53
ZZ111600		<20	0.18	<10	<10	76	<10	40
ZZ111601		<20	0.12	<10	10	50	<10	41
ZZ111602		<20	0.12	<10	10	46	<10	46
ZZ111603		<20	0.14	<10	<10	61	<10	43
ZZ111604		<20	0.13	<10	<10	65	<10	61
ZZ111605		<20	0.13	<10	<10	68	<10	31
ZZ111606		<20	0.16	<10	<10	62	<10	44
ZZ111607		<20	0.17	<10	<10	64	<10	51
ZZ111608		<20	0.09	<10	<10	40	<10	28
ZZ111609		<20	0.17	<10	<10	64	<10	52
ZZ111610		<20	0.17	<10	<10	64	<10	52
ZZ111611		<20	0.16	<10	<10	62	<10	54
ZZ111612		<20	0.18	<10	<10	66	<10	59
ZZ111613		<20	0.15	<10	<10	57	<10	47
ZZ111614		<20	0.13	<10	<10	55	<10	41
ZZ111615		<20	0.13	<10	<10	59	<10	38
ZZ111616		<20	0.15	<10	<10	65	<10	47
ZZ111617		<20	0.16	<10	<10	71	<10	38
ZZ111618		<20	0.15	<10	<10	60	<10	44
ZZ111619		<20	0.15	<10	<10	64	<10	42
ZZ111620		<20	0.12	<10	<10	51	<10	33
ZZ111621		<20	0.13	<10	<10	57	<10	33
ZZ111622		<20	0.14	<10	<10	68	<10	30
ZZ111623		<20	0.13	<10	<10	65	<10	30
ZZ111624		<20	0.18	<10	<10	75	<10	49
ZZ111625		<20	0.18	<10	<10	70	<10	47
ZZ111626		<20	0.12	<10	<10	49	<10	29
ZZ111627		<20	0.13	<10	<10	62	<10	30
ZZ111628		<20	0.14	<10	<10	57	<10	34
ZZ111629		<20	0.13	<10	<10	50	<10	36
ZZ111630		<20	0.13	<10	<10	54	<10	54
ZZ111631		<20	0.12	<10	<10	62	<10	78
ZZ111632		<20	0.11	<10	<10	47	<10	54
ZZ111633		<20	0.09	<10	<10	43	<10	80





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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ111634		0.26	<0.001	0.3	1.24	3	<10	150	<0.5	<2	0.42	1.3	9	26	19	2.12
ZZ111635		0.22	0.001	<0.2	1.23	4	<10	90	<0.5	<2	0.43	<0.5	8	28	14	2.08
ZZ111636		0.28	<0.001	<0.2	1.94	5	<10	160	<0.5	2	0.50	<0.5	11	42	24	2.70
ZZ111637		0.32	<0.001	<0.2	1.31	4	<10	140	<0.5	<2	0.66	<0.5	7	27	15	1.98
ZZ111638		0.30	0.002	<0.2	1.88	4	<10	210	<0.5	<2	0.57	<0.5	11	36	34	2.53
ZZ111639		0.36	0.001	0.2	1.57	3	<10	160	<0.5	<2	0.70	<0.5	12	33	37	2.58
ZZ111640		0.36	0.001	<0.2	1.64	3	<10	90	<0.5	<2	0.46	<0.5	7	29	13	2.30
ZZ111641		0.30	0.004	<0.2	1.24	3	<10	130	<0.5	3	0.51	<0.5	7	25	22	1.93
ZZ111642		0.24	0.011	0.4	1.44	23	<10	120	<0.5	2	0.52	<0.5	8	32	25	3.11
ZZ111643		0.30	0.004	0.2	1.62	3	<10	90	<0.5	<2	0.33	<0.5	9	35	21	2.47
ZZ111644		0.20	<0.001	<0.2	1.38	4	<10	160	<0.5	<2	0.49	0.5	11	30	17	2.49
ZZ111645		0.24	0.001	<0.2	1.56	3	<10	130	<0.5	3	0.52	<0.5	8	32	14	2.50
ZZ111646		0.34	0.009	<0.2	1.67	4	<10	120	<0.5	<2	0.39	<0.5	12	32	33	2.56
ZZ111647		0.34	0.001	0.2	1.06	3	<10	160	<0.5	<2	0.85	0.9	7	21	109	1.79
ZZ111648		0.30	<0.001	<0.2	1.39	3	<10	90	<0.5	<2	0.33	<0.5	8	29	10	2.25
ZZ111649		0.32	0.002	<0.2	1.46	3	<10	120	<0.5	<2	0.33	0.6	11	27	13	2.32
ZZ111650		0.32	0.002	<0.2	1.58	3	<10	130	<0.5	3	0.45	<0.5	9	30	14	2.28
ZZ111651		0.24	<0.001	<0.2	1.58	4	<10	60	<0.5	<2	0.33	<0.5	8	30	8	2.33
ZZ111652		0.20	0.002	<0.2	1.87	4	<10	90	<0.5	2	0.34	<0.5	9	37	11	2.66
ZZ111653		0.24	0.001	<0.2	2.24	5	<10	110	0.7	<2	0.85	<0.5	16	34	16	3.55
ZZ111654		0.22	<0.001	<0.2	2.05	3	<10	210	0.5	<2	0.50	<0.5	31	51	30	3.22
ZZ111655		0.26	<0.001	<0.2	1.63	3	<10	70	<0.5	<2	0.34	<0.5	10	37	14	2.59
ZZ111656		0.28	<0.001	<0.2	1.31	2	<10	70	<0.5	<2	0.37	<0.5	7	28	8	2.09
ZZ111657		0.36	<0.001	<0.2	1.48	4	<10	100	<0.5	<2	0.41	<0.5	7	29	12	2.14
ZZ111658		0.32	0.001	<0.2	1.59	3	<10	120	<0.5	2	0.44	<0.5	8	31	12	2.36
ZZ111659		0.44	0.002	<0.2	1.52	4	<10	150	<0.5	3	3.14	<0.5	7	32	24	2.29
ZZ111660		0.50	0.001	<0.2	1.52	5	<10	160	<0.5	<2	4.31	<0.5	7	32	25	2.34
ZZ111661		0.30	0.002	<0.2	1.41	9	<10	60	<0.5	<2	0.37	<0.5	7	27	10	2.01
ZZ111662		0.26	<0.001	<0.2	1.74	4	<10	70	<0.5	2	0.45	<0.5	9	36	16	2.57
ZZ111663		0.30	<0.001	<0.2	1.51	4	<10	80	<0.5	<2	0.50	<0.5	9	36	15	2.49
ZZ111664		0.28	0.002	<0.2	1.48	3	<10	100	<0.5	<2	0.50	<0.5	8	31	13	2.15
ZZ111665		0.34	<0.001	<0.2	1.78	3	<10	110	<0.5	<2	0.52	<0.5	9	35	15	2.55
ZZ111666		0.28	0.029	<0.2	1.75	4	<10	160	<0.5	<2	0.84	<0.5	10	35	20	2.66
ZZ111667		0.22	0.037	<0.2	1.63	4	<10	70	<0.5	<2	0.49	<0.5	7	35	12	2.31
ZZ111668		0.32	<0.001	<0.2	1.51	5	<10	60	<0.5	2	0.48	<0.5	7	30	10	2.16
ZZ111669		0.30	<0.001	<0.2	1.52	3	<10	80	<0.5	<2	0.61	<0.5	8	33	9	2.42
ZZ111670		0.26	<0.001	<0.2	1.45	4	<10	130	<0.5	<2	0.60	<0.5	8	31	11	2.42
ZZ111671		0.26	<0.001	<0.2	1.50	3	<10	130	<0.5	<2	0.51	<0.5	8	29	12	2.16
ZZ111672		0.20	<0.001	<0.2	1.57	4	<10	130	<0.5	<2	0.46	<0.5	8	31	13	2.37
ZZ111673		0.34	<0.001	<0.2	1.59	3	<10	100	<0.5	<2	0.47	<0.5	8	35	9	2.68



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ111634		<10	<1	0.25	10	0.48	526	2	0.03	15	860	15	0.02	<2	3	25
ZZ111635		<10	<1	0.26	10	0.52	342	2	0.03	16	560	5	0.02	<2	4	25
ZZ111636		10	<1	0.12	10	0.77	378	13	0.04	26	220	6	0.02	<2	5	36
ZZ111637		<10	<1	0.12	10	0.58	262	9	0.03	15	620	4	0.02	<2	4	35
ZZ111638		<10	<1	0.09	10	0.71	740	13	0.04	23	340	7	0.02	2	5	37
ZZ111639		10	<1	0.09	10	0.62	575	33	0.04	19	710	5	0.04	<2	4	40
ZZ111640		<10	1	0.10	10	0.65	221	12	0.03	17	510	4	0.02	<2	4	27
ZZ111641		<10	<1	0.14	10	0.50	355	3	0.03	16	510	5	0.02	<2	4	30
ZZ111642		<10	<1	0.29	10	0.64	234	18	0.07	17	400	93	0.28	2	4	51
ZZ111643		<10	<1	0.18	10	0.70	255	4	0.03	16	200	11	0.03	<2	4	23
ZZ111644		10	1	0.27	10	0.52	411	9	0.03	16	440	10	0.04	<2	3	29
ZZ111645		<10	<1	0.29	10	0.66	318	6	0.03	16	280	16	0.03	<2	4	32
ZZ111646		<10	<1	0.20	10	0.60	480	13	0.03	19	470	8	0.02	<2	4	26
ZZ111647		<10	<1	0.24	10	0.44	495	2	0.04	13	920	8	0.07	<2	2	53
ZZ111648		10	<1	0.20	<10	0.55	219	8	0.03	14	210	8	0.02	<2	3	21
ZZ111649		<10	<1	0.18	<10	0.46	403	5	0.03	16	420	7	0.02	2	3	21
ZZ111650		<10	<1	0.27	10	0.59	338	1	0.03	17	810	12	0.02	<2	4	25
ZZ111651		<10	1	0.13	10	0.55	179	<1	0.03	16	140	3	0.02	2	3	20
ZZ111652		10	<1	0.19	10	0.65	197	1	0.03	23	130	5	0.02	2	4	22
ZZ111653		10	<1	0.09	10	0.48	395	1	0.07	34	210	15	0.05	2	4	59
ZZ111654		10	<1	0.19	10	0.64	1330	1	0.04	52	350	8	0.02	2	5	33
ZZ111655		10	<1	0.14	10	0.60	170	1	0.03	19	170	5	0.02	<2	4	20
ZZ111656		<10	<1	0.14	10	0.49	176	<1	0.03	13	300	4	0.02	<2	3	22
ZZ111657		<10	<1	0.11	10	0.51	200	1	0.03	18	490	3	0.02	<2	4	25
ZZ111658		<10	<1	0.13	10	0.56	455	1	0.03	17	700	2	0.02	<2	4	26
ZZ111659		<10	<1	0.18	10	0.77	303	<1	0.06	20	710	4	0.03	<2	5	92
ZZ111660		<10	<1	0.17	10	0.76	365	<1	0.06	20	1010	4	0.02	<2	5	95
ZZ111661		<10	<1	0.12	10	0.43	146	1	0.03	18	250	6	0.02	<2	3	26
ZZ111662		10	<1	0.10	10	0.59	230	1	0.02	22	690	4	0.02	<2	5	27
ZZ111663		<10	<1	0.17	10	0.60	241	<1	0.02	21	570	4	0.02	<2	5	29
ZZ111664		<10	<1	0.15	10	0.50	220	<1	0.02	18	790	3	0.02	<2	4	29
ZZ111665		10	<1	0.13	10	0.63	280	1	0.02	20	620	4	0.02	<2	5	31
ZZ111666		10	<1	0.16	10	0.71	463	1	0.04	21	400	3	0.03	<2	5	56
ZZ111667		10	<1	0.14	10	0.57	199	1	0.02	17	310	4	0.02	<2	4	31
ZZ111668		<10	<1	0.18	10	0.56	203	1	0.02	17	490	2	0.02	<2	4	27
ZZ111669		10	<1	0.14	10	0.64	221	1	0.03	17	330	2	0.03	<2	4	38
ZZ111670		<10	<1	0.12	10	0.54	456	<1	0.02	17	840	2	0.02	<2	4	34
ZZ111671		<10	<1	0.13	10	0.48	293	1	0.02	18	810	3	0.02	<2	4	28
ZZ111672		<10	<1	0.14	10	0.51	303	1	0.02	18	730	4	0.02	<2	4	30
ZZ111673		10	<1	0.14	10	0.52	260	<1	0.02	17	740	3	0.02	<2	4	30



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ111634		<20	0.12	<10	<10	50	<10	129
ZZ111635		<20	0.12	<10	<10	53	<10	45
ZZ111636		<20	0.17	<10	<10	75	<10	48
ZZ111637		<20	0.13	<10	<10	51	<10	34
ZZ111638		<20	0.14	<10	10	65	<10	52
ZZ111639		<20	0.13	<10	10	64	<10	50
ZZ111640		<20	0.13	<10	<10	58	<10	42
ZZ111641		<20	0.11	<10	<10	48	<10	45
ZZ111642		<20	0.13	<10	<10	70	<10	108
ZZ111643		<20	0.15	<10	<10	68	<10	52
ZZ111644		<20	0.13	<10	<10	62	<10	86
ZZ111645		<20	0.15	<10	<10	65	<10	63
ZZ111646		<20	0.14	<10	<10	63	<10	67
ZZ111647		<20	0.08	<10	<10	46	10	61
ZZ111648		<20	0.15	<10	<10	61	<10	45
ZZ111649		<20	0.13	<10	<10	56	<10	69
ZZ111650		<20	0.13	<10	<10	56	<10	60
ZZ111651		<20	0.15	<10	<10	62	<10	33
ZZ111652		<20	0.16	<10	<10	66	<10	44
ZZ111653		<20	0.11	<10	<10	56	<10	38
ZZ111654		<20	0.16	<10	<10	72	<10	87
ZZ111655		<20	0.16	<10	<10	79	<10	35
ZZ111656		<20	0.14	<10	<10	57	<10	34
ZZ111657		<20	0.12	<10	<10	58	<10	33
ZZ111658		<20	0.13	<10	<10	60	<10	48
ZZ111659		<20	0.15	<10	<10	57	<10	41
ZZ111660		<20	0.17	<10	<10	60	<10	47
ZZ111661		<20	0.11	<10	<10	50	<10	24
ZZ111662		<20	0.14	<10	<10	76	<10	55
ZZ111663		<20	0.15	<10	<10	71	<10	38
ZZ111664		<20	0.14	<10	<10	58	<10	39
ZZ111665		<20	0.15	<10	<10	69	<10	45
ZZ111666		<20	0.15	<10	<10	69	<10	42
ZZ111667		<20	0.16	<10	<10	64	<10	34
ZZ111668		<20	0.15	<10	<10	60	<10	37
ZZ111669		<20	0.14	<10	<10	66	<10	37
ZZ111670		<20	0.12	<10	<10	66	<10	47
ZZ111671		<20	0.13	<10	<10	59	<10	46
ZZ111672		<20	0.14	<10	<10	62	<10	43
ZZ111673		<20	0.14	<10	<10	76	<10	42



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ111674		0.32	<0.001	<0.2	1.47	4	<10	100	<0.5	<2	0.51	<0.5	7	33	15	2.29
ZZ111675		0.26	<0.001	<0.2	1.53	3	<10	90	<0.5	<2	0.42	<0.5	8	31	11	2.20
ZZ111676		0.30	<0.001	<0.2	1.48	2	<10	80	<0.5	<2	0.45	<0.5	8	30	11	2.21
ZZ111677		0.22	0.001	<0.2	1.66	4	<10	110	<0.5	<2	0.40	<0.5	9	33	12	2.48
ZZ111678		0.28	<0.001	<0.2	1.80	4	<10	120	<0.5	<2	0.49	<0.5	9	36	9	2.83
ZZ111679		0.28	0.076	<0.2	1.84	4	<10	90	<0.5	<2	0.47	<0.5	11	44	17	3.25
ZZ111680		0.23	0.001	<0.2	1.45	2	<10	90	<0.5	<2	0.40	<0.5	7	29	11	2.16
ZZ111681		0.30	<0.001	<0.2	1.71	3	<10	120	<0.5	<2	0.64	<0.5	9	34	17	2.56
ZZ111682		0.22	<0.001	<0.2	1.65	3	<10	110	<0.5	<2	1.33	<0.5	7	34	17	2.32
ZZ111683		0.28	0.001	<0.2	1.89	5	<10	140	<0.5	<2	1.08	<0.5	8	37	19	2.57
ZZ111684		0.24	<0.001	<0.2	1.47	2	<10	90	<0.5	<2	0.48	<0.5	7	28	14	2.09
ZZ111685		0.30	<0.001	<0.2	1.87	4	<10	210	0.5	<2	0.86	<0.5	13	37	20	2.77
ZZ111686		0.40	0.002	<0.2	1.62	4	<10	140	<0.5	<2	2.35	<0.5	9	37	23	2.50
ZZ111687		0.40	0.001	<0.2	1.77	3	<10	190	<0.5	<2	2.23	<0.5	10	37	27	2.64
ZZ111688		0.28	0.006	<0.2	1.46	2	<10	140	<0.5	<2	1.28	<0.5	7	30	13	2.16
ZZ111689		0.26	<0.001	<0.2	1.44	4	<10	80	<0.5	<2	0.46	<0.5	8	30	12	2.17
ZZ111690		0.28	<0.001	<0.2	1.39	3	<10	70	<0.5	<2	0.45	<0.5	8	30	13	2.23
ZZ111691		0.32	<0.001	<0.2	1.61	3	<10	130	<0.5	<2	0.47	<0.5	9	32	10	2.43
ZZ111692		0.38	<0.001	<0.2	1.71	3	<10	120	<0.5	<2	0.52	<0.5	10	34	12	2.50
ZZ111693		0.28	<0.001	<0.2	1.89	4	<10	140	<0.5	<2	0.44	<0.5	10	37	12	2.76
ZZ111694		0.44	0.001	<0.2	1.42	2	<10	110	<0.5	<2	0.77	<0.5	8	30	28	2.22
ZZ111695		0.56	0.091	<0.2	1.35	4	<10	110	<0.5	<2	1.76	<0.5	8	31	22	2.35
ZZ111696		0.28	<0.001	<0.2	1.28	7	<10	70	<0.5	<2	0.44	<0.5	7	28	16	2.20
ZZ111697		0.28	<0.001	<0.2	1.66	3	<10	120	<0.5	2	0.50	<0.5	10	36	13	2.54
ZZ111698		0.24	<0.001	<0.2	1.80	6	<10	110	<0.5	<2	0.39	<0.5	11	35	19	2.59
ZZ111699		0.18	0.001	<0.2	1.39	5	<10	140	<0.5	<2	0.67	<0.5	10	27	26	2.10
ZZ111700		0.24	0.004	<0.2	2.16	6	<10	150	<0.5	2	0.39	<0.5	13	40	15	3.11
ZZ111701		0.20	0.004	<0.2	1.99	4	<10	180	0.5	2	1.30	<0.5	10	45	45	2.73
ZZ111702		0.22	0.016	<0.2	1.74	4	<10	100	<0.5	<2	0.46	<0.5	9	36	20	2.49
ZZ111703		0.22	0.001	<0.2	2.47	6	<10	80	0.6	<2	0.41	<0.5	10	45	26	2.76
ZZ111704		0.24	<0.001	<0.2	2.04	4	<10	100	<0.5	<2	0.33	<0.5	12	38	19	2.79
ZZ111705		0.32	0.002	<0.2	2.07	4	<10	200	0.5	3	0.46	<0.5	12	34	33	2.53
ZZ111706		0.38	0.003	<0.2	1.65	4	<10	140	<0.5	<2	0.47	<0.5	8	31	14	2.22
ZZ111707		0.40	0.002	<0.2	1.59	2	<10	140	<0.5	<2	0.45	<0.5	8	30	16	2.24
ZZ111708		0.26	<0.001	<0.2	1.74	5	<10	110	<0.5	<2	0.33	<0.5	9	32	14	2.53
ZZ111709		0.38	<0.001	<0.2	1.73	4	<10	120	<0.5	<2	0.34	<0.5	10	32	18	2.43
ZZ111710		0.30	0.008	<0.2	1.92	3	<10	130	<0.5	2	0.50	<0.5	10	29	19	2.40
ZZ111711		0.30	<0.001	<0.2	1.73	3	<10	130	<0.5	<2	0.31	<0.5	10	37	11	2.88
ZZ111712		0.24	<0.001	<0.2	1.57	5	<10	150	<0.5	<2	0.33	0.6	7	30	10	2.36
ZZ111713		0.26	<0.001	<0.2	1.34	2	<10	110	<0.5	<2	0.31	<0.5	7	27	7	2.40



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ111674		<10	<1	0.25	10	0.50	222	<1	0.02	18	590	3	0.01	<2	5	31
ZZ111675		<10	<1	0.20	10	0.49	185	<1	0.02	18	630	2	0.01	<2	5	25
ZZ111676		<10	<1	0.13	10	0.50	263	1	0.02	17	900	2	0.01	<2	4	25
ZZ111677		10	<1	0.14	10	0.56	298	1	0.02	17	580	3	0.02	<2	4	28
ZZ111678		10	<1	0.11	10	0.59	261	1	0.02	18	670	4	0.02	2	5	32
ZZ111679		10	1	0.13	10	0.65	272	1	0.02	24	810	3	0.01	<2	5	32
ZZ111680		<10	<1	0.16	10	0.51	207	<1	0.02	18	700	<2	0.02	<2	4	23
ZZ111681		10	<1	0.12	10	0.65	326	1	0.03	19	240	3	0.02	<2	5	38
ZZ111682		10	<1	0.15	10	0.75	207	2	0.04	18	550	2	0.06	<2	5	69
ZZ111683		10	<1	0.16	10	0.77	239	1	0.05	21	430	4	0.04	<2	6	58
ZZ111684		10	<1	0.10	10	0.54	220	1	0.04	15	230	4	0.02	2	4	31
ZZ111685		10	<1	0.09	10	0.65	700	2	0.04	21	400	5	0.03	<2	5	57
ZZ111686		10	<1	0.18	10	0.88	308	1	0.06	20	800	3	0.04	<2	5	102
ZZ111687		10	<1	0.26	10	1.01	358	1	0.05	22	790	4	0.06	3	6	105
ZZ111688		<10	<1	0.13	10	0.59	227	<1	0.03	16	300	4	0.03	2	4	74
ZZ111689		<10	1	0.16	10	0.49	202	1	0.02	18	560	<2	0.02	<2	4	26
ZZ111690		<10	<1	0.13	10	0.54	281	<1	0.02	19	730	2	0.02	<2	4	28
ZZ111691		<10	<1	0.18	10	0.55	303	<1	0.02	17	760	3	0.02	<2	4	27
ZZ111692		10	<1	0.16	10	0.59	426	<1	0.02	19	790	4	0.02	<2	5	32
ZZ111693		10	<1	0.15	10	0.60	263	1	0.02	20	490	5	0.02	<2	4	28
ZZ111694		<10	<1	0.15	10	0.63	353	1	0.03	18	570	3	0.03	<2	4	40
ZZ111695		<10	<1	0.21	10	0.71	322	1	0.03	19	860	2	0.04	<2	5	64
ZZ111696		<10	<1	0.23	10	0.47	199	1	0.03	17	170	2	0.02	<2	4	27
ZZ111697		10	<1	0.15	10	0.59	225	1	0.03	19	400	5	0.02	<2	4	32
ZZ111698		10	<1	0.13	10	0.58	314	1	0.02	18	230	7	0.02	<2	4	26
ZZ111699		10	<1	0.13	10	0.45	400	1	0.02	18	500	5	0.02	2	3	37
ZZ111700		10	<1	0.13	10	0.67	297	1	0.01	24	270	5	0.01	<2	4	26
ZZ111701		10	<1	0.24	10	0.80	220	2	0.04	27	880	10	0.14	2	5	55
ZZ111702		10	<1	0.24	10	0.65	253	1	0.02	20	180	4	0.01	<2	5	27
ZZ111703		10	1	0.06	10	0.69	228	1	0.01	29	90	5	0.01	2	6	24
ZZ111704		10	<1	0.09	10	0.66	243	1	0.01	32	180	6	0.01	<2	4	21
ZZ111705		10	<1	0.11	10	0.66	359	1	0.01	30	290	6	0.02	<2	5	29
ZZ111706		10	<1	0.08	10	0.61	265	1	0.01	16	440	4	0.01	2	4	29
ZZ111707		10	<1	0.09	10	0.63	248	1	0.01	16	230	5	0.01	<2	4	27
ZZ111708		10	<1	0.19	10	0.63	244	1	0.01	18	350	5	0.02	<2	4	23
ZZ111709		10	<1	0.14	10	0.58	332	1	0.01	20	230	6	0.02	<2	4	23
ZZ111710		10	<1	0.13	10	0.63	352	1	0.02	22	370	6	0.02	<2	4	33
ZZ111711		10	<1	0.21	10	0.63	201	1	0.01	21	180	6	0.02	3	4	23
ZZ111712		10	<1	0.13	10	0.54	253	1	0.01	16	350	4	0.01	<2	3	24
ZZ111713		10	<1	0.16	<10	0.48	246	1	0.01	13	280	5	0.02	<2	3	22



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ111674		<20	0.16	<10	<10	64	<10	34
ZZ111675		<20	0.15	<10	<10	59	<10	36
ZZ111676		<20	0.13	<10	<10	59	<10	47
ZZ111677		<20	0.15	<10	<10	65	<10	38
ZZ111678		<20	0.15	<10	<10	82	<10	43
ZZ111679		<20	0.13	<10	<10	91	<10	43
ZZ111680		<20	0.13	<10	<10	58	<10	33
ZZ111681		<20	0.15	<10	<10	67	<10	40
ZZ111682		<20	0.16	<10	10	61	<10	37
ZZ111683		<20	0.17	<10	<10	69	<10	44
ZZ111684		<20	0.14	<10	<10	57	<10	32
ZZ111685		<20	0.15	<10	10	70	<10	53
ZZ111686		<20	0.16	<10	<10	64	<10	44
ZZ111687		<20	0.17	<10	<10	65	<10	50
ZZ111688		<20	0.14	<10	<10	56	<10	30
ZZ111689		<20	0.14	<10	<10	61	<10	33
ZZ111690		<20	0.13	<10	<10	62	<10	35
ZZ111691		<20	0.14	<10	<10	60	<10	47
ZZ111692		<20	0.15	<10	<10	63	<10	69
ZZ111693		<20	0.15	<10	<10	73	<10	65
ZZ111694		<20	0.13	<10	<10	57	<10	39
ZZ111695		<20	0.13	<10	<10	61	<10	42
ZZ111696		<20	0.13	<10	<10	59	<10	28
ZZ111697		<20	0.15	<10	<10	71	<10	45
ZZ111698		<20	0.15	<10	<10	71	<10	44
ZZ111699		<20	0.11	<10	<10	50	<10	41
ZZ111700		<20	0.16	<10	<10	79	<10	53
ZZ111701		<20	0.13	<10	<10	65	<10	51
ZZ111702		<20	0.15	<10	<10	63	<10	36
ZZ111703		<20	0.15	<10	<10	71	<10	43
ZZ111704		<20	0.16	<10	<10	70	<10	61
ZZ111705		<20	0.14	<10	<10	60	<10	67
ZZ111706		<20	0.13	<10	<10	58	<10	46
ZZ111707		<20	0.14	<10	<10	57	<10	41
ZZ111708		<20	0.14	<10	<10	64	<10	58
ZZ111709		<20	0.14	<10	<10	59	<10	66
ZZ111710		<20	0.13	<10	<10	57	<10	53
ZZ111711		<20	0.16	<10	<10	72	<10	54
ZZ111712		<20	0.15	<10	<10	63	<10	81
ZZ111713		<20	0.15	<10	<10	63	<10	71



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Sample Description	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ111714	0.24	<0.001	<0.2	1.40	3	<10	120	<0.5	<2	0.55	<0.5	9	28	20	2.14
ZZ111715	0.26	0.001	<0.2	1.69	5	<10	110	<0.5	<2	0.82	<0.5	9	35	26	2.51
ZZ111716	0.20	0.001	<0.2	1.84	2	<10	150	<0.5	<2	0.40	<0.5	9	37	17	2.26
ZZ111717	0.22	<0.001	<0.2	1.43	3	<10	170	<0.5	<2	0.44	<0.5	10	27	17	2.11
ZZ111718	0.22	0.074	<0.2	1.75	4	<10	150	<0.5	<2	0.54	<0.5	8	31	15	2.41
ZZ111719	0.26	0.052	<0.2	1.88	4	<10	120	<0.5	<2	0.58	<0.5	8	32	16	2.41
ZZ111720	0.32	0.003	<0.2	1.66	2	<10	130	<0.5	<2	0.79	<0.5	7	30	15	2.21
ZZ111721	0.42	<0.001	<0.2	1.52	4	<10	170	<0.5	<2	0.96	<0.5	8	29	17	2.12
ZZ111722	0.42	0.010	<0.2	1.85	3	<10	140	<0.5	<2	0.51	<0.5	9	39	14	2.52
ZZ111723	0.32	<0.001	<0.2	1.49	4	<10	110	<0.5	<2	0.34	<0.5	6	22	13	1.83
ZZ111724	0.20	<0.001	<0.2	1.67	3	<10	130	<0.5	2	0.25	<0.5	7	23	15	2.02
ZZ111725	0.32	0.006	<0.2	1.69	3	<10	180	<0.5	<2	0.91	<0.5	9	38	25	2.34
ZZ111726	0.30	<0.001	<0.2	1.73	4	<10	80	<0.5	<2	0.48	<0.5	10	31	10	2.76
ZZ111727	0.38	<0.001	<0.2	1.30	4	<10	130	<0.5	<2	0.84	<0.5	7	28	26	2.02
ZZ111728	0.44	0.002	<0.2	1.32	2	<10	100	<0.5	2	0.70	<0.5	6	27	23	1.93
ZZ111729	0.34	0.002	<0.2	1.55	4	<10	160	<0.5	2	0.90	<0.5	9	35	22	2.32
ZZ111730	0.26	0.003	<0.2	1.82	3	<10	190	<0.5	<2	1.07	<0.5	10	37	21	2.51
ZZ111731	0.24	0.001	<0.2	1.48	2	<10	140	<0.5	<2	0.80	<0.5	7	32	13	1.96
ZZ111732	0.20	0.002	<0.2	1.95	3	<10	220	<0.5	<2	0.78	<0.5	11	47	21	2.82
ZZ111733	0.28	0.015	<0.2	1.87	3	<10	190	<0.5	3	0.79	<0.5	9	33	19	2.32
ZZ111734	0.28	<0.001	<0.2	1.73	3	<10	110	<0.5	<2	0.62	<0.5	9	43	19	2.32
ZZ111735	0.20	<0.001	<0.2	1.92	3	<10	150	<0.5	<2	0.55	<0.5	11	35	24	2.71
ZZ111736	0.28	<0.001	<0.2	1.77	4	<10	150	<0.5	<2	0.50	<0.5	12	34	24	2.48
ZZ111737	0.20	<0.001	<0.2	1.93	5	<10	130	<0.5	<2	0.45	<0.5	12	35	24	2.62
ZZ111738	0.22	0.001	<0.2	1.99	4	<10	150	<0.5	<2	0.41	<0.5	11	33	22	2.35
ZZ111739	0.24	0.001	<0.2	2.02	5	<10	120	<0.5	<2	0.43	<0.5	10	36	15	2.83
ZZ111740	0.20	0.002	<0.2	1.98	4	<10	150	0.5	2	0.40	<0.5	14	37	17	2.88
ZZ111741	0.30	0.004	0.2	3.53	14	<10	100	1.5	<2	0.94	<0.5	17	49	43	3.65
ZZ111742	0.26	<0.001	<0.2	1.73	4	<10	130	<0.5	<2	0.50	<0.5	11	33	17	2.38
ZZ111743	0.22	<0.001	<0.2	1.98	5	<10	120	<0.5	2	0.48	<0.5	11	39	18	2.90
ZZ111744	0.28	<0.001	<0.2	1.56	3	<10	160	<0.5	<2	0.76	<0.5	10	29	16	2.27
ZZ111745	0.38	0.006	<0.2	1.81	5	<10	180	<0.5	2	1.21	<0.5	12	37	150	2.58
ZZ111746	0.34	<0.001	<0.2	2.07	4	<10	110	<0.5	<2	0.46	<0.5	14	38	24	2.90
ZZ111747	0.30	0.001	<0.2	1.64	4	<10	170	<0.5	<2	0.95	<0.5	10	33	39	2.23
ZZ111748	0.18	<0.001	<0.2	1.66	3	<10	80	<0.5	<2	0.53	<0.5	10	30	24	2.37



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ111714		<10	<1	0.32	10	0.55	312	1	0.03	19	620	5	0.02	<2	4	36
ZZ111715		10	<1	0.30	10	0.65	215	1	0.02	22	320	4	0.02	<2	4	35
ZZ111716		10	1	0.15	10	0.65	362	<1	0.01	23	370	3	0.01	<2	4	25
ZZ111717		10	<1	0.15	10	0.49	580	1	0.01	18	390	3	0.01	<2	3	29
ZZ111718		10	<1	0.10	10	0.57	378	1	0.01	15	300	4	0.02	<2	4	34
ZZ111719		10	<1	0.08	10	0.67	293	1	0.01	19	460	5	0.01	<2	4	34
ZZ111720		10	<1	0.11	10	0.58	201	<1	0.02	16	320	3	0.02	<2	4	41
ZZ111721		10	<1	0.10	10	0.64	441	<1	0.02	18	600	4	0.03	2	3	47
ZZ111722		10	<1	0.18	10	0.81	294	1	0.02	20	270	3	0.02	<2	5	31
ZZ111723		<10	<1	0.13	10	0.47	186	<1	0.01	13	460	2	0.01	<2	3	21
ZZ111724		10	<1	0.10	10	0.52	199	1	0.01	13	350	2	0.02	<2	3	19
ZZ111725		10	<1	0.22	10	0.77	351	<1	0.03	21	640	3	0.02	<2	5	43
ZZ111726		10	<1	0.18	10	0.73	365	1	0.01	16	280	4	0.02	2	4	25
ZZ111727		<10	<1	0.18	10	0.58	259	1	0.02	19	690	4	0.02	<2	4	43
ZZ111728		<10	1	0.13	10	0.56	290	1	0.02	17	550	3	0.02	<2	4	39
ZZ111729		<10	<1	0.23	10	0.73	383	1	0.03	19	730	4	0.02	2	5	49
ZZ111730		10	<1	0.28	10	0.76	434	1	0.02	22	480	2	0.04	3	5	51
ZZ111731		<10	<1	0.21	10	0.65	286	1	0.02	16	450	3	0.03	<2	4	40
ZZ111732		10	<1	0.28	10	0.90	415	<1	0.04	25	730	4	0.02	2	6	48
ZZ111733		10	<1	0.11	10	0.61	360	1	0.02	17	460	4	0.03	<2	5	44
ZZ111734		10	<1	0.16	10	0.71	276	<1	0.03	19	490	4	0.01	<2	6	32
ZZ111735		10	<1	0.27	10	0.66	444	1	0.03	20	360	6	0.01	<2	5	38
ZZ111736		10	<1	0.21	10	0.62	519	1	0.03	20	850	4	0.01	<2	4	35
ZZ111737		10	<1	0.16	10	0.66	566	1	0.02	20	430	6	0.01	<2	4	32
ZZ111738		10	<1	0.17	10	0.59	549	1	0.02	20	380	6	0.01	2	5	30
ZZ111739		10	<1	0.24	10	0.75	282	<1	0.02	22	360	5	<0.01	<2	5	29
ZZ111740		10	<1	0.25	10	0.67	515	1	0.02	23	480	6	0.01	<2	5	28
ZZ111741		10	<1	0.08	10	0.58	332	1	0.06	36	1240	18	0.03	<2	4	115
ZZ111742		10	<1	0.19	10	0.62	420	1	0.03	21	350	5	0.01	<2	4	34
ZZ111743		10	<1	0.33	10	0.74	263	1	0.03	25	290	7	0.01	<2	5	35
ZZ111744		10	<1	0.16	10	0.60	469	1	0.03	18	810	5	0.02	<2	4	45
ZZ111745		10	<1	0.24	10	0.75	255	1	0.04	32	870	7	0.04	<2	6	58
ZZ111746		10	<1	0.23	10	0.70	423	1	0.03	27	200	6	0.01	<2	5	30
ZZ111747		<10	<1	0.17	10	0.61	349	<1	0.04	26	480	4	0.02	<2	4	59
ZZ111748		10	<1	0.19	10	0.56	218	<1	0.03	28	180	6	0.01	<2	4	34





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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Ti	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm
LOR		20	0.01	10	10	1	10
Zn							2
ZZ111714	<20	0.12	<10	<10	52	<10	44
ZZ111715	<20	0.14	<10	<10	62	<10	42
ZZ111716	<20	0.14	<10	<10	58	<10	43
ZZ111717	<20	0.12	<10	<10	51	<10	59
ZZ111718	<20	0.13	<10	<10	66	<10	51
ZZ111719	<20	0.13	<10	<10	60	<10	46
ZZ111720	<20	0.14	<10	<10	57	<10	42
ZZ111721	<20	0.12	<10	<10	53	<10	37
ZZ111722	<20	0.16	<10	<10	64	<10	47
ZZ111723	<20	0.12	<10	<10	45	<10	34
ZZ111724	<20	0.14	<10	<10	49	<10	38
ZZ111725	<20	0.16	<10	<10	58	<10	49
ZZ111726	<20	0.18	<10	<10	74	<10	65
ZZ111727	<20	0.12	<10	<10	50	<10	42
ZZ111728	<20	0.13	<10	<10	50	<10	34
ZZ111729	<20	0.17	<10	<10	63	<10	43
ZZ111730	<20	0.16	<10	<10	63	<10	47
ZZ111731	<20	0.14	<10	<10	51	<10	38
ZZ111732	<20	0.18	<10	<10	64	<10	50
ZZ111733	<20	0.13	<10	<10	58	<10	47
ZZ111734	<20	0.18	<10	<10	65	<10	47
ZZ111735	<20	0.16	<10	<10	68	<10	54
ZZ111736	<20	0.13	<10	<10	62	<10	57
ZZ111737	<20	0.16	<10	<10	67	<10	60
ZZ111738	<20	0.16	<10	<10	61	<10	67
ZZ111739	<20	0.17	<10	<10	72	<10	56
ZZ111740	<20	0.17	<10	<10	68	<10	81
ZZ111741	<20	0.10	<10	<10	52	<10	53
ZZ111742	<20	0.14	<10	<10	60	<10	44
ZZ111743	<20	0.17	<10	<10	68	<10	52
ZZ111744	<20	0.12	<10	<10	53	<10	43
ZZ111745	<20	0.15	<10	<10	65	<10	55
ZZ111746	<20	0.16	<10	<10	69	<10	54
ZZ111747	<20	0.13	<10	<10	57	<10	41
ZZ111748	<20	0.14	<10	<10	57	<10	47



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 Account: MTT

Project: Moraine

**CERTIFICATE OF ANALYSIS WH16132836**

<b>CERTIFICATE COMMENTS</b>									
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">Au-ICP21</td> <td style="width: 25%;">LOG-22</td> <td style="width: 25%;">ME-ICP41</td> <td style="width: 25%;">SCR-41</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	Au-ICP21	LOG-22	ME-ICP41	SCR-41	WEI-21			
Au-ICP21	LOG-22	ME-ICP41	SCR-41						
WEI-21									



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 Account: MTT

**CERTIFICATE WH16132838**

Project: Moraine

This report is for 244 Soil samples submitted to our lab in Whitehorse, YT, Canada on 12-AUG-2016.

The following have access to data associated with this certificate:

HEATHER BURRELL	JOAN MARIACHER
-----------------	----------------

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

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

To: STRATEGIC METALS LTD.  
 ATTN: JOAN MARIACHER  
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
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 VANCOUVER BC V6B 1L8

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

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

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH16132838**

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ111750		0.34	0.003	<0.2	1.49	6	<10	130	<0.5	<2	1.31	<0.5	10	31	57	2.21
ZZ111751		0.44	0.001	<0.2	1.68	6	<10	150	<0.5	<2	0.64	<0.5	12	36	22	2.50
ZZ111752		0.22	0.001	<0.2	1.81	3	<10	130	<0.5	<2	0.97	<0.5	12	47	36	2.44
ZZ111753		0.26	0.004	<0.2	1.85	2	<10	120	<0.5	<2	1.23	<0.5	15	50	30	2.74
ZZ111754		0.32	0.003	<0.2	1.90	3	<10	160	<0.5	<2	1.59	<0.5	13	48	77	2.73
ZZ111755		0.32	0.008	<0.2	2.10	5	<10	100	<0.5	<2	0.35	<0.5	16	52	29	3.42
ZZ111756		0.24	<0.001	<0.2	2.95	13	<10	210	0.6	<2	0.94	<0.5	16	53	38	3.49
ZZ111757		0.34	<0.001	<0.2	2.12	3	<10	120	<0.5	<2	0.40	<0.5	14	40	23	2.87
ZZ111758		0.38	0.001	0.2	2.09	5	<10	150	<0.5	<2	0.68	<0.5	13	44	34	2.76
ZZ111759		0.26	0.002	0.2	1.36	2	10	260	0.5	<2	4.61	0.6	13	27	65	2.33
ZZ111760		0.22	0.001	<0.2	1.65	3	<10	100	<0.5	<2	0.70	<0.5	12	32	29	2.33
ZZ111761		0.24	0.003	<0.2	2.17	5	<10	200	0.5	<2	0.80	<0.5	16	48	43	2.96
ZZ111762		0.22	0.018	<0.2	1.85	4	<10	130	<0.5	<2	0.45	<0.5	11	34	22	2.45
ZZ111763		0.30	0.001	<0.2	1.36	3	<10	100	<0.5	<2	0.42	<0.5	8	27	18	1.94
ZZ111764		0.36	0.002	<0.2	1.41	3	<10	110	<0.5	<2	0.74	<0.5	9	29	16	2.03
ZZ111765		0.26	0.004	<0.2	1.54	4	<10	130	<0.5	<2	1.58	0.7	16	35	175	2.44
ZZ111766		0.32	0.003	<0.2	1.70	2	<10	140	<0.5	<2	0.45	<0.5	10	35	23	2.32
ZZ111767		0.38	<0.001	<0.2	1.80	3	<10	210	<0.5	<2	0.63	<0.5	14	37	30	2.57
ZZ111768		0.32	0.003	<0.2	1.50	5	<10	120	<0.5	<2	1.22	0.7	10	32	81	2.20
ZZ111769		0.32	0.005	0.2	1.66	5	<10	120	0.5	<2	1.02	1.1	14	33	124	2.52
ZZ111770		0.42	<0.001	<0.2	1.71	2	<10	110	<0.5	<2	0.84	<0.5	9	33	13	2.34
ZZ111771		0.32	0.004	<0.2	1.61	4	<10	100	<0.5	<2	1.45	<0.5	11	33	88	2.14
ZZ111772		0.28	0.005	<0.2	1.33	23	<10	60	<0.5	<2	2.77	0.5	17	42	76	3.07
ZZ111773		0.32	0.004	<0.2	1.62	20	<10	30	0.7	<2	0.63	<0.5	22	64	46	5.67
ZZ111774		0.18	0.019	<0.2	2.09	3	<10	140	<0.5	<2	0.65	<0.5	15	44	26	2.84
ZZ111775		0.32	0.001	<0.2	1.24	3	<10	70	<0.5	<2	0.33	<0.5	7	25	9	1.97
ZZ111776		0.30	0.005	<0.2	1.30	<2	<10	140	<0.5	<2	0.72	<0.5	9	26	24	2.10
ZZ111777		0.24	0.002	<0.2	1.66	3	<10	180	<0.5	<2	0.87	<0.5	9	32	26	2.37
ZZ111778		0.42	0.002	<0.2	1.41	3	<10	150	<0.5	<2	1.00	<0.5	9	27	24	2.10
ZZ111779		0.46	0.019	<0.2	1.39	<2	<10	160	<0.5	2	2.24	<0.5	8	24	34	2.14
ZZ111780		0.40	0.013	0.2	1.57	4	<10	160	<0.5	<2	1.59	<0.5	11	32	129	2.36
ZZ111781		0.42	0.004	0.2	1.82	3	<10	170	0.5	<2	0.86	<0.5	10	32	191	2.43
ZZ111782		0.44	0.029	0.2	2.09	5	<10	110	<0.5	5	0.56	<0.5	14	62	195	3.18
ZZ111783		0.34	0.008	0.2	1.50	2	<10	140	<0.5	<2	0.72	<0.5	11	30	90	2.14
ZZ111784		0.32	0.004	<0.2	1.80	3	<10	200	<0.5	<2	0.66	<0.5	11	42	71	2.71
ZZ111785		0.30	0.003	<0.2	1.77	4	<10	190	<0.5	<2	1.07	<0.5	12	36	54	2.56
ZZ111786		0.42	0.021	0.2	1.73	3	<10	170	<0.5	<2	1.08	<0.5	12	37	58	2.48
ZZ111787		0.42	0.002	<0.2	1.39	2	<10	130	<0.5	<2	0.99	<0.5	7	29	125	2.17
ZZ111788		0.46	0.002	<0.2	1.77	3	<10	170	<0.5	<2	0.63	<0.5	11	37	34	2.57
ZZ111789		0.40	0.003	<0.2	1.68	2	<10	150	<0.5	<2	0.71	<0.5	9	38	46	2.58



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 Account: MTT

Project: Moraine

**CERTIFICATE OF ANALYSIS WH16132838**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ111750		<10	<1	0.20	10	0.61	275	<1	0.03	20	850	6	0.04	<2	5	77
ZZ111751		10	<1	0.21	10	0.68	352	1	0.03	21	290	5	<0.01	<2	5	40
ZZ111752		10	<1	0.22	10	0.79	324	<1	0.04	26	460	4	0.02	<2	6	58
ZZ111753		10	<1	0.40	10	0.83	603	1	0.04	33	510	6	0.03	<2	6	80
ZZ111754		10	<1	0.31	10	0.80	316	1	0.03	38	600	5	0.04	<2	6	99
ZZ111755		10	<1	0.21	10	0.85	340	2	0.02	35	350	8	0.01	<2	6	23
ZZ111756		10	<1	0.17	10	0.80	317	1	0.07	36	220	16	0.01	<2	7	73
ZZ111757		10	<1	0.14	10	0.69	330	1	0.02	24	360	8	<0.01	<2	5	32
ZZ111758		10	<1	0.36	10	0.80	417	1	0.03	27	420	6	0.01	<2	6	52
ZZ111759		<10	<1	0.35	10	0.63	711	3	0.02	23	1150	14	0.10	<2	3	185
ZZ111760		10	<1	0.31	10	0.60	465	1	0.01	23	410	6	0.01	<2	4	38
ZZ111761		10	<1	0.48	10	0.83	539	1	0.03	35	610	8	0.03	<2	6	58
ZZ111762		10	<1	0.22	10	0.64	415	2	0.02	24	370	5	<0.01	<2	5	28
ZZ111763		<10	<1	0.19	10	0.50	380	1	0.02	18	730	5	<0.01	<2	4	24
ZZ111764		10	<1	0.11	10	0.56	280	2	0.02	15	290	5	0.01	<2	4	42
ZZ111765		10	<1	0.18	10	0.63	746	3	0.03	37	840	6	0.06	<2	5	98
ZZ111766		<10	<1	0.20	10	0.61	300	1	0.02	23	370	4	<0.01	<2	5	31
ZZ111767		10	<1	0.10	10	0.56	642	1	0.02	23	450	7	<0.01	<2	5	43
ZZ111768		<10	<1	0.17	10	0.61	385	1	0.03	29	470	6	0.04	<2	5	70
ZZ111769		10	<1	0.19	10	0.61	456	1	0.03	51	500	6	0.02	<2	5	64
ZZ111770		10	<1	0.15	10	0.68	257	1	0.02	16	250	5	0.01	<2	5	51
ZZ111771		<10	<1	0.20	10	0.61	231	1	0.03	32	690	5	0.06	<2	5	80
ZZ111772		<10	<1	0.24	20	0.68	403	1	0.02	52	540	10	0.01	<2	5	97
ZZ111773		10	<1	0.02	30	0.69	373	1	0.02	50	470	11	0.02	<2	10	71
ZZ111774		10	<1	0.27	10	0.78	568	1	0.02	27	610	7	0.02	<2	6	41
ZZ111775		<10	<1	0.27	10	0.44	181	<1	0.02	12	220	4	<0.01	<2	4	21
ZZ111776		<10	<1	0.37	10	0.54	382	<1	0.03	16	650	3	<0.01	<2	5	39
ZZ111777		10	<1	0.36	10	0.72	341	<1	0.06	19	420	4	<0.01	<2	6	54
ZZ111778		<10	<1	0.26	10	0.57	329	<1	0.03	16	660	3	0.01	<2	5	57
ZZ111779		<10	<1	0.30	10	0.60	348	1	0.04	19	780	5	0.04	<2	4	85
ZZ111780		10	<1	0.24	10	0.66	491	3	0.03	22	660	10	0.06	<2	5	67
ZZ111781		10	<1	0.22	10	0.68	323	3	0.03	24	410	10	0.02	<2	5	46
ZZ111782		10	<1	0.09	10	0.92	330	12	0.02	26	230	18	0.01	<2	5	34
ZZ111783		<10	<1	0.21	10	0.62	293	3	0.03	18	750	6	0.01	<2	5	38
ZZ111784		10	<1	0.39	10	0.89	390	3	0.04	21	580	8	0.01	<2	6	42
ZZ111785		10	<1	0.33	10	0.85	589	5	0.04	21	570	6	0.02	<2	5	57
ZZ111786		10	<1	0.28	10	0.79	293	3	0.04	23	610	7	0.02	<2	5	53
ZZ111787		<10	<1	0.17	10	0.61	209	2	0.03	20	500	4	0.02	<2	4	47
ZZ111788		10	<1	0.25	10	0.78	369	3	0.03	21	350	6	0.01	<2	5	39
ZZ111789		10	<1	0.24	10	0.73	311	2	0.03	22	400	6	0.01	<2	5	42



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Project: Moraine

**CERTIFICATE OF ANALYSIS WH16132838**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ111750		<20	0.11	<10	<10	44	<10	96
ZZ111751		<20	0.14	<10	<10	59	<10	69
ZZ111752		<20	0.14	<10	<10	62	<10	53
ZZ111753		<20	0.14	<10	<10	60	<10	59
ZZ111754		<20	0.14	<10	<10	62	<10	61
ZZ111755		<20	0.14	<10	<10	71	<10	54
ZZ111756		<20	0.18	<10	<10	79	<10	86
ZZ111757		<20	0.15	<10	<10	68	<10	91
ZZ111758		<20	0.15	<10	<10	63	<10	59
ZZ111759		<20	0.05	<10	<10	45	<10	105
ZZ111760		<20	0.12	<10	<10	54	<10	52
ZZ111761		<20	0.15	<10	<10	67	<10	74
ZZ111762		<20	0.15	<10	<10	59	<10	48
ZZ111763		<20	0.11	<10	<10	48	<10	39
ZZ111764		<20	0.12	<10	<10	51	<10	39
ZZ111765		<20	0.11	<10	<10	53	<10	93
ZZ111766		<20	0.13	<10	<10	56	<10	42
ZZ111767		<20	0.12	<10	<10	62	<10	74
ZZ111768		<20	0.11	<10	<10	47	<10	82
ZZ111769		<20	0.12	<10	<10	51	<10	141
ZZ111770		<20	0.15	<10	<10	57	<10	48
ZZ111771		<20	0.12	<10	<10	49	<10	51
ZZ111772		<20	0.10	<10	<10	45	<10	45
ZZ111773		<20	0.04	<10	<10	48	<10	67
ZZ111774		<20	0.16	<10	<10	68	<10	88
ZZ111775		<20	0.13	<10	<10	50	<10	34
ZZ111776		<20	0.12	<10	<10	48	<10	47
ZZ111777		<20	0.16	<10	<10	55	<10	51
ZZ111778		<20	0.14	<10	<10	50	<10	50
ZZ111779		<20	0.14	<10	<10	46	<10	53
ZZ111780		<20	0.13	<10	10	57	<10	49
ZZ111781		<20	0.15	<10	<10	56	<10	68
ZZ111782		<20	0.16	<10	<10	82	<10	58
ZZ111783		<20	0.14	<10	<10	53	<10	42
ZZ111784		<20	0.17	<10	<10	68	<10	50
ZZ111785		<20	0.16	<10	<10	63	<10	48
ZZ111786		<20	0.15	<10	<10	64	<10	44
ZZ111787		<20	0.13	<10	<10	55	<10	38
ZZ111788		<20	0.18	<10	<10	68	<10	45
ZZ111789		<20	0.15	<10	<10	67	<10	47



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Project: Moraine

**CERTIFICATE OF ANALYSIS WH16132838**

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ111790		0.34	0.001	0.2	1.72	4	<10	90	<0.5	2	0.60	<0.5	9	37	24	2.49
ZZ111791		0.24	0.002	<0.2	1.41	2	<10	110	<0.5	<2	2.24	<0.5	8	30	22	2.29
ZZ111792		0.28	0.003	0.2	1.29	2	10	150	<0.5	<2	4.25	<0.5	8	27	42	2.09
ZZ111793		0.38	0.002	<0.2	1.56	4	<10	90	<0.5	<2	1.65	<0.5	9	41	24	2.62
ZZ111794		0.32	0.003	<0.2	1.83	3	10	200	<0.5	<2	2.20	<0.5	12	39	31	2.71
ZZ111795		0.28	0.005	<0.2	1.91	4	<10	130	<0.5	2	0.67	<0.5	13	36	15	2.85
ZZ111796		0.24	0.001	<0.2	2.01	4	<10	110	<0.5	<2	0.62	<0.5	10	41	26	2.80
ZZ111797		0.24	0.001	<0.2	1.96	4	<10	120	<0.5	<2	0.64	<0.5	11	40	20	2.94
ZZ111798		0.36	0.001	<0.2	1.68	4	<10	70	<0.5	<2	0.44	<0.5	9	37	17	2.57
ZZ111799		0.32	0.003	<0.2	1.62	3	<10	140	<0.5	<2	2.77	<0.5	9	33	29	2.51
ZZ111800		0.30	0.002	<0.2	1.89	3	<10	150	<0.5	<2	1.35	<0.5	10	39	27	2.79
ZZ111801		0.32	0.001	<0.2	1.82	4	<10	120	<0.5	<2	0.71	<0.5	10	37	23	2.77
ZZ111802		0.48	0.003	0.2	1.67	3	<10	150	<0.5	<2	1.29	<0.5	8	35	26	2.56
ZZ111803		0.48	0.002	<0.2	1.91	4	<10	170	<0.5	<2	2.33	<0.5	9	40	27	2.84
ZZ111804		0.38	0.002	<0.2	1.99	3	<10	240	<0.5	<2	1.98	<0.5	11	41	41	2.92
ZZ111805		0.34	0.003	<0.2	1.73	3	10	150	<0.5	<2	2.29	<0.5	9	36	32	2.66
ZZ111806		0.46	0.002	<0.2	1.79	3	<10	150	<0.5	<2	2.75	<0.5	10	38	25	2.76
ZZ111807		0.34	0.003	0.2	1.61	3	10	140	<0.5	<2	1.79	<0.5	9	33	25	2.34
ZZ111808		0.32	0.003	<0.2	1.94	3	<10	170	<0.5	<2	2.43	<0.5	10	40	26	2.86
ZZ111809		0.40	0.002	<0.2	1.58	3	<10	180	<0.5	<2	4.24	<0.5	9	32	31	2.46
ZZ111810		0.34	0.001	<0.2	1.44	2	<10	70	<0.5	<2	0.61	<0.5	8	31	18	2.37
ZZ111811		0.30	0.001	<0.2	1.45	3	<10	80	<0.5	<2	0.75	<0.5	7	30	12	2.10
ZZ111812		0.42	0.005	<0.2	1.53	3	<10	130	<0.5	<2	3.87	<0.5	9	32	22	2.48
ZZ111813		0.36	0.002	<0.2	1.70	2	<10	120	<0.5	<2	2.58	<0.5	9	35	26	2.56
ZZ111814		0.28	0.002	<0.2	1.94	4	<10	110	<0.5	<2	0.72	<0.5	11	41	26	2.87
ZZ111815		0.26	0.002	<0.2	1.79	5	<10	90	<0.5	<2	0.55	<0.5	10	38	18	2.69
ZZ111816		0.32	0.002	<0.2	1.91	4	<10	120	<0.5	<2	0.53	<0.5	11	41	20	2.75
ZZ111817		0.24	0.001	<0.2	1.52	2	<10	80	<0.5	<2	0.51	<0.5	9	31	11	2.40
ZZ111818		0.22	0.001	<0.2	1.23	3	<10	70	<0.5	<2	0.40	<0.5	7	27	8	2.17
ZZ111819		0.36	0.003	<0.2	1.33	2	<10	80	<0.5	<2	0.48	<0.5	7	29	12	2.10
ZZ111820		0.32	0.001	<0.2	1.52	3	<10	110	<0.5	<2	0.43	<0.5	11	32	13	2.43
ZZ111821		0.28	0.003	<0.2	1.67	2	<10	120	<0.5	<2	0.47	<0.5	10	31	15	2.46
ZZ111822		0.28	0.005	<0.2	1.60	2	<10	200	<0.5	<2	0.65	<0.5	11	30	36	2.44
ZZ111823		0.30	0.001	<0.2	1.69	3	<10	150	<0.5	<2	0.44	<0.5	11	33	14	2.68
ZZ111824		0.32	0.003	<0.2	1.36	2	<10	150	<0.5	<2	0.43	<0.5	8	27	22	2.25
ZZ111825		0.32	0.001	<0.2	1.44	2	<10	130	<0.5	<2	0.49	<0.5	9	31	16	2.32
ZZ111826		0.36	0.003	0.2	1.64	4	<10	140	<0.5	<2	0.58	<0.5	11	37	27	2.66
ZZ111827		0.30	0.001	0.2	1.50	2	<10	140	<0.5	<2	0.54	<0.5	9	33	11	2.43
ZZ111828		0.34	0.002	<0.2	1.47	3	<10	100	<0.5	<2	0.46	<0.5	9	32	15	2.29
ZZ111829		0.28	0.002	<0.2	1.67	3	<10	150	<0.5	<2	0.49	<0.5	13	38	17	2.56



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ111790		10	<1	0.20	10	0.66	255	2	0.02	24	260	6	0.01	<2	4	34
ZZ111791		<10	<1	0.25	10	0.77	308	7	0.03	17	590	3	0.04	<2	4	130
ZZ111792		<10	<1	0.24	10	0.72	335	5	0.04	19	840	4	0.05	<2	4	210
ZZ111793		10	<1	0.22	10	0.86	254	4	0.04	23	830	3	0.02	<2	5	85
ZZ111794		10	<1	0.25	10	0.85	402	8	0.04	26	850	5	0.03	<2	6	118
ZZ111795		10	<1	0.10	10	0.65	799	3	0.02	19	540	5	<0.01	<2	5	41
ZZ111796		10	<1	0.19	10	0.72	292	1	0.03	24	370	3	<0.01	<2	7	42
ZZ111797		10	<1	0.18	10	0.73	329	1	0.03	25	400	4	0.01	<2	5	40
ZZ111798		10	<1	0.21	10	0.65	234	1	0.02	21	230	2	<0.01	2	6	28
ZZ111799		10	<1	0.26	10	0.86	437	1	0.05	25	1000	4	0.02	<2	6	101
ZZ111800		10	<1	0.22	10	0.83	359	1	0.04	24	410	5	0.01	<2	6	101
ZZ111801		10	<1	0.16	10	0.73	313	1	0.03	22	300	6	0.01	<2	6	54
ZZ111802		10	<1	0.26	10	0.86	344	1	0.05	23	810	4	0.03	<2	5	89
ZZ111803		10	<1	0.30	10	0.99	355	1	0.06	24	820	4	0.03	<2	6	105
ZZ111804		10	<1	0.28	10	1.07	419	1	0.05	30	660	4	0.05	<2	6	149
ZZ111805		10	<1	0.31	10	0.82	426	1	0.04	26	860	5	0.04	<2	6	103
ZZ111806		10	<1	0.35	10	0.88	455	1	0.04	25	1030	4	0.02	<2	6	87
ZZ111807		<10	<1	0.27	10	0.76	447	1	0.04	23	910	5	0.08	2	5	92
ZZ111808		10	<1	0.20	10	1.00	344	1	0.05	24	800	4	0.01	<2	6	87
ZZ111809		<10	<1	0.27	10	0.81	389	1	0.04	25	830	3	0.05	<2	5	197
ZZ111810		<10	<1	0.13	10	0.59	346	<1	0.02	21	440	3	<0.01	<2	5	33
ZZ111811		<10	<1	0.25	10	0.62	195	1	0.02	18	500	3	0.01	<2	5	46
ZZ111812		<10	<1	0.27	10	0.80	354	1	0.05	22	960	4	0.02	<2	5	133
ZZ111813		<10	<1	0.26	10	0.82	287	1	0.05	24	600	4	0.03	<2	6	139
ZZ111814		10	<1	0.32	20	0.81	280	1	0.04	26	310	5	<0.01	<2	7	45
ZZ111815		10	<1	0.29	10	0.72	260	1	0.03	21	300	4	<0.01	<2	6	36
ZZ111816		10	<1	0.30	10	0.73	306	1	0.03	26	320	5	<0.01	3	6	38
ZZ111817		10	<1	0.25	10	0.56	223	1	0.02	18	170	4	<0.01	<2	4	29
ZZ111818		<10	<1	0.16	10	0.49	198	1	0.01	13	190	4	<0.01	<2	3	25
ZZ111819		<10	<1	0.22	10	0.52	204	1	0.02	17	490	4	<0.01	<2	4	28
ZZ111820		10	<1	0.27	10	0.54	419	1	0.02	19	560	3	<0.01	<2	4	26
ZZ111821		10	<1	0.28	10	0.63	241	1	0.01	19	410	5	<0.01	<2	4	26
ZZ111822		10	<1	0.34	10	0.62	539	1	0.02	19	790	7	0.01	<2	4	43
ZZ111823		10	<1	0.38	10	0.66	415	1	0.02	18	590	6	<0.01	2	4	34
ZZ111824		<10	<1	0.45	10	0.56	356	1	0.02	15	470	4	<0.01	<2	4	30
ZZ111825		<10	<1	0.32	10	0.58	360	1	0.02	17	930	5	<0.01	<2	5	29
ZZ111826		10	<1	0.44	10	0.71	363	2	0.02	25	550	5	<0.01	<2	6	33
ZZ111827		10	<1	0.25	10	0.59	391	2	0.02	18	400	5	<0.01	<2	4	32
ZZ111828		<10	<1	0.30	10	0.60	273	2	0.02	18	480	5	<0.01	<2	5	28
ZZ111829		10	<1	0.14	10	0.75	505	8	0.02	21	490	7	<0.01	<2	4	30





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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Ti	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm
LOR		20	0.01	10	10	1	10
Zn		2					
ZZ111790	<20	0.16	<10	<10	69	<10	38
ZZ111791	<20	0.13	<10	<10	56	<10	41
ZZ111792	<20	0.12	<10	<10	51	<10	47
ZZ111793	<20	0.16	<10	<10	74	<10	44
ZZ111794	<20	0.17	<10	<10	68	<10	50
ZZ111795	<20	0.15	<10	<10	77	<10	64
ZZ111796	<20	0.19	<10	<10	73	<10	42
ZZ111797	<20	0.17	<10	<10	81	<10	51
ZZ111798	<20	0.17	<10	<10	71	<10	35
ZZ111799	<20	0.17	<10	<10	62	<10	50
ZZ111800	<20	0.17	<10	<10	70	<10	45
ZZ111801	<20	0.16	<10	<10	69	<10	43
ZZ111802	<20	0.16	<10	<10	63	<10	47
ZZ111803	<20	0.19	<10	<10	70	<10	55
ZZ111804	<20	0.18	<10	<10	69	<10	60
ZZ111805	<20	0.16	<10	<10	62	<10	53
ZZ111806	<20	0.18	<10	<10	67	<10	60
ZZ111807	<20	0.14	<10	<10	54	<10	49
ZZ111808	<20	0.20	<10	<10	72	<10	56
ZZ111809	<20	0.15	<10	<10	58	<10	48
ZZ111810	<20	0.15	<10	<10	66	<10	34
ZZ111811	<20	0.14	<10	<10	54	<10	38
ZZ111812	<20	0.17	<10	<10	63	<10	48
ZZ111813	<20	0.16	<10	<10	66	<10	44
ZZ111814	<20	0.19	<10	<10	72	<10	44
ZZ111815	<20	0.17	<10	<10	69	<10	43
ZZ111816	<20	0.18	<10	<10	71	<10	44
ZZ111817	<20	0.16	<10	<10	65	<10	35
ZZ111818	<20	0.13	<10	<10	61	<10	31
ZZ111819	<20	0.13	<10	<10	56	<10	34
ZZ111820	<20	0.14	<10	<10	60	<10	54
ZZ111821	<20	0.15	<10	<10	65	<10	56
ZZ111822	<20	0.13	<10	<10	62	<10	54
ZZ111823	<20	0.14	<10	<10	65	<10	56
ZZ111824	<20	0.13	<10	<10	55	<10	45
ZZ111825	<20	0.14	<10	<10	57	<10	55
ZZ111826	<20	0.16	<10	<10	70	<10	46
ZZ111827	<20	0.15	<10	<10	63	<10	50
ZZ111828	<20	0.14	<10	<10	58	<10	38
ZZ111829	<20	0.16	<10	<10	66	<10	46



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ111830		0.34	0.003	0.2	1.79	2	<10	180	<0.5	<2	0.86	<0.5	12	56	97	2.67
ZZ111831		0.34	0.002	<0.2	1.56	4	<10	130	<0.5	<2	0.80	<0.5	10	33	33	2.45
ZZ111832		0.50	0.002	<0.2	1.63	3	<10	150	<0.5	2	0.61	<0.5	9	32	31	2.31
ZZ111833		0.38	0.002	<0.2	1.93	3	<10	200	<0.5	<2	0.55	<0.5	11	38	20	2.73
ZZ111834		0.30	0.001	<0.2	1.68	3	<10	200	<0.5	<2	0.59	<0.5	10	31	15	2.34
ZZ111835		0.32	0.009	0.9	1.78	3	<10	180	0.5	<2	1.61	0.8	12	40	235	2.79
ZZ111836		0.26	0.003	0.4	1.69	3	<10	350	<0.5	<2	1.26	0.7	11	34	35	2.45
ZZ111837		0.32	0.002	<0.2	2.07	3	<10	130	<0.5	<2	0.44	<0.5	11	44	16	2.82
ZZ111838		0.28	0.004	0.3	1.74	3	<10	180	<0.5	<2	0.63	<0.5	10	33	74	2.51
ZZ111839		0.32	0.002	0.2	1.84	2	<10	150	<0.5	<2	0.61	<0.5	9	37	32	2.65
ZZ111840		0.28	0.003	0.3	1.65	3	<10	120	<0.5	<2	0.50	<0.5	9	34	18	2.56
ZZ111841		0.28	0.002	0.3	1.65	2	<10	100	<0.5	<2	0.54	0.5	9	33	16	2.48
ZZ111842		0.28	0.006	<0.2	1.58	2	<10	120	<0.5	<2	0.56	0.9	13	36	38	2.57
ZZ111843		0.26	0.003	0.3	1.68	<2	<10	130	<0.5	2	0.59	<0.5	11	35	163	2.57
ZZ111844		0.32	0.001	<0.2	1.67	5	<10	110	<0.5	<2	0.58	<0.5	11	35	29	2.47
ZZ111845		0.36	0.001	<0.2	1.84	9	10	300	0.6	<2	2.58	<0.5	15	67	31	3.67
ZZ111846		0.44	0.002	<0.2	1.60	3	<10	100	<0.5	<2	0.60	<0.5	7	33	16	2.44
ZZ111847		0.44	0.003	0.2	1.49	3	<10	130	<0.5	<2	2.11	<0.5	8	32	26	2.40
ZZ111848		0.32	0.001	0.2	1.55	4	<10	120	<0.5	<2	1.36	<0.5	8	32	30	2.43
ZZ111849		0.50	0.004	<0.2	1.54	8	<10	160	<0.5	<2	3.10	<0.5	11	37	48	2.64
ZZ111850		0.40	0.001	<0.2	1.41	2	<10	140	<0.5	<2	5.65	<0.5	9	28	24	2.25
ZZ111851		0.38	0.003	<0.2	1.34	3	10	180	<0.5	<2	6.33	<0.5	9	28	84	1.99
ZZ111852		0.56	0.002	<0.2	1.22	2	<10	160	<0.5	<2	5.57	<0.5	8	26	38	1.89
ZZ111853		0.42	0.004	<0.2	1.56	5	<10	170	<0.5	<2	0.94	<0.5	8	32	192	2.43
ZZ111854		0.28	0.003	<0.2	1.89	3	<10	100	0.5	<2	0.56	<0.5	11	37	95	2.60
ZZ111855		0.42	0.004	<0.2	1.44	3	<10	190	<0.5	<2	2.46	<0.5	10	33	35	2.38
ZZ111856		0.32	0.002	<0.2	1.85	5	<10	180	<0.5	<2	0.98	<0.5	15	68	78	2.79
ZZ111857		0.28	0.003	<0.2	1.55	5	<10	100	<0.5	<2	0.74	<0.5	9	35	24	2.48
ZZ111858		0.32	0.002	<0.2	1.14	3	<10	100	<0.5	<2	3.27	<0.5	6	25	46	1.87
ZZ111859		0.34	0.003	0.2	1.52	6	10	150	<0.5	<2	1.12	<0.5	10	33	49	2.43
ZZ111860		0.44	0.002	<0.2	1.27	3	<10	110	<0.5	<2	3.03	<0.5	8	30	25	2.06
ZZ111861		0.26	0.001	<0.2	1.59	5	<10	100	<0.5	2	0.38	<0.5	7	34	12	2.25
ZZ111862		0.24	0.073	<0.2	1.80	4	<10	130	<0.5	2	0.42	<0.5	10	37	12	2.80
ZZ111863		0.32	0.003	<0.2	1.42	3	<10	110	<0.5	<2	2.23	<0.5	8	30	19	2.23
ZZ111864		0.34	0.002	<0.2	1.50	3	<10	90	<0.5	<2	0.41	<0.5	9	35	13	2.32
ZZ111865		0.26	0.001	<0.2	1.89	5	<10	100	<0.5	<2	0.43	<0.5	10	39	14	2.66
ZZ111866		0.30	0.003	<0.2	1.83	4	<10	150	<0.5	<2	0.94	<0.5	9	37	24	2.59
ZZ111867		0.18	0.001	<0.2	1.49	2	<10	100	<0.5	<2	0.39	<0.5	10	32	9	2.48
ZZ111868		0.22	0.001	<0.2	1.77	5	<10	120	<0.5	<2	0.55	<0.5	8	35	16	2.31
ZZ111869		0.28	0.002	<0.2	1.48	5	<10	100	<0.5	<2	0.54	<0.5	7	33	11	2.27



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ111830		10	<1	0.15	10	0.92	381	6	0.03	27	470	11	0.02	<2	6	46
ZZ111831		<10	<1	0.14	10	0.69	302	21	0.03	19	850	5	<0.01	<2	5	43
ZZ111832		10	<1	0.12	10	0.60	257	12	0.02	18	440	5	<0.01	<2	4	35
ZZ111833		10	<1	0.15	10	0.80	395	17	0.02	24	530	5	<0.01	<2	6	33
ZZ111834		10	<1	0.12	10	0.65	516	20	0.03	19	610	3	<0.01	<2	4	39
ZZ111835		10	<1	0.22	20	0.86	538	25	0.02	24	650	39	0.06	<2	6	82
ZZ111836		10	<1	0.08	10	0.63	643	30	0.02	21	880	7	0.05	<2	5	63
ZZ111837		10	<1	0.22	10	0.78	304	16	0.02	24	200	7	<0.01	<2	5	29
ZZ111838		10	<1	0.20	10	0.64	500	17	0.02	22	460	5	0.01	<2	4	38
ZZ111839		10	<1	0.29	10	0.76	262	9	0.02	22	280	8	0.01	2	5	40
ZZ111840		10	<1	0.33	10	0.69	257	4	0.02	19	450	15	0.01	<2	4	30
ZZ111841		10	<1	0.29	10	0.67	247	2	0.02	18	770	14	0.01	<2	4	34
ZZ111842		10	<1	0.36	10	0.71	488	3	0.02	17	410	16	0.02	<2	4	36
ZZ111843		10	<1	0.35	10	0.75	444	3	0.02	19	570	15	0.02	<2	4	39
ZZ111844		10	<1	0.19	10	0.65	288	1	0.03	28	530	5	<0.01	<2	5	30
ZZ111845		10	<1	0.17	10	0.80	3720	5	0.03	38	430	8	0.07	2	5	97
ZZ111846		10	<1	0.28	10	0.83	241	1	0.03	19	480	4	0.01	<2	5	49
ZZ111847		<10	<1	0.24	10	0.80	276	1	0.04	21	880	4	0.02	<2	5	97
ZZ111848		10	<1	0.34	10	1.03	274	1	0.04	20	470	4	0.01	<2	5	97
ZZ111849		10	<1	0.36	10	0.90	378	1	0.04	26	1060	6	0.02	<2	5	114
ZZ111850		<10	<1	0.26	10	0.95	336	1	0.04	22	830	3	0.03	<2	5	235
ZZ111851		10	<1	0.25	10	0.90	471	1	0.04	27	900	8	0.08	<2	4	383
ZZ111852		<10	<1	0.19	10	0.79	313	2	0.05	20	940	5	0.07	<2	4	409
ZZ111853		10	<1	0.21	20	0.66	255	1	0.03	27	430	5	0.02	<2	5	87
ZZ111854		10	<1	0.12	10	0.65	376	<1	0.03	26	260	4	0.01	<2	6	39
ZZ111855		10	<1	0.16	10	0.83	364	1	0.05	21	670	4	0.02	<2	4	104
ZZ111856		10	<1	0.21	10	0.90	534	1	0.05	39	510	7	0.03	<2	4	102
ZZ111857		10	<1	0.20	10	0.75	206	2	0.03	20	240	4	0.01	<2	4	60
ZZ111858		<10	<1	0.16	10	0.64	242	<1	0.03	21	750	2	0.02	<2	3	92
ZZ111859		<10	<1	0.21	10	0.81	374	2	0.04	25	520	5	0.04	<2	4	138
ZZ111860		10	<1	0.22	10	0.71	328	1	0.04	20	1070	5	0.01	<2	4	102
ZZ111861		10	<1	0.11	10	0.68	214	2	0.03	18	180	3	0.01	<2	5	28
ZZ111862		10	<1	0.15	10	0.68	273	1	0.03	19	430	4	0.01	<2	4	30
ZZ111863		10	<1	0.17	10	0.74	333	<1	0.04	20	960	4	<0.01	<2	5	76
ZZ111864		10	<1	0.19	10	0.60	241	1	0.02	19	420	2	<0.01	<2	4	27
ZZ111865		10	<1	0.21	10	0.75	283	1	0.04	21	240	3	<0.01	<2	6	31
ZZ111866		10	<1	0.19	10	0.85	272	1	0.05	22	670	5	0.02	<2	6	60
ZZ111867		10	<1	0.17	<10	0.51	224	1	0.02	17	170	5	<0.01	<2	3	24
ZZ111868		10	<1	0.19	10	0.63	270	1	0.03	20	490	4	<0.01	<2	5	35
ZZ111869		<10	<1	0.25	10	0.63	199	1	0.04	18	490	4	<0.01	<2	5	36



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ111830		<20	0.19	<10	10	70	<10	50
ZZ111831		<20	0.14	<10	<10	61	<10	48
ZZ111832		<20	0.13	<10	<10	59	<10	42
ZZ111833		<20	0.16	<10	<10	71	<10	50
ZZ111834		<20	0.14	<10	<10	60	<10	53
ZZ111835		<20	0.16	<10	10	69	<10	130
ZZ111836		<20	0.12	<10	10	57	<10	74
ZZ111837		<20	0.19	<10	<10	73	<10	51
ZZ111838		<20	0.13	<10	<10	63	<10	54
ZZ111839		<20	0.17	<10	<10	69	<10	55
ZZ111840		<20	0.15	<10	<10	64	<10	52
ZZ111841		<20	0.13	<10	<10	59	<10	55
ZZ111842		<20	0.14	<10	<10	67	<10	77
ZZ111843		<20	0.15	<10	<10	69	<10	63
ZZ111844		<20	0.14	<10	<10	58	<10	44
ZZ111845		<20	0.12	<10	<10	70	<10	50
ZZ111846		<20	0.14	<10	<10	56	<10	47
ZZ111847		<20	0.13	<10	<10	57	<10	50
ZZ111848		<20	0.14	<10	<10	58	<10	49
ZZ111849		<20	0.17	<10	<10	70	<10	51
ZZ111850		<20	0.13	<10	<10	54	<10	44
ZZ111851		<20	0.11	<10	<10	49	<10	43
ZZ111852		<20	0.11	<10	<10	52	<10	35
ZZ111853		<20	0.11	<10	<10	66	<10	39
ZZ111854		<20	0.13	<10	<10	68	<10	38
ZZ111855		<20	0.15	<10	<10	69	<10	36
ZZ111856		<20	0.13	<10	<10	69	<10	56
ZZ111857		<20	0.14	<10	<10	72	<10	38
ZZ111858		<20	0.10	<10	<10	46	<10	35
ZZ111859		<20	0.11	<10	<10	62	<10	50
ZZ111860		<20	0.14	<10	<10	56	<10	43
ZZ111861		<20	0.14	<10	<10	63	<10	35
ZZ111862		<20	0.13	<10	<10	77	<10	39
ZZ111863		<20	0.14	<10	<10	57	<10	45
ZZ111864		<20	0.15	<10	<10	64	<10	36
ZZ111865		<20	0.17	<10	<10	71	<10	44
ZZ111866		<20	0.15	<10	<10	64	<10	51
ZZ111867		<20	0.14	<10	<10	70	<10	35
ZZ111868		<20	0.14	<10	<10	55	<10	36
ZZ111869		<20	0.13	<10	<10	56	<10	35



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ111870		0.32	0.008	<0.2	1.30	4	<10	90	<0.5	<2	1.04	<0.5	8	30	19	2.08
ZZ111871		0.30	0.004	<0.2	1.63	7	<10	150	<0.5	<2	1.61	<0.5	9	38	27	2.49
ZZ111872		0.40	0.001	<0.2	1.31	5	<10	50	<0.5	<2	0.44	<0.5	7	29	12	2.01
ZZ111873		0.30	0.040	<0.2	1.61	3	<10	120	<0.5	<2	1.91	<0.5	8	33	19	2.33
ZZ111874		0.40	0.003	<0.2	1.57	8	<10	70	<0.5	<2	0.74	<0.5	10	37	21	2.41
ZZ111875		0.36	0.002	<0.2	1.50	3	<10	140	<0.5	<2	2.37	<0.5	7	32	20	2.21
ZZ111876		0.36	<0.001	<0.2	1.70	6	<10	90	<0.5	<2	0.46	<0.5	10	38	15	2.71
ZZ111877		0.26	0.002	<0.2	1.42	5	<10	80	<0.5	<2	0.43	<0.5	8	31	13	2.28
ZZ111878		0.42	0.001	<0.2	1.55	4	<10	70	<0.5	<2	0.49	<0.5	9	35	15	2.52
ZZ111879		0.32	0.004	<0.2	1.50	3	<10	140	<0.5	<2	1.52	<0.5	9	32	28	2.34
ZZ111880		0.30	0.003	<0.2	1.39	4	<10	80	<0.5	<2	0.32	<0.5	6	26	9	1.91
ZZ111881		0.30	0.008	<0.2	1.94	30	<10	150	<0.5	<2	0.37	<0.5	11	31	26	2.37
ZZ111882		0.36	0.002	<0.2	2.17	3	<10	310	<0.5	<2	0.58	<0.5	15	32	22	3.12
ZZ111883		0.30	0.002	<0.2	1.56	3	<10	150	<0.5	<2	0.68	<0.5	9	32	30	2.40
ZZ111884		0.32	0.002	<0.2	2.85	2	<10	130	<0.5	<2	1.15	<0.5	17	82	47	2.69
ZZ111885		0.34	0.001	<0.2	2.09	3	<10	150	<0.5	2	0.71	<0.5	14	41	19	2.71
ZZ111886		0.22	0.003	<0.2	1.78	5	<10	110	<0.5	<2	0.90	<0.5	10	34	19	2.46
ZZ111887		0.34	0.002	0.2	1.54	<2	<10	100	<0.5	2	0.60	<0.5	6	37	15	1.87
ZZ111888		0.36	0.003	0.2	2.67	6	<10	180	0.6	<2	0.52	<0.5	18	56	26	3.82
ZZ111889		0.30	0.001	<0.2	1.60	4	<10	120	<0.5	<2	0.38	<0.5	8	33	12	2.28
ZZ111890		0.32	0.002	<0.2	2.18	3	<10	120	0.5	<2	0.44	<0.5	15	43	13	3.03
ZZ111891		0.36	0.001	<0.2	1.91	4	<10	110	<0.5	<2	0.44	<0.5	12	35	19	2.57
ZZ111892		0.34	0.002	<0.2	1.60	4	<10	140	<0.5	<2	0.45	<0.5	10	30	17	2.29
ZZ111893		0.24	0.001	<0.2	2.36	4	<10	130	0.5	<2	0.55	<0.5	13	63	15	2.96
ZZ111894		0.38	0.002	<0.2	2.04	3	<10	180	<0.5	<2	0.43	<0.5	9	35	18	2.52
ZZ111895		0.34	0.002	<0.2	1.55	3	<10	160	<0.5	<2	0.37	<0.5	8	29	10	2.17
ZZ111896		0.30	0.001	<0.2	2.33	4	<10	150	0.5	<2	0.43	<0.5	12	42	24	3.05
ZZ111897		0.38	0.003	0.2	2.01	2	<10	200	<0.5	<2	1.12	<0.5	13	49	27	3.13
ZZ111898		0.40	0.007	<0.2	1.69	2	<10	170	<0.5	<2	0.57	<0.5	8	31	21	2.19
ZZ111899		0.42	0.003	<0.2	1.47	2	<10	110	<0.5	<2	0.67	<0.5	9	28	16	2.10
ZZ111900		0.28	0.002	<0.2	1.62	3	<10	110	<0.5	<2	0.52	<0.5	7	26	15	2.16
ZZ111901		0.36	0.002	<0.2	1.61	2	<10	140	<0.5	<2	0.52	<0.5	8	29	18	2.17
ZZ111902		0.36	0.003	<0.2	1.66	2	<10	150	<0.5	<2	0.81	<0.5	9	34	21	2.36
ZZ111903		0.36	0.003	<0.2	1.45	3	<10	130	<0.5	<2	0.65	<0.5	7	28	16	2.09
ZZ111904		0.52	0.002	<0.2	1.35	3	<10	120	<0.5	<2	0.68	<0.5	7	27	15	2.11
ZZ111905		0.48	0.002	<0.2	1.17	3	<10	110	<0.5	<2	0.71	<0.5	7	26	14	2.07
ZZ111906		0.42	0.007	0.3	1.55	2	<10	150	<0.5	<2	1.07	<0.5	9	34	66	2.39
ZZ111907		0.38	0.003	0.3	1.48	2	<10	170	<0.5	<2	1.16	<0.5	10	32	39	2.12
ZZ111908		0.32	0.004	<0.2	1.89	4	<10	140	<0.5	<2	0.74	<0.5	8	34	18	2.47
ZZ111909		0.22	0.002	<0.2	2.04	4	<10	190	<0.5	<2	0.83	<0.5	12	47	23	2.77



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ111870		<10	<1	0.30	10	0.58	234	1	0.03	19	720	3	0.01	<2	4	41
ZZ111871		10	<1	0.21	10	0.80	256	1	0.04	24	670	5	0.02	<2	5	73
ZZ111872		<10	<1	0.13	10	0.44	181	<1	0.02	18	580	2	<0.01	<2	4	25
ZZ111873		10	<1	0.17	10	0.74	254	1	0.04	20	490	3	0.01	<2	4	79
ZZ111874		10	<1	0.19	10	0.66	234	1	0.04	24	410	5	0.01	<2	5	36
ZZ111875		10	<1	0.21	10	0.73	238	<1	0.05	19	770	2	0.03	<2	5	88
ZZ111876		10	<1	0.18	10	0.57	218	<1	0.02	23	450	3	<0.01	<2	5	26
ZZ111877		<10	<1	0.18	10	0.53	254	<1	0.02	18	650	3	<0.01	<2	4	24
ZZ111878		<10	<1	0.21	10	0.58	265	<1	0.02	21	760	3	<0.01	<2	5	27
ZZ111879		10	<1	0.15	10	0.68	238	<1	0.04	22	730	4	0.01	<2	5	46
ZZ111880		10	<1	0.06	<10	0.43	130	1	0.02	14	140	4	<0.01	<2	3	19
ZZ111881		10	<1	0.08	10	0.54	382	1	0.03	19	290	7	0.01	<2	5	22
ZZ111882		10	<1	0.05	10	0.66	819	2	0.02	21	360	6	0.01	<2	5	36
ZZ111883		10	<1	0.17	10	0.64	342	<1	0.03	21	560	4	<0.01	<2	5	36
ZZ111884		10	<1	0.17	10	1.25	299	<1	0.19	57	240	2	0.01	<2	4	112
ZZ111885		10	<1	0.12	10	0.71	574	1	0.04	23	310	6	0.01	<2	4	41
ZZ111886		10	<1	0.23	10	0.64	216	1	0.03	22	300	5	0.02	<2	4	50
ZZ111887		10	<1	0.23	10	0.69	167	<1	0.02	16	460	7	0.02	<2	4	32
ZZ111888		10	1	0.43	10	1.11	489	2	0.03	37	440	10	0.02	<2	5	40
ZZ111889		10	<1	0.11	10	0.65	236	1	0.01	19	430	3	<0.01	<2	4	22
ZZ111890		10	<1	0.13	10	0.83	358	1	0.01	27	230	9	<0.01	<2	4	35
ZZ111891		10	<1	0.10	10	0.66	392	1	0.01	21	440	6	<0.01	<2	5	27
ZZ111892		10	<1	0.23	10	0.60	392	<1	0.02	20	1030	4	0.01	<2	4	31
ZZ111893		10	<1	0.27	10	0.95	273	1	0.01	33	220	5	0.01	<2	5	30
ZZ111894		10	<1	0.19	10	0.72	287	1	0.02	25	350	4	<0.01	<2	5	33
ZZ111895		10	<1	0.09	10	0.62	338	1	0.01	16	250	4	<0.01	<2	4	24
ZZ111896		10	<1	0.12	10	0.85	295	1	0.02	27	260	5	0.01	<2	6	31
ZZ111897		10	1	0.21	10	1.09	305	<1	0.04	28	650	5	0.02	<2	7	56
ZZ111898		10	<1	0.07	10	0.59	265	1	0.02	19	460	4	0.01	<2	5	34
ZZ111899		<10	1	0.16	10	0.61	349	<1	0.03	17	700	3	0.01	<2	4	34
ZZ111900		10	<1	0.14	10	0.64	242	1	0.02	16	340	3	0.01	<2	4	28
ZZ111901		<10	<1	0.13	10	0.64	238	<1	0.02	22	430	2	0.01	<2	4	33
ZZ111902		10	1	0.19	10	0.77	300	<1	0.04	19	710	3	0.01	<2	5	44
ZZ111903		10	<1	0.09	10	0.59	226	<1	0.02	17	420	3	0.01	<2	4	37
ZZ111904		<10	<1	0.13	10	0.59	251	1	0.02	17	760	2	0.01	<2	4	37
ZZ111905		<10	<1	0.18	10	0.55	296	1	0.03	16	920	3	0.01	<2	4	41
ZZ111906		<10	<1	0.27	10	0.74	338	4	0.03	22	640	6	0.03	<2	5	50
ZZ111907		<10	<1	0.19	10	0.60	369	1	0.02	20	570	4	0.03	<2	4	52
ZZ111908		10	<1	0.15	10	0.67	238	1	0.02	20	270	2	0.02	<2	5	38
ZZ111909		10	<1	0.19	10	0.83	327	1	0.03	26	220	4	0.02	<2	6	43



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ111870		<20	0.13	<10	<10	56	<10	36
ZZ111871		<20	0.14	<10	<10	64	<10	40
ZZ111872		<20	0.11	<10	<10	58	<10	27
ZZ111873		<20	0.14	<10	<10	62	<10	41
ZZ111874		<20	0.15	<10	<10	62	<10	38
ZZ111875		<20	0.14	<10	<10	56	<10	44
ZZ111876		<20	0.14	<10	<10	77	<10	43
ZZ111877		<20	0.12	<10	<10	62	<10	38
ZZ111878		<20	0.12	<10	<10	71	<10	36
ZZ111879		<20	0.12	<10	<10	57	<10	48
ZZ111880		<20	0.12	<10	<10	56	<10	32
ZZ111881		<20	0.13	<10	<10	64	<10	44
ZZ111882		<20	0.18	<10	<10	92	<10	61
ZZ111883		<20	0.13	<10	<10	55	<10	50
ZZ111884		<20	0.17	<10	<10	59	<10	49
ZZ111885		<20	0.14	<10	<10	66	<10	59
ZZ111886		<20	0.14	<10	<10	62	<10	49
ZZ111887		<20	0.14	<10	<10	50	<10	57
ZZ111888		<20	0.18	<10	<10	88	<10	84
ZZ111889		<20	0.13	<10	<10	59	<10	40
ZZ111890		<20	0.16	<10	<10	67	<10	64
ZZ111891		<20	0.13	<10	<10	63	<10	58
ZZ111892		<20	0.12	<10	<10	54	<10	53
ZZ111893		<20	0.17	<10	<10	73	<10	57
ZZ111894		<20	0.15	<10	<10	63	<10	42
ZZ111895		<20	0.14	<10	<10	58	<10	39
ZZ111896		<20	0.16	<10	<10	73	<10	53
ZZ111897		<20	0.16	<10	<10	80	<10	54
ZZ111898		<20	0.12	<10	<10	56	<10	39
ZZ111899		<20	0.12	<10	<10	51	<10	43
ZZ111900		<20	0.12	<10	<10	54	<10	39
ZZ111901		<20	0.13	<10	<10	51	<10	36
ZZ111902		<20	0.16	<10	<10	61	<10	42
ZZ111903		<20	0.12	<10	<10	51	<10	35
ZZ111904		<20	0.13	<10	<10	52	<10	36
ZZ111905		<20	0.13	<10	<10	50	<10	43
ZZ111906		<20	0.15	<10	<10	61	<10	46
ZZ111907		<20	0.13	<10	<10	56	<10	43
ZZ111908		<20	0.15	<10	<10	64	<10	39
ZZ111909		<20	0.16	<10	<10	72	<10	48



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ111910		0.32	0.005	<0.2	1.66	2	<10	200	<0.5	<2	0.97	<0.5	12	38	23	2.59
ZZ111911		0.42	0.002	<0.2	2.08	3	<10	160	<0.5	<2	0.59	<0.5	10	42	21	2.79
ZZ111912		0.22	0.012	<0.2	1.64	2	<10	140	<0.5	<2	0.50	<0.5	9	35	17	2.41
ZZ111913		0.28	0.019	<0.2	1.71	2	<10	140	<0.5	<2	0.43	<0.5	11	34	15	2.50
ZZ111914		0.22	0.001	<0.2	1.38	<2	<10	140	<0.5	<2	0.33	<0.5	10	26	10	2.19
ZZ111915		0.26	0.001	<0.2	1.84	3	<10	140	<0.5	<2	0.48	<0.5	9	31	14	2.45
ZZ111916		0.30	0.004	<0.2	1.77	4	<10	110	<0.5	<2	0.40	<0.5	8	30	18	2.22
ZZ111917		0.24	0.002	<0.2	1.92	2	<10	160	0.5	<2	0.41	<0.5	16	35	16	2.82
ZZ111918		0.22	0.001	<0.2	1.55	3	<10	70	<0.5	<2	0.43	<0.5	8	29	13	2.24
ZZ111919		0.34	0.027	<0.2	1.78	3	<10	110	<0.5	<2	0.41	<0.5	9	32	14	2.37
ZZ111920		0.16	0.003	0.2	1.83	2	<10	120	0.5	<2	0.87	<0.5	16	41	29	2.63
ZZ111921		0.24	0.001	0.2	1.91	5	<10	130	<0.5	<2	0.49	<0.5	10	41	24	2.87
ZZ111922		0.24	0.002	<0.2	2.31	4	<10	150	<0.5	<2	0.45	<0.5	13	50	21	3.36
ZZ111923		0.32	0.003	<0.2	2.36	7	<10	100	0.6	<2	0.54	<0.5	13	49	30	3.15
ZZ111924		0.48	0.008	<0.2	1.49	5	<10	90	<0.5	<2	0.87	<0.5	11	32	106	2.40
ZZ111925		0.20	0.003	<0.2	1.83	3	<10	110	<0.5	<2	0.47	<0.5	12	37	19	2.66
ZZ111926		0.32	0.004	<0.2	1.41	4	<10	130	<0.5	<2	0.66	<0.5	8	29	16	2.06
ZZ111927		0.20	0.003	<0.2	2.09	2	<10	160	<0.5	<2	0.88	<0.5	12	47	20	2.79
ZZ111928		0.38	0.004	<0.2	1.81	3	<10	150	<0.5	2	0.67	<0.5	14	39	19	2.79
ZZ111929		0.28	0.005	<0.2	2.61	5	<10	150	0.5	<2	0.95	<0.5	17	56	35	3.60
ZZ111930		0.24	0.002	<0.2	2.20	4	<10	210	0.5	<2	0.77	<0.5	13	44	43	2.92
ZZ111931		0.32	0.002	<0.2	1.75	5	<10	70	<0.5	<2	0.44	<0.5	11	33	16	2.45
ZZ111932		0.28	0.002	<0.2	1.78	3	<10	100	<0.5	<2	0.40	<0.5	11	39	17	2.77
ZZ111933		0.28	0.002	<0.2	2.13	4	<10	130	<0.5	<2	0.45	<0.5	13	43	19	2.95
ZZ111934		0.26	0.002	<0.2	1.95	5	<10	120	0.5	<2	0.59	<0.5	16	35	17	2.87
ZZ111935		0.34	0.005	<0.2	1.71	2	<10	130	<0.5	2	0.38	<0.5	10	35	14	2.49
ZZ111936		0.32	0.416	<0.2	1.78	3	<10	160	<0.5	<2	0.44	<0.5	10	35	15	2.51
ZZ111937		0.26	0.003	<0.2	1.98	4	<10	140	0.5	<2	0.48	<0.5	14	34	22	2.81
ZZ111938		0.34	0.002	<0.2	1.65	4	<10	130	<0.5	<2	0.56	<0.5	10	35	33	2.50
ZZ111939		0.26	0.006	<0.2	1.91	4	<10	80	0.5	<2	0.66	<0.5	12	37	19	2.84
ZZ111940		0.26	0.004	<0.2	2.07	4	<10	120	<0.5	<2	0.45	<0.5	14	41	16	2.86
ZZ111941		0.26	0.002	<0.2	1.77	3	<10	160	<0.5	<2	0.48	<0.5	13	33	16	2.60
ZZ111942		0.32	0.004	<0.2	2.83	4	<10	120	0.6	<2	0.83	<0.5	16	79	28	3.70
ZZ111943		0.36	0.001	<0.2	1.75	4	<10	100	<0.5	<2	0.44	<0.5	10	33	23	2.42
ZZ111944		0.20	0.002	<0.2	1.94	2	<10	90	<0.5	<2	0.52	<0.5	11	36	14	2.69
ZZ111945		0.28	0.002	<0.2	1.87	6	<10	180	<0.5	<2	0.67	<0.5	14	35	28	2.64
ZZ111946		0.32	0.005	<0.2	1.98	4	<10	100	<0.5	<2	0.66	<0.5	13	38	22	2.91
ZZ111947		0.32	0.002	<0.2	2.04	5	<10	120	<0.5	<2	0.94	<0.5	14	42	27	3.04
ZZ111948		0.24	0.001	<0.2	1.55	3	<10	220	<0.5	<2	0.73	<0.5	15	34	25	2.56
ZZ111949		0.36	<0.001	<0.2	1.92	5	<10	180	0.5	<2	0.42	<0.5	21	39	19	2.87





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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ111910		10	<1	0.25	10	0.85	554	1	0.03	22	490	4	0.02	<2	5	45
ZZ111911		10	<1	0.27	10	0.81	296	<1	0.03	24	280	4	0.01	<2	6	38
ZZ111912		10	<1	0.21	10	0.67	382	1	0.01	17	460	18	0.01	<2	5	31
ZZ111913		10	<1	0.18	10	0.70	313	1	0.02	20	270	6	0.01	<2	5	29
ZZ111914		10	<1	0.13	10	0.50	411	1	0.01	15	350	7	0.01	<2	3	24
ZZ111915		10	<1	0.26	10	0.63	261	1	0.02	21	370	4	0.01	<2	4	35
ZZ111916		10	<1	0.15	10	0.63	229	<1	0.02	22	530	4	<0.01	<2	4	25
ZZ111917		10	<1	0.19	10	0.64	762	1	0.02	21	670	7	0.01	<2	4	30
ZZ111918		10	<1	0.22	10	0.57	204	<1	0.02	21	280	3	0.01	<2	4	27
ZZ111919		10	<1	0.22	10	0.62	231	<1	0.01	23	350	5	0.01	<2	4	26
ZZ111920		10	<1	0.37	10	0.57	457	1	0.07	33	1100	7	0.04	<2	1	64
ZZ111921		10	<1	0.37	10	0.78	269	1	0.02	26	210	6	0.01	<2	5	35
ZZ111922		10	<1	0.29	10	1.04	269	1	0.02	29	350	6	0.01	<2	6	37
ZZ111923		10	<1	0.36	10	0.83	310	<1	0.04	32	420	4	0.01	<2	7	36
ZZ111924		10	<1	0.24	10	0.66	239	1	0.03	33	920	3	0.02	<2	5	42
ZZ111925		10	<1	0.15	<10	0.71	342	1	0.03	21	290	6	0.01	<2	4	30
ZZ111926		<10	<1	0.12	10	0.58	258	<1	0.04	18	590	3	0.01	<2	4	37
ZZ111927		10	<1	0.31	10	0.88	375	<1	0.08	25	380	4	0.02	<2	6	51
ZZ111928		10	<1	0.35	10	0.72	513	<1	0.03	23	860	5	0.01	<2	5	38
ZZ111929		10	<1	0.55	10	0.97	512	1	0.11	36	820	8	0.01	<2	6	132
ZZ111930		10	<1	0.19	10	0.79	487	1	0.06	33	440	4	0.01	<2	6	47
ZZ111931		10	<1	0.29	10	0.62	219	1	0.03	24	270	6	0.01	<2	4	25
ZZ111932		10	<1	0.32	10	0.71	228	1	0.02	24	340	6	0.01	<2	5	26
ZZ111933		10	<1	0.35	10	0.82	290	1	0.03	27	250	5	0.01	<2	6	31
ZZ111934		10	<1	0.24	10	0.63	403	1	0.03	23	710	7	0.02	<2	4	37
ZZ111935		10	<1	0.27	10	0.67	415	1	0.02	17	400	5	0.01	<2	4	26
ZZ111936		10	<1	0.26	10	0.66	465	<1	0.03	19	440	4	0.01	<2	5	30
ZZ111937		10	<1	0.19	10	0.60	528	1	0.02	21	340	7	0.01	<2	4	30
ZZ111938		10	<1	0.16	10	0.70	452	3	0.03	19	510	5	0.01	<2	4	34
ZZ111939		10	<1	0.34	10	0.66	230	1	0.03	24	270	9	0.02	<2	5	37
ZZ111940		10	<1	0.38	10	0.74	313	1	0.03	27	490	6	0.01	<2	5	28
ZZ111941		10	<1	0.24	10	0.61	308	1	0.03	24	320	6	0.01	<2	4	31
ZZ111942		10	<1	0.55	10	1.27	341	1	0.07	41	370	7	0.02	2	8	45
ZZ111943		10	<1	0.25	10	0.66	278	1	0.03	25	200	4	<0.01	<2	5	30
ZZ111944		10	<1	0.32	10	0.69	225	1	0.03	24	230	4	0.02	<2	4	32
ZZ111945		10	<1	0.19	10	0.64	500	1	0.04	28	480	6	0.01	<2	4	50
ZZ111946		10	<1	0.29	10	0.65	419	1	0.04	27	190	4	0.01	<2	5	35
ZZ111947		10	<1	0.42	10	0.89	426	1	0.06	28	660	6	0.02	<2	6	53
ZZ111948		10	<1	0.38	10	0.56	712	1	0.03	32	360	9	0.01	<2	4	35
ZZ111949		10	<1	0.28	10	0.60	958	1	0.03	35	350	5	0.01	<2	5	27



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ111910		<20	0.18	<10	<10	73	<10	54
ZZ111911		<20	0.17	<10	<10	70	<10	47
ZZ111912		<20	0.15	<10	<10	61	<10	41
ZZ111913		<20	0.16	<10	<10	65	<10	46
ZZ111914		<20	0.12	<10	<10	55	<10	42
ZZ111915		<20	0.14	<10	<10	59	<10	43
ZZ111916		<20	0.13	<10	<10	55	<10	39
ZZ111917		<20	0.14	<10	<10	65	<10	81
ZZ111918		<20	0.13	<10	<10	57	<10	37
ZZ111919		<20	0.13	<10	<10	61	<10	38
ZZ111920		<20	0.08	<10	<10	46	<10	45
ZZ111921		<20	0.18	<10	<10	69	<10	47
ZZ111922		<20	0.18	<10	<10	79	<10	52
ZZ111923		<20	0.17	<10	<10	78	<10	53
ZZ111924		<20	0.13	<10	<10	57	<10	54
ZZ111925		<20	0.13	<10	<10	72	<10	54
ZZ111926		<20	0.12	<10	<10	51	<10	37
ZZ111927		<20	0.17	<10	<10	69	<10	51
ZZ111928		<20	0.14	<10	<10	65	<10	88
ZZ111929		<20	0.17	<10	<10	81	<10	66
ZZ111930		<20	0.16	<10	<10	66	<10	53
ZZ111931		<20	0.15	<10	<10	60	<10	50
ZZ111932		<20	0.17	<10	<10	68	<10	57
ZZ111933		<20	0.18	<10	<10	73	<10	55
ZZ111934		<20	0.15	<10	<10	71	<10	110
ZZ111935		<20	0.15	<10	<10	65	<10	53
ZZ111936		<20	0.15	<10	<10	66	<10	53
ZZ111937		<20	0.14	<10	<10	72	<10	63
ZZ111938		<20	0.14	<10	<10	67	<10	45
ZZ111939		<20	0.16	<10	<10	68	<10	50
ZZ111940		<20	0.16	<10	<10	69	<10	101
ZZ111941		<20	0.14	<10	<10	60	<10	67
ZZ111942		<20	0.21	<10	<10	95	<10	69
ZZ111943		<20	0.14	<10	<10	58	<10	48
ZZ111944		<20	0.16	<10	<10	67	<10	45
ZZ111945		<20	0.12	<10	<10	60	<10	75
ZZ111946		<20	0.17	<10	<10	69	<10	52
ZZ111947		<20	0.19	<10	<10	73	<10	58
ZZ111948		<20	0.14	<10	<10	62	<10	52
ZZ111949		<20	0.15	<10	<10	66	<10	151



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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ111950		0.28	0.014	<0.2	1.68	3	<10	90	<0.5	<2	0.40	<0.5	10	32	11	2.43
ZZ111951		0.24	0.033	<0.2	1.30	2	<10	100	<0.5	<2	0.99	<0.5	8	28	15	1.90
ZZ111952		0.24	0.034	<0.2	1.58	3	<10	190	<0.5	<2	0.53	<0.5	9	29	12	2.19
ZZ111953		0.26	0.001	<0.2	1.58	5	<10	80	<0.5	<2	0.52	<0.5	8	30	18	2.28
ZZ111954		0.22	0.002	<0.2	2.16	4	<10	160	0.5	<2	0.91	<0.5	15	45	33	2.93
ZZ111955		0.28	0.001	<0.2	1.82	3	<10	190	<0.5	<2	0.42	<0.5	14	33	22	2.88
ZZ111956		0.32	0.001	<0.2	1.99	6	<10	100	0.5	<2	0.39	<0.5	10	36	15	2.59
ZZ111957		0.24	0.002	<0.2	1.67	4	<10	90	<0.5	<2	0.49	<0.5	10	31	26	2.25
ZZ111958		0.26	0.004	<0.2	1.83	3	<10	120	<0.5	2	0.40	<0.5	11	33	18	2.45
ZZ111959		0.28	0.001	<0.2	1.44	<2	<10	130	<0.5	<2	0.34	<0.5	8	29	13	2.00
ZZ111960		0.26	0.002	<0.2	1.63	3	<10	130	<0.5	<2	0.48	<0.5	11	32	27	2.20
ZZ111961		0.20	0.002	<0.2	1.97	2	<10	110	<0.5	<2	0.58	<0.5	37	19	28	4.05
ZZ111962		0.22	0.003	<0.2	1.60	3	<10	170	<0.5	<2	0.31	<0.5	10	30	22	2.21
ZZ111963		0.22	0.003	<0.2	1.41	4	<10	120	<0.5	<2	0.36	<0.5	9	33	18	2.02
ZZ111964		0.26	0.002	<0.2	1.83	2	<10	150	0.6	<2	0.79	<0.5	15	36	28	2.35
ZZ111965		0.20	0.001	<0.2	1.71	4	<10	170	0.5	<2	0.37	<0.5	18	33	24	2.56
ZZ111966		0.24	0.002	<0.2	1.88	3	<10	130	<0.5	<2	0.56	<0.5	12	37	23	2.64
ZZ111967		0.32	0.002	<0.2	1.89	3	<10	120	<0.5	<2	0.34	<0.5	16	38	13	2.98
ZZ111968		0.24	0.002	<0.2	2.23	3	<10	80	0.5	<2	0.71	<0.5	13	41	57	2.68
ZZ111969		0.22	0.002	<0.2	1.51	4	<10	80	<0.5	<2	0.42	<0.5	9	31	13	2.20
ZZ111970		0.24	0.002	<0.2	1.25	<2	<10	60	<0.5	<2	0.60	<0.5	7	26	20	1.92
ZZ111971		0.18	0.001	<0.2	1.06	2	<10	60	<0.5	<2	0.54	<0.5	7	22	8	1.74
ZZ111972		0.22	0.001	<0.2	1.47	2	<10	110	<0.5	<2	0.64	<0.5	7	30	11	2.00
ZZ111973		0.18	0.004	<0.2	1.33	2	<10	90	<0.5	<2	0.44	<0.5	9	28	14	2.01
ZZ111974		0.22	0.002	<0.2	1.81	3	<10	150	<0.5	<2	0.44	<0.5	13	36	18	2.64
ZZ111975		0.28	0.001	<0.2	1.87	3	<10	140	<0.5	<2	0.52	<0.5	11	45	20	2.63
ZZ111976		0.18	0.005	<0.2	1.76	2	<10	180	<0.5	<2	0.45	<0.5	13	35	19	2.67
ZZ111977		0.34	0.002	<0.2	1.58	5	<10	100	<0.5	<2	0.39	<0.5	10	31	18	2.34
ZZ111978		0.18	0.014	<0.2	1.79	2	<10	140	<0.5	<2	0.42	<0.5	17	40	25	2.88
ZZ111979		0.26	0.001	<0.2	1.54	3	<10	120	<0.5	<2	0.37	<0.5	12	31	15	2.33
ZZ111980		0.22	<0.001	<0.2	1.41	<2	<10	120	<0.5	<2	0.42	<0.5	9	29	10	2.11
ZZ111981		0.26	0.004	<0.2	1.55	4	<10	160	<0.5	<2	0.92	<0.5	15	33	41	2.67
ZZ111982		0.24	0.004	<0.2	1.30	2	<10	90	<0.5	<2	0.37	<0.5	9	27	12	2.03
ZZ111983		0.20	0.007	<0.2	1.77	3	<10	120	<0.5	<2	0.78	<0.5	16	45	60	2.90
ZZ111984		0.16	0.003	<0.2	1.70	4	10	140	<0.5	<2	3.04	<0.5	14	36	94	2.60
ZZ111985		0.22	0.003	<0.2	1.75	4	<10	160	<0.5	<2	3.60	<0.5	11	36	29	2.70
ZZ111986		0.22	0.006	<0.2	1.67	3	<10	150	<0.5	<2	2.41	<0.5	12	34	123	2.47
ZZ111987		0.22	0.002	<0.2	1.20	2	<10	140	<0.5	<2	3.38	<0.5	8	24	40	1.82
ZZ111988		0.24	0.004	<0.2	1.29	3	<10	100	<0.5	<2	0.89	<0.5	9	27	20	1.99
ZZ111989		0.22	0.021	<0.2	1.40	3	10	130	<0.5	<2	1.95	<0.5	11	28	28	2.13



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ111950		10	<1	0.18	10	0.57	311	1	0.02	20	580	5	<0.01	<2	4	22
ZZ111951		10	<1	0.22	10	0.55	287	1	0.04	16	900	3	0.03	<2	4	47
ZZ111952		10	<1	0.11	10	0.53	332	1	0.02	16	390	4	0.01	<2	3	32
ZZ111953		10	<1	0.25	10	0.60	221	1	0.02	21	340	4	0.02	<2	4	29
ZZ111954		10	<1	0.27	10	0.77	453	<1	0.05	36	370	6	0.02	<2	5	57
ZZ111955		10	<1	0.21	10	0.56	586	1	0.03	25	400	6	0.01	<2	4	29
ZZ111956		10	<1	0.25	10	0.66	321	1	0.03	22	280	5	0.01	<2	5	24
ZZ111957		<10	<1	0.17	10	0.59	347	<1	0.03	20	410	4	0.01	<2	4	29
ZZ111958		10	<1	0.15	10	0.61	432	<1	0.03	19	330	5	0.01	<2	4	26
ZZ111959		<10	<1	0.22	10	0.54	369	<1	0.02	14	500	4	<0.01	<2	5	21
ZZ111960		<10	<1	0.24	10	0.56	382	1	0.02	18	360	4	<0.01	<2	5	31
ZZ111961		<10	<1	0.07	<10	1.95	782	2	0.02	35	960	6	<0.01	<2	3	51
ZZ111962		<10	<1	0.10	10	0.52	425	1	0.01	17	450	4	<0.01	<2	5	20
ZZ111963		<10	<1	0.20	10	0.60	230	<1	0.02	18	220	4	<0.01	<2	5	24
ZZ111964		10	<1	0.13	10	0.59	557	<1	0.05	24	370	5	0.01	<2	5	43
ZZ111965		10	<1	0.23	10	0.52	749	1	0.02	27	500	6	<0.01	<2	5	25
ZZ111966		10	<1	0.23	10	0.66	347	1	0.03	31	290	5	<0.01	<2	5	40
ZZ111967		10	<1	0.29	10	0.65	354	1	0.02	23	260	7	<0.01	<2	5	22
ZZ111968		10	<1	0.23	10	0.70	261	1	0.05	44	270	7	<0.01	<2	4	57
ZZ111969		<10	<1	0.21	10	0.55	270	1	0.02	19	300	4	<0.01	<2	4	24
ZZ111970		<10	<1	0.21	10	0.50	171	<1	0.02	18	220	3	<0.01	<2	4	32
ZZ111971		<10	<1	0.12	<10	0.38	133	1	0.01	11	200	2	<0.01	<2	3	33
ZZ111972		<10	<1	0.20	10	0.59	190	1	0.02	15	310	5	0.02	<2	4	41
ZZ111973		<10	<1	0.17	<10	0.48	181	<1	0.02	21	230	3	<0.01	<2	4	26
ZZ111974		10	<1	0.29	10	0.63	452	1	0.02	23	280	4	<0.01	<2	5	27
ZZ111975		10	<1	0.37	10	0.74	272	1	0.03	30	540	5	<0.01	<2	6	36
ZZ111976		10	<1	0.24	10	0.56	375	1	0.02	24	360	6	<0.01	<2	5	27
ZZ111977		10	<1	0.25	10	0.56	275	1	0.02	22	320	6	<0.01	<2	4	34
ZZ111978		10	<1	0.36	10	0.72	481	1	0.02	21	320	6	0.01	<2	6	29
ZZ111979		<10	<1	0.26	10	0.53	440	<1	0.01	19	440	5	<0.01	<2	4	23
ZZ111980		<10	<1	0.19	10	0.48	323	1	0.02	16	670	4	<0.01	<2	4	24
ZZ111981		10	<1	0.33	10	0.61	373	1	0.03	34	620	7	0.03	<2	5	45
ZZ111982		<10	<1	0.27	10	0.46	291	<1	0.01	16	270	3	<0.01	<2	4	23
ZZ111983		10	<1	0.41	10	0.76	323	1	0.04	52	520	6	0.01	<2	7	44
ZZ111984		10	<1	0.26	10	0.77	784	2	0.04	79	810	6	0.05	<2	5	147
ZZ111985		10	<1	0.32	10	0.95	443	<1	0.04	24	930	5	<0.01	<2	7	120
ZZ111986		10	<1	0.23	10	0.75	392	<1	0.04	40	600	5	0.01	<2	6	116
ZZ111987		<10	<1	0.21	10	0.62	328	<1	0.04	22	650	4	0.04	<2	4	159
ZZ111988		<10	<1	0.15	10	0.49	230	<1	0.02	18	280	6	0.01	<2	4	67
ZZ111989		<10	<1	0.23	10	0.64	450	1	0.03	23	450	5	0.02	<2	5	125



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ111950		<20	0.13	<10	<10	60	<10	93
ZZ111951		<20	0.10	<10	<10	45	<10	40
ZZ111952		<20	0.11	<10	<10	58	<10	53
ZZ111953		<20	0.12	<10	<10	56	<10	41
ZZ111954		<20	0.15	<10	<10	66	<10	60
ZZ111955		<20	0.13	<10	<10	61	<10	61
ZZ111956		<20	0.16	<10	<10	66	<10	48
ZZ111957		<20	0.12	<10	<10	55	<10	51
ZZ111958		<20	0.14	<10	<10	63	<10	68
ZZ111959		<20	0.13	<10	<10	49	<10	52
ZZ111960		<20	0.13	<10	<10	54	<10	42
ZZ111961		<20	0.10	<10	<10	38	<10	40
ZZ111962		<20	0.11	<10	<10	54	<10	49
ZZ111963		<20	0.13	<10	<10	49	<10	38
ZZ111964		<20	0.12	<10	<10	63	<10	59
ZZ111965		<20	0.12	<10	<10	56	<10	92
ZZ111966		<20	0.13	<10	<10	61	<10	50
ZZ111967		<20	0.16	<10	<10	69	<10	69
ZZ111968		<20	0.13	<10	<10	51	<10	50
ZZ111969		<20	0.12	<10	<10	54	<10	48
ZZ111970		<20	0.11	<10	<10	46	<10	33
ZZ111971		<20	0.10	<10	<10	47	<10	31
ZZ111972		<20	0.12	<10	<10	44	<10	49
ZZ111973		<20	0.11	<10	<10	52	<10	35
ZZ111974		<20	0.14	<10	<10	63	<10	53
ZZ111975		<20	0.15	<10	<10	62	<10	50
ZZ111976		<20	0.14	<10	<10	61	<10	71
ZZ111977		<20	0.12	<10	<10	55	<10	48
ZZ111978		<20	0.14	<10	<10	67	<10	70
ZZ111979		<20	0.12	<10	<10	55	<10	51
ZZ111980		<20	0.12	<10	<10	48	<10	57
ZZ111981		<20	0.11	<10	<10	54	<10	49
ZZ111982		<20	0.12	<10	<10	50	<10	35
ZZ111983		<20	0.15	<10	<10	64	<10	45
ZZ111984		<20	0.13	<10	<10	61	<10	58
ZZ111985		<20	0.19	<10	<10	64	<10	63
ZZ111986		<20	0.15	<10	<10	55	<10	63
ZZ111987		<20	0.11	<10	<10	43	<10	40
ZZ111988		<20	0.11	<10	<10	49	<10	36
ZZ111989		<20	0.13	<10	<10	48	<10	37



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ111990		0.18	<0.001	<0.2	1.51	3	<10	100	<0.5	<2	0.49	<0.5	10	31	17	2.32
ZZ111991		0.28	0.001	<0.2	1.28	2	<10	110	<0.5	<2	0.40	<0.5	12	26	13	2.00
ZZ111992		0.18	<0.001	<0.2	1.10	2	<10	140	<0.5	<2	0.59	<0.5	13	23	21	1.90
ZZ111993		0.34	0.008	<0.2	1.40	3	<10	160	<0.5	<2	0.73	<0.5	14	30	37	2.34



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Sample Description	Method Analyte Units LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
ZZ111990		<10	<1	0.30	10	0.56	283	1	0.02	20	370	4	<0.01	<2	5	33
ZZ111991		<10	<1	0.21	<10	0.42	441	1	0.02	18	310	5	<0.01	<2	4	29
ZZ111992		<10	<1	0.26	<10	0.38	749	1	0.02	18	600	5	<0.01	<2	3	39
ZZ111993		<10	<1	0.37	10	0.56	667	1	0.02	22	680	6	0.02	<2	4	44



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 C/O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
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 VANCOUVER BC V6B 1L8

Page: 8 - C  
 Total # Pages: 8 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 31-AUG-2016  
 Account: MTT

Project: Moraine

**CERTIFICATE OF ANALYSIS WH16132838**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ111990		<20	0.14	<10	<10	60	<10	45
ZZ111991		<20	0.11	<10	<10	48	<10	61
ZZ111992		<20	0.10	<10	<10	41	<10	67
ZZ111993		<20	0.12	<10	<10	56	<10	61





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Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 31-AUG-2016  
 Account: MTT

Project: Moraine

**CERTIFICATE OF ANALYSIS WH16132838**

**CERTIFICATE COMMENTS**

<p>Applies to Method:</p>	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">Au-ICP21</td> <td style="width: 25%;">LOG-22</td> <td style="width: 25%;">ME-ICP41</td> <td style="width: 25%;">SCR-41</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	Au-ICP21	LOG-22	ME-ICP41	SCR-41	WEI-21			
Au-ICP21	LOG-22	ME-ICP41	SCR-41						
WEI-21									



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Page: 1  
 Total # Pages: 2 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 5-SEP-2016  
 Account: MTT

**CERTIFICATE WH16141616**

Project: MORaine

This report is for 1 Rock sample submitted to our lab in Whitehorse, YT, Canada on 24-AUG-2016.

The following have access to data associated with this certificate:

HEATHER BURRELL	JOAN MARIACHER
-----------------	----------------

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

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

To: STRATEGIC METALS LTD.  
 ATTN: JOAN MARIACHER  
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 1016-510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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

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

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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 North Vancouver BC V7H 0A7  
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To: STRATEGIC METALS LTD.  
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Page: 2 - A  
 Total # Pages: 2 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 5-SEP-2016  
 Account: MTT

Project: MORaine

**CERTIFICATE OF ANALYSIS WH16141616**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %	ME-ICP41 Ga ppm
K291433		1.90	<0.2	0.92	<2	<10	70	0.5	<2	0.79	<0.5	8	52	31	1.98	<10

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



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Page: 2 - B  
 Total # Pages: 2 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 5-SEP-2016  
 Account: MTT

Project: MORaine

**CERTIFICATE OF ANALYSIS WH16141616**

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20
K291433		<1	0.32	30	0.44	190	<1	0.10	21	760	6	0.16	<2	4	103	<20

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



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Page: 2 - C  
 Total # Pages: 2 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 5-SEP-2016  
 Account: MTT

Project: MORaine

**CERTIFICATE OF ANALYSIS WH16141616**

Sample Description	Method Analyte Units LOR	ME-ICP41 Ti %	ME-ICP41 Ti ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm	Au-ICP21 Au ppm
K291433		0.01	10	10	1	10	2	0.001
		0.18	<10	<10	33	<10	26	0.001



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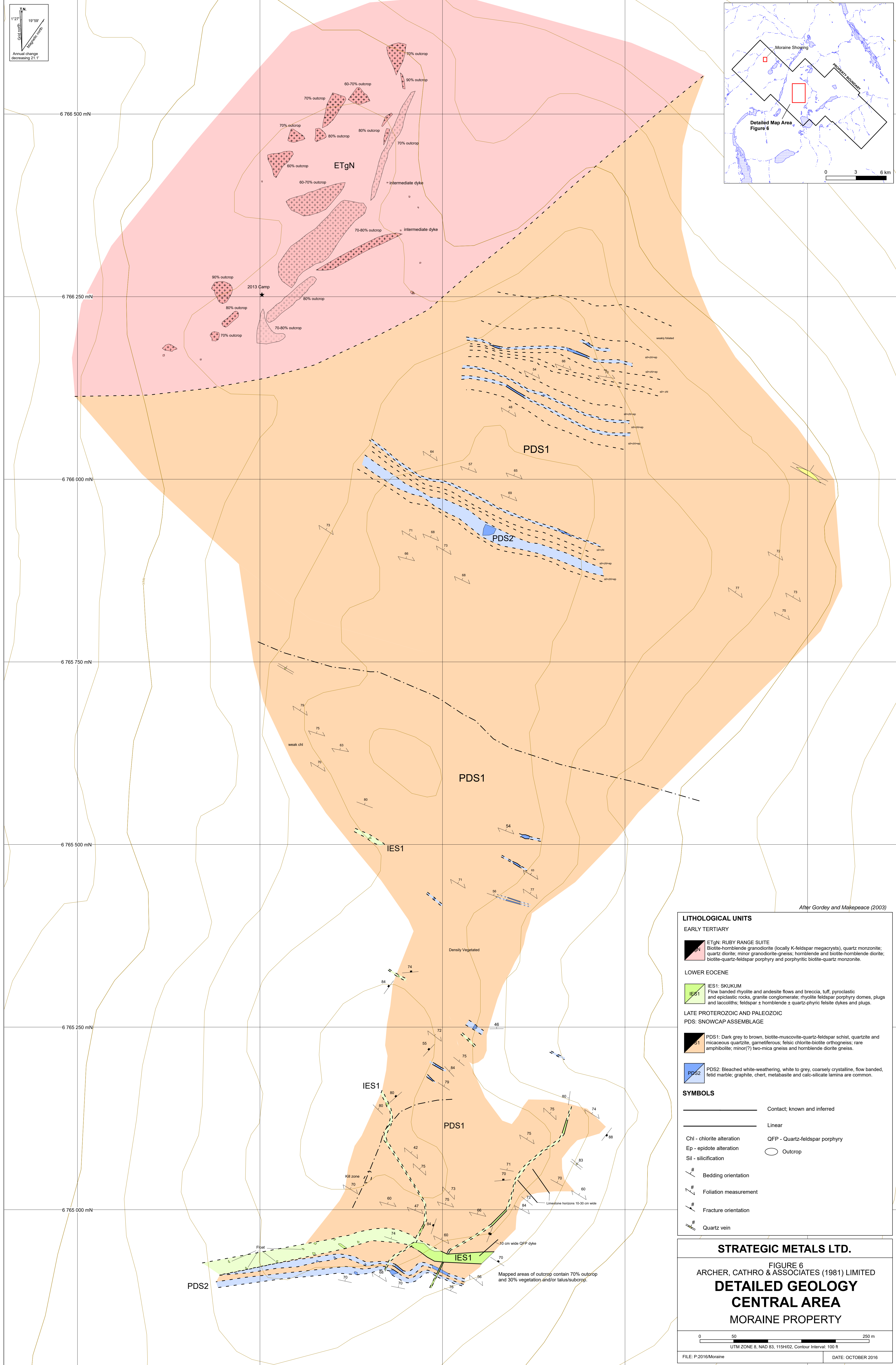
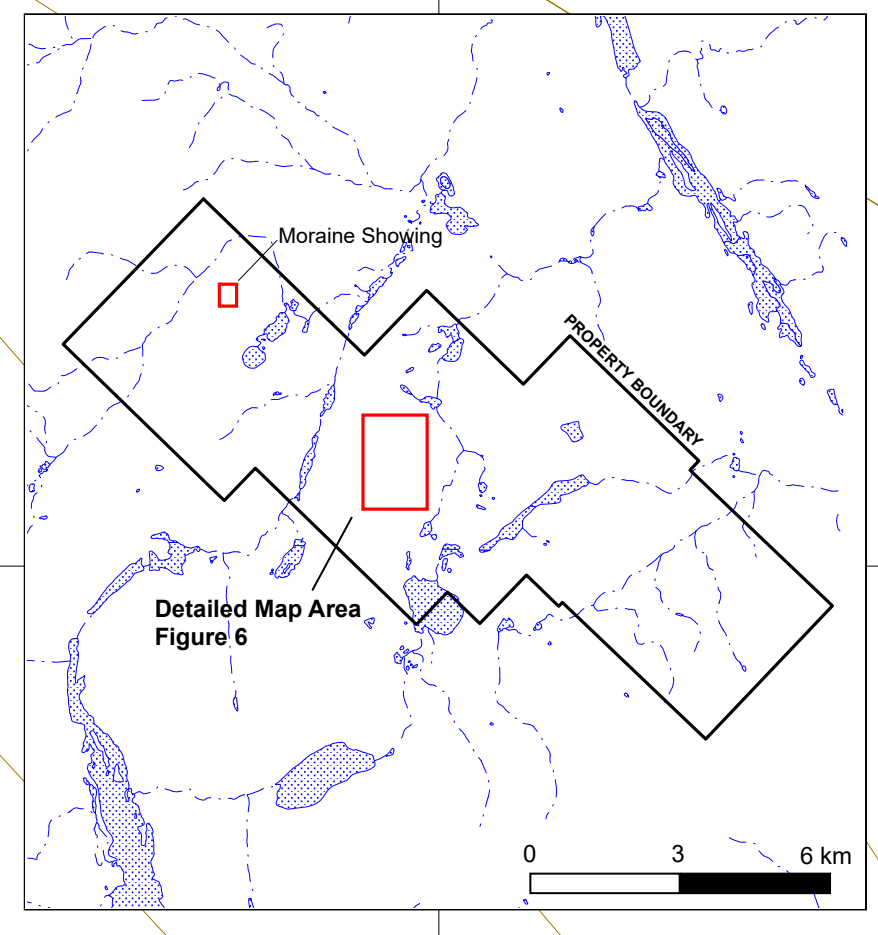
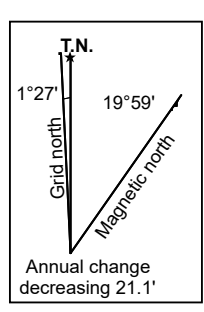
To: STRATEGIC METALS LTD.  
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Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 5-SEP-2016  
 Account: MTT

Project: MORaine

**CERTIFICATE OF ANALYSIS WH16141616**

CERTIFICATE COMMENTS									
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	<p>Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.</p> <table border="0"> <tr> <td>CRU-31</td> <td>CRU-QC</td> <td>LOG-21</td> <td>PUL-31</td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	PUL-31	PUL-QC	SPL-21	WEI-21	
CRU-31	CRU-QC	LOG-21	PUL-31						
PUL-QC	SPL-21	WEI-21							
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table border="0"> <tr> <td>Au-ICP21</td> <td>ME-ICP41</td> </tr> </table>	Au-ICP21	ME-ICP41						
Au-ICP21	ME-ICP41								



After Gordey and Makepeace (2003)

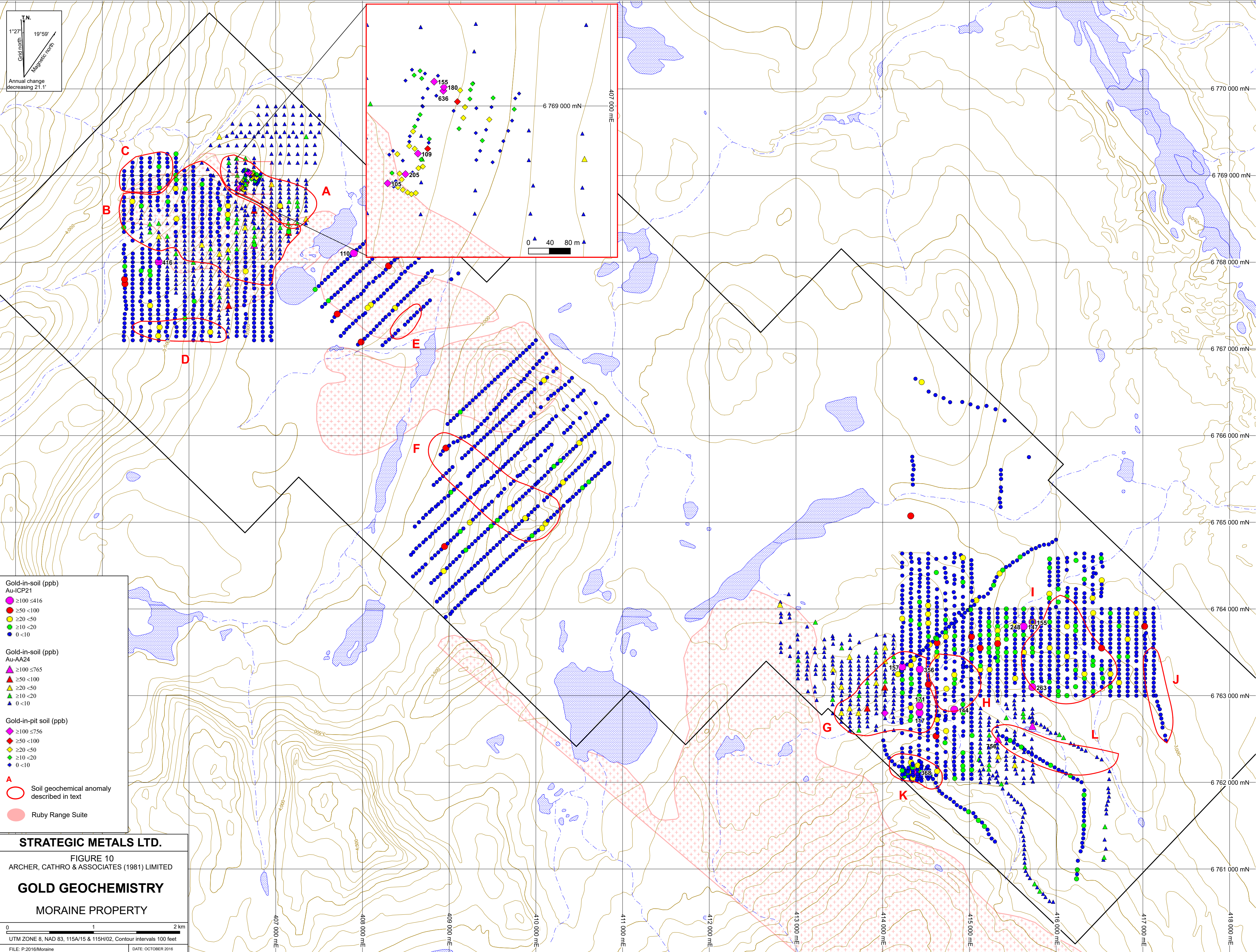
LITHOLOGICAL UNITS	
<b>EARLY TERTIARY</b>	
	ETgN: RUBY RANGE SUITE Biotite-hornblende granodiorite (locally K-feldspar megacrysts), quartz monzonite; quartz diorite; minor granodiorite-gneiss; hornblende and biotite-hornblende diorite; biotite-quartz-feldspar porphyry and porphyritic biotite-quartz monzonite.
<b>LOWER EOCENE</b>	
	IES1: SKUKUM Flow banded rhyolite and andesite flows and breccia, tuff, pyroclastic and epiclastic rocks, granite conglomerate; rhyolite feldspar porphyry domes, plugs and laccoliths; feldspar ± hornblende ± quartz-phryic felsite dykes and plugs.
<b>LATE PROTEROZOIC AND PALEOZOIC</b>	
<b>PDS: SNOWCAP ASSEMBLAGE</b>	
	PDS1: Dark grey to brown, biotite-muscovite-quartz-feldspar schist, quartzite and micaceous quartzite, garnetiferous, felsic chlorite-biotite orthogneiss; rare amphibolite; minor(?) two-mica gneiss and hornblende diorite gneiss.
	PDS2: Bleached white-weathering, white to grey, coarsely crystalline, flow banded, feld marble; graphite, chert, metabasite and calc-silicate lamina are common.
<b>SYMBOLS</b>	
	Contact, known and inferred
	Linear
	Chl - chlorite alteration
	Ep - epidote alteration
	Sil - silicification
	# Bedding orientation
	~ Foliation measurement
	# Fracture orientation
	# Quartz vein
	○ Outcrop
	QFP - Quartz-feldspar porphyry

**STRATEGIC METALS LTD.**

FIGURE 6  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**DETAILED GEOLOGY**  
**CENTRAL AREA**  
MORaine PROPERTY

UTM ZONE 8, NAD 83, 115H02, Contour Interval: 100 ft

FILE: P:2016/Moraine DATE: OCTOBER 2016



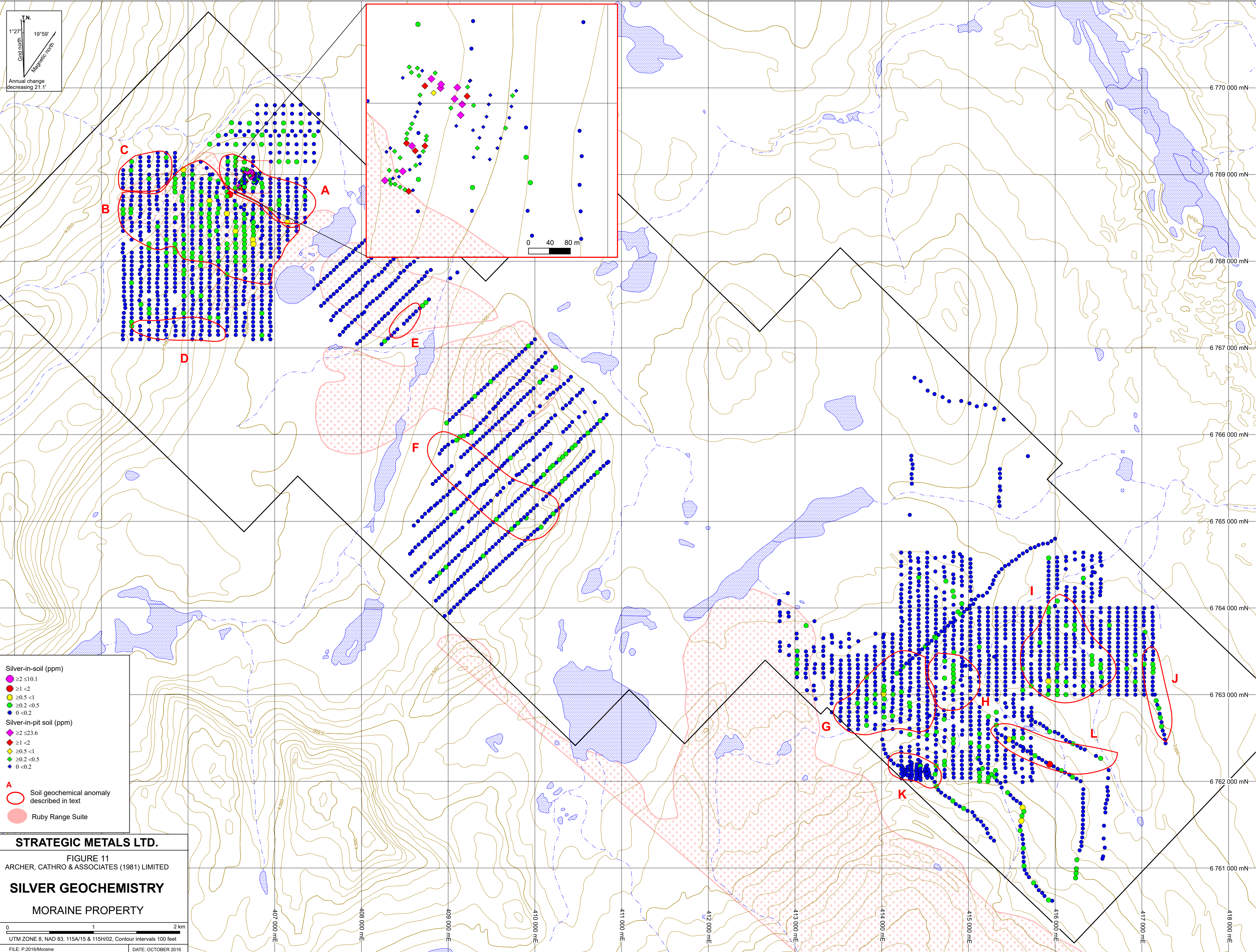
T.N.  
 1°27' 19°59'  
 Grid North  
 Magnetic North  
 Annual change decreasing 21.1'

- Gold-in-soil (ppb)  
 Au-ICP21**
- ≥100 ≤416
  - ≥50 <100
  - ≥20 <50
  - ≥10 <20
  - 0 <10
- Gold-in-soil (ppb)  
 Au-AA24**
- ▲ ≥100 ≤765
  - ▲ ≥50 <100
  - ▲ ≥20 <50
  - ▲ ≥10 <20
  - ▲ 0 <10
- Gold-in-pit soil (ppb)**
- ◆ ≥100 ≤756
  - ◆ ≥50 <100
  - ◆ ≥20 <50
  - ◆ ≥10 <20
  - ◆ 0 <10
- A**
- Soil geochemical anomaly described in text
  - Ruby Range Suite

**STRATEGIC METALS LTD.**  
 FIGURE 10  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**GOLD GEOCHEMISTRY**  
**MORAINE PROPERTY**

0 1 2 km  
 UTM ZONE 8, NAD 83, 115A/15 & 115H/02, Contour intervals 100 feet  
 FILE: P:2016/Moraine DATE: OCTOBER 2016





T.N.  
 1°27' 19"59"  
 Grid North  
 Magnetic North  
 Annual change decreasing 21.1'

**Silver-in-soil (ppm)**

- $\geq 2 < 10.1$
- $\geq 1 < 2$
- $\geq 0.5 < 1$
- $\geq 0.2 < 0.5$
- $0 < 0.2$

**Silver-in-pit soil (ppm)**

- ◆  $\geq 2 < 23.6$
- ◆  $\geq 1 < 2$
- ◆  $\geq 0.5 < 1$
- ◆  $\geq 0.2 < 0.5$
- ◆  $0 < 0.2$

A Soil geochemical anomaly described in text  
 Ruby Range Suite

**STRATEGIC METALS LTD.**

FIGURE 11  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

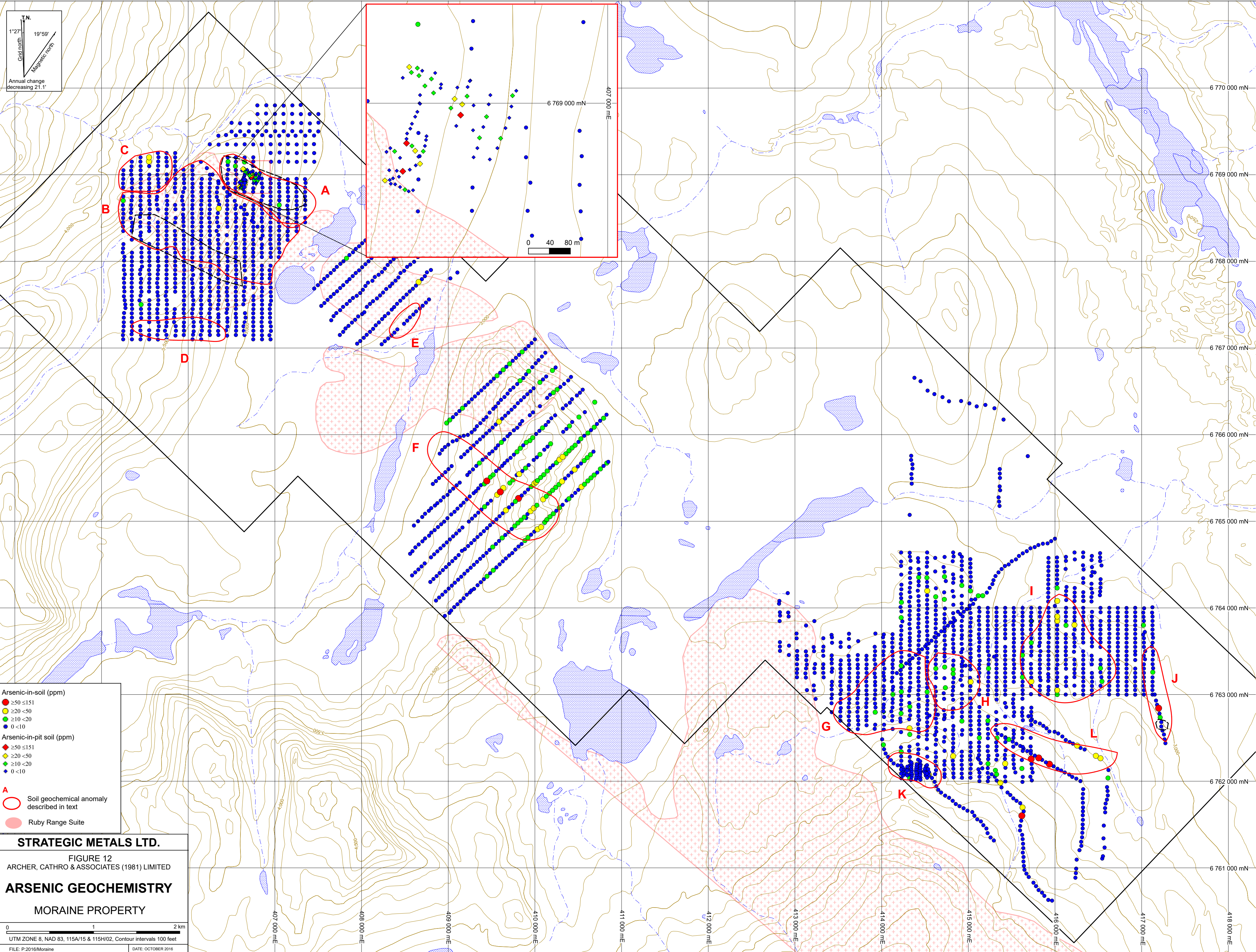
**SILVER GEOCHEMISTRY**

MORaine PROPERTY

0 1 2 km  
 UTM ZONE 8, NAD 83, 115A/15 & 115H/02, Contour intervals 100 feet  
 FILE: P:2016/Moraine DATE: OCTOBER 2016

6 770 000 mN  
 6 769 000 mN  
 6 768 000 mN  
 6 767 000 mN  
 6 766 000 mN  
 6 765 000 mN  
 6 764 000 mN  
 6 763 000 mN  
 6 762 000 mN  
 6 761 000 mN

407 000 mE  
 408 000 mE  
 409 000 mE  
 410 000 mE  
 411 000 mE  
 412 000 mE  
 413 000 mE  
 414 000 mE  
 415 000 mE  
 416 000 mE  
 417 000 mE  
 418 000 mE



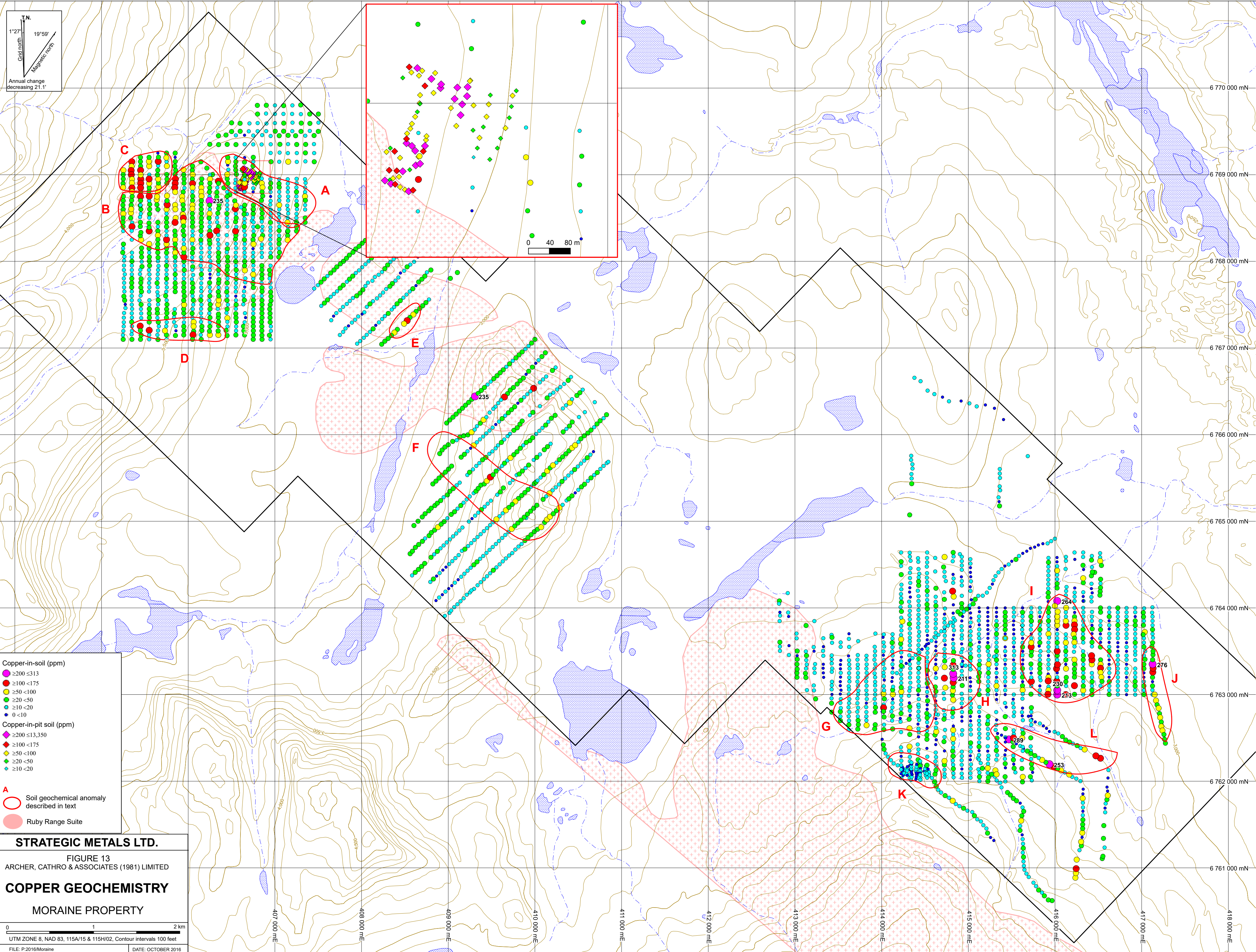
T.N.  
 1°27' 19"59"  
 Grid North  
 Magnetic North  
 Annual change decreasing 21.1'

0 40 80 m

**Arsenic-in-soil (ppm)**  
 ● ≥50 ≤151  
 ● ≥20 <50  
 ● ≥10 <20  
 ● 0 <10  
**Arsenic-in-pit soil (ppm)**  
 ◆ ≥50 ≤151  
 ◆ ≥20 <50  
 ◆ ≥10 <20  
 ◆ 0 <10  
**A**  
 ○ Soil geochemical anomaly described in text  
 ● Ruby Range Suite

**STRATEGIC METALS LTD.**  
 FIGURE 12  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ARSENIC GEOCHEMISTRY**  
**MORAINE PROPERTY**  
 0 1 2 km  
 UTM ZONE 8, NAD 83, 115A/15 & 115H/02, Contour intervals 100 feet  
 FILE: P:2016/Moraine DATE: OCTOBER 2016

T.N.  
 1°27' 19"59"  
 Grid North  
 Magnetic North  
 Annual change decreasing 21.1'

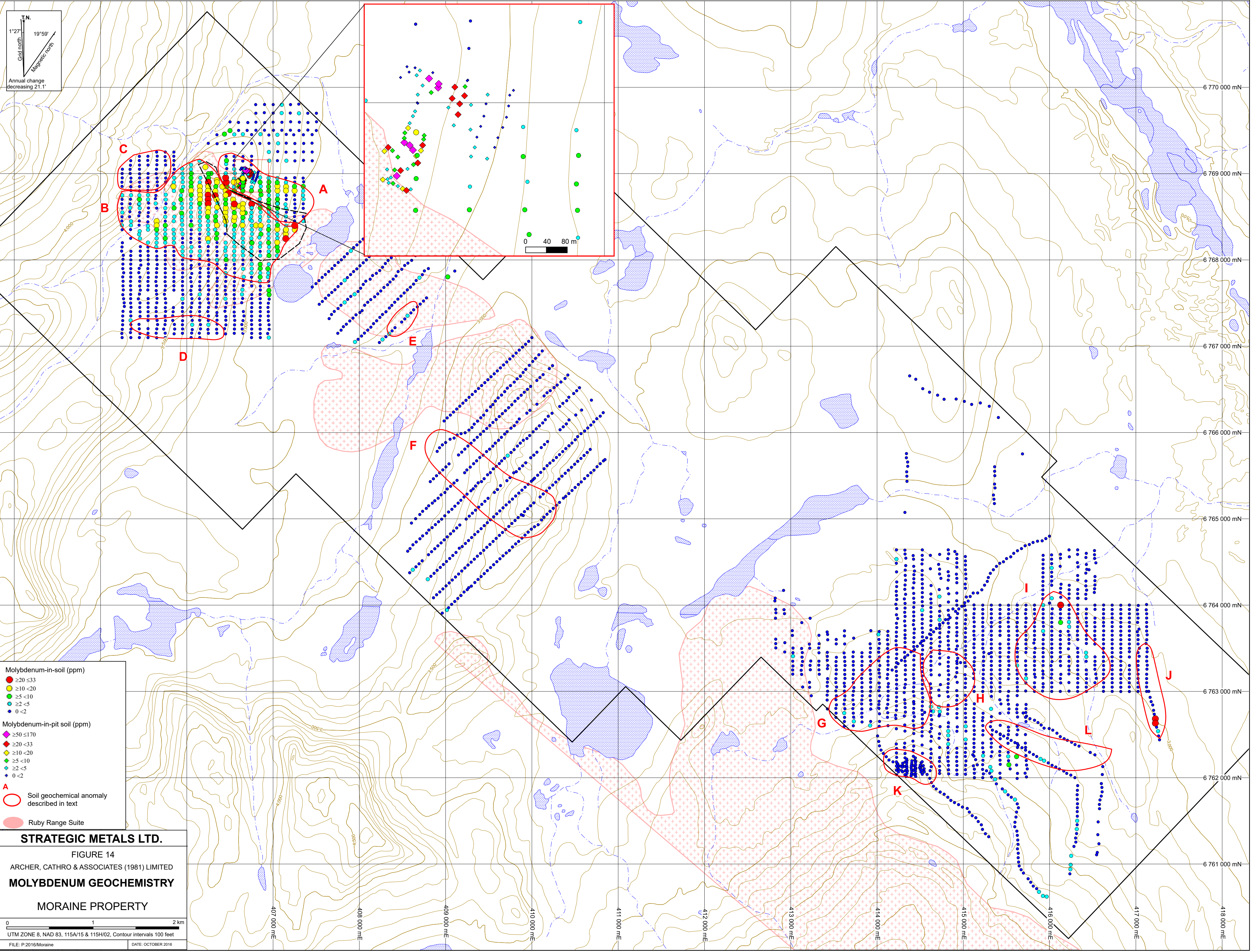


- Copper-in-soil (ppm)**
- $\geq 200 < 313$
  - $\geq 100 < 175$
  - $\geq 50 < 100$
  - $\geq 20 < 50$
  - $\geq 10 < 20$
  - $0 < 10$
- Copper-in-pit soil (ppm)**
- ◆  $\geq 200 < 13,350$
  - ◆  $\geq 100 < 175$
  - ◆  $\geq 50 < 100$
  - ◆  $\geq 20 < 50$
  - ◆  $\geq 10 < 20$
- A** ○ Soil geochemical anomaly described in text
- Ruby Range Suite

**STRATEGIC METALS LTD.**  
 FIGURE 13  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**COPPER GEOCHEMISTRY**  
 MORAINE PROPERTY

0 1 2 km  
 UTM ZONE 8, NAD 83, 115A/15 & 115H/02, Contour intervals 100 feet  
 FILE: P:2016/Moraine DATE: OCTOBER 2016

T.N.  
 1°27' 19"59"  
 Grid North  
 Magnetic North  
 Annual change decreasing 21.1'

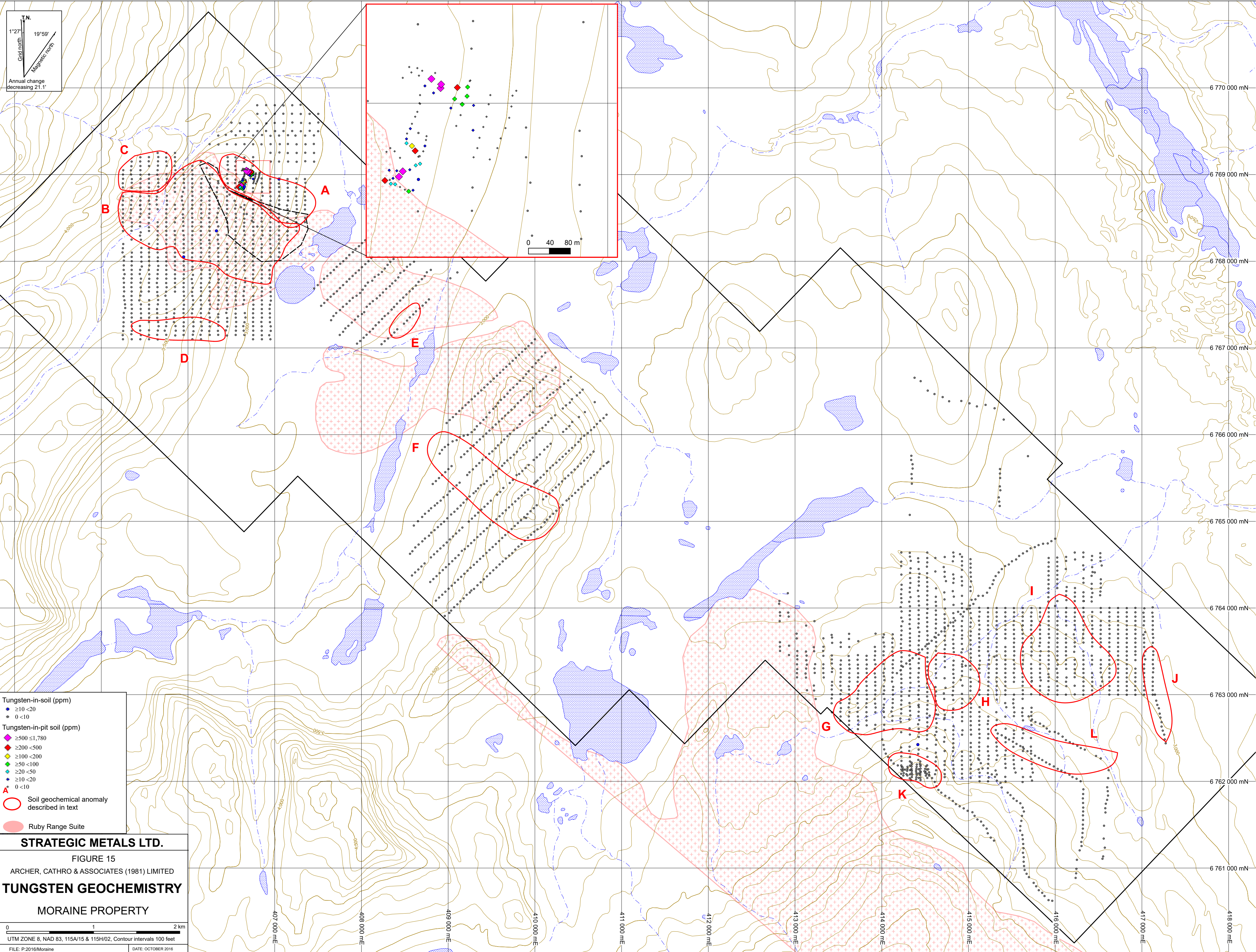


- Molybdenum-in-soil (ppm)**
- $\geq 20 < 33$
  - $\geq 10 < 20$
  - $\geq 5 < 10$
  - $\geq 2 < 5$
  - $0 < 2$
- Molybdenum-in-pit soil (ppm)**
- ◆  $\geq 50 \leq 170$
  - ◆  $\geq 20 < 33$
  - ◆  $\geq 10 < 20$
  - ◆  $\geq 5 < 10$
  - ◆  $\geq 2 < 5$
  - ◆  $0 < 2$
- A** ○ Soil geochemical anomaly described in text
- Ruby Range Suite

**STRATEGIC METALS LTD.**  
 FIGURE 14  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**MOLYBDENUM GEOCHEMISTRY**  
 MORAINE PROPERTY

0 1 2 km  
 UTM ZONE 8, NAD 83, 115A/15 & 115H/02, Contour intervals 100 feet  
 FILE: P:2016/Moraine DATE: OCTOBER 2016

T.N.  
 1°27' 19"59"  
 Grid North  
 Magnetic North  
 Annual change decreasing 21.1'



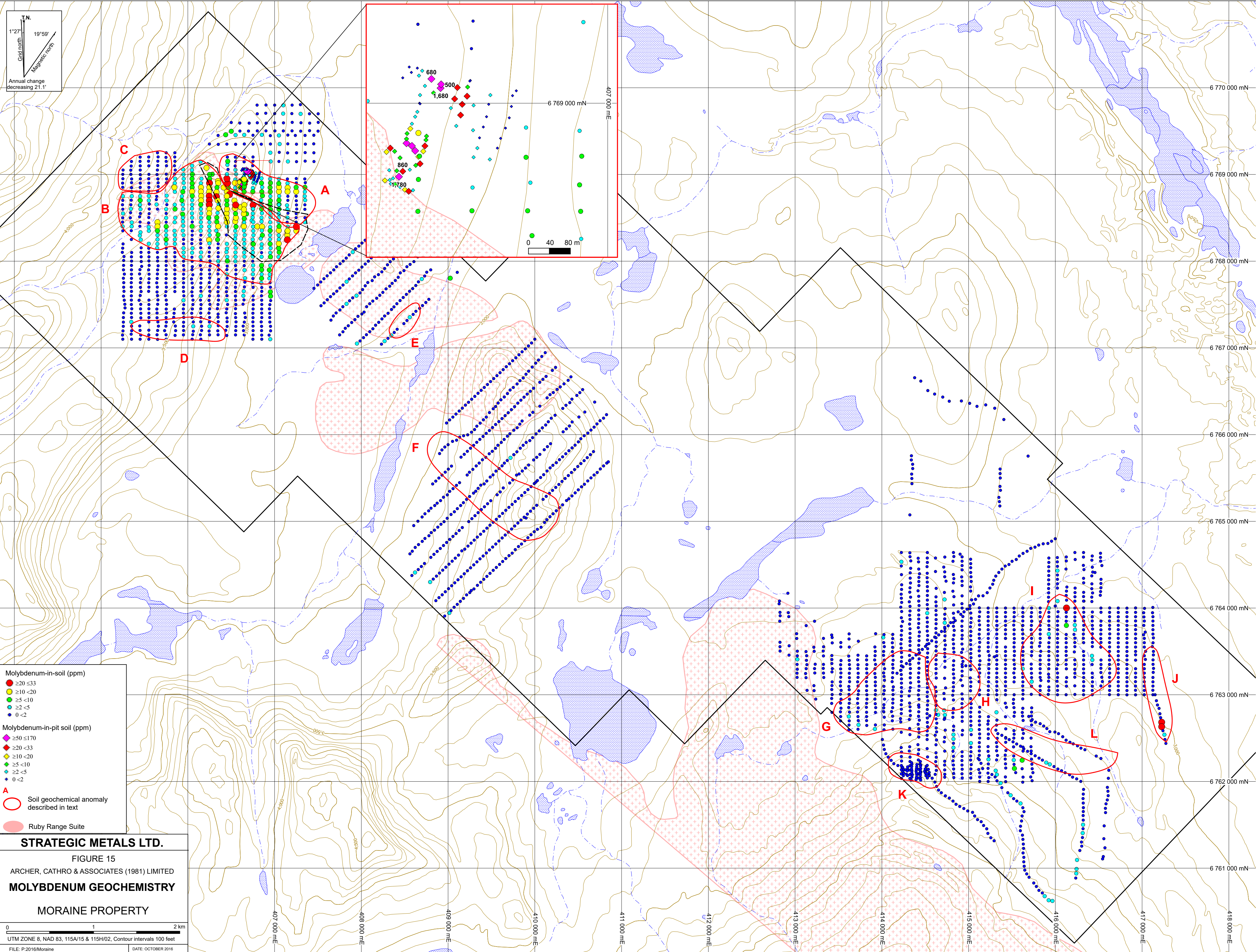
**Tungsten-in-soil (ppm)**  
 •  $\geq 10 < 20$   
 •  $0 < 10$

**Tungsten-in-pit soil (ppm)**  
 ◆  $\geq 500 < 1,780$   
 ◆  $\geq 200 < 500$   
 ◆  $\geq 100 < 200$   
 ◆  $\geq 50 < 100$   
 ◆  $\geq 20 < 50$   
 ◆  $\geq 10 < 20$   
 ◆  $0 < 10$

A Soil geochemical anomaly described in text  
 Ruby Range Suite

**STRATEGIC METALS LTD.**  
 FIGURE 15  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**TUNGSTEN GEOCHEMISTRY**  
 MORAINE PROPERTY

0 1 2 km  
 UTM ZONE 8, NAD 83, 115A/15 & 115H/02, Contour intervals 100 feet  
 FILE: P:2016/Moraine DATE: OCTOBER 2016



T.N.  
 1°27' 19"59"  
 Grid North  
 Magnetic North  
 Annual change decreasing 21.1'

- Molybdenum-in-soil (ppm)**
- ≥20 <33
  - ≥10 <20
  - ≥5 <10
  - ≥2 <5
  - 0 <2
- Molybdenum-in-pit soil (ppm)**
- ◆ ≥50 ≤170
  - ◆ ≥20 <33
  - ◆ ≥10 <20
  - ◆ ≥5 <10
  - ◆ ≥2 <5
  - ◆ 0 <2
- A** ○ Soil geochemical anomaly described in text
- Ruby Range Suite

**STRATEGIC METALS LTD.**

FIGURE 15

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**MOLYBDENUM GEOCHEMISTRY**

MORAINE PROPERTY

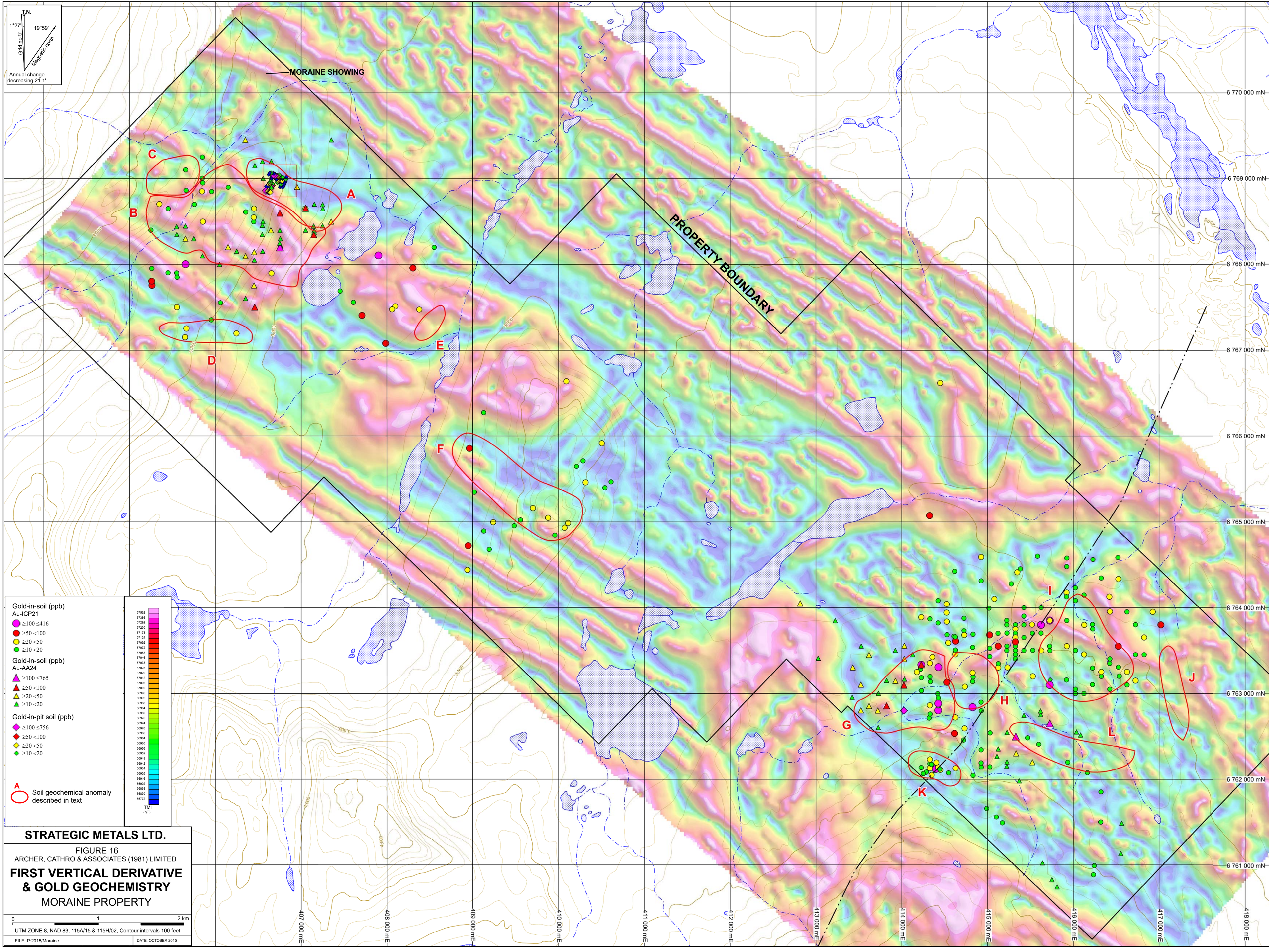
0 1 2 km

UTM ZONE 8, NAD 83, 115A/15 & 115H/02, Contour intervals 100 feet

FILE: P:2016/Moraine DATE: OCTOBER 2016

UTM coordinates: 407 000 mE, 408 000 mE, 409 000 mE, 410 000 mE, 411 000 mE, 412 000 mE, 413 000 mE, 414 000 mE, 415 000 mE, 416 000 mE, 417 000 mE, 418 000 mE

UTM coordinates: 6 761 000 mN, 6 762 000 mN, 6 763 000 mN, 6 764 000 mN, 6 765 000 mN, 6 766 000 mN, 6 767 000 mN, 6 768 000 mN, 6 769 000 mN, 6 770 000 mN



T.N.  
 1°27' 19°59'  
 Grid north  
 Magnetic north  
 Annual change  
 decreasing 21.1"

MORaine SHOWING

PROPERTY BOUNDARY

**Gold-in-soil (ppb)**  
 Au-ICP21  
 ● ≥100 ≤416  
 ● ≥50 <100  
 ● ≥20 <50  
 ● ≥10 <20

**Gold-in-soil (ppb)**  
 Au-AA24  
 ▲ ≥100 ≤765  
 ▲ ≥50 <100  
 ▲ ≥20 <50  
 ▲ ≥10 <20

**Gold-in-pit soil (ppb)**  
 ◆ ≥100 ≤756  
 ◆ ≥50 <100  
 ◆ ≥20 <50  
 ◆ ≥10 <20

**A** Soil geochemical anomaly described in text

57562  
57386  
57302  
57230  
57178  
57124  
57082  
57072  
57036  
57046  
57038  
57028  
57020  
57012  
57006  
57002  
56996  
56992  
56988  
56984  
56980  
56976  
56974  
56970  
56966  
56964  
56960  
56956  
56954  
56950  
56946  
56942  
56938  
56934  
56930  
56926  
56922  
56918  
56916  
56912  
56908  
56904  
56900  
56896  
56892  
56888  
56884  
56880  
56876  
56872

TMI (nT)

**STRATEGIC METALS LTD.**  
 FIGURE 16  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**FIRST VERTICAL DERIVATIVE  
 & GOLD GEOCHEMISTRY**  
 MORaine PROPERTY

0 1 2 km  
 UTM ZONE 8, NAD 83, 115A/15 & 115H/02, Contour intervals 100 feet  
 FILE: P:2015/Moraine DATE: OCTOBER 2015

6 770 000 mN  
 6 769 000 mN  
 6 768 000 mN  
 6 767 000 mN  
 6 766 000 mN  
 6 765 000 mN  
 6 764 000 mN  
 6 763 000 mN  
 6 762 000 mN  
 6 761 000 mN

407 000 mE  
 408 000 mE  
 409 000 mE  
 410 000 mE  
 411 000 mE  
 412 000 mE  
 413 000 mE  
 414 000 mE  
 415 000 mE  
 416 000 mE  
 417 000 mE  
 418 000 mE