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**ASSESSMENT REPORT**

describing

**PROSPECTING AND SOIL GEOCHEMICAL SAMPLING**

Field work performed between August 13 and 18, 2020

at the

**OLI PROPERTY**

Oli 1-24                      YF47977-YF48000

NTS 115P/15

Latitude 63°45'N; Longitude 136°30'W

located in the

Mayo Mining District  
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

**STRATEGIC METALS LTD.**

by

H. Burrell, P.Geol

December 2020

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## **INTRODUCTION**

The Oli property was staked in February 2019 to cover a silver-tin breccia and skarn occurrence (Oliver occurrence (MINFILE 115P 030)). The property also hosts potential for skarn- and/or intrusion-related gold, silver, copper, zinc, cobalt and tungsten mineralization. The Oli property is wholly owned by Strategic Metals Ltd.

This report describes prospecting and geochemical sampling conducted from August 13 to 18, 2020. Archer, Cathro & Associates (1981) Limited managed the program on behalf of Strategic Metals. The author interpreted all the data in this report and her Statement of Qualifications is provided in Appendix I. A Statement of Expenditures appears in Appendix II.

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

The property is located 23 km northwest of Mayo in central Yukon, at latitude 63°45'35"N and longitude 136°30'43"W on NTS map sheet 115P/15 (Figure 1). The property comprises 24 contiguous claims, which cover 485 hectares (4.85 km<sup>2</sup>). The claims are registered with the Mayo Mining Recorder 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. The Oli property lies within the traditional territory of the Na-cho Nyak Dun First Nation.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Oli 1-24	YF47977-YF48000	February 25, 2029

\* Expiry date includes 2020 work, which has been filed for assessment credit.

The Oli property can be accessed by air or ground transportation. In 2020, a three person crew camped on the property. Helicopter support was provided by a Bell 206 LR helicopter operated by Fireweed Helicopters Ltd., from a seasonal base at the Mayo Airport, located 35 km southeast of the property.

Ground access is possible via an overgrown road, which would require brushing before it could be used by a side-by-side or an ATV. Access by truck would require blading a portion of the road with a bulldozer.

## **HISTORY AND PREVIOUS WORK**

The first reported exploration program on the Oli property was conducted in 1978 by Cortin Joint Venture (Billiton, E Can L., CCH and Inco) and consisted of reconnaissance pan sampling along Oliver Creek. One of the pan concentrates returned 7.4% tin and 1.9% tungsten oxide. Follow up work comprised geological mapping, prospecting and soil sampling. Results from this work were encouraging and included a grab sample that returned 0.2% tin, 0.8% copper, 0.2% zinc and 45 g/t silver (Kennedy, 1980).

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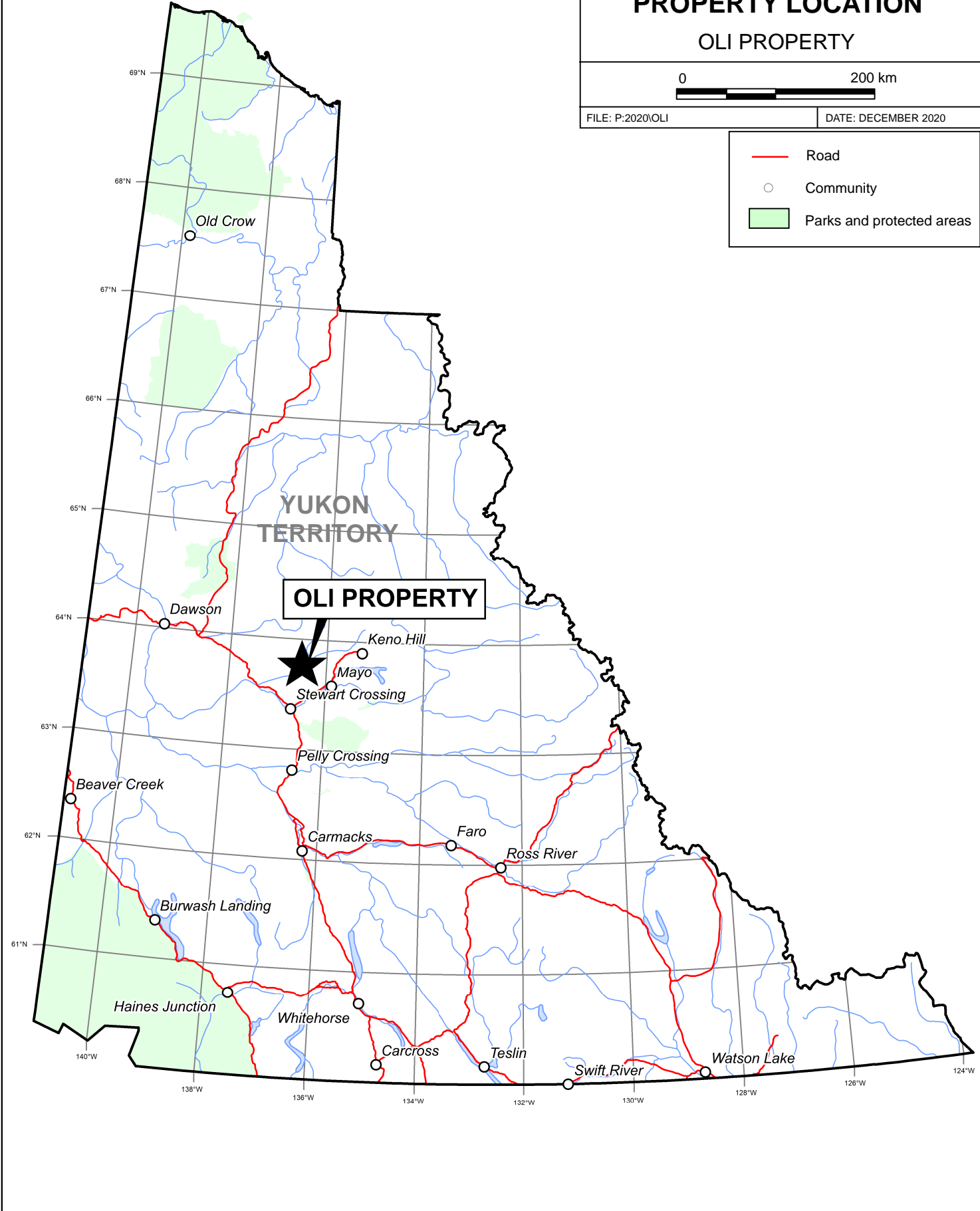
FIGURE 1  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**PROPERTY LOCATION**  
OLI PROPERTY

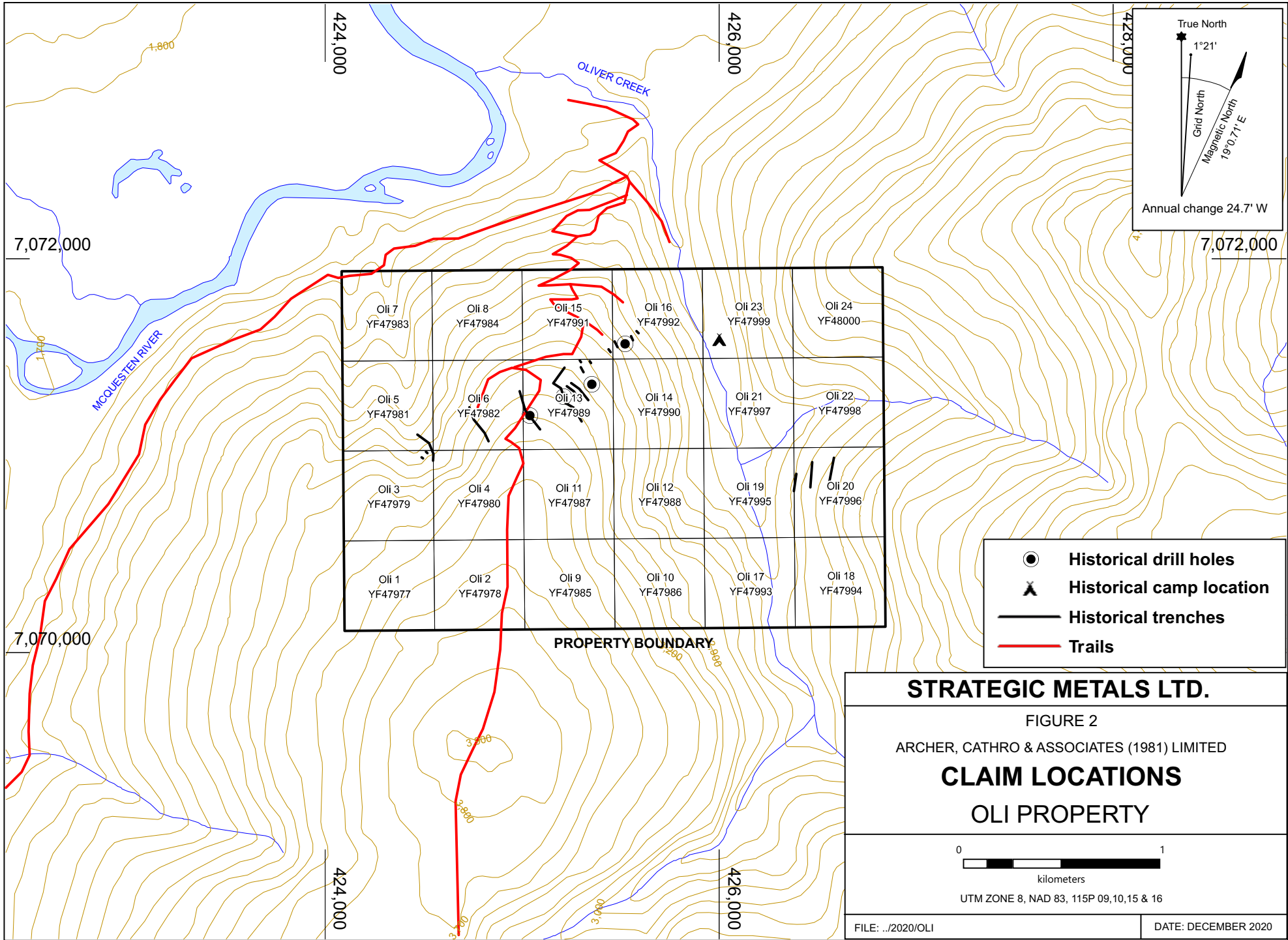


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- Road
- Community
- Parks and protected areas





In 1979, Cortin Joint Venture completed more soil geochemical sampling, prospecting and four diamond drill holes totalling 322 m in the area of the current Oli property. Drilling returned strong tin values (Kennedy, 1981). Figure 2 illustrates the locations of historical trenches and diamond drill holes, which have mostly been re-surveyed by Strategic Metals using GPS coordinates.

In 1980, Cortin Joint Venture completed another eight diamond drill holes totalling 916 m, and in 1981 an additional eight diamond drill holes totalling 1525 m (Kennedy, 1981; Rota, 1982). Results from this diamond drilling are discussed in the historical diamond drilling sub-section in this report. In 1981, Cortin Joint Venture also completed 18 excavator trenches (Rota, 1982).

From 1982 to 2011 the Oli property received little to no work; however, in 1992 and 1994 government geologists performed regional studies focussing on tin and tungsten mineralization associated with plutons in the McQuesten River and Mayo area (Emond and Lynch, 1992).

In 1996, Murphy et al., published a Bulletin on the Geology of the McQuesten River Region, Northern McQuesten and Mayo Map Areas, Yukon Territory (115P/14, 15, 16; 105M/13, 14).

In 2011, Goldstrike Resources Ltd. conducted a reconnaissance prospecting and soil geochemical sampling program for gold in the area of the current Oli property (Benz, 2012). This work included collection of rock samples from historical bulldozer trenches and ridgeline soil samples. Results from historical drilling, trenching and geochemical soil and rock sampling are discussed later in this report.

Strategic Metals staked the Oli property in February 2019, and the following summer it conducted a program consisting of surveying, geological mapping, prospecting and soil geochemical sampling. This program successfully relocated many of the old workings and confirm the tenor of historical results.

## **GEOMORPHOLOGY**

The Oli property is located northeast of the Tintina Trench within the Stewart Plateau. Local creeks drain northward into the McQuesten River, which is part of the Yukon River drainage system. The Stewart Plateau consists of a series of tablelands incised by broad, deeply-cut valleys. Most of the drainages were affected by Pleistocene glaciation, but at higher elevations, thin layers of weathered and mass-wasted bedrock partially blanket bedrock.

Elevations on the property range from approximately 600 m above sea level in the north to 1150 m in the south. The entire property lies below treeline and is vegetated by a boreal forest of shrub birch, pine, white spruce, and subalpine fir. Mixed forest canopies are common due to frequent forest fires caused by the high incidence of thunderstorms along the Tintina Trench. Higher elevations on the property were burnt in a 1995 forest fire.

The climate at the Oli property is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. Although summers are relatively

warm, snowfall can occur in any month. The property is mostly snow free from early June to late September.

## **REGIONAL GEOLOGY**

Neoproterozoic to late Paleozoic slope-to-basin facies strata of the Selwyn Basin dominate the region around the Oli property (Figure 3). The Selwyn Basin developed along a divergent margin during mid-Neoproterozoic rifting along the northwestern margin of North America (Mair et al., 2006). Neoproterozoic to Early Cambrian turbidite sequences are the oldest exposed strata and are overlain by a thin succession of Early Cambrian to Early Devonian basinal strata (Mair et al., 2006).

In the region surrounding the Oli property Selwyn Basin stratigraphy is disrupted by three main north- to northwest-directed thrust faults. These are from north to south, the Dawson, Tombstone and Robert Service thrusts (Figure 4; Murphy, 1997; Mair et al., 2006). The hanging wall of the Tombstone Thrust is comprised of a thick and aerially extensive package of highly deformed rocks referred to as the Tombstone Strain Zone (Murphy, 1997). This zone is several kilometres thick and extends upwards from the Tombstone Thrust and into the lower part of the overlying Robert Service Thrust sheet (Murphy, 1997). Proterozoic strata of the Mackenzie Platform underlie the area north of the Dawson Thrust, whereas Neoproterozoic to Paleozoic slope-to-basin facies strata underlie the area to the south. The major thrust faults developed during the Early Jurassic to Early Cretaceous collisional orogeny are gently dipping and are folded over the McQuesten Antiform, a northeast trending structural culmination that runs through the immediate area around the Oli property (Figure 5). Deformation related to thrusting waned by the mid-Cretaceous and was followed by the emplacement of a northward-younging series of orogen-parallel, felsic to intermediate postcollisional plutonic suites from ca. 112 to 90 Ma (Mortensen et al., 2000; Mair et al., 2006). This belt of intrusive rocks is referred to as the Tombstone-Tungsten Belt, which is subdivided into the Tombstone, Mayo and Tungsten suites (Mortensen et al., 2000; Baker and Lang, 2001; Hart et al., 2004; Mair et al., 2006). Collectively, these suites form a narrow, west-northwest-trending group of plutons that extends for 550 km, from the Northwest Territories across central Yukon, with a continuation in the Fairbanks area of east-central Alaska that was offset by latest Cretaceous to Tertiary displacement along the Tintina Fault system.

Younger intrusions of the McQuesten Suite occur in the McQuesten and Mayo areas and in the footwall of the Dawson Thrust where a McQuesten aged pluton is thought to be associated with the Tiger gold deposit. Only five intrusions of this age (Late Cretaceous; 67- 64 Ma) have been documented to date in Yukon, but similar age rocks occur in east-central Alaska, offset from the McQuesten River region along the Tintina Fault system where they host significant porphyry copper-gold mineralization (McCoy et al., 1997; Woodman, 2018). This suite's radiogenic, peraluminous nature suggests melting of old crustal source material, but the geodynamic setting of melting at this time is essentially unconstrained (Murphy, 1997). Regional lithologies are described in Table I below.



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FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

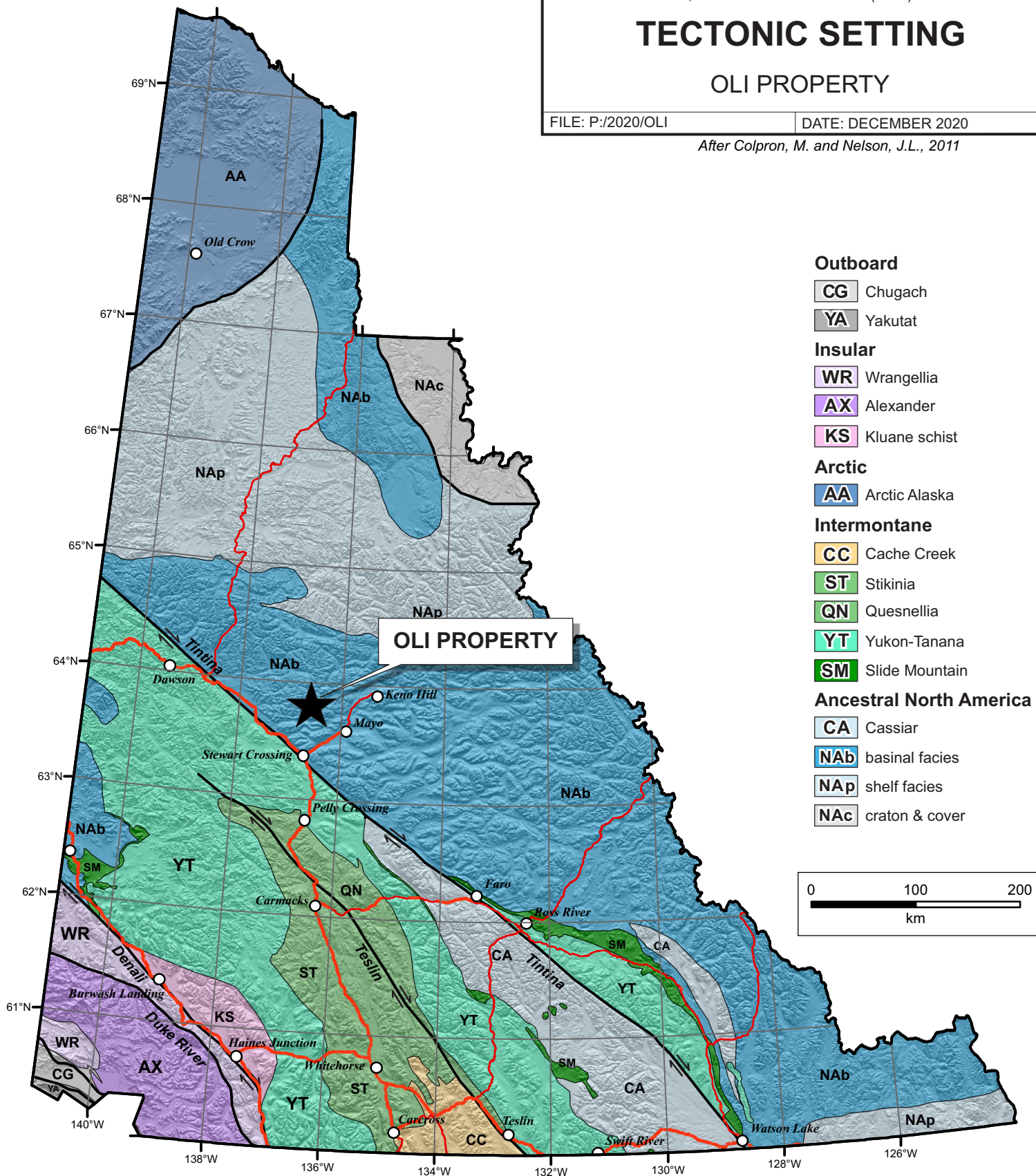
## TECTONIC SETTING

### OLI PROPERTY

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DATE: DECEMBER 2020

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





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FIGURE 4

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**TINTINA GOLD PROVINCE ACROSS  
ALASKA AND YUKON**  
OLI PROPERTY

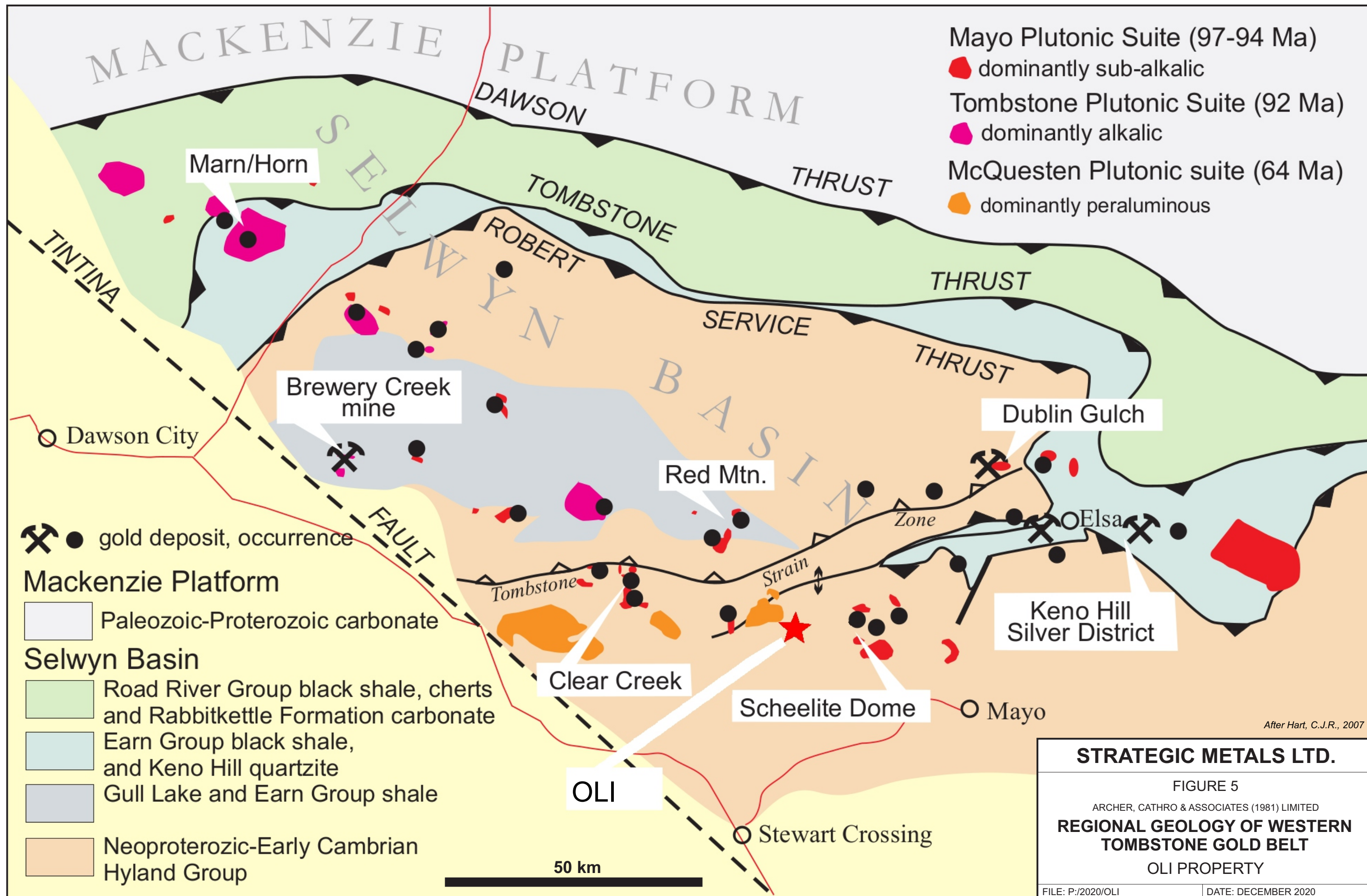
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DATE: DECEMBER 2020

*After Hart, C.J.R., 2007*







After Hart, C.J.R., 2007

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FIGURE 5

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**REGIONAL GEOLOGY OF WESTERN TOMBSTONE GOLD BELT**

OLI PROPERTY

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**Table I - Regional Lithological Units (After YGS, 2020)**

<b>Name</b>	<b>Age</b>	<b>Unit</b>	<b>Description</b>
McQuesten Suite	Late Cretaceous	LKqM	Medium to coarse-grained, locally porphyritic and K-feldspar megacrystic biotite-muscovite granite and quartz monzonite.
Tombstone Suite	Mid Cretaceous	MKT	Plutonic suite dominated by felsic (q) to syenitic (y) and minor intermediate (g) compositions <b>q:</b> medium to coarse-grained, locally porphyritic biotite hornblende, clinopyroxene granite <b>g:</b> quartz monzonite, granodiorite, quartz diorite <b>y:</b> medium to coarse-grained biotite-hornblende-clinopyroxene syenite, quartz syenite; tourmaline orbicular granite; hornblende biotite alkali-feldspar syenite; hornblende biotite monzogranite; clinopyroxenite, diorite, and pseudoleucite tinguaitite.
Mayo Suite	Mid Cretaceous	MKqM	Medium-grained, equigranular biotite granite; K-feldspar porphyritic granite; aplite-pegmatite dykes.
Tungsten Suite	Mid Cretaceous	MKTu	Fine-grained equigranular, medium to coarse-grained and K-feldspar porphyritic or megacrystic, ilmenite and monazite-bearing biotite monzogranite and leucogranite; local miarolitic, aplite ± pegmatite ± quartz-feldspar-(biotite) porphyry dykes
Hyland Group	Neoproterozoic to Ediacaran	PCH6	Brown to pale green shale, quartz-rich sandstone, grit, pebble conglomerate.

### **REGIONAL METALLOGENY**

The Oli property lies within the McQuesten River area and is part of the western Tombstone Belt in west-central Yukon. The Tombstone Belt is part of the broader Tombstone-Tungsten Belt, which is in turn part of the broader Tintina Gold Province (Figure 4).

The Tintina Gold Province is a 2,000-km-long belt across the central Yukon and interior Alaska containing numerous gold deposits and districts that formed during Jurassic to Cretaceous orogenesis. Significant developed and undeveloped gold deposits include Donlin Creek (24.3 million ounces (Moz)), Pogo (5.8 Moz), Fort Knox (5.4 Moz), Eagle/ Dublin Gulch (4.1 Moz), Brewery Creek (0.85 Moz) and True North (0.79 Moz) (Figure 4, modified from Hart, 2007). It has been postulated that many deposits of the Tintina Gold Province are best classified as

intrusion-related gold systems due to the spatial and temporal association of many of the gold deposits with felsic to intermediate plutonic rocks (Thompson et al., 1999; Thompson and Newberry, 2000; Mair et al., 2006; Hart, 2007).

The western Tombstone Belt is host to most of the intrusion-related gold systems associated with the Tombstone-Tungsten Belt, including Brewery Creek, Clear Creek, Scheelite Dome and Eagle/ Dublin Gulch. The Oli property lies within this part of the belt (Figure 4 modified from Hart, 2007).

Deposits of the Tombstone Belt exhibit a variety of mineralization styles. Gold occurrences within the mid-Cretaceous intrusions are predominantly hosted in sheeted, low sulfide quartz veins in the cupolas of intrusions. Occurrences in adjacent hornfels are more variable in style, with sheeted tension veins, fault veins, reduced skarns, and disseminated ores (Hart et al., 2002; Mair et al., 2006). Gold is typically associated with variable enrichments of W, Bi, Te, As ± Sb, and Mo and typically occurs in four settings:

1. Intrusion-hosted deposits;
2. Proximal settings adjacent to intrusions and within contact aureoles;
3. Distal settings away from intrusions and their thermal aureoles; and,
4. Discrete quartz-sulphide veins within all settings.

Intrusion-hosted mineralization is often characterized by sheeted, low sulphide, quartz ± carbonate veins or disseminations of gold and accompanying sulphide minerals in weakly altered zones within the intrusions. The veins may be pegmatitic in part and they are generally concentrated in the roof or margin zones of the pluton. The best example of intrusion-hosted sheeted vein mineralization is the Fort Knox deposit in the Fairbanks District of Alaska. Noteworthy Yukon examples of the sheeted vein type mineralization are the Clear Creek occurrence and the Eagle Zone of the Dublin Gulch Deposit (Figure 5). The latter deposit contains 91.6 million tonnes of probable mineral reserves at a grade of 0.78 g/t gold. The best documented Yukon deposit of the disseminated intrusion-hosted type are some of the zones that comprise the Brewery Creek Mine, located ~50 km east of Dawson City. A total of 9.46 million tonnes of ore, at an average grade of 1.53 g/t gold, were heap leached from 1996 to 2000 (Diment and Simpson, 2003). The aggregate pre-mining mineral resource was estimated at 40 million tonnes grading 1.4 g/t gold (Hart, et al., 2000).

Proximal, country-rock hosted mineralization includes skarns, replacements and disseminations in thermally metamorphosed and metasomatized aureoles that surround Tombstone Suite plutons. Precious metal bearing skarns are locally developed within limy units and consist of coarse grained silicate assemblages dominated by pyroxene and garnet with lesser wollastonite, tremolite, and axinite. Sulphide assemblages include pyrrhotite and chalcopyrite with late pyrite, bismuthinite and gold or argentian gold overprints. The Marn, Horn and Mike Lake copper-gold skarn occurrences are the best documented Yukon examples of proximal skarns. Replacement and disseminated gold mineralization has been reported in reactive sedimentary rocks within hornfelsed aureoles of several intrusions but there are few well explored examples. Mineralogy within hornfels is typified by coarse grained pyrrhotite, arsenopyrite and pyrite as irregular blebs and replacements.

In the McQuesten River area, there are numerous tin  $\pm$  silver occurrences that are associated with two-mica granites, while tungsten  $\pm$  gold occurrences are associated with less evolved biotite-hornblende granite, quartz monzonite, and granodiorite (Emond and Lynch, 1992). Two styles of tin and tungsten mineralization are typical of the McQuesten River area, (1) skarns, and (2) veins and breccias (Emond and Lynch, 1992)

Skarn mineralization typically develops within the Hyland Group carbonates and other calcareous units within Selwyn Basin stratigraphy at or near contacts with mid- to Late Cretaceous intrusions. Tin skarn occurrences are found at the Oli (115P 030), Boulder Creek (115P 048) and Snark (115P 008b) Minfile occurrences. Tungsten skarn occurs at Scheelite Dome (115P 004), Lugdush (115P 009), Rhosgobel (115P 012) and Ray Gulch (106D 027) (Emond and Lynch, 1992).

Veins, breccias and sheeted veins containing tin and tungsten can also occur near dyke and plutonic contacts within surrounding metasedimentary rocks. Sheeted veins in some cases extend from the pluton several hundred metres into the country rock. Most veins and breccias dip steeply and are fault or joint controlled (Emond and Lynch, 1992). Breccias typically consist of a combination of host rock fragments with vein material clasts in a fine-grained matrix of the same material. Vein material can either be quartz, tourmaline or chlorite (Emond and Lynch, 1992). Vein types can be subdivided into the same three dominant mineral assemblages:

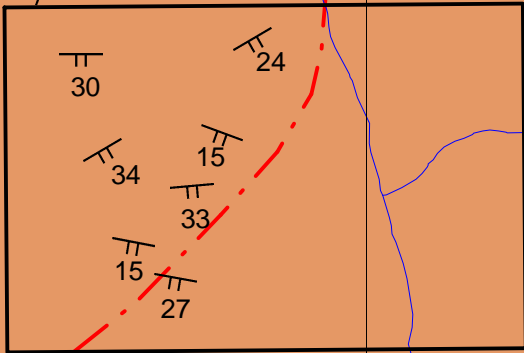
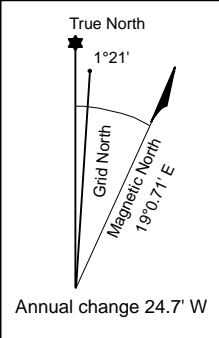
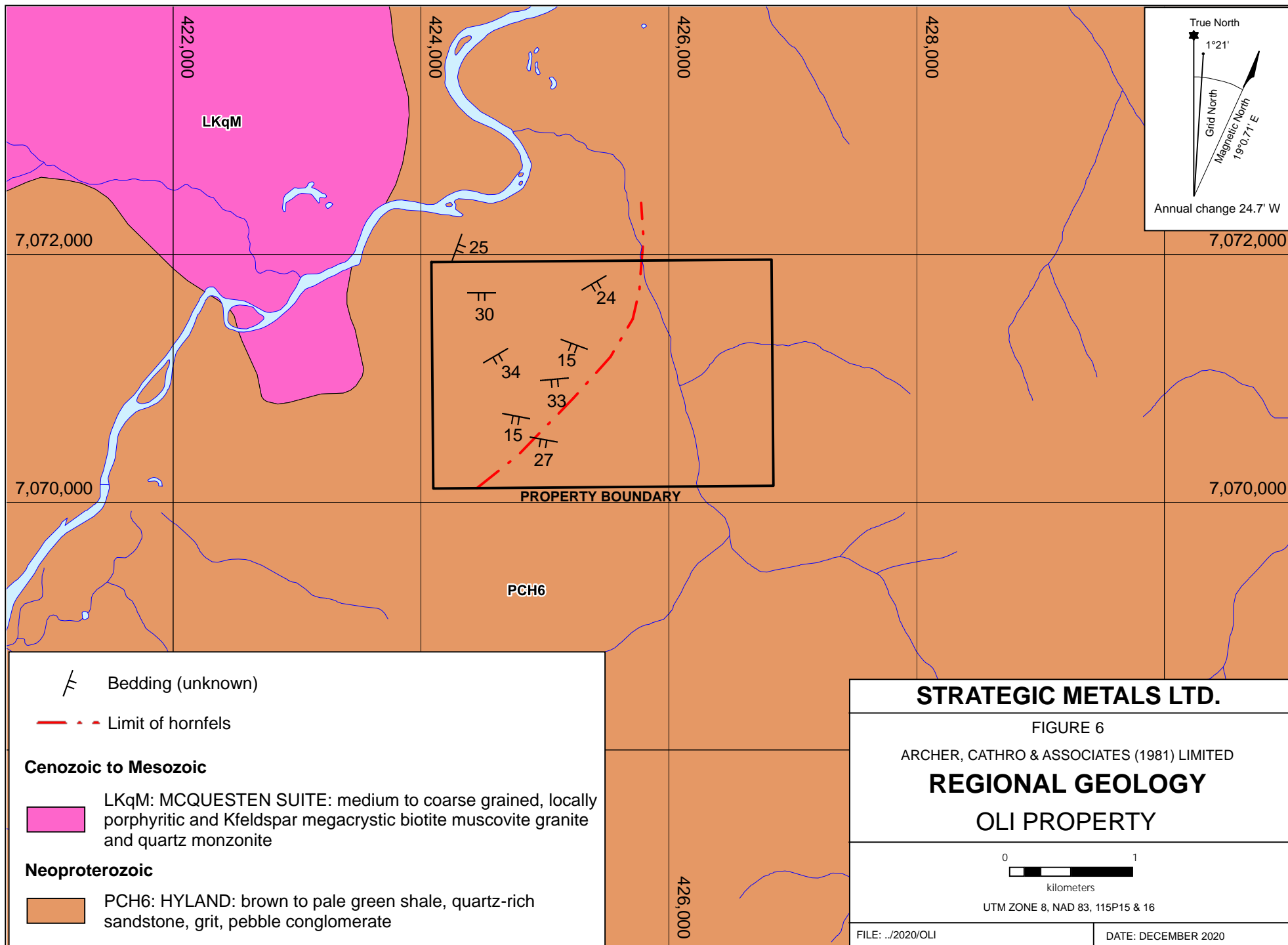
- a) quartz  $\pm$  tourmaline, orthoclase, cassiterite, scheelite, topaz;
- b) tourmaline  $\pm$  sulphides, cassiterite; and
- c) chlorite  $\pm$  cassiterite, sulphides, biotite, muscovite.

The McQuesten River area has gold as well as tin-tungsten potential. Most skarns and several veins are gold-bearing, but there is no direct correlation between gold, tin and tungsten. However, skarns in this area often show a strong positive correlation between gold and bismuth (Emond and Lynch, 1992).

## **PROPERTY GEOLOGY**


The Oli property is located in an area with very little outcrop. Consequently, what is known about the property geology is based on extrapolation of regional mapping or bedrock that was exposed through historical road building, mechanized trenching or diamond drilling.


The property is underlain by the lower part of the Yusezyu Formation of the Hyland Group (Figure 6). The Yusezyu Formation comprises foliated and lineated quartzofeldspathic and micaceous psammite, and muscovite-chlorite $\pm$ biotite phyllite. Less common, but locally important, are gritty to pebbly psammite, metamorphosed pebble conglomerate, foliated phyllitic or sandy marble, and calc-silicate rocks (Murphy, 1997). Bedrock exposed during trenching and diamond drilling on the Oli property has been described by Kennedy (1981) and Benz (2012) as quartzite, chlorite schist, chlorite-biotite schist, brecciated and un-brecciated phyllite, with occasional patches of olive-green (epidote?) alteration minerals. The property is located on the southern limb of the northeast trending McQuesten Antiform, and foliation measurements




PROPERTY BOUNDARY

PCH6


 Bedding (unknown)

 Limit of hornfels

**Cenozoic to Mesozoic**

 LKqM: MCQUESTEN SUITE: medium to coarse grained, locally porphyritic and Kfeldspar megacrystic biotite muscovite granite and quartz monzonite

**Neoproterozoic**

 PCH6: HYLAND: brown to pale green shale, quartz-rich sandstone, grit, pebble conglomerate

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FIGURE 6

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**REGIONAL GEOLOGY**

**OLI PROPERTY**

0 1  
 kilometers

UTM ZONE 8, NAD 83, 115P15 & 16

FILE: ../2020/OLI      DATE: DECEMBER 2020

generally strike east-west and dip gently southward between 15 to 34 degrees (Figure 6; Murphy and Heon, 1996).

The Boulder Creek Stock, is a McQuesten Suite intrusion, and lies immediately northwest of the Oli property. A U/Pb zircon analysis from this intrusive body near the property returned an age of  $66.0 \pm 2.0$  Ma. Significant hornfeling from the Boulder Creek stock occurs within the Yusezyu Formation and extends into the metasediments for at least 1 km (Figure 6; Murphy and Heon, 1996).

### **MINERALIZATION**

The Oli property covers the Oliver occurrence, where silver and tin mineralization occurs within an east-northeast striking, steeply south-dipping fault gouge and breccia zone. The zone is developed within and adjacent to the hornfels zone associated with the Boulder Creek stock. Chlorite is the dominant matrix material in silver and tin rich breccias, with lesser tourmaline, rutile, biotite, muscovite, sphalerite, chalcopryite, pyrrhotite and native silver. The chlorite matrix encompasses clasts of metaclastic country rock, vein quartz, vein tourmaline, vein chlorite and cassiterite. Breccias cemented by tourmaline, quartz, biotite, muscovite, kaolinite and calcite also occur. Stockwork veins with similar mineralogical characteristics to the breccias are very dense immediately outside the breccia zones, but have lower metal values. Country-rock alteration is intense within the stockwork zone (Murphy, 1997). The Oliver occurrence contains minor fluorite-sericite-chlorite alteration. Fluorite with abundant muscovite signals the onset of greisenization, an important retrograde alteration which improves the economic viability of tin deposits (Emond and Lynch, 1992).

In addition, the property hosts silver and tin mineralization in actinolite-pyrrhotite-chlorite skarns, and gold, copper, cobalt, molybdenum, lead, zinc, bismuth and tungsten mineralization in breccias, skarns and veins. Economic minerals including cassiterite, sphalerite, pyrrhotite, pyrite, scheelite, chalcopryite and arsenopyrite are commonly found within tourmaline-matrix breccias in quartzite and schist, and in actinolite-chlorite-calcite-diopside-quartz-epidote skarns.

The McQuesten River area is known to host gold as well as tin-tungsten potential. According to Emond and Lynch (1992), skarns in the McQuesten River area often show a strong positive correlation between gold and bismuth.

### **HISTORICAL TRENCHING AND SAMPLING**

In 1981 and 1982, mechanized trenching, mapping and sampling were completed by Cortin Joint Venture (Kennedy, 1981 and Rota, 1982). Trenching was hindered by frozen ground and sloughing trench walls; however, bedrock material was exposed and sampled in most trenches. Highlight results from this trenching included: 0.25% tin over 6 m (T81-23); 0.23% tin over 10 m (T81-23); 0.38% tin over 1.0 m and 0.76% tin over 1.0 m (T81-26); and, a grab sample that returned 11.6% tin (T81-29). In 2020, nine of the historical trenches were relocated.

In 2011, a total of 19 rock samples were taken by Goldstrike Resources from historical trenches and road cuts on the Oli property. Table II below lists highlight results for gold, copper, lead,

zinc, silver, cobalt, arsenic, bismuth and tungsten. Overlimit analyses were not completed for copper, silver, cobalt, arsenic, bismuth or tungsten. The 2011 work was not focussed on tin mineralization and therefore tin results were not reported. The best sample (1217925) was described as dark grey/black, fine-grained, possibly recrystallized, sedimentary rock with green patches that included a very fine-grained, grey metallic mineral present throughout, plus fine grained blebs of arsenopyrite and chalcopyrite ranging from 1-3 mm in size. The sample was collected from a [skarn] lens/horizon in outcrop above a trench shelf (Benz, 2012).

**Table II – Highlight Results from 2011 Re-Sampling of Historical Trenches**

Sample	Au (ppb)	Copper (ppm)	Lead (ppm)	Zinc (ppm)	Silver (ppm)	Cobalt (ppm)	Arsenic (ppm)	Bismuth (ppm)	Tungsten (ppm)
1204261	2697	3912.2	3040.9	2573	>100.0	>2000	>10000	>2000.0	28
1204262	9	34.7	16.9	518	5.5	41.6	381.9	29.5	<0.1
1204263	4	98.8	11.1	223	1.9	10.1	110.3	12	0.1
1204264	5	9468	2797.5	2115	>100.0	37.8	122.7	130	<0.1
1204265	<2	2086.2	363	598	15	10.9	1330	30.6	0.1
1204266	<2	1984.7	181.2	1073	4.6	20.1	23.5	2.8	0.3
1204267	<2	421.5	142.5	1036	3.1	14.3	297	5.9	0.2
1204268	250	>10000	1122.6	531	67.1	289.2	>10000	250.4	0.2
1204269	2	4415.7	366	925	84.3	27	204.3	56.5	0.2
1204270	0.8	320.5	385.1	470	2.1	1.1	256.3	2.2	<0.1
1217923	3	>10000	2643.1	2215	>100.0	31.3	94.2	105.4	<0.1
1217924	<2	863.9	149.7	738	6	6.8	48.6	22.8	0.1
1217925	4003	6559.7	1247.5	1744	>100	>2000	>10000	>2000	>100
1217926	6	3095.3	1008	375	55.1	15.6	113.7	61.4	<0.1
1217927	<2	3150.4	1350.9	2714	64.1	8.3	161.6	126.1	<0.1
1217928	<2	>10000	602.2	407	5.8	4.3	60	9.7	0.1
1217929	<2	3046.8	1006.5	902	80.6	5.4	194.2	88	<0.1
1217930	6	6310.8	4530.7	845	>100.0	379.7	2034.7	319.5	0.1
1217931	<2	1839.2	1619.7	433	14.5	30.9	17	18.1	<0.1

In 2019, a rock sample collected from a historical trench returned 2.22 g/t gold, 15.5% arsenic, 921 g/t silver, 0.30% copper, 0.51% cobalt, 9.05 ppm molybdenum, 0.20% lead, 145.5 ppm tin, 146 ppm tungsten and 0.23% zinc. The sample was a composite of rusty weathering and scorodite stained, banded, semi-massive, fine to coarse-grained arsenopyrite with rare clots of a dark, coarse-grained sulphide (cassiterite?), hosting several millimetre-scale rusty quartz veinlets. This sample verified the tenor of mineralization previously discovered on the property.

Three historical trenches lie east of Oliver Creek in the eastern part of the property. No record of results or style of mineralization has been reported for that area.

### **HISTORICAL DIAMOND DRILLING**

Diamond drilling programs were conducted on the Oli property in 1979 (322 m in four holes), 1980 (916 m in eight holes) and 1981 (1525 m in eight holes). Table III below lists the year,

orientation, hole length, core size and average core recovery for all of the drill holes. The locations of most of the historical holes have not been relocated so their plotted locations are only approximations. No casing was left in any of the drill holes and only one hole (DDH-1980-07) was cemented.

**Table III – Historical Diamond Drilling**

<b>Year – Hole</b>	<b>AZM (°)</b>	<b>DIP (°)</b>	<b>Length (m)</b>	<b>Core Size</b>	<b>Recovery</b>
1979 – 01	350	-44	90.90	AQ	58.8
1979 – 02	353	-47	50.31	AQ	74.0
1979 – 03	347	-45	92.05	AQ	82.0
1979 – 04	347	-46	88.97	AQ	89.0
1980 – 05	350	-45	128.0	NQ	98.8
1980 – 06	350	-45	130.5	NQ	98.2
1980 – 07	350	-45	81.25	NQ	95.4
1980 – 08	350	-60	139.0	NQ	95.8
1980 – 09	350	-45	72.50	NQ	87.7
1980 – 10	350	-70	151.5	NQ	97.1
1980 – 11	350	-45	114.90	NQ	92.5
1980 – 12	350	-45	99.10	NQ	88.8
1981 – 13	330	-45	246.3	HQ-NQ	99.0
1981 – 14	330	-45	215.2	HQ-NQ	99.0
1981 – 15	330	-45	159.7	HQ-NQ	92.0
1981 – 16	330	-45	148.7	HQ	94.0
1981 – 17	330	-55	182.1	HQ-NQ	91.0
1981 – 18	330	-45	98.1	NQ	96.0
1981 – 19	330	-45	197.5	HQ-NQ	96.0
1981 – 20	330	-65	277.7	HQ-NQ	99.0

Diamond drill core is stored at the historical camp location, which is road accessible and lies between the current Oli property and the McQuesten River. In 2020, four diamond drill holes were relocated. Highlight results from the respective drill programs are provided in Table IV below.

**Table IV – Historical Diamond Drilling Significant Results**

<b>Year – Hole</b>	<b>From (m)</b>	<b>To (m)</b>	<b>Length (m)</b>	<b>Tin (%)</b>	<b>Silver (g/t)</b>
1979 – 01	33.32	39.34	6.02	1.03	14.98
including	34.98	36.64	1.66	1.94	15.09
1979 – 02	6.32	7.01	0.69	0.249	7.71
and	9.93	20.32	10.39	0.31	22.25
including	17.95	20.32	2.37	1.06	57.32
1979 – 03	12.80	12.90	0.10	1.74	8.70
and	67.18	73.55	6.37	0.04	44.64

1980 – xx*	-	-	3.7	0.9	12.00
1980 – xx*	-	-	1.0	2.5	2.00
1981 – 13	60.90	61.06	0.16	0.39	3.60
1981 – 13	125.60	128.5	2.9	0.57	11.28
1981 – 13	157.70	158.50	0.80	15.0	4.00
1981 – 14	28.23	30.27	2.04	0.52	2.60
1981 – 14	70.08	76.63	3.57	0.56	5.89
1981 – 15	77.18	78.30	1.12	0.99	6.50
1981 – 16	112.13	113.83	1.70	0.91	3.98
1981 – 17	78.6	81.65	3.05	1.06	10.00
including	81.00	81.35	0.35	7.41	12.00
1981 – 19	159.60	160.50	0.90	0.39	6.10

\* The drill logs are not available for 1980 holes and the reported assays are from summaries in a later assessment report, which did not specify drill hole numbers for reported assays.

### **SOIL GEOCHEMISTRY**

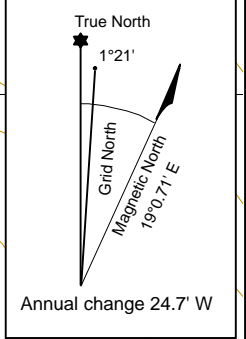
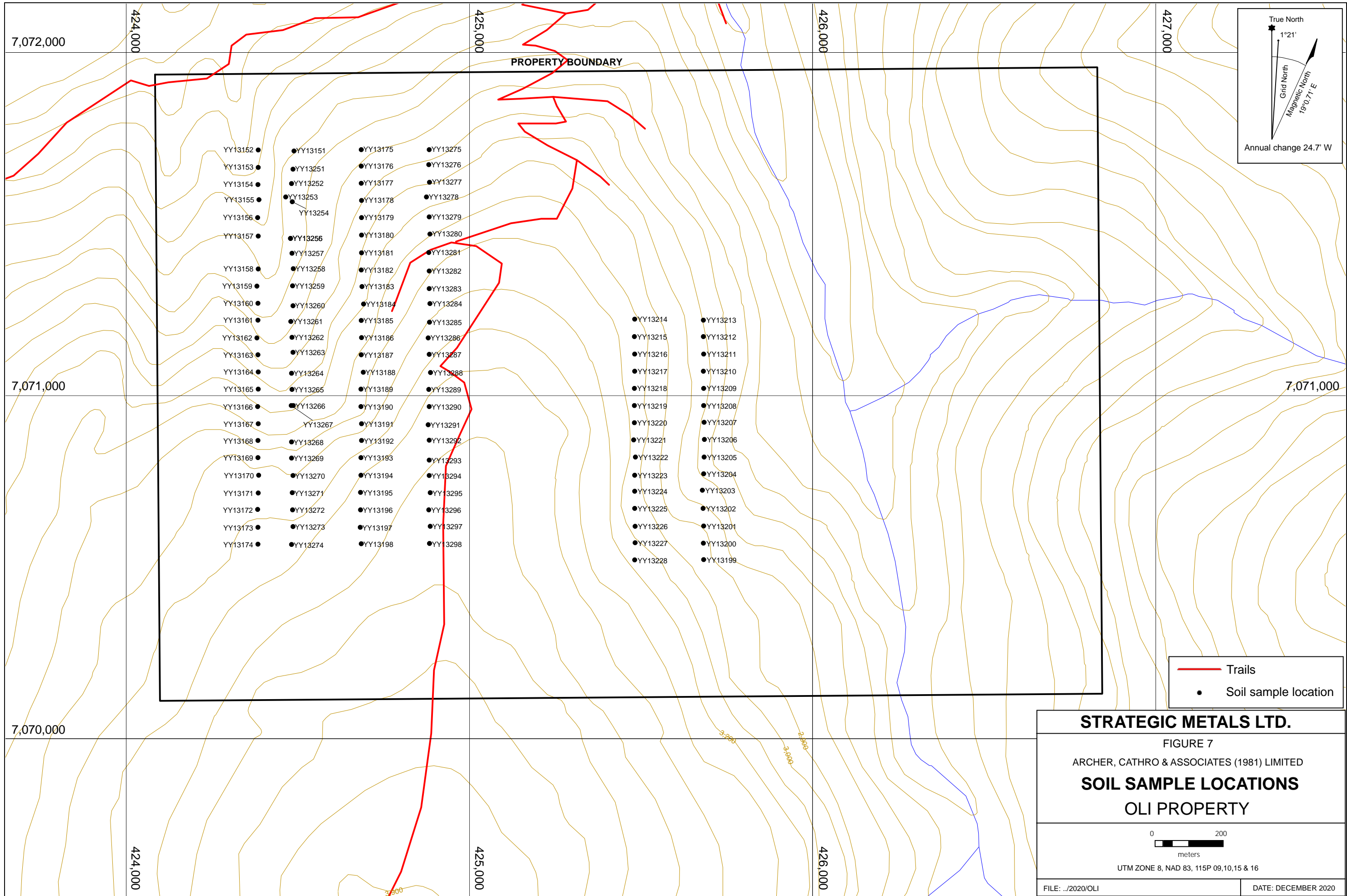
To date, approximately 35% of the Oli property has been covered by relatively widely-spaced soil samples. Soil sampling programs were conducted in 1979, 1980, 1981, 2011 and 2019. Unfortunately, base maps from 1979, 1980 and 1981 do not have enough reference points to accurately digitize the entire historical data set.

Sampling done in 2019 generally agreed with earlier results and is described in Morton, 2019.

In 2020, Strategic Metals collected 126 grid soil samples from the property. Sample locations were recorded using hand-held GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath driven into the ground. Soil samples were collected from 15 to 55 cm deep holes dug by hand-held auger and placed into individually pre-numbered Kraft paper bags. The soil samples were sent to ALS Global Ltd. (ALS) in Whitehorse, Yukon where they were dried and screened to -180 microns. The fine fractions were then shipped to ALS in North Vancouver, British Columbia where they were analysed for 48 elements using a four-acid digestion, followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS61). An additional 30 g charge was further analysed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21). Certificates of Analysis are provided in Appendix III.

The 2020 samples locations are shown on Figure 7, while thematic soil results from all programs (where available) for tin, zinc, copper, arsenic, gold, lead, molybdenum, cobalt, silver and bismuth can be seen on Figures 8 to 17, respectively. Soil samples collected pre-2019 were not analyzed for gold. Anomalous thresholds and peak values for soil results are listed in Table V below.





- |           |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|
| ● YY13152 | ● YY13151 | ● YY13175 | ● YY13275 |           |           |
| ● YY13153 | ● YY13251 | ● YY13176 | ● YY13276 |           |           |
| ● YY13154 | ● YY13252 | ● YY13177 | ● YY13277 |           |           |
| ● YY13155 | ● YY13253 | ● YY13178 | ● YY13278 |           |           |
| ● YY13156 | ● YY13254 | ● YY13179 | ● YY13279 |           |           |
| ● YY13157 | ● YY13255 | ● YY13180 | ● YY13280 |           |           |
| ● YY13158 | ● YY13257 | ● YY13181 | ● YY13281 |           |           |
| ● YY13158 | ● YY13258 | ● YY13182 | ● YY13282 |           |           |
| ● YY13159 | ● YY13259 | ● YY13183 | ● YY13283 |           |           |
| ● YY13160 | ● YY13260 | ● YY13184 | ● YY13284 |           |           |
| ● YY13161 | ● YY13261 | ● YY13185 | ● YY13285 | ● YY13214 | ● YY13213 |
| ● YY13162 | ● YY13262 | ● YY13186 | ● YY13286 | ● YY13215 | ● YY13212 |
| ● YY13163 | ● YY13263 | ● YY13187 | ● YY13287 | ● YY13216 | ● YY13211 |
| ● YY13164 | ● YY13264 | ● YY13188 | ● YY13288 | ● YY13217 | ● YY13210 |
| ● YY13165 | ● YY13265 | ● YY13189 | ● YY13289 | ● YY13218 | ● YY13209 |
| ● YY13166 | ● YY13266 | ● YY13190 | ● YY13290 | ● YY13219 | ● YY13208 |
| ● YY13167 | ● YY13267 | ● YY13191 | ● YY13291 | ● YY13220 | ● YY13207 |
| ● YY13168 | ● YY13268 | ● YY13192 | ● YY13292 | ● YY13221 | ● YY13206 |
| ● YY13169 | ● YY13269 | ● YY13193 | ● YY13293 | ● YY13222 | ● YY13205 |
| ● YY13170 | ● YY13270 | ● YY13194 | ● YY13294 | ● YY13223 | ● YY13204 |
| ● YY13171 | ● YY13271 | ● YY13195 | ● YY13295 | ● YY13224 | ● YY13203 |
| ● YY13172 | ● YY13272 | ● YY13196 | ● YY13296 | ● YY13225 | ● YY13202 |
| ● YY13173 | ● YY13273 | ● YY13197 | ● YY13297 | ● YY13226 | ● YY13201 |
| ● YY13174 | ● YY13274 | ● YY13198 | ● YY13298 | ● YY13227 | ● YY13200 |
|           |           |           |           | ● YY13228 | ● YY13199 |

— Trails

● Soil sample location

**STRATEGIC METALS LTD.**

FIGURE 7

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

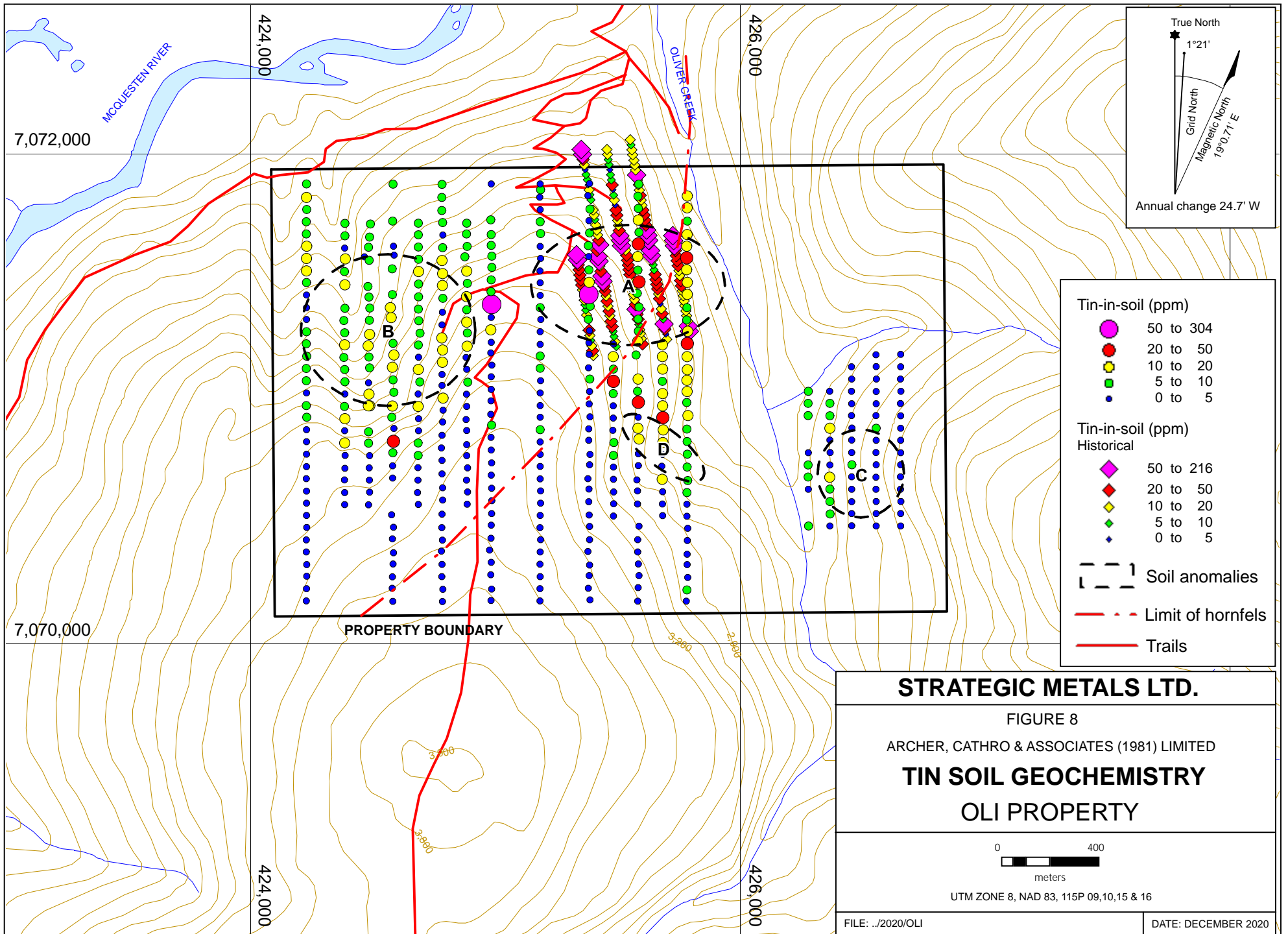
**SOIL SAMPLE LOCATIONS**

**OLI PROPERTY**

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meters

UTM ZONE 8, NAD 83, 115P 09,10,15 & 16

FILE: ../2020/OLI      DATE: DECEMBER 2020



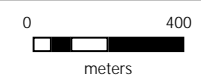
**STRATEGIC METALS LTD.**

FIGURE 8

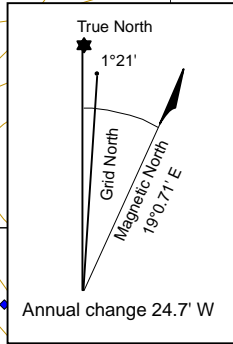
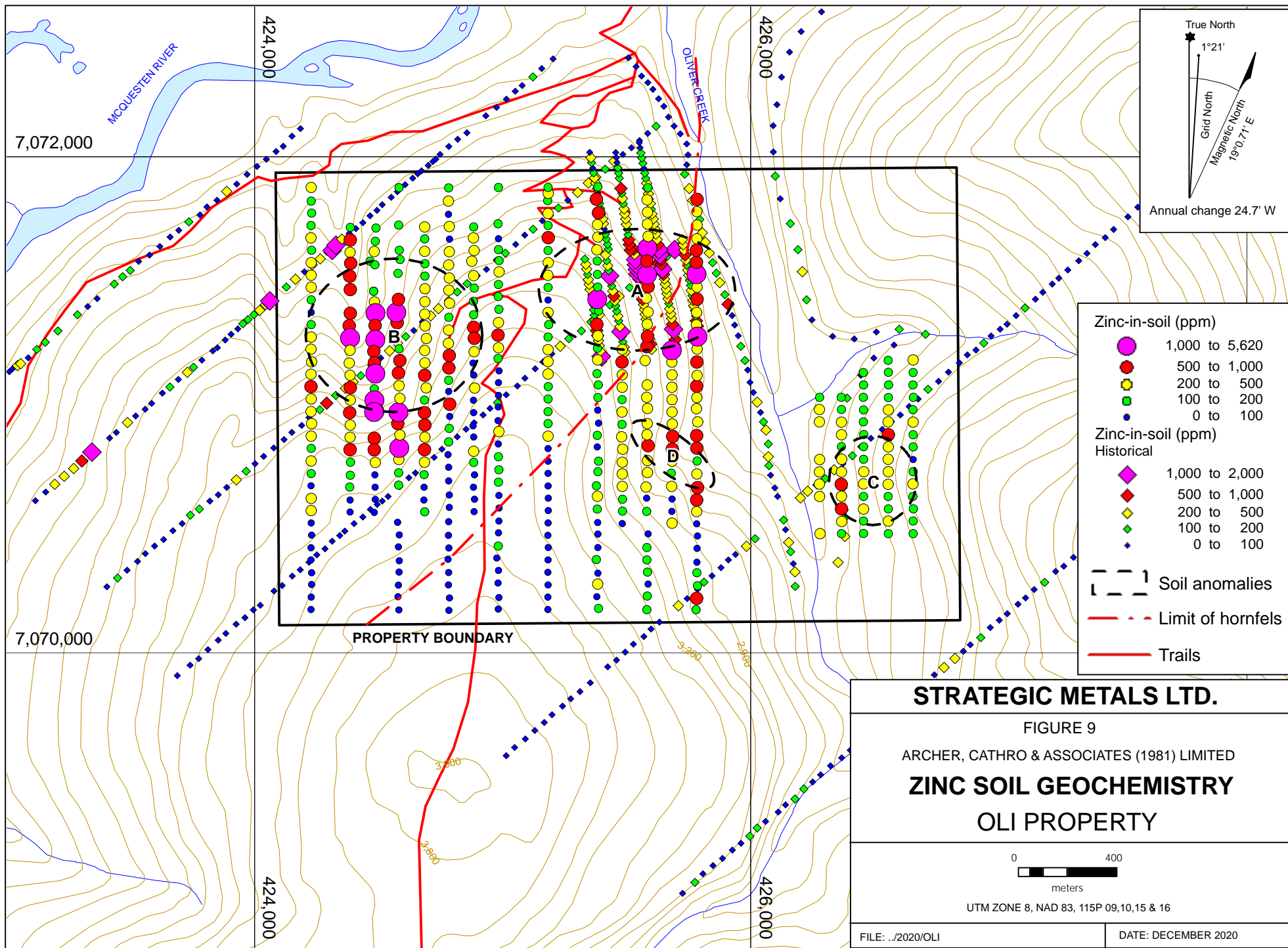
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**TIN SOIL GEOCHEMISTRY**

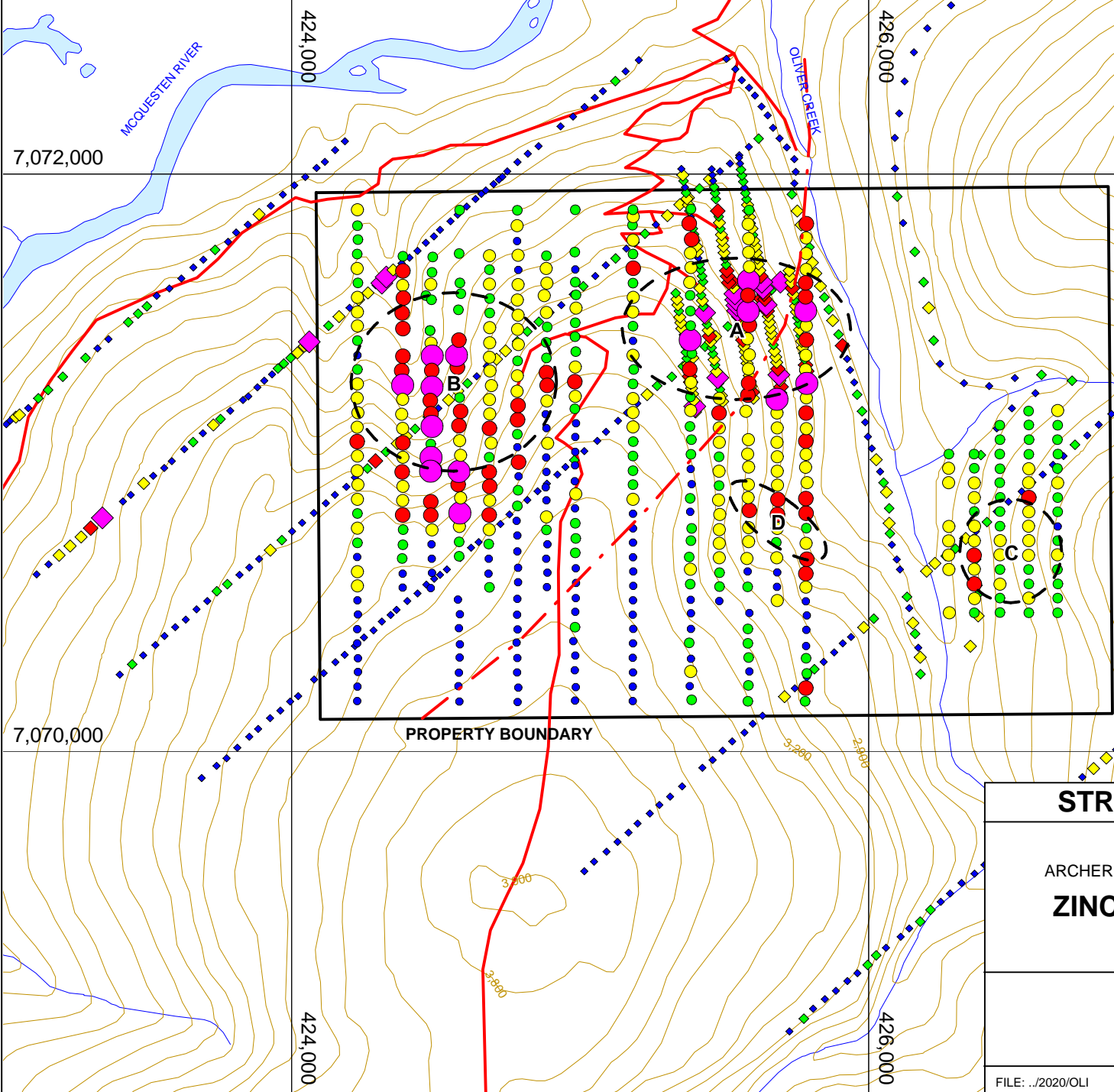
**OLI PROPERTY**



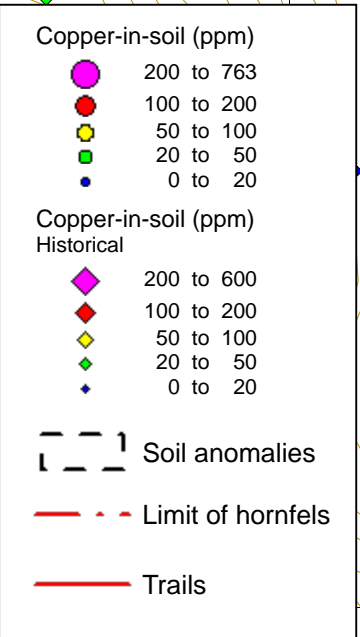
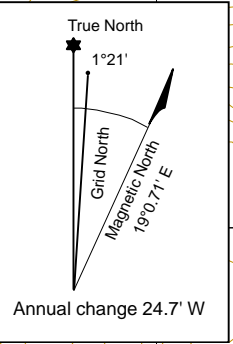
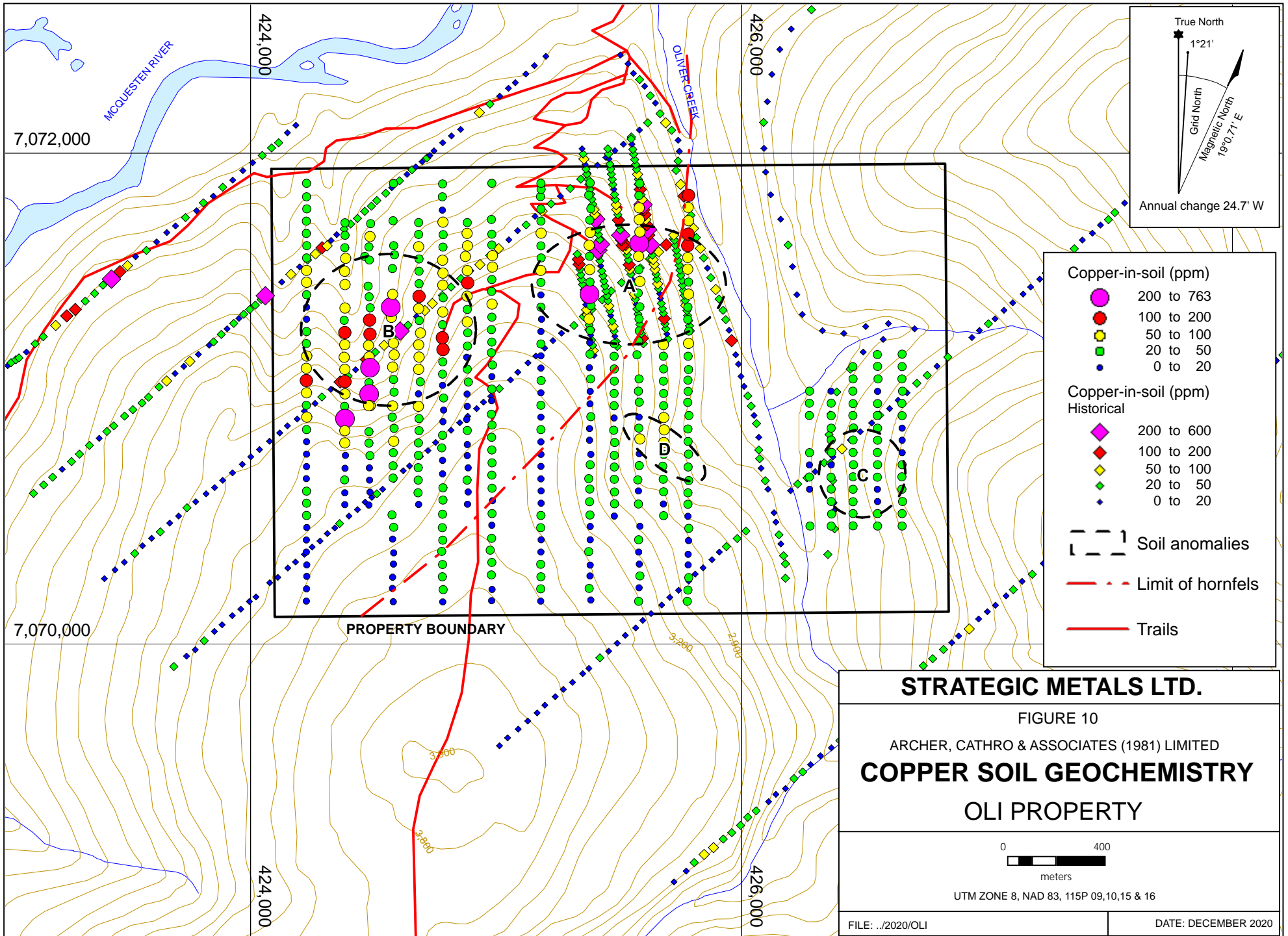
UTM ZONE 8, NAD 83, 115P 09,10,15 & 16

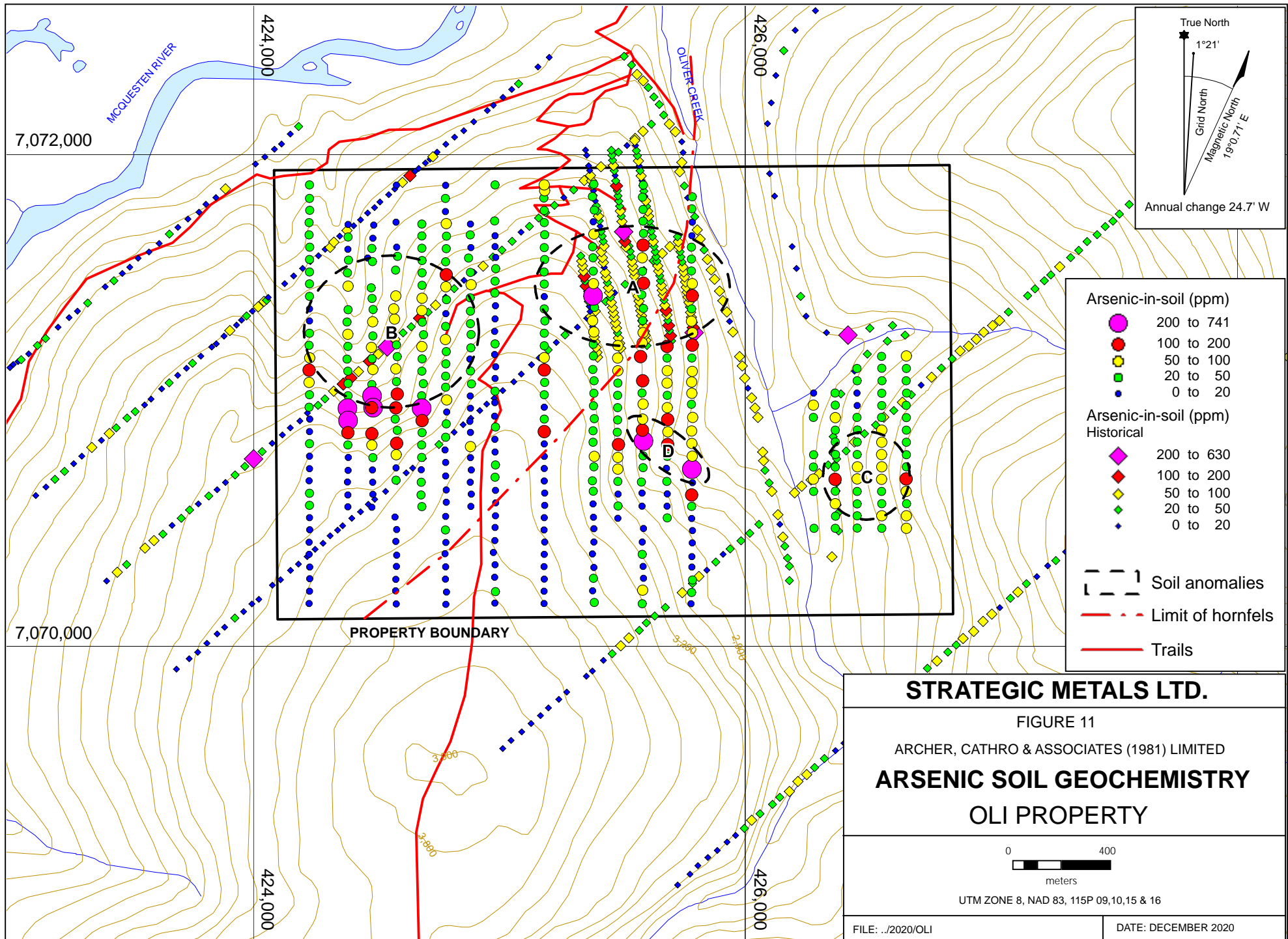


- Zinc-in-soil (ppm)**
- 1,000 to 5,620
  - 500 to 1,000
  - 200 to 500
  - 100 to 200
  - 0 to 100
- Zinc-in-soil (ppm) Historical**
- ◆ 1,000 to 2,000
  - ◆ 500 to 1,000
  - ◆ 200 to 500
  - ◆ 100 to 200
  - ◆ 0 to 100
- Soil anomalies
- - - Limit of hornfels
- Trails



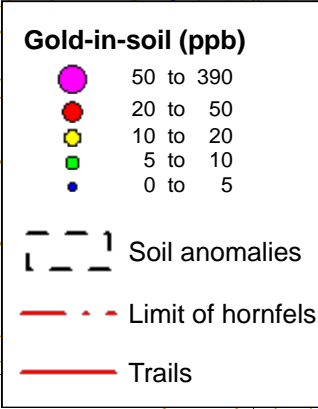
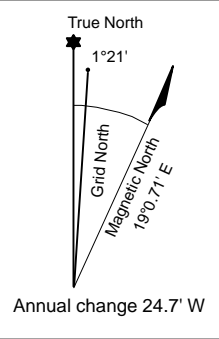
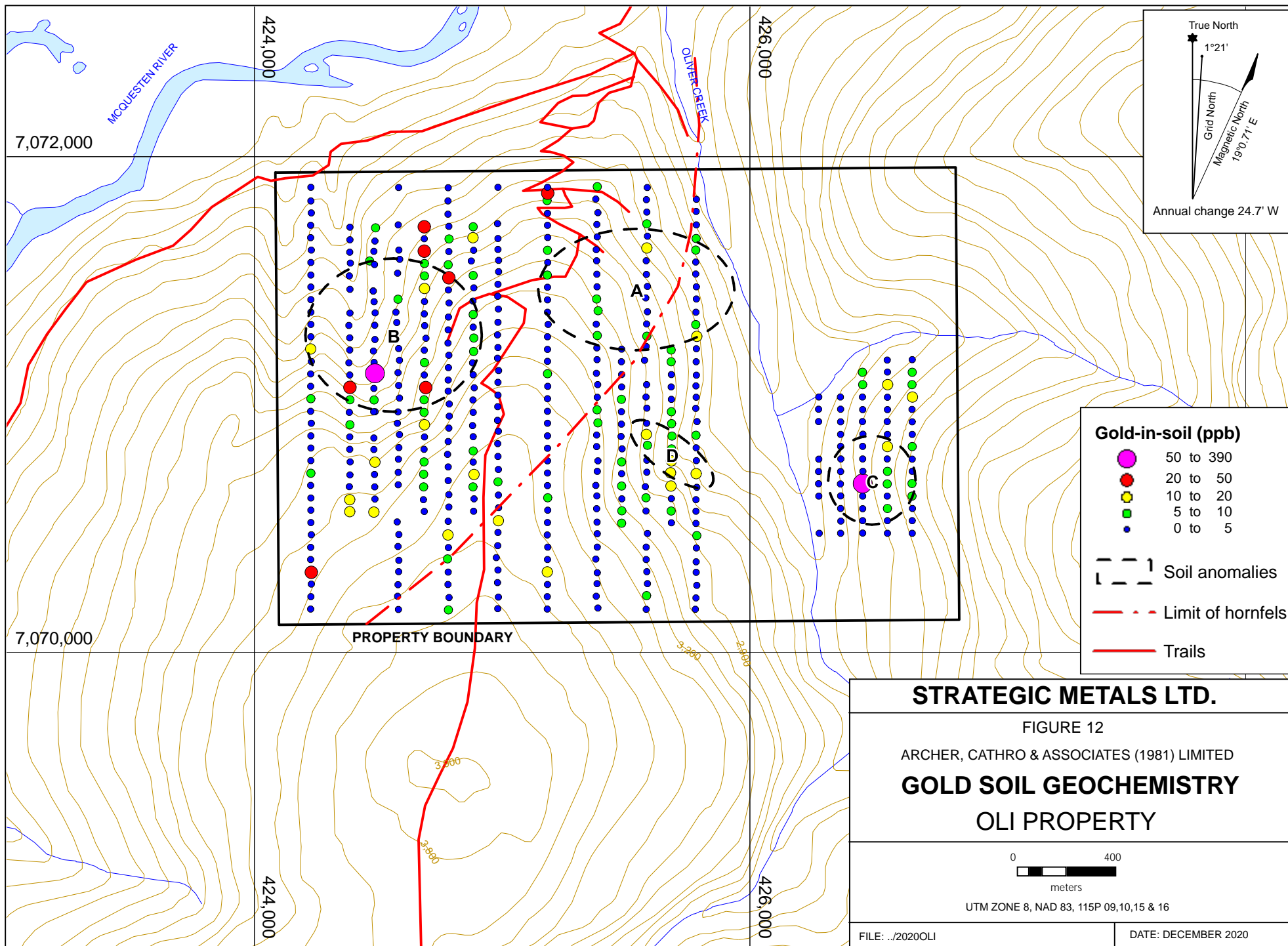






**STRATEGIC METALS LTD.**

FIGURE 11  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ARSENIC SOIL GEOCHEMISTRY**  
**OLI PROPERTY**



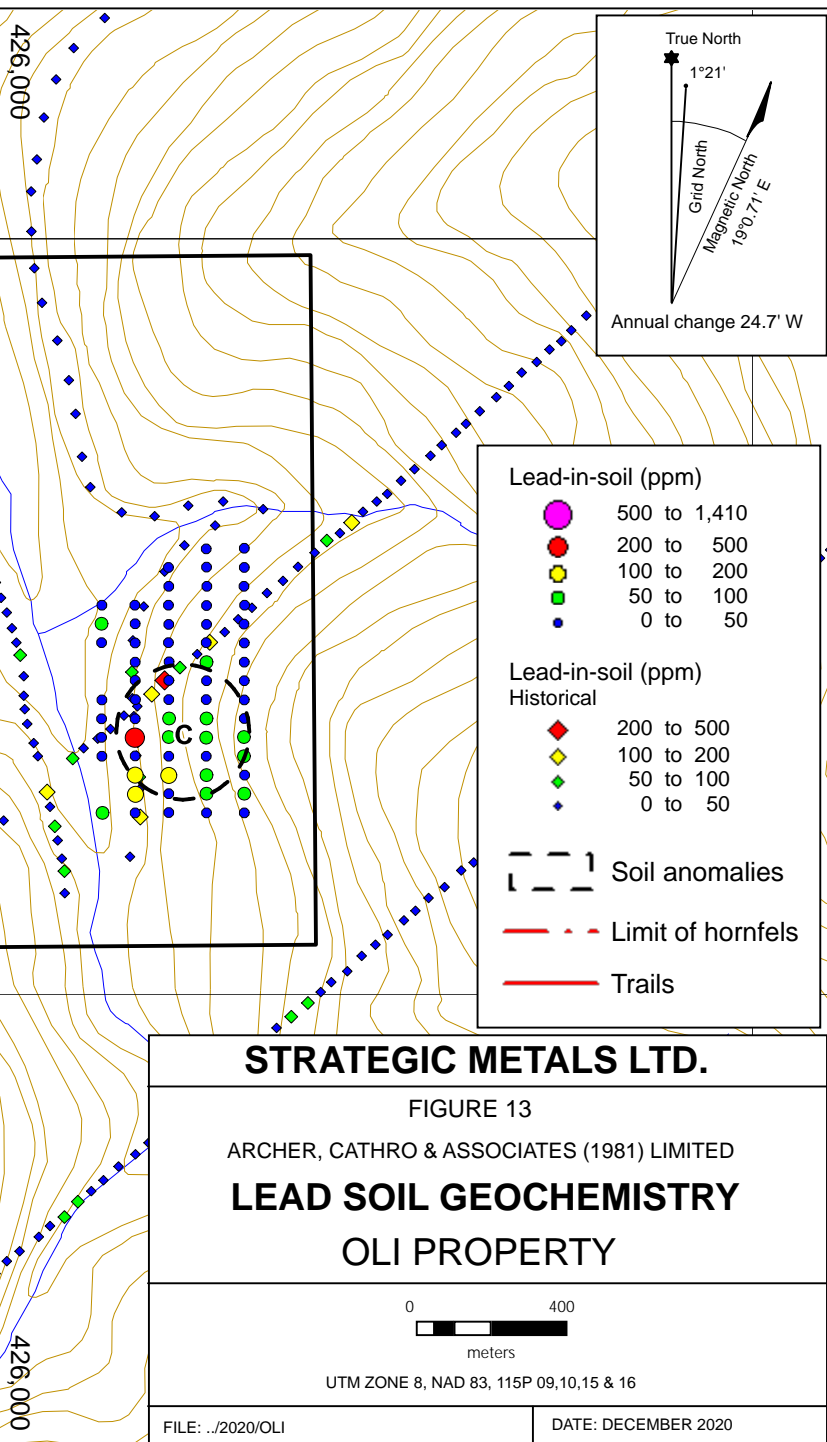
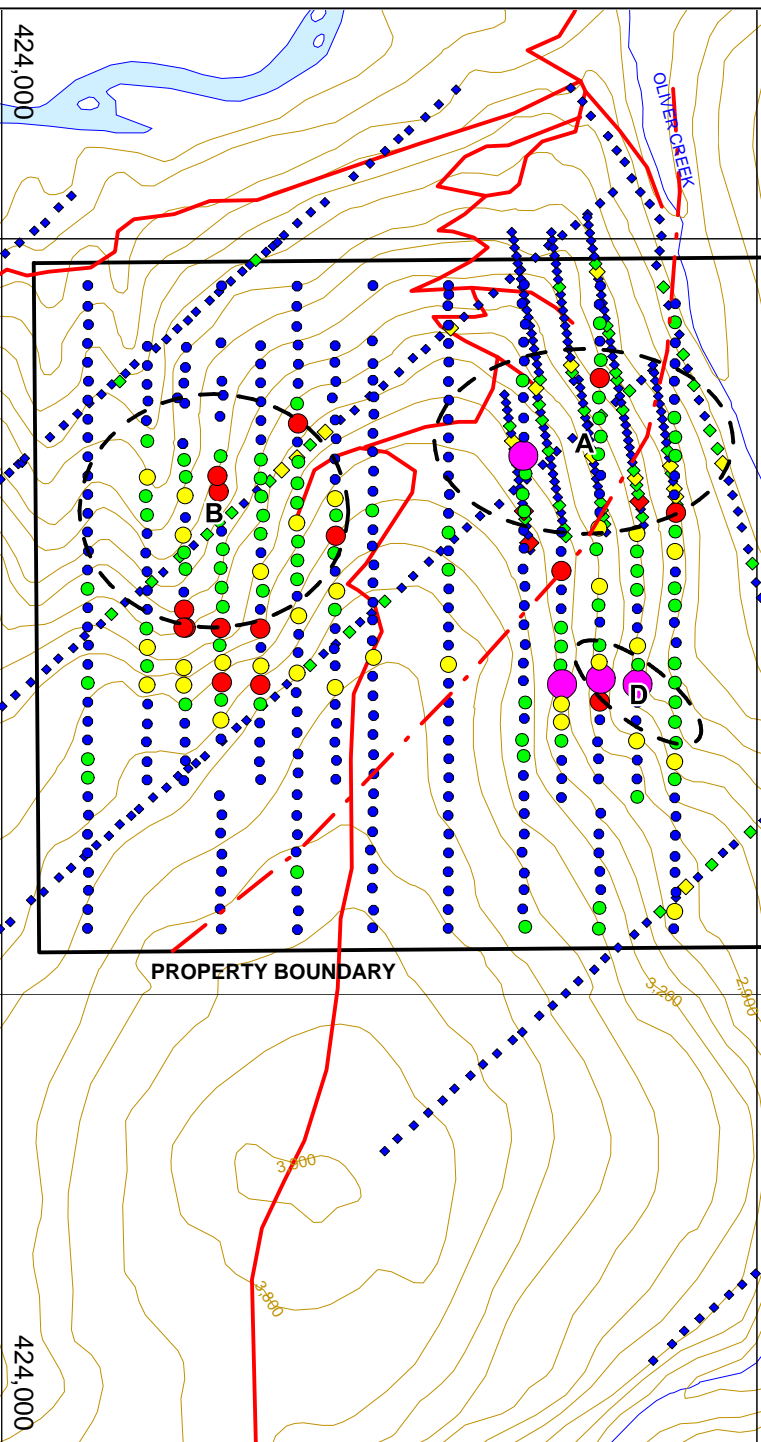
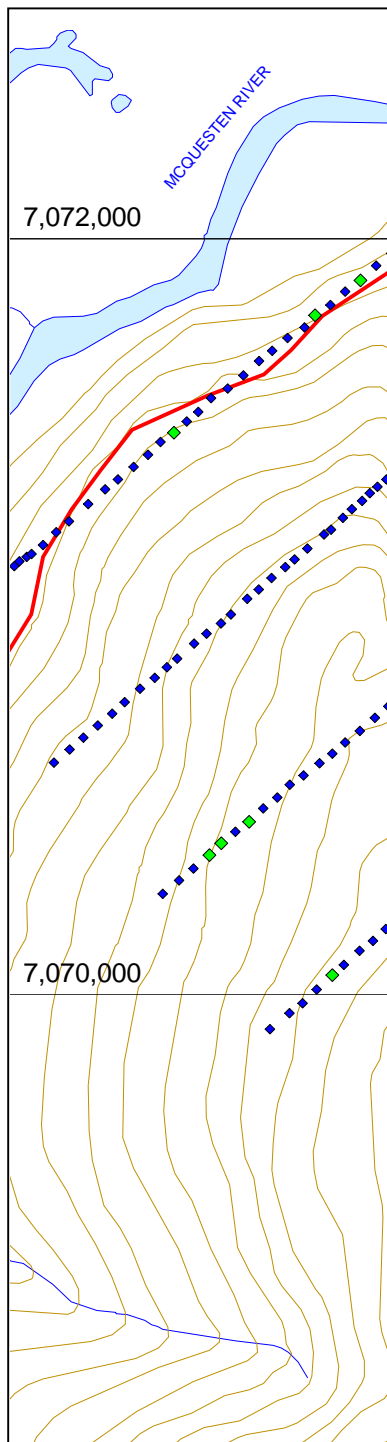
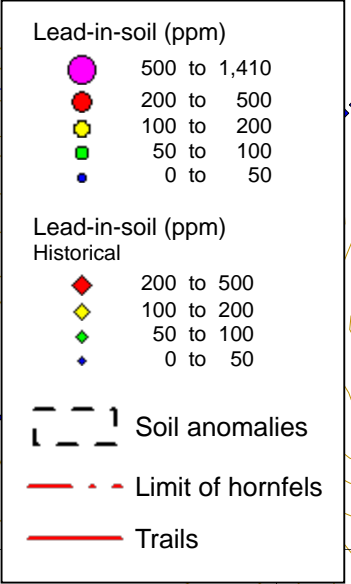
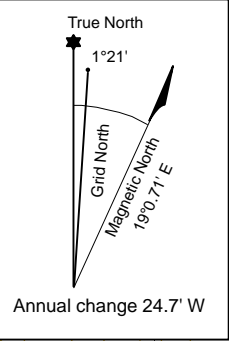
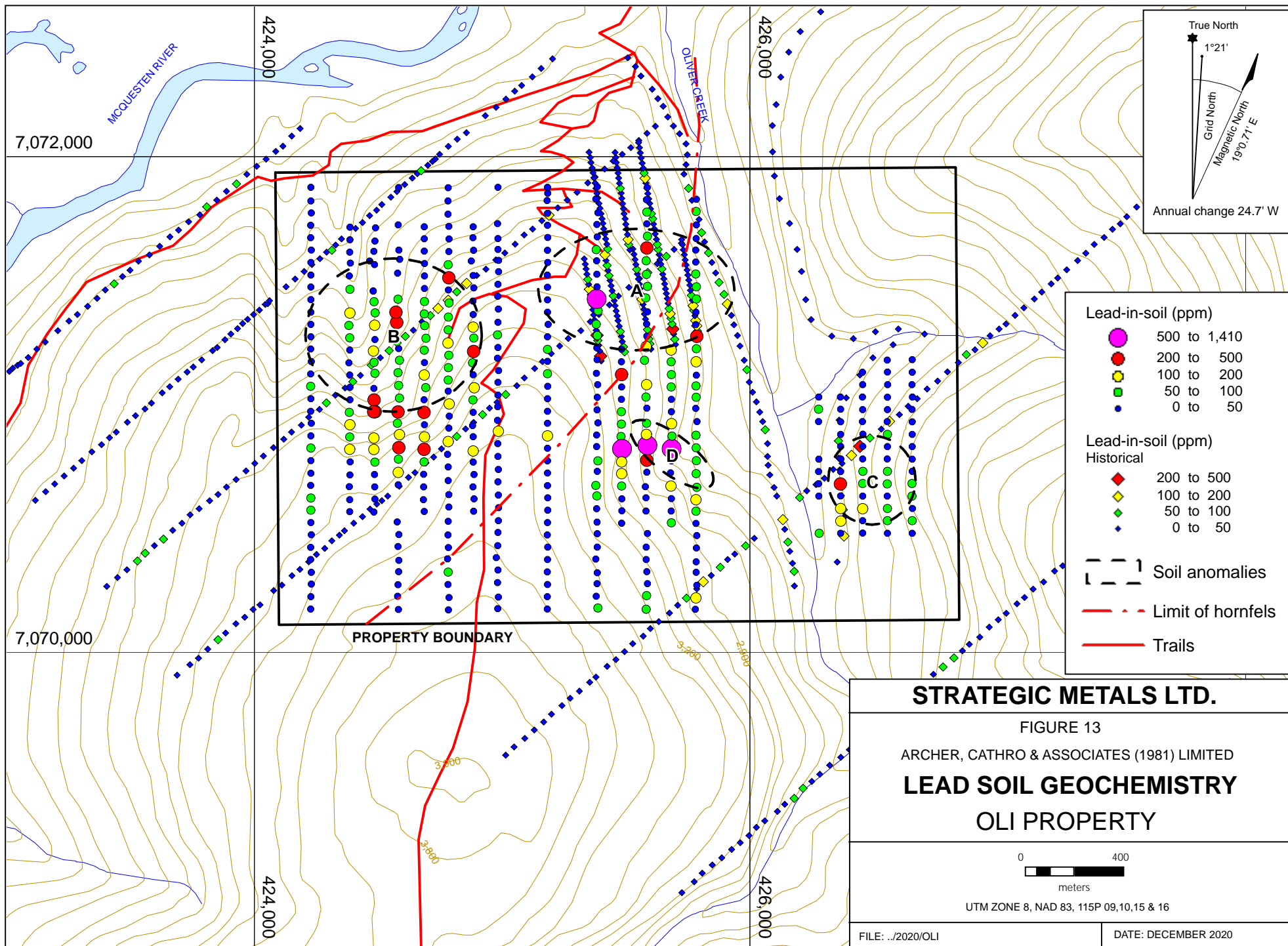
**STRATEGIC METALS LTD.**

FIGURE 12  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**GOLD SOIL GEOCHEMISTRY**  
 OLI PROPERTY

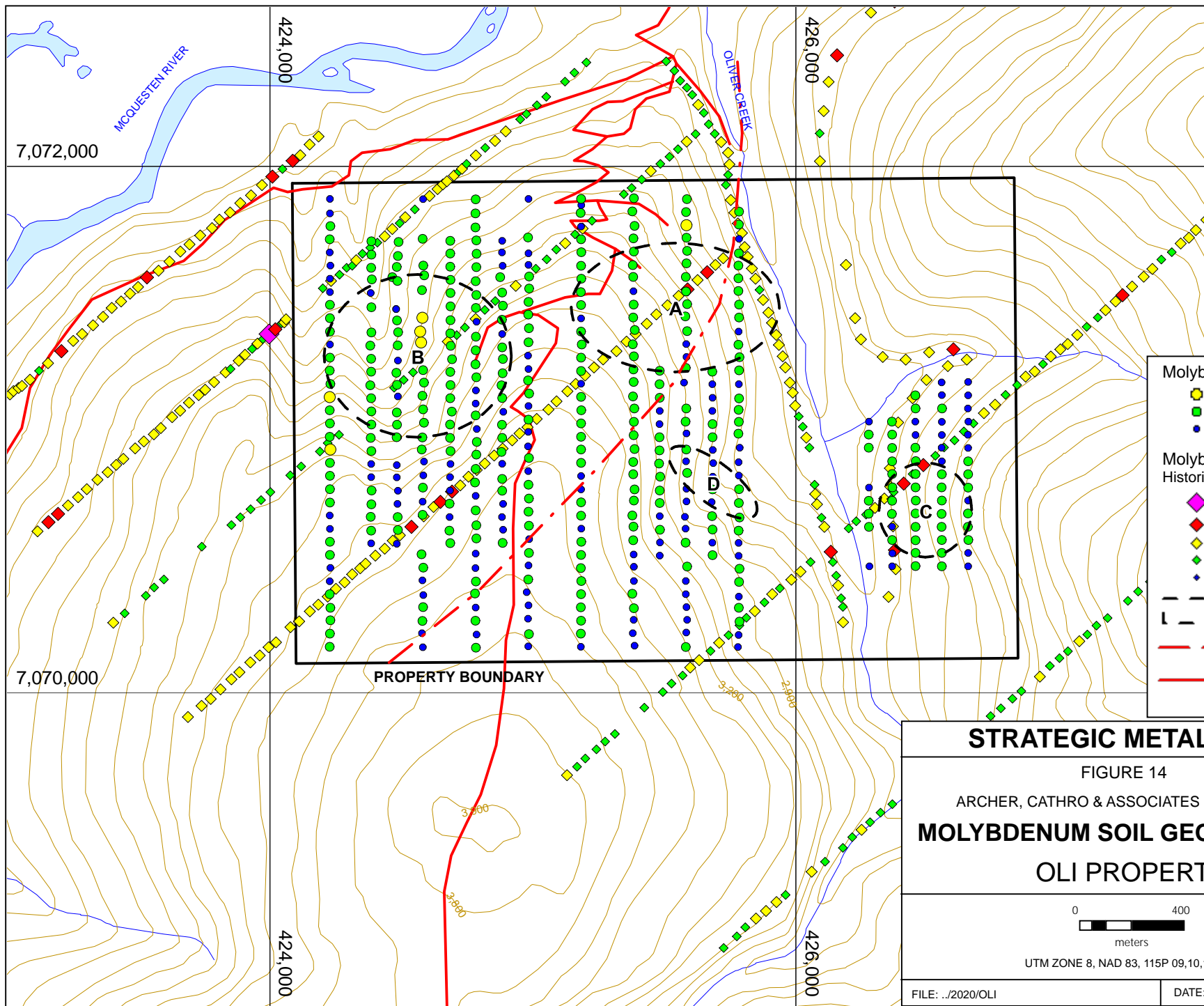
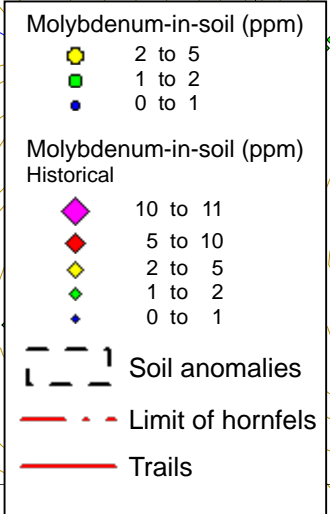
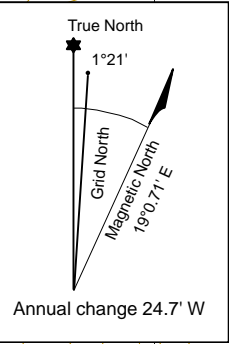
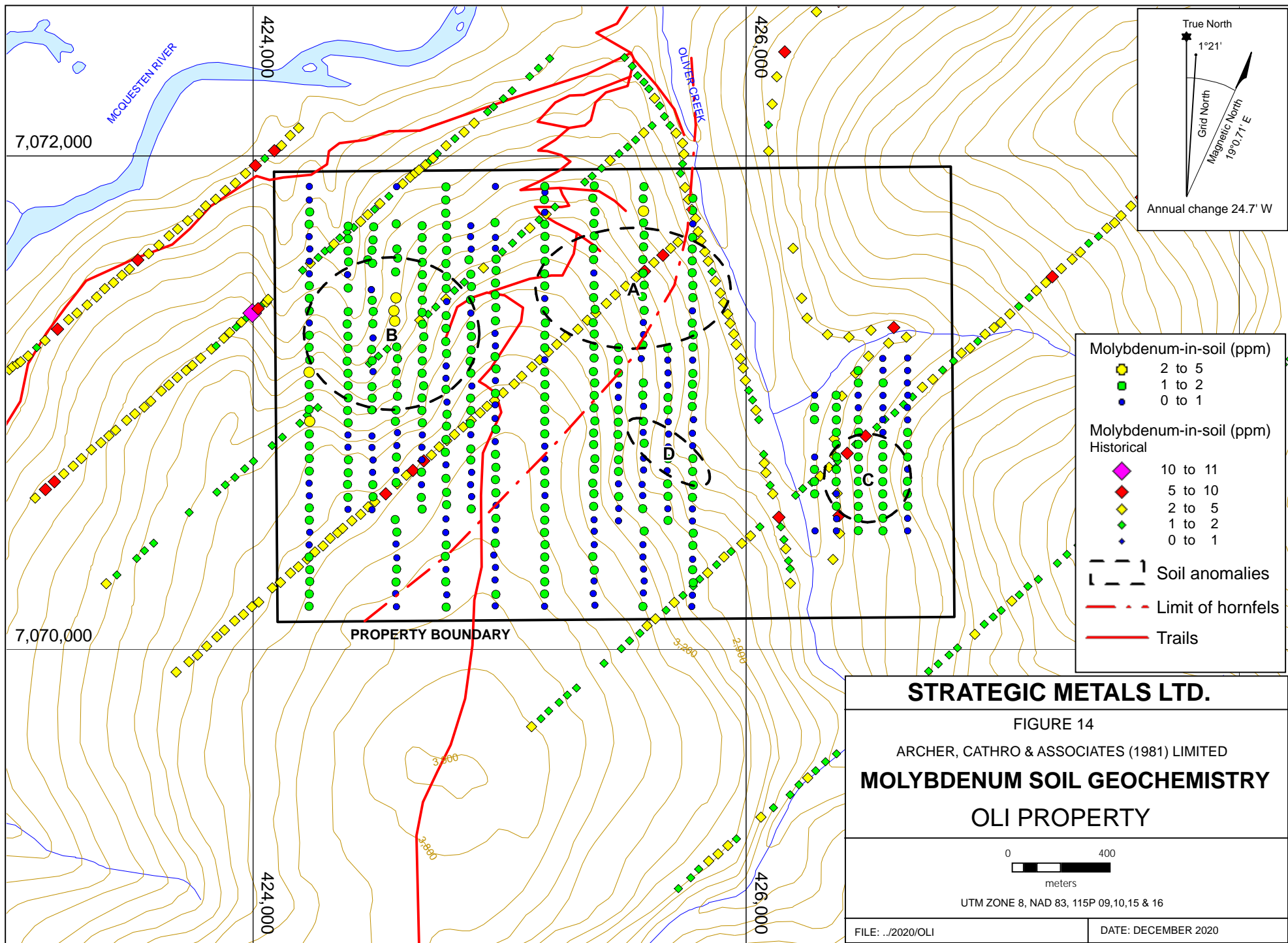
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UTM ZONE 8, NAD 83, 115P 09,10,15 & 16

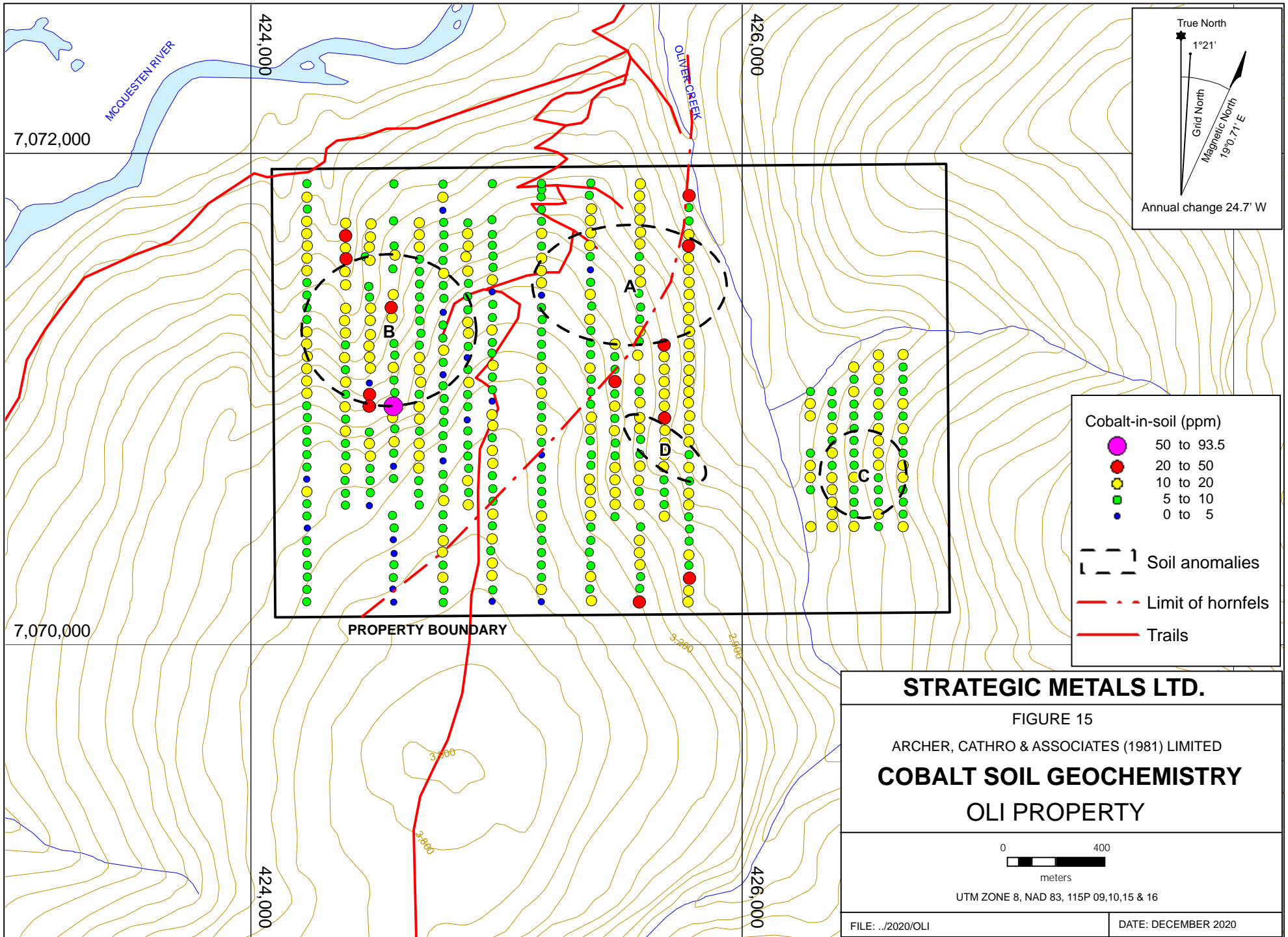
FILE: ../2020OLI DATE: DECEMBER 2020

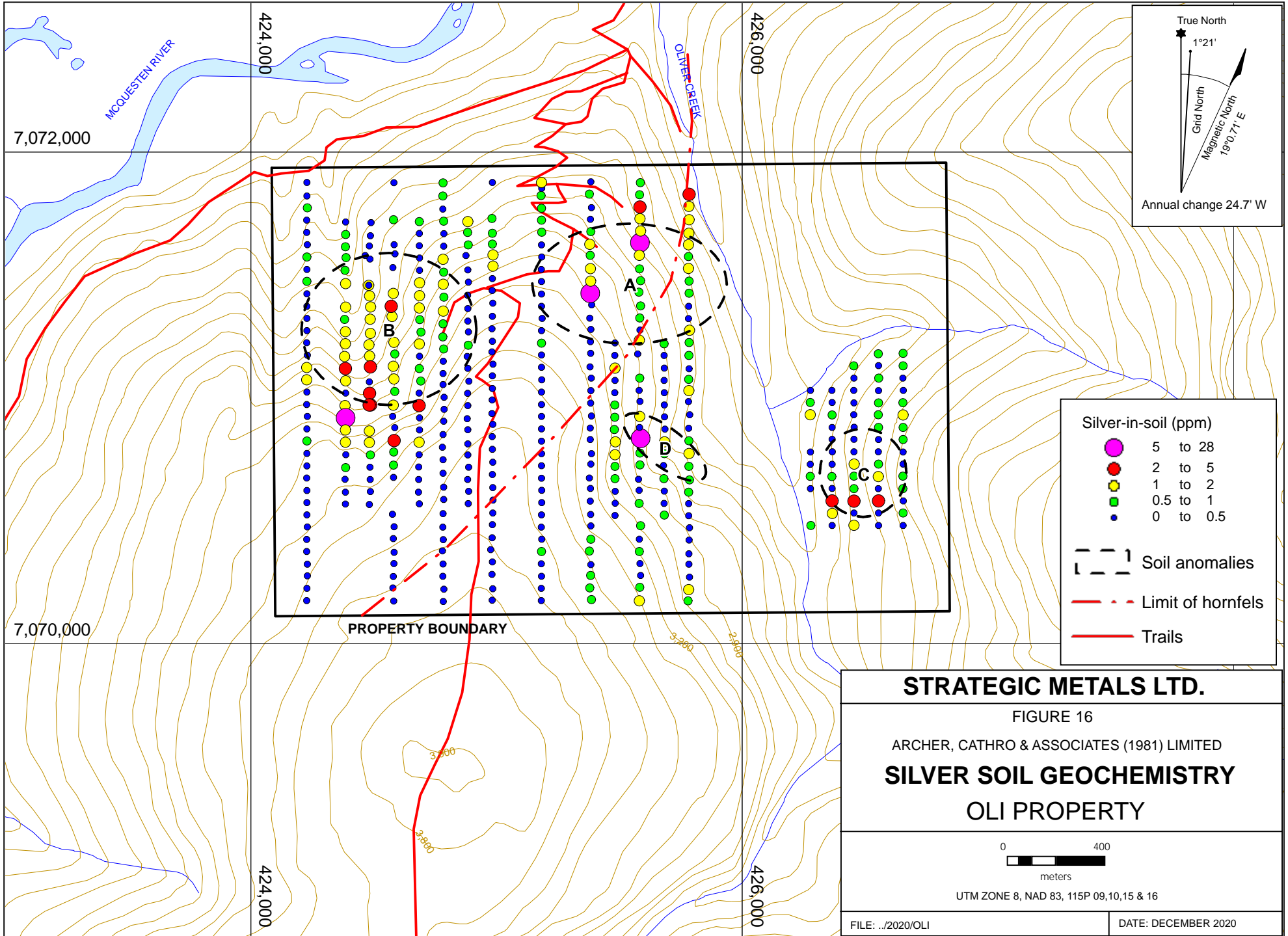


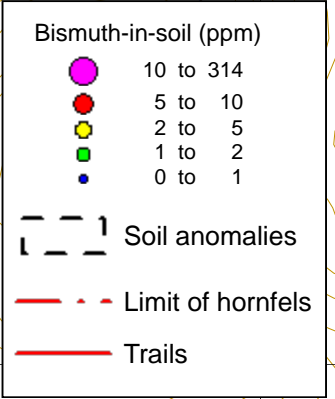
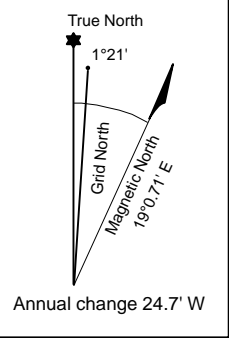
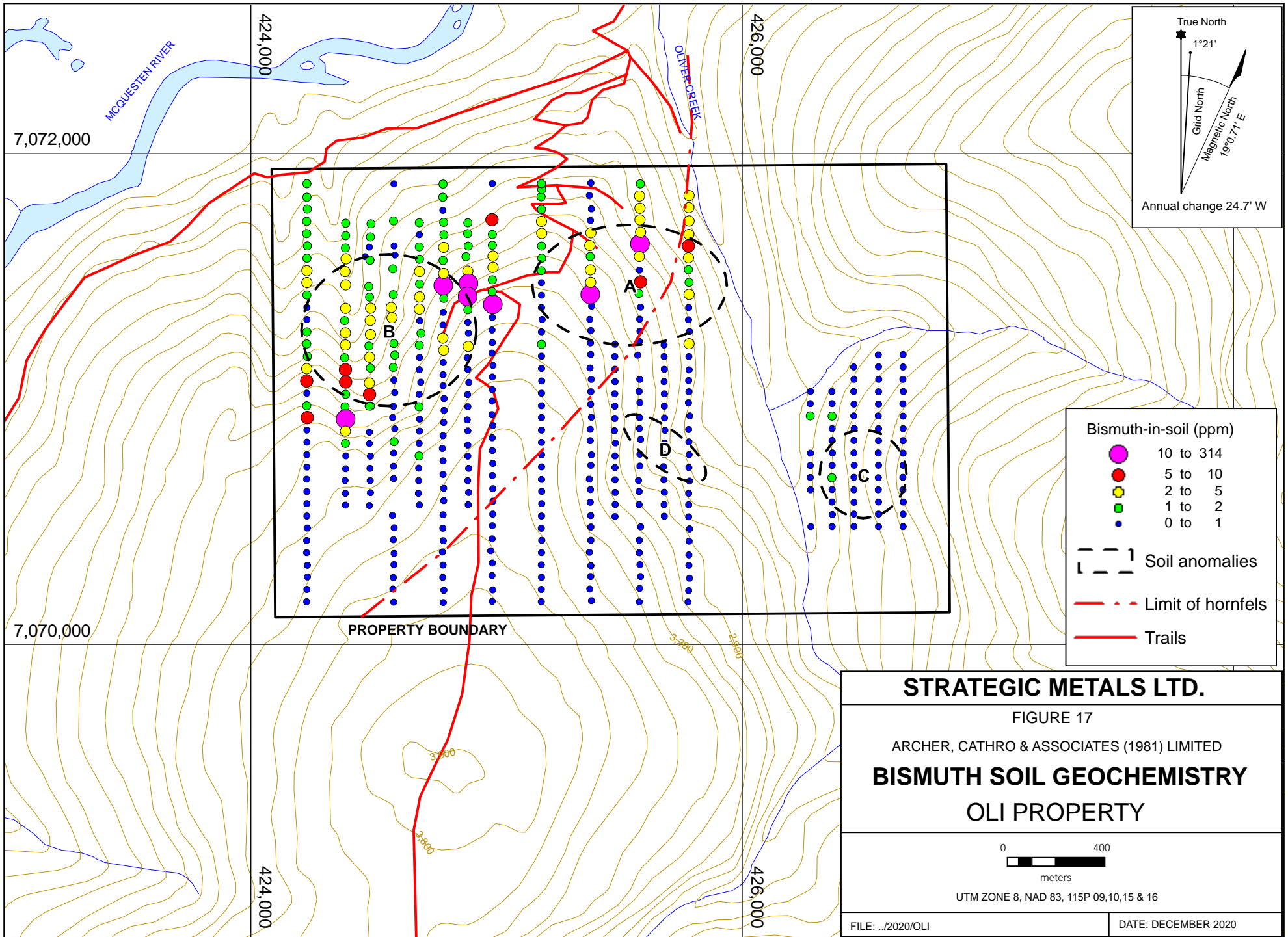












**STRATEGIC METALS LTD.**

FIGURE 17

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**BISMUTH SOIL GEOCHEMISTRY**

**OLI PROPERTY**

0 400  
meters

UTM ZONE 8, NAD 83, 115P 09,10,15 & 16

FILE: ../2020/OLI      DATE: DECEMBER 2020

**Table V – Anomalous Threshold Values for Soil Samples**

Element	Weak	Moderate	Strong	2019 Peak	2020 Peak	Historical Peak
Gold (ppb)	>10≤20	>20≤50	>50	97	390	N/A*
Silver (ppm)	>1≤2	>2≤5	>5	13.85	28	33
Bismuth (ppm)	>2≤5	>5≤10	>10	314	25.1	N/A*
Arsenic (ppm)	>50≤100	>100≤200	>200	741	714	630
Tin (ppm)	>10≤20	>20≤50	>50	304	27.5	216
Tungsten (ppm)	>2≤5	>5≤10	>10	22.5	9.4	32
Lead (ppm)	>100≤200	>200≤500	>500	1410	731	300
Zinc (ppm)	>200≤500	>500≤1000	>1000	4940	5910	>2000
Antimony (ppm)	>1≤2	>2≤5	>5	4.87	3.26	N/A*
Copper (ppm)	>50≤100	>100≤200	>200	763	759	600
Molybdenum (ppm)	>2≤5	>5≤10	>10	2.39	1.98	11

\*N/A = element not analyzed in historical data

The anomalous soil geochemistry on the Oli property can be divided into four clusters – Anomalies A, B, C and D (Figure 8 to 17); however, as soil sample density on the property increases through in-fill sampling, anomalies A and B will likely merge. Table VI below outlines size and geochemical signature for each of the anomalous areas.

**Table VI – Soil Anomalies**

Anomaly	Size (m)	Strong	Moderate
A	400 x 250	Cu, Zn, W, Sn	As, Ag, Pb, Bi
B	650 x 350	Cu, Sn, As, Zn, Pb, Ag, Au	W, Cu, Bi
C	400 x 400	Ag, Pb, Zn, As	Sb, Au, W, Sn
D	250 x 100	Ag, Pb, Sb, Zn	As, Au, Zn, Cu, W, Sn

Anomaly A hosts the discovery showing and most of the historical trenches and diamond drill holes. This area was sampled in the late 1970s and analyzed for tin, copper, arsenic, zinc, and lead. Recent sampling in this area is widely spaced (50 by 200 m) and where the samples overlap there is excellent correlation between anomalous historical and recent values.

Anomaly B is a large, multi-element anomaly in the western part of the property. It hosts very strong values for tin, gold, arsenic, zinc, copper, lead and silver, with moderate to strong tungsten and bismuth. A 390 ppb gold-in-soil value lies within Anomaly B in an area with two moderately anomalous (36 and 20 ppb) gold-in-soil values.

Anomaly C lies in the eastern part of the property in an area with three historical trenches. It is defined by moderate to strong zinc-, lead- and arsenic-in-soil values with weak to moderate cobalt. One sample within Anomaly C returned 97 ppb gold-in-soil.

Anomaly D lies 500 m south of Anomaly A and exhibits a multi-element soil geochemical signature, which is analogous to a distal vein signature.

Copper-in-soil values are the strongest within Anomalies A and B, which may be related to zonation from the Boulder Creek stock. Both Anomalies A and B lie within the mapped area of hornfels proximal to the Boulder Creek stock. The limit of hornfels coincides with the boundary for elevated soil geochemistry in the northwestern half of the property with anomalous values lying north of the limit of hornfels.

In general, gold values are sporadically distributed across the property.

The 2019 and 2020 soil samples were processed using a four acid digestion, which is considered a near-complete digestion, prior to being analyzed for 48 elements. Table VII below lists the correlation coefficients for the elements of interest. There is strong correlation between bismuth-tin (0.81), arsenic-tin (0.72), tungsten-tin (0.83) and zinc-tin (0.71), which represents a classic trace element signature associated with tin-tungsten skarn occurrences.

There is moderate correlation (0.5 to 0.69) between silver±arsenic±bismuth±lead±tin±tungsten ±zinc, which may be related to the silver and tin breccia or skarn mineralization. Cobalt and tungsten show a moderate correlation, while cobalt and arsenic exhibit a nearly moderate (0.47) correlation. There is poor correlation between gold and all other elements.

**Table VII – Soil Sample Correlation Coefficients**

	Au	Ag	As	Bi	Co	Mo	Pb	Sn	W	Zn
Au	1									
Ag	0.063723	1								
As	0.236748	0.591285	1							
Bi	0.037166	0.597995	0.503905	1						
Co	0.156474	0.352631	0.471218	0.326837	1					
Mo	-0.00983	0.166196	0.153197	0.28101	0.070959	1				
Pb	0.127561	0.590572	0.687363	0.33451	0.353268	0.113008	1			
Sn	0.07519	0.644729	<b>0.71651</b>	<b>0.814762</b>	0.468675	0.146172	0.571748	1		
W	0.152091	0.554726	0.639779	0.673756	0.500253	0.176786	0.477151	<b>0.82538</b>	1	
Zn	0.094531	0.577539	0.666686	0.629717	0.495558	0.231547	0.650177	<b>0.714487</b>	0.608594	1

Moderately to strongly anomalous gold-in-soil values are sporadically distributed on the property. The two highest values (390 ppb and 97 ppb) lie within Anomalies B and C, respectively; however, they have poor correlation with other elements. The 390 ppb gold-in-soil in Anomaly B has moderate support from two samples nearby (36 and 20 ppb), while the 97 ppb gold-in-soil occurs in an area with background gold values.

Bismuth, tungsten, tin and zinc correlate well and are weakly anomalous throughout the property. A 1700 m string of semi-continuous, moderately to strongly anomalous bismuth-in-soil values lies within and between Anomalies A and B. These samples are contained entirely

within the mapped limit of the hornfels zone, and bismuth values drop off dramatically outside of this zone.

### **ROCK GEOCHEMISTRY**

In 2020, a total of 31 rock samples were collected for analysis. These samples were taken from the central, northern and western part of the property. The 2020 rock sample locations are shown on Figure 18, and where available, results from all programs for tin, gold, silver, lead, zinc, cobalt, tungsten, copper, bismuth and antimony are illustrated thematically on Figures 19 to 28, respectively. Rock Sample Descriptions are provided in Appendix IV, and Certificates of Analysis are provided in Appendix III.

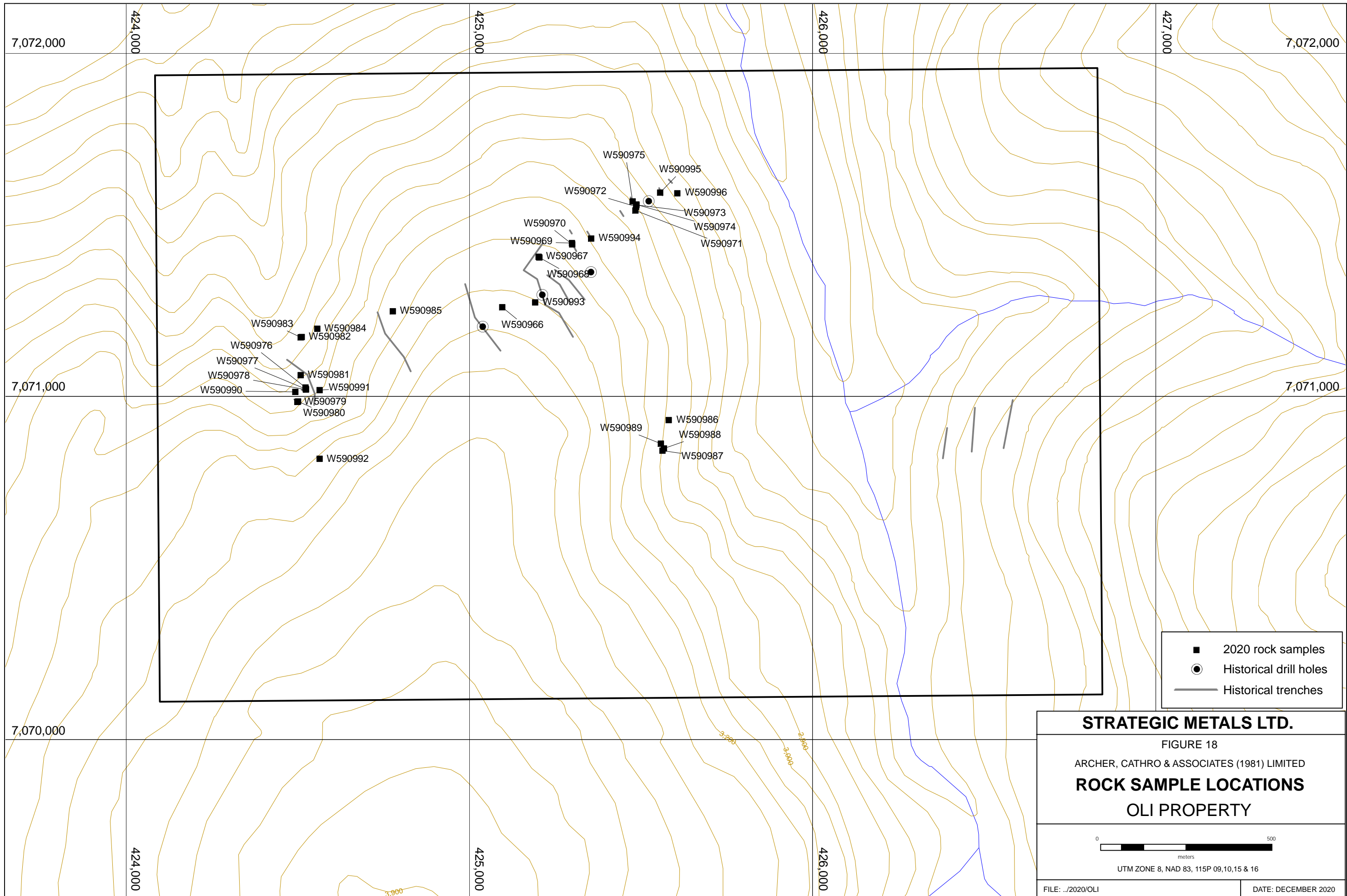
The 2020 rock sample sites on the property were marked with orange flagging tape labelled with the sample number. The location of each sample was determined using a handheld GPS unit. Rock sample preparation and multi-element analyses were carried out at ALS in Whitehorse, YT and North Vancouver, BC, respectively. Each sample was dried, fine crushed to better than 70% passing 2 mm and then a 250 g split was pulverized to better than 85% passing 75 microns. The fine fraction was analyzed for 48 elements using a four acid digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS61). An additional 30 g charge was further analysed for gold by fire assay and inductively coupled plasma-mass spectroscopy finish (Au-ICP21). Samples with overlimit values were further analyzed by four-acid digestion for copper using Cu-OG62.

Table VIII below lists correlation coefficients for rock samples collected in 2019 and 2020. There are strong positive correlations ( $>0.70$ ) between silver-bismuth, silver-molybdenum and silver-lead and moderate positive correlations ( $>0.5 < 0.69$ ) between: gold-arsenic and gold-bismuth; silver-arsenic, silver-tin, silver-tungsten and silver-zinc; arsenic-tin; bismuth-molybdenum and bismuth-tungsten; molybdenum-lead, molybdenum-tin, molybdenum-zinc; lead-zinc; and tin-zinc.

**Table VIII – Rock Sample Correlation Coefficients**

	Au	Ag	As	Bi	Co	Mo	Pb	Sn	W	Zn
Au	1									
Ag	0.389087	1								
As	0.695346	0.571694	1							
Bi	0.5859	0.781694	0.444684	1						
Co	0.221442	0.44289	0.248695	0.376469	1					
Mo	0.301805	<b>0.763961</b>	0.481781	0.504083	0.324655	1				
Pb	0.196635	<b>0.764541</b>	0.476022	0.370149	0.33328	0.690636	1			
Sn	0.393455	0.520524	0.539249	0.43531	0.341774	0.500212	0.38168	1		
W	0.332521	0.505625	0.283485	0.500282	0.401585	0.344935	0.356093	0.46847	1	
Zn	0.29065	0.631288	0.425216	0.379332	0.47	0.507865	0.60979	0.53529	0.463297	1






- 2020 rock samples
- Historical drill holes
- Historical trenches

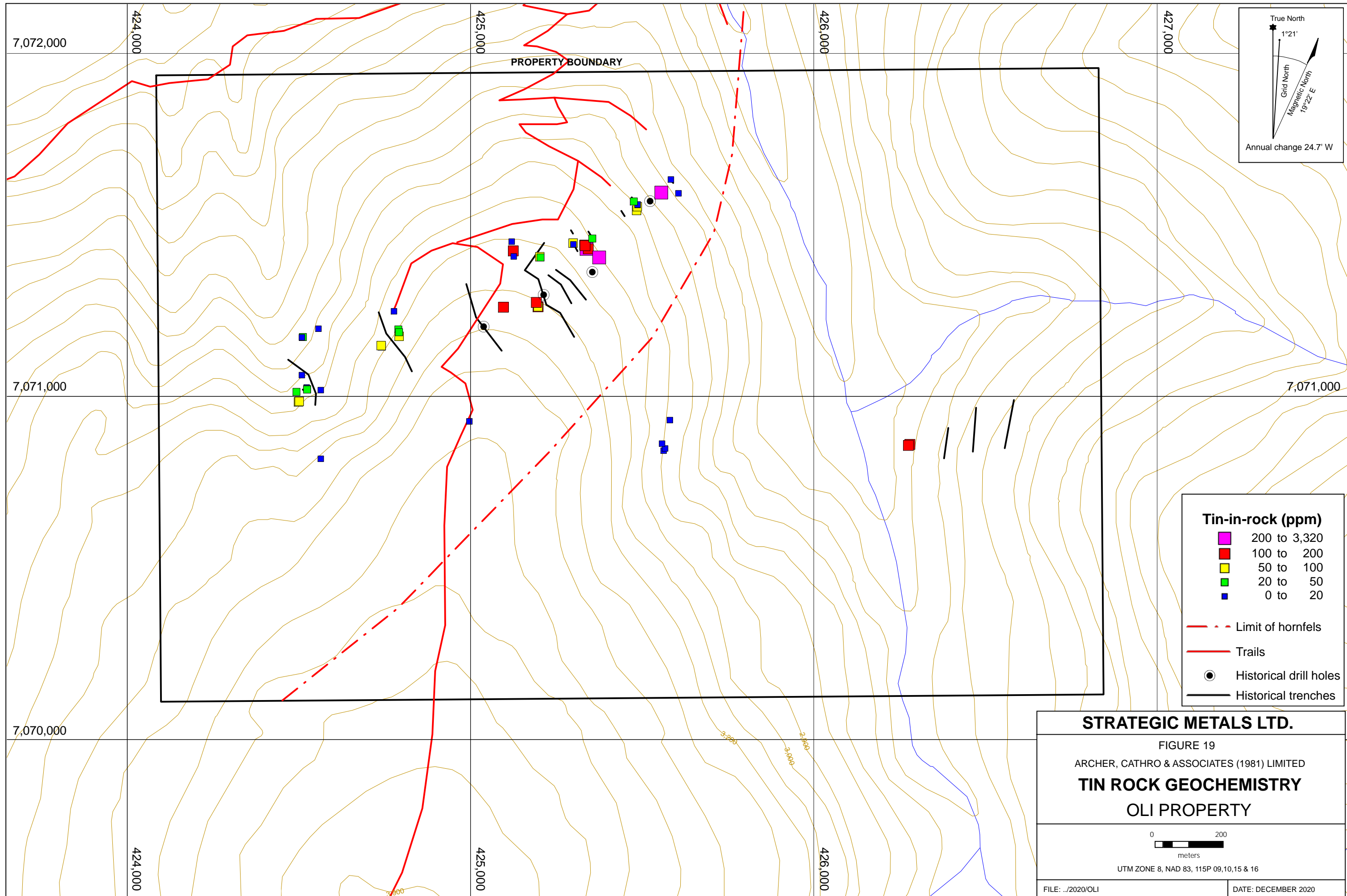
**STRATEGIC METALS LTD.**

FIGURE 18  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ROCK SAMPLE LOCATIONS**  
 OLI PROPERTY

0  500  
 meters

UTM ZONE 8, NAD 83, 115P 09,10,15 & 16

FILE: ../2020/OLI DATE: DECEMBER 2020



**Tin-in-rock (ppm)**

- 200 to 3,320
- 100 to 200
- 50 to 100
- 20 to 50
- 0 to 20

- - - Limit of hornfels
- Trails
- Historical drill holes
- Historical trenches

**STRATEGIC METALS LTD.**

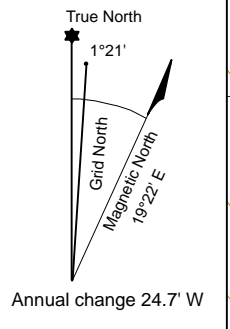
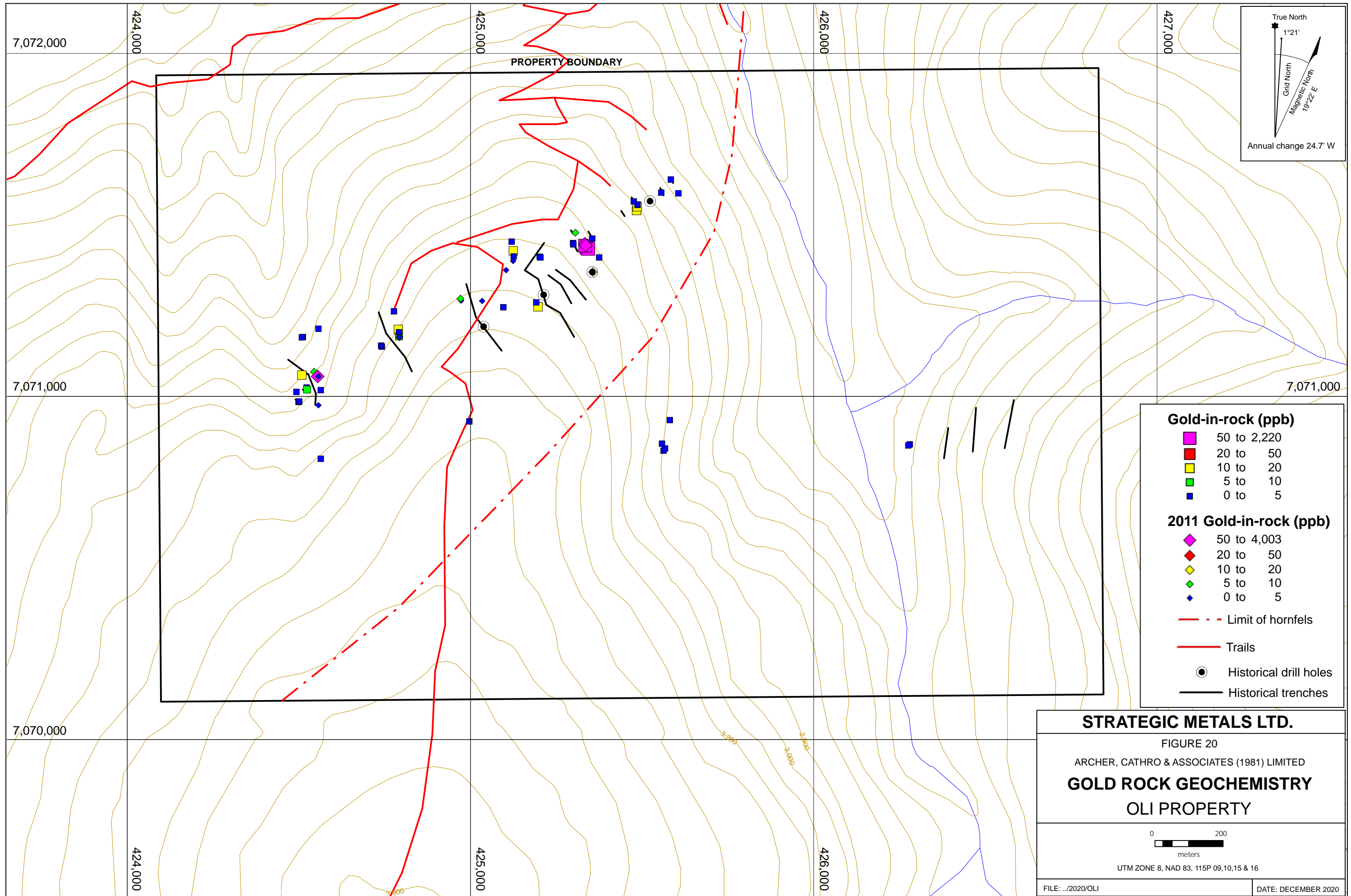
FIGURE 19  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**TIN ROCK GEOCHEMISTRY**  
 OLI PROPERTY

0      200  
 ──────────  
 meters

UTM ZONE 8, NAD 83, 115P 09,10,15 & 16

FILE: ../2020/OLI      DATE: DECEMBER 2020





**Gold-in-rock (ppb)**

- 50 to 2,220
- 20 to 50
- 10 to 20
- 5 to 10
- 0 to 5

**2011 Gold-in-rock (ppb)**

- ◆ 50 to 4,003
- ◆ 20 to 50
- ◆ 10 to 20
- ◆ 5 to 10
- ◆ 0 to 5

- - - Limit of hornfels
- Trails
- Historical drill holes
- Historical trenches

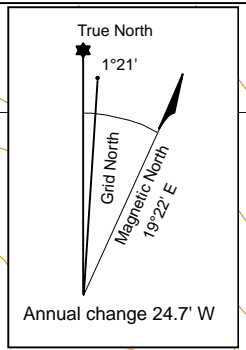
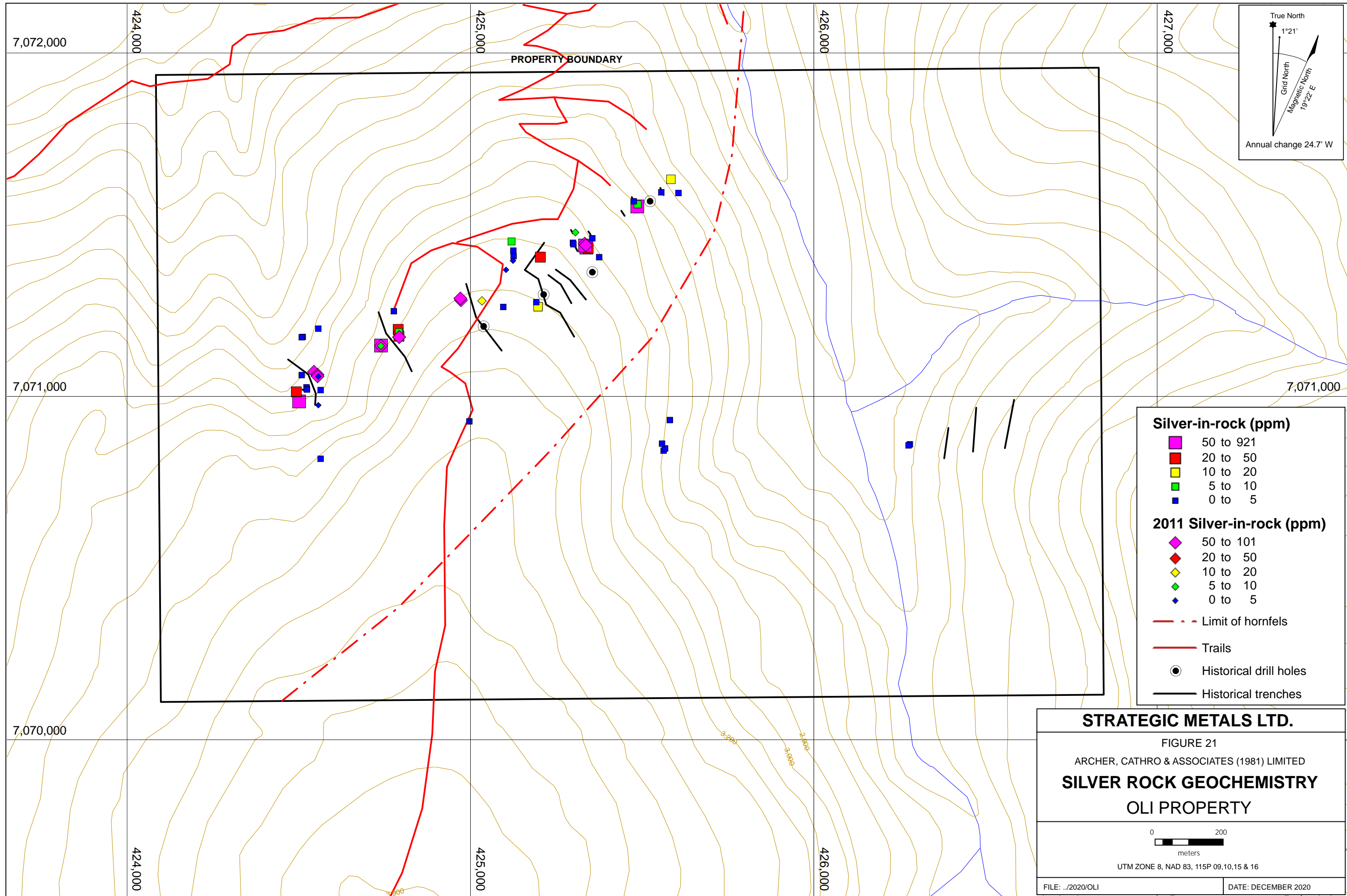
**STRATEGIC METALS LTD.**

FIGURE 20  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**GOLD ROCK GEOCHEMISTRY**  
OLI PROPERTY

0 200  
meters

UTM ZONE 8, NAD 83, 115P 09,10,15 & 16

FILE: ../2020/OLI      DATE: DECEMBER 2020



**Silver-in-rock (ppm)**

- 50 to 921
- 20 to 50
- 10 to 20
- 5 to 10
- 0 to 5

**2011 Silver-in-rock (ppm)**

- ◆ 50 to 101
- ◆ 20 to 50
- ◆ 10 to 20
- ◆ 5 to 10
- ◆ 0 to 5

- - - Limit of hornfels
- Trails
- Historical drill holes
- Historical trenches

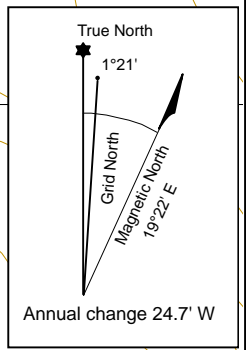
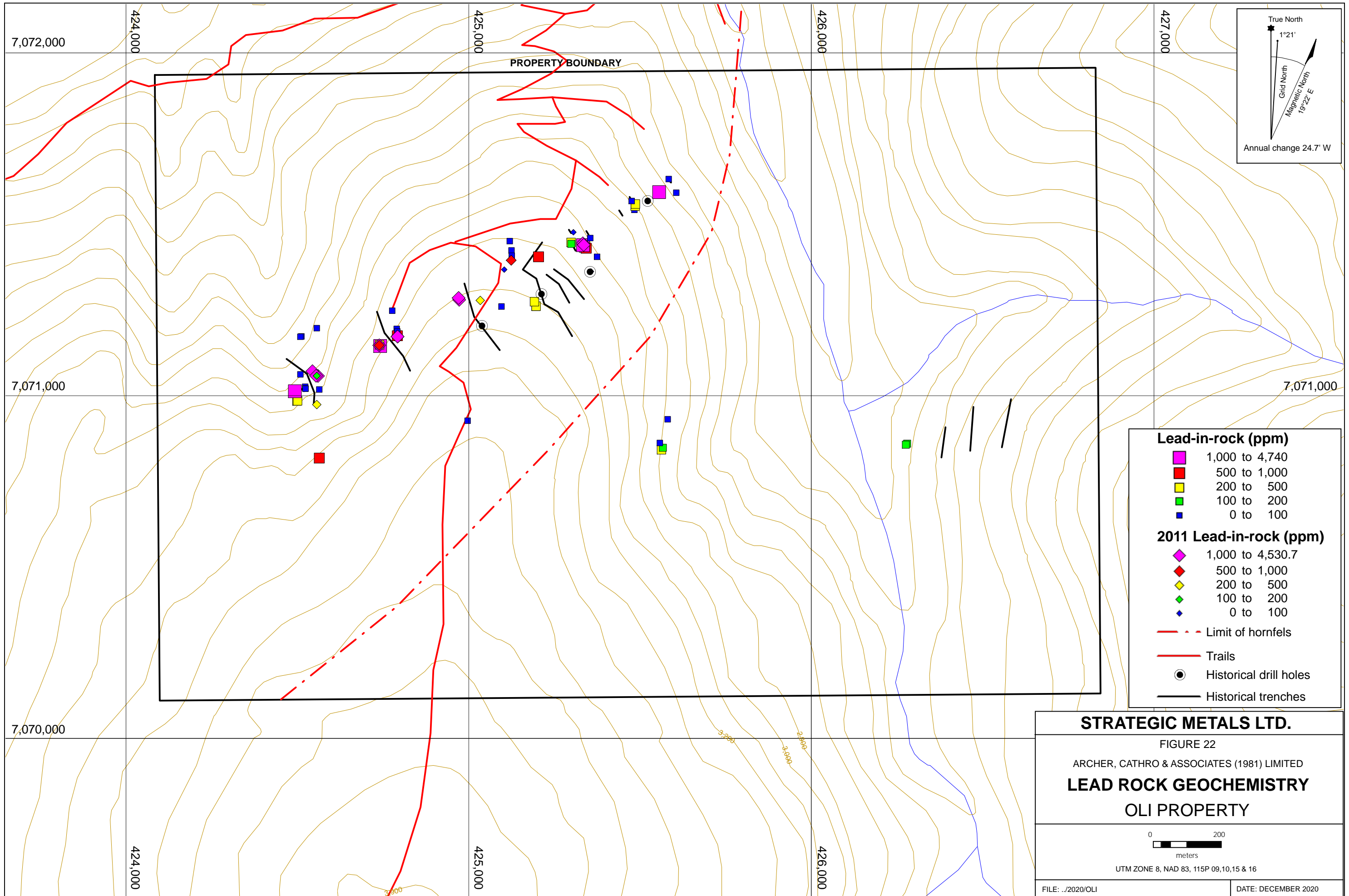
**STRATEGIC METALS LTD.**

FIGURE 21  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**SILVER ROCK GEOCHEMISTRY**  
OLI PROPERTY

0 200  
—  
meters

UTM ZONE 8, NAD 83, 115P 09,10,15 & 16

FILE: ../2020/OLI      DATE: DECEMBER 2020



**Lead-in-rock (ppm)**

- 1,000 to 4,740
- 500 to 1,000
- 200 to 500
- 100 to 200
- 0 to 100

**2011 Lead-in-rock (ppm)**

- ◆ 1,000 to 4,530.7
- ◆ 500 to 1,000
- ◆ 200 to 500
- ◆ 100 to 200
- ◆ 0 to 100

- - - Limit of hornfels
- Trails
- Historical drill holes
- Historical trenches

**STRATEGIC METALS LTD.**

FIGURE 22

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**LEAD ROCK GEOCHEMISTRY**

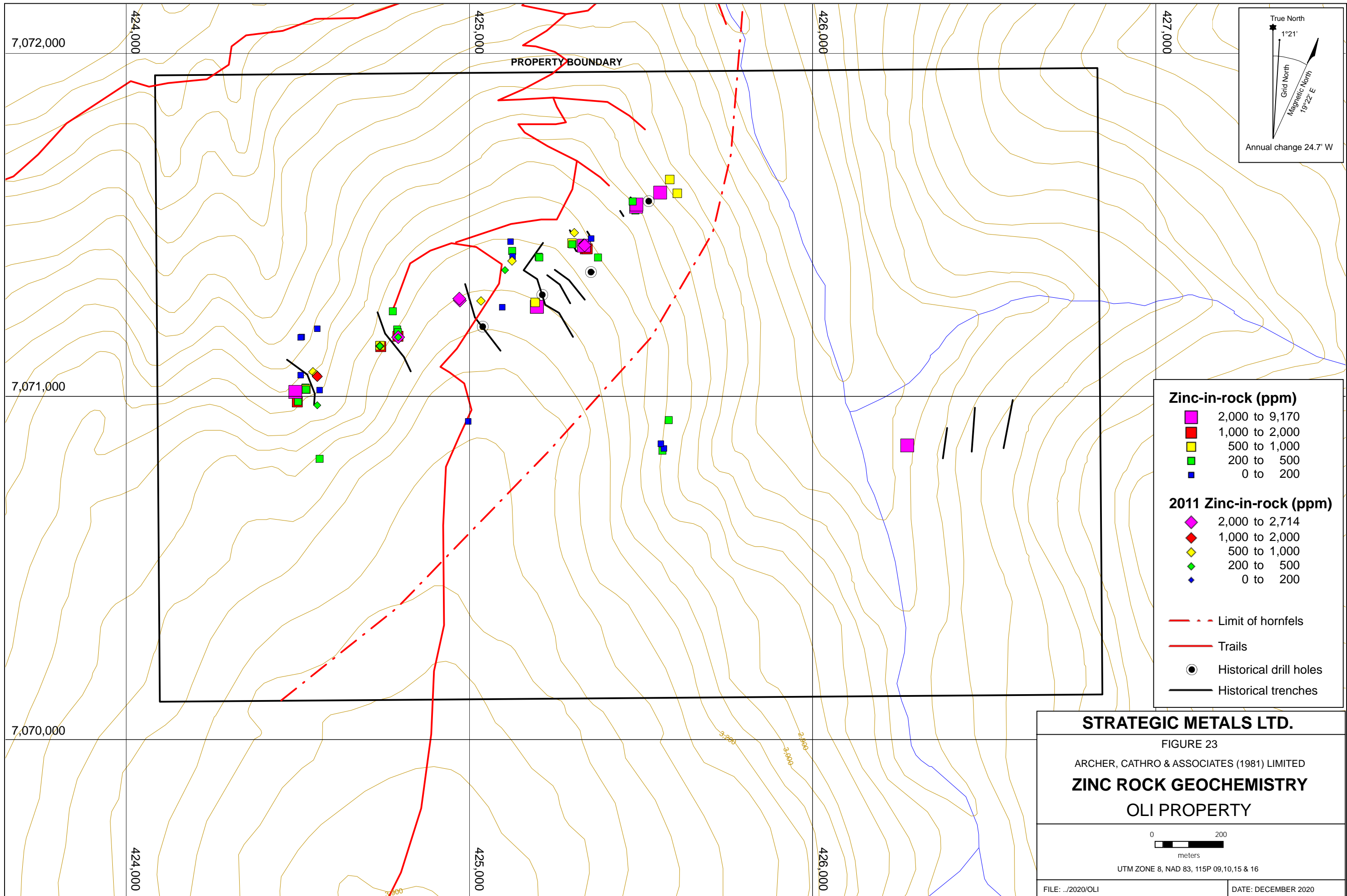
**OLI PROPERTY**

0 200  
meters

UTM ZONE 8, NAD 83, 115P 09,10,15 & 16

FILE: ../2020/OLI      DATE: DECEMBER 2020





**Zinc-in-rock (ppm)**

- 2,000 to 9,170
- 1,000 to 2,000
- 500 to 1,000
- 200 to 500
- 0 to 200

**2011 Zinc-in-rock (ppm)**

- ◆ 2,000 to 2,714
- ◆ 1,000 to 2,000
- ◆ 500 to 1,000
- ◆ 200 to 500
- ◆ 0 to 200

- - - Limit of hornfels  
— Trails  
● Historical drill holes  
— Historical trenches

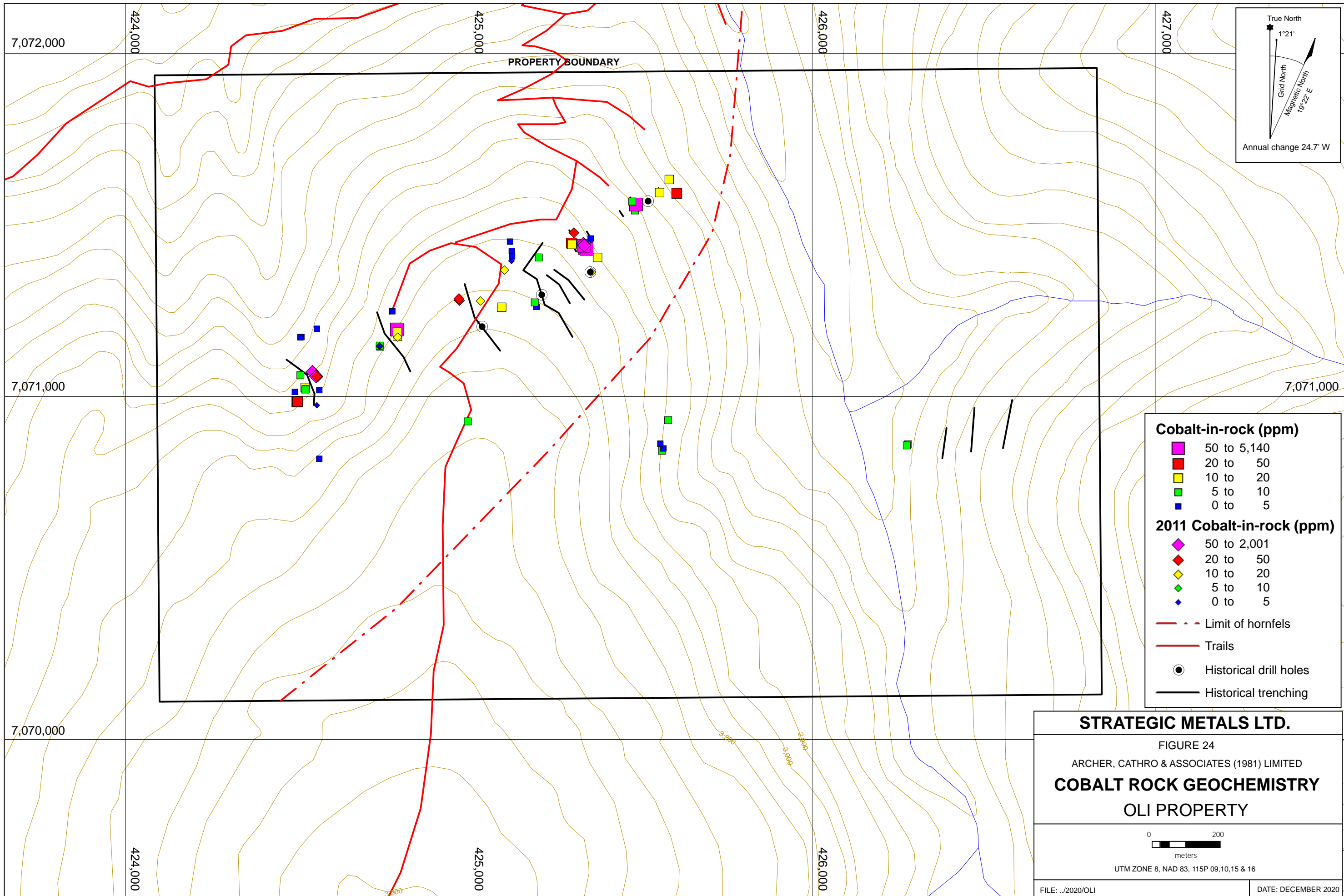
**STRATEGIC METALS LTD.**

FIGURE 23  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ZINC ROCK GEOCHEMISTRY**  
 OLI PROPERTY

0      200  
 meters

UTM ZONE 8, NAD 83, 115P 09,10,15 & 16

FILE: ../2020/OLI      DATE: DECEMBER 2020



**Cobalt-in-rock (ppm)**

- 50 to 5,140
- 20 to 50
- 10 to 20
- 5 to 10
- 0 to 5

**2011 Cobalt-in-rock (ppm)**

- ◆ 50 to 2,001
- ◆ 20 to 50
- ◆ 10 to 20
- ◆ 5 to 10
- ◆ 0 to 5

- - - Limit of hornfels
- Trails
- Historical drill holes
- Historical trenching

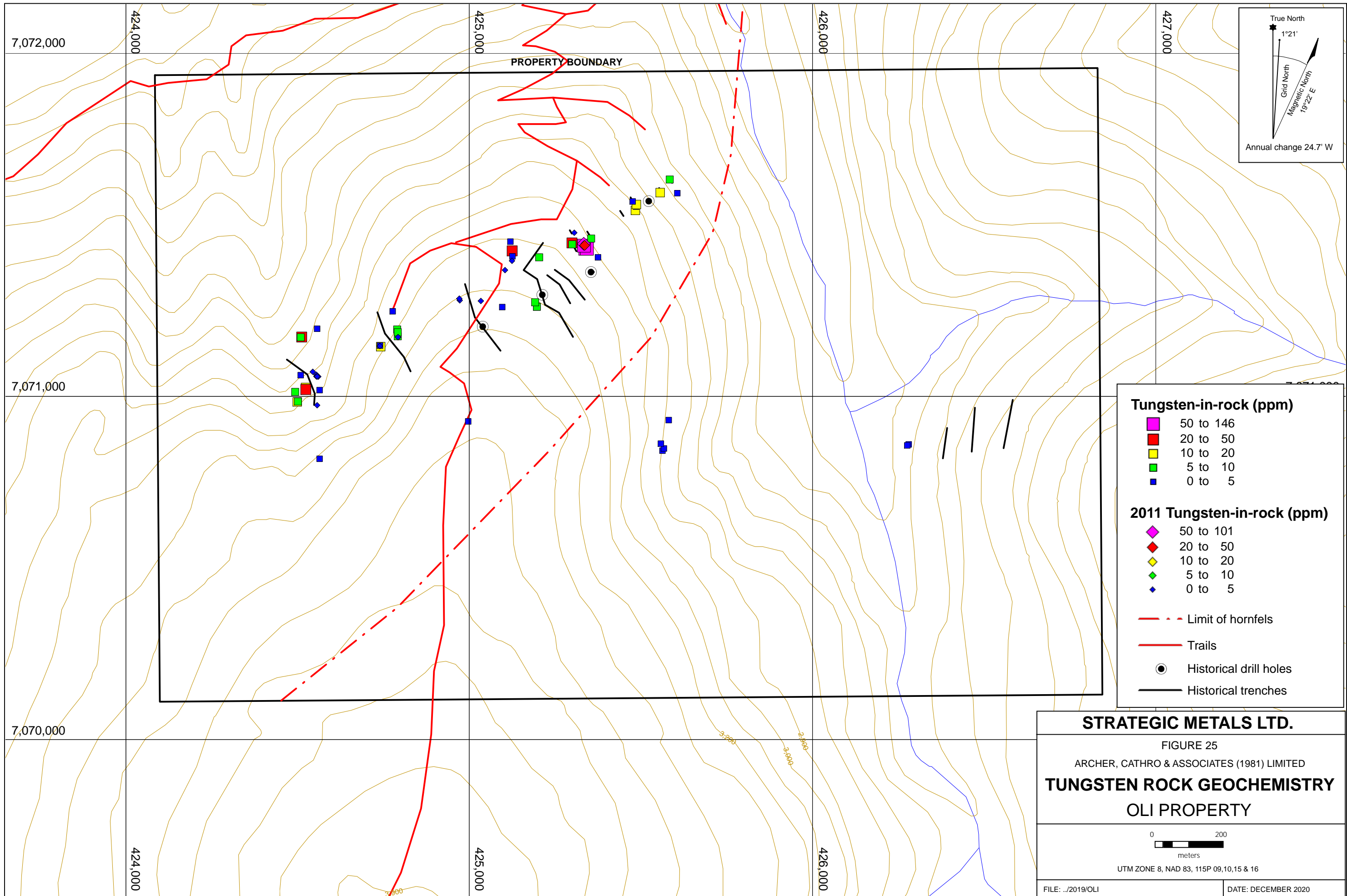
**STRATEGIC METALS LTD.**

FIGURE 24  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**COBALT ROCK GEOCHEMISTRY**  
 OLI PROPERTY

0      200  
 meters

UTM ZONE 8, NAD 83, 115P 09,10,15 & 16

FILE: ../2020/OLI      DATE: DECEMBER 2020



**Tungsten-in-rock (ppm)**

- 50 to 146
- 20 to 50
- 10 to 20
- 5 to 10
- 0 to 5

**2011 Tungsten-in-rock (ppm)**

- ◆ 50 to 101
- ◆ 20 to 50
- ◆ 10 to 20
- ◆ 5 to 10
- ◆ 0 to 5

- - - Limit of hornfels  
— Trails  
● Historical drill holes  
— Historical trenches

**STRATEGIC METALS LTD.**

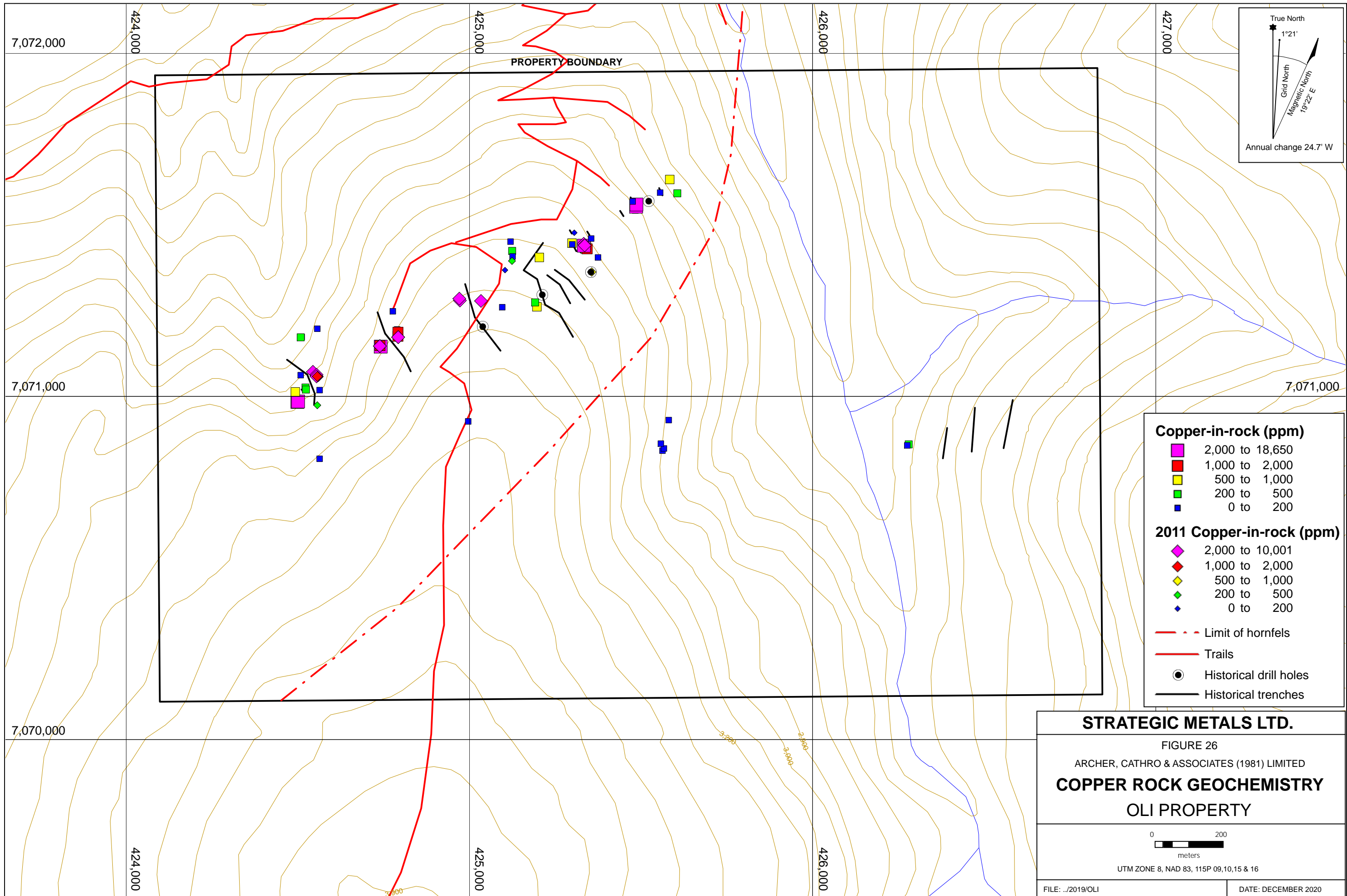
FIGURE 25  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**TUNGSTEN ROCK GEOCHEMISTRY**  
 OLI PROPERTY

0      200  
 meters

UTM ZONE 8, NAD 83, 115P 09,10,15 & 16

FILE: ../2019/OLI      DATE: DECEMBER 2020





**Copper-in-rock (ppm)**

- 2,000 to 18,650
- 1,000 to 2,000
- 500 to 1,000
- 200 to 500
- 0 to 200

**2011 Copper-in-rock (ppm)**

- ◆ 2,000 to 10,001
- ◆ 1,000 to 2,000
- ◆ 500 to 1,000
- ◆ 200 to 500
- ◆ 0 to 200

- - - Limit of hornfels
- Trails
- Historical drill holes
- Historical trenches

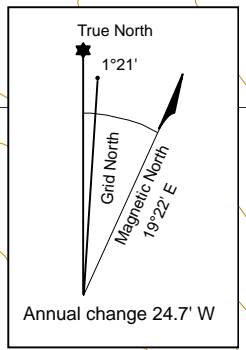
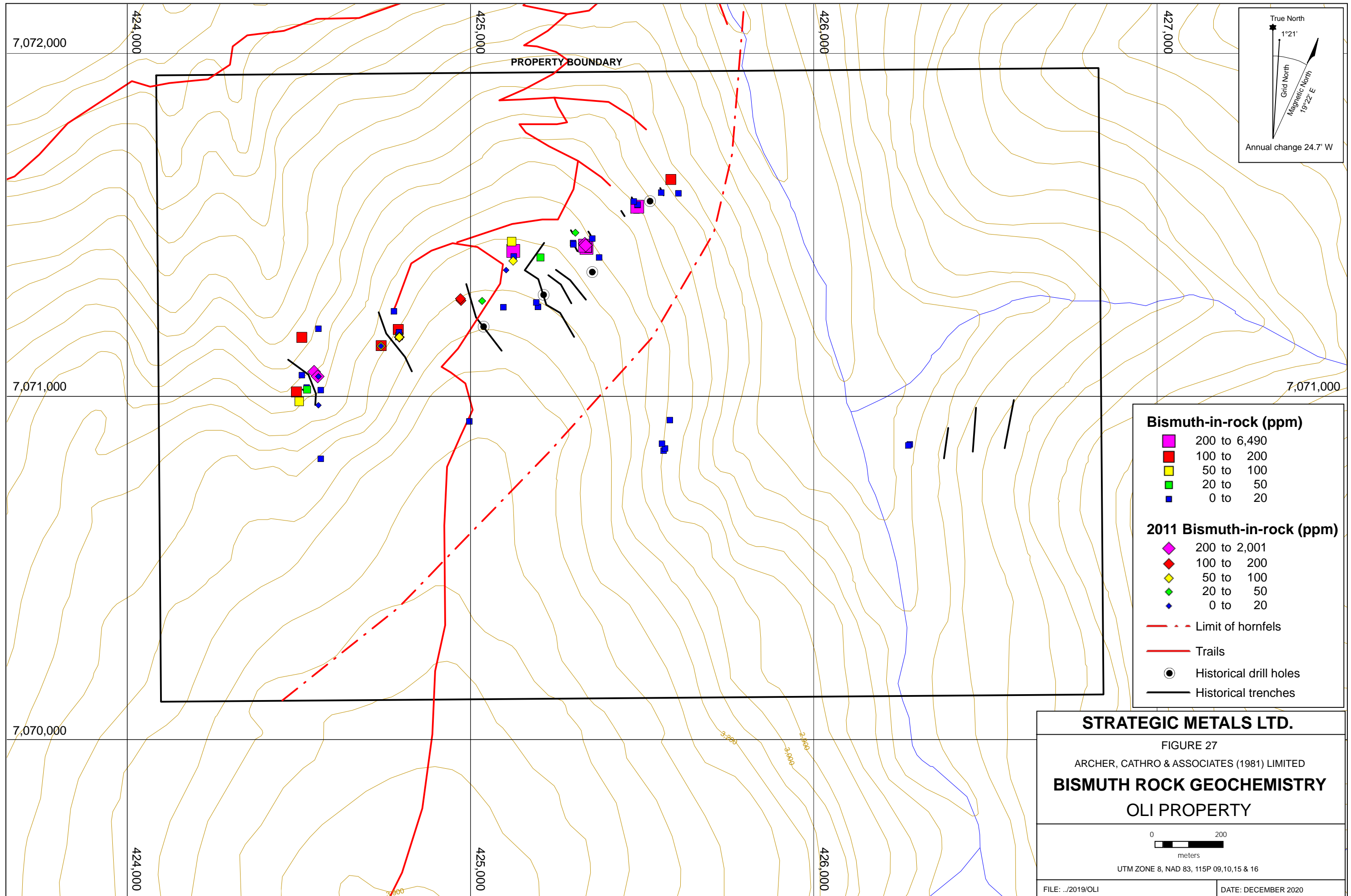
**STRATEGIC METALS LTD.**

FIGURE 26  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**COPPER ROCK GEOCHEMISTRY**  
**OLI PROPERTY**

0      200  
—  
meters

UTM ZONE 8, NAD 83, 115P 09,10,15 & 16

FILE: ../2019/OLI      DATE: DECEMBER 2020



**STRATEGIC METALS LTD.**

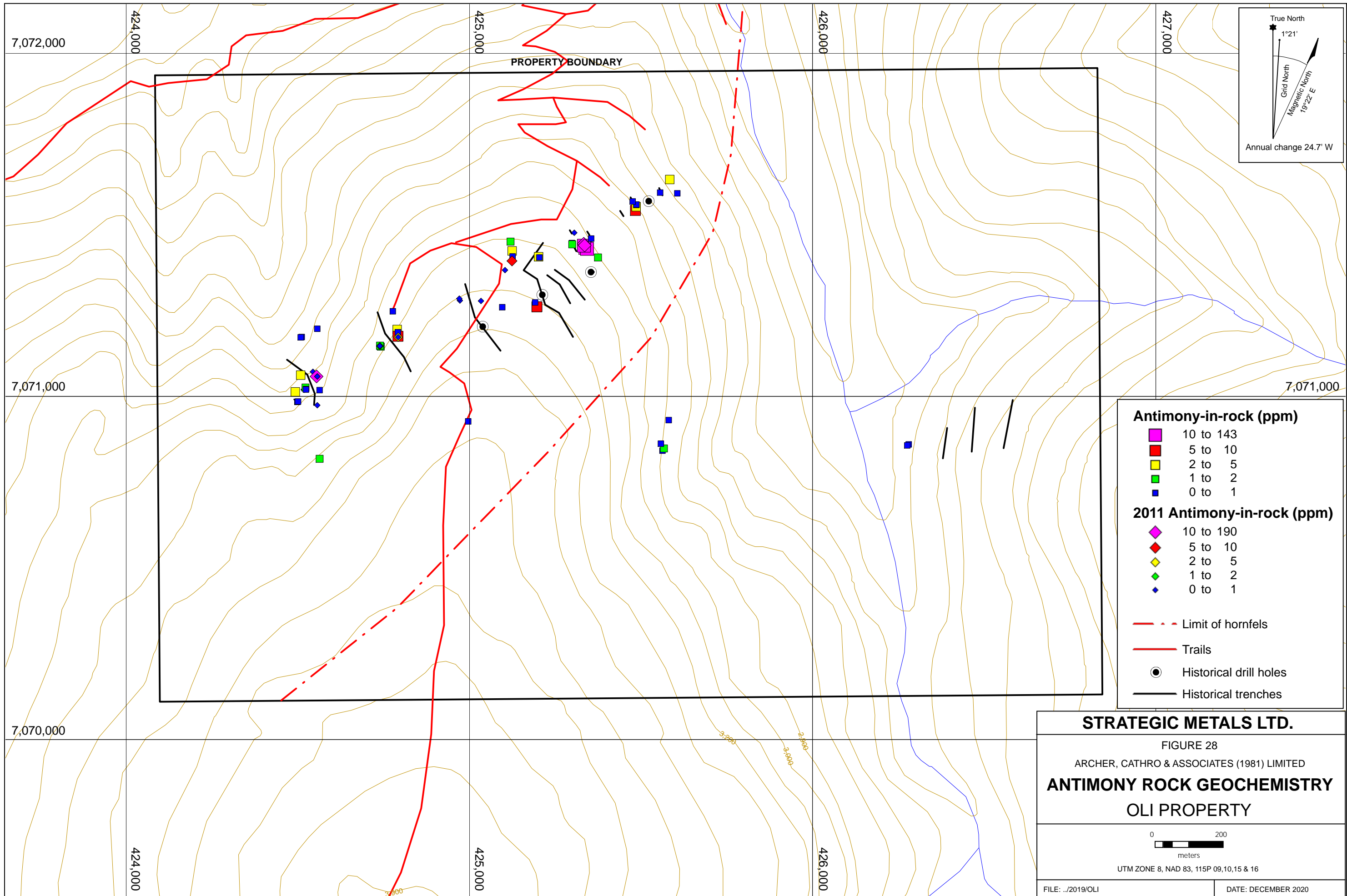
FIGURE 27  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**BISMUTH ROCK GEOCHEMISTRY**  
 OLI PROPERTY

0 200  
 meters

UTM ZONE 8, NAD 83, 115P 09,10,15 & 16

FILE: ../2019/OLI      DATE: DECEMBER 2020





**Antimony-in-rock (ppm)**

10 to 143	10 to 143
5 to 10	5 to 10
2 to 5	2 to 5
1 to 2	1 to 2
0 to 1	0 to 1

**2011 Antimony-in-rock (ppm)**

10 to 190	10 to 190
5 to 10	5 to 10
2 to 5	2 to 5
1 to 2	1 to 2
0 to 1	0 to 1

- - - Limit of hornfels  
 — Trails  
 ● Historical drill holes  
 — Historical trenches

**STRATEGIC METALS LTD.**

FIGURE 28  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ANTIMONY ROCK GEOCHEMISTRY**  
 OLI PROPERTY

0 200  
 meters

UTM ZONE 8, NAD 83, 115P 09,10,15 & 16

FILE: ../2019/OLI      DATE: DECEMBER 2020

In 2020, rock samples were collected in the vicinity of historical trenches, but also in undisturbed areas. This prospecting returned noteworthy results including 90.7 g/t silver, 1.865% copper, 0.25% lead, 0.92% zinc, and 231 ppm tin.

There is a moderate to strong correlation (0.59) between gold and bismuth on the property and in the broader McQuesten area, this correlation relationship is associated typical (?) with gold values associated with skarns.

## **DISCUSSION AND CONCLUSIONS**

The Oli property hosts significant silver and tin breccia and skarn occurrences in addition to, tin and tungsten skarn mineralization and evidence for distal poly-metallic vein mineralization. This style of mineralization is not common in the Northern Cordillera and the Oli property is among the best of the occurrences. The strength of the multi-element soil geochemical anomalies on the property suggests that additional intrusion-related mineralization may be present; however, the fragmented exploration history and poor outcrop exposure mean that the mineral potential has never been fully evaluated. Polymetallic distal veins can occur up to three kilometres from an intrusive centre (Thompson, et al., 1999), and Anomalies C and D, which have this type of geochemical signature are within that distance from the Boulder Creek stock, located immediately west-northwest of the property.

The wide-spread mineralization and strong soil geochemical anomalies identified to date on the Oli property warrant follow up work. Systematic follow up work should include:

- 1) Drone imagery;
- 2) Geological mapping;
- 3) Infill soil sampling;
- 4) Ground-based magnetic or induced polarization geophysical surveying;
- 5) Excavator trenching; and,
- 6) RAB, RC or diamond drilling.

**Drone imagery** should be flown prior to commencing the next field program. Having detailed images of the property will help the crew locate outcrop exposures and historical workings, which will save time bushwhacking.

Detailed property-scale **geological mapping** with a focus on collecting structural measurements should be done after the drone images have been collected. cursory work in 2020 identified quartz crenulation fold features, which can be used to advance the geological interpretation on the property. Geological mapping is required to determine the orientation of the favourable skarn horizons and also the breccia and vein hosted mineralization.

**Infill soil sampling** should be done in all parts of the property that have not yet been sampled since following up prospecting at anomalous soil sample sites has resulted in new discoveries. The sampling should be done after mid-summer when seasonal frost is out of the soil. Interpretation of soil geochemical results has provided valuable insight regarding metal zoning and deposit types that can be expected on the property.

In areas with known skarn and breccia mineralization, **ground-based magnetic and induced polarization geophysical surveying** should be done to help delineate the zones of mineralization. Once more is known about the characteristics of the country rock and mineralized zones additional geophysical surveys could be contemplated in other areas on the property that host significant multi-element soil geochemical anomalies.

Historical **trenching** was hampered by frozen ground and sloughing trench walls. Future work should include re-opening the historical trenches since the previously disturbed ground will be frost-free, making it easier to explore the silver and tin breccia and skarn zone identified by earlier operators. If bedrock is exposed in the re-opened trenches channel sampling should be done.

If results from the above mentioned work are favourable, **RAB, RC or diamond drilling** will be required to assess the targets.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



Heather Burrell, P.Geol.

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Yukon Geological Survey

2020 <https://mapservices.gov.yk.ca/GeoYukon/>

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

## STATEMENT OF QUALIFICATIONS

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

1. I graduated from the University of British Columbia in 2006 with a B.Sc in Geological Sciences.
2. From 2004 to present, I have been actively engaged in mineral exploration in the Yukon Territory, British Columbia and Northwest Territories.
3. I am a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of British Columbia.
4. I am a partner in Archer, Cathro & Associates (1981) Limited.
5. I have interpreted all data resulting from this work.



H. Burrell, B.Sc., P.Geo.

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




Statement of Expenditures  
Oli Property

<b>Labour</b>					
<b>Employee</b>	<b>Job Discription</b>	<b>Hours</b>	<b>Time Period</b>	<b>Rate/Hr</b>	<b>Total</b>
Lawrence Andre	Driver	8	August 2020 - December 2020	\$ 75.00	\$ 600.00
Heather Burrell	Project oversight, geo	25	August 2020 - December 2020	\$ 115.00	\$ 2,875.00
Kieran Mcclenahan	Soil sampler, labour	40	August 2020 - December 2020	\$ 54.00	\$ 2,160.00
Melissa Friend	Review rocks for sample submission, geo	8	August 2020 - December 2020	\$ 80.00	\$ 640.00
Sarah Shoniker	Soil sampler, geo	40	August 2020 - December 2020	\$ 64.00	\$ 2,560.00
MC Leroux	Soil sampler	48	August 2020 - December 2020	\$ 59.00	\$ 2,832.00
					\$ 11,667.00

**Expenses**

Room & board	\$180/night, 15 Nights	\$ 2,700.00
Capital Helicopters, as attached		\$ 5,304.06
ALS Minerals, as attached		\$ 6,318.93
		<u>\$ 14,322.99</u>

Total eligible expenditures submitted \$ 25,989.99

  
Elizabeth Smith  
January 18, 2021



**APPENDIX III**  
**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/geochemistry

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

Page: 1  
 Total # Pages: 5 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2020  
 Account: MTT

**CERTIFICATE WH20180620**

Project: OLI

This report is for 126 Soil samples submitted to our lab in Whitehorse, YT, Canada on 19-AUG-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL JACK MORTON	MATT DUMALA SCOTT NEWMAN	STEVE ISRAEL LIZ SMITH
--------------------------------	-----------------------------	---------------------------

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

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

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:**   
 Saa Traxler, General Manager, North Vancouver



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Page: 2 - A  
 Total # Pages: 5 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 25-SEP-2020  
 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH20180620**

Sample Description	Method Analyte Units LOD	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
YY13151		0.63	0.006	0.2	1.79	24	<10	240	0.9	<2	0.33	0.5	11	26	47	2.62
YY13152		0.41	0.002	0.2	1.92	18	<10	260	0.7	2	0.29	<0.5	11	32	35	2.85
YY13153		0.50	0.001	0.6	1.55	18	<10	200	0.9	<2	0.14	2.6	16	24	27	2.66
YY13154		0.42	<0.001	0.6	1.79	18	<10	100	0.9	<2	0.09	1.4	9	28	34	3.02
YY13155		0.50	0.003	0.6	2.11	44	<10	150	2.5	3	0.28	2.5	30	30	92	3.86
YY13156		0.39	0.002	0.7	1.56	24	<10	290	1.5	2	0.48	2.9	10	25	54	2.70
YY13157		0.39	0.004	1.4	1.72	83	<10	190	1.1	2	0.19	2.8	12	28	89	3.05
YY13158		0.40	0.002	1.6	1.62	37	<10	230	0.9	2	0.23	4.8	8	25	91	2.50
YY13159		0.67	0.002	0.9	1.42	20	<10	150	1.0	2	0.68	2.5	9	26	42	2.36
YY13160		0.47	0.003	1.6	1.42	71	<10	180	0.9	3	0.68	18.7	14	21	121	2.63
YY13161		0.44	0.002	1.0	1.38	31	<10	140	0.8	5	0.21	1.6	4	18	74	2.27
YY13162		0.51	0.004	1.0	1.41	32	<10	80	0.9	<2	0.05	1.0	9	22	47	2.64
YY13163		0.40	0.003	2.1	0.78	38	<10	60	<0.5	5	0.09	1.1	3	13	48	1.96
YY13164		0.39	0.020	1.6	1.34	41	<10	160	1.0	5	0.21	4.5	10	22	153	2.62
YY13165		0.42	0.005	0.3	0.95	38	<10	90	0.6	2	0.09	2.5	7	16	49	2.29
YY13166		0.40	0.003	1.7	1.42	214	<10	210	<0.5	2	0.18	4.3	9	21	42	2.56
YY13167		0.43	0.005	25.7	1.20	270	<10	100	0.5	12	0.12	3.6	5	18	566	2.41
YY13168		0.44	0.004	1.2	1.03	169	<10	130	0.5	3	0.10	5.3	8	17	49	2.33
YY13169		0.48	0.004	1.0	0.96	43	<10	80	0.6	<2	0.13	4.3	6	16	59	2.29
YY13170		0.39	0.002	0.2	1.50	16	<10	90	<0.5	<2	0.08	0.5	4	30	10	4.46
YY13171		0.50	0.002	0.6	1.54	10	<10	260	<0.5	<2	0.28	<0.5	11	22	13	2.19
YY13172		0.39	0.002	0.3	1.20	15	<10	110	<0.5	<2	0.13	<0.5	6	19	22	2.47
YY13173		0.50	0.012	0.4	1.24	11	<10	160	<0.5	<2	0.09	<0.5	5	18	16	2.24
YY13174		0.44	0.011	0.3	1.21	7	<10	110	<0.5	<2	0.06	<0.5	3	18	11	1.59
YY13175		0.43	0.020	0.5	1.65	23	<10	150	0.8	<2	0.11	1.1	9	32	44	2.65
YY13176		0.51	0.002	0.3	1.30	28	<10	150	0.5	<2	0.16	0.5	8	29	30	2.31
YY13177		0.53	0.022	0.4	1.66	49	<10	210	0.5	<2	0.21	1.3	14	64	51	2.62
YY13178		0.44	0.008	0.2	1.52	28	<10	180	0.5	<2	0.11	0.6	7	24	31	2.56
YY13179		0.50	0.007	0.2	1.39	42	<10	210	0.5	<2	0.10	<0.5	7	24	36	2.46
YY13180		0.48	0.016	0.9	1.37	34	<10	120	0.5	2	0.09	1.2	6	22	44	2.27
YY13181		0.39	0.002	1.4	1.74	52	<10	160	0.8	4	0.09	2.2	7	29	93	2.67
YY13182		0.40	0.003	0.9	1.66	52	<10	190	0.8	4	0.11	2.3	7	27	62	2.75
YY13183		0.46	0.001	0.7	1.47	32	<10	150	0.6	<2	0.12	1.4	8	23	25	2.84
YY13184		0.45	0.002	0.5	1.51	45	<10	130	0.7	<2	0.04	0.9	8	25	66	2.79
YY13185		0.45	0.003	1.2	1.38	76	<10	140	<0.5	<2	0.12	2.7	7	23	69	2.32
YY13186		0.53	0.009	0.3	1.76	34	<10	150	0.6	<2	0.07	1.1	9	29	65	2.90
YY13187		0.45	0.001	0.7	1.59	43	<10	160	0.9	<2	0.14	5.7	14	24	55	2.93
YY13188		0.52	0.036	0.4	1.16	37	<10	110	<0.5	<2	0.09	2.1	9	16	34	2.36
YY13189		0.47	0.008	<0.2	1.12	26	<10	100	<0.5	<2	0.06	0.8	4	18	15	2.03
YY13190		0.42	0.005	2.1	1.72	702	<10	180	0.7	2	0.08	3.2	13	24	55	3.26



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Sample Description	Method Analyte Units LOD	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
YY13151		10	<1	0.07	20	0.59	289	1	0.02	27	530	10	0.01	<2	3	25
YY13152		10	1	0.08	10	0.69	407	1	0.01	29	490	11	0.01	<2	3	22
YY13153		10	<1	0.08	10	0.38	427	1	<0.01	29	220	17	<0.01	<2	2	15
YY13154		<10	<1	0.09	10	0.42	221	1	<0.01	34	280	13	0.01	<2	2	12
YY13155		10	1	0.13	20	0.59	948	1	0.01	63	410	23	0.02	<2	3	24
YY13156		<10	<1	0.08	30	0.44	565	1	0.01	26	410	24	0.02	<2	3	29
YY13157		10	<1	0.08	20	0.44	456	1	0.01	30	550	58	0.03	<2	2	27
YY13158		10	<1	0.07	20	0.43	336	1	0.01	21	480	111	0.01	<2	2	25
YY13159		10	<1	0.07	20	0.46	834	1	<0.01	25	570	78	0.02	<2	2	36
YY13160		<10	<1	0.06	20	0.37	1165	1	0.01	28	640	66	0.04	<2	2	50
YY13161		10	<1	0.06	20	0.27	194	1	<0.01	15	220	31	0.01	<2	1	22
YY13162		10	<1	0.08	10	0.30	332	1	<0.01	20	180	16	<0.01	<2	2	11
YY13163		<10	<1	0.04	10	0.16	152	1	<0.01	12	370	28	0.03	<2	1	14
YY13164		<10	1	0.06	20	0.33	441	1	0.01	22	610	46	0.04	<2	2	25
YY13165		<10	<1	0.04	20	0.22	246	1	<0.01	15	190	16	<0.01	<2	1	13
YY13166		<10	<1	0.04	20	0.36	539	1	<0.01	15	610	88	0.04	<2	2	17
YY13167		<10	<1	0.05	10	0.26	358	1	<0.01	11	760	176	0.02	<2	1	13
YY13168		<10	<1	0.05	10	0.28	455	1	<0.01	17	550	62	0.01	2	2	10
YY13169		<10	<1	0.06	20	0.27	436	1	<0.01	17	490	167	0.01	<2	1	12
YY13170		10	1	0.04	10	0.31	242	2	<0.01	11	560	32	0.02	2	2	9
YY13171		<10	<1	0.04	20	0.37	428	1	0.01	18	710	25	0.05	<2	2	24
YY13172		<10	1	0.04	20	0.36	228	1	<0.01	19	550	25	0.02	<2	1	13
YY13173		<10	<1	0.03	20	0.32	127	1	<0.01	14	570	28	0.03	<2	1	11
YY13174		<10	<1	0.03	20	0.28	83	1	<0.01	12	420	14	0.02	<2	1	9
YY13175		<10	<1	0.07	20	0.40	343	1	<0.01	23	440	44	0.01	<2	3	14
YY13176		<10	<1	0.06	20	0.42	318	1	<0.01	26	450	40	0.01	<2	2	15
YY13177		10	<1	0.10	20	0.67	331	1	0.01	54	620	30	0.03	<2	2	22
YY13178		<10	<1	0.05	20	0.37	221	1	<0.01	18	300	26	0.01	<2	2	13
YY13179		<10	<1	0.05	20	0.39	239	1	<0.01	20	220	18	0.01	<2	3	12
YY13180		10	1	0.06	10	0.34	189	1	<0.01	17	300	34	0.02	<2	2	11
YY13181		10	1	0.09	20	0.48	227	1	0.01	23	290	76	0.03	<2	2	15
YY13182		10	<1	0.12	20	0.46	317	1	0.01	21	330	55	0.03	<2	3	14
YY13183		<10	<1	0.09	10	0.35	294	1	<0.01	18	550	69	0.02	<2	2	14
YY13184		<10	<1	0.11	20	0.44	255	1	<0.01	22	240	50	0.02	<2	2	8
YY13185		10	<1	0.05	20	0.36	354	1	<0.01	15	530	74	0.03	<2	1	14
YY13186		<10	1	0.05	20	0.40	286	1	<0.01	19	280	29	0.02	<2	3	9
YY13187		10	1	0.10	30	0.50	865	1	<0.01	25	450	110	0.02	<2	2	18
YY13188		<10	<1	0.08	20	0.27	457	1	<0.01	17	390	75	0.02	<2	1	13
YY13189		<10	<1	0.08	20	0.29	166	1	<0.01	13	240	25	0.02	<2	2	10
YY13190		<10	<1	0.08	20	0.37	888	2	<0.01	20	570	336	0.03	3	2	11



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Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
YY13151		<20	0.05	<10	<10	41	<10	123
YY13152		<20	0.07	<10	<10	49	<10	129
YY13153		<20	0.03	<10	<10	38	<10	462
YY13154		<20	0.03	<10	<10	44	<10	221
YY13155		<20	0.03	<10	<10	37	<10	479
YY13156		<20	0.03	<10	<10	36	<10	522
YY13157		<20	0.02	<10	<10	38	<10	453
YY13158		<20	0.02	<10	<10	38	<10	685
YY13159		<20	0.02	<10	<10	27	<10	423
YY13160		<20	0.01	<10	<10	28	<10	1980
YY13161		<20	0.01	<10	<10	36	<10	313
YY13162		<20	0.02	<10	<10	32	<10	355
YY13163		<20	0.01	<10	<10	32	<10	182
YY13164		<20	0.02	<10	<10	33	<10	636
YY13165		<20	0.02	<10	<10	33	<10	210
YY13166		<20	0.01	<10	<10	35	<10	463
YY13167		<20	0.02	<10	<10	29	<10	296
YY13168		<20	0.02	<10	<10	28	<10	379
YY13169		<20	0.02	<10	<10	24	<10	692
YY13170		<20	0.06	<10	<10	72	<10	138
YY13171		<20	0.01	<10	<10	34	<10	125
YY13172		<20	0.02	<10	<10	31	<10	89
YY13173		<20	0.01	<10	<10	28	<10	56
YY13174		<20	0.01	<10	<10	28	<10	41
YY13175		<20	0.03	<10	<10	42	<10	225
YY13176		<20	0.03	<10	<10	37	<10	152
YY13177		<20	0.04	<10	<10	46	<10	181
YY13178		<20	0.03	<10	<10	45	<10	117
YY13179		<20	0.04	<10	<10	39	<10	118
YY13180		<20	0.03	<10	<10	40	<10	192
YY13181		<20	0.04	<10	<10	43	<10	318
YY13182		<20	0.04	<10	<10	44	<10	378
YY13183		<20	0.03	<10	<10	41	<10	362
YY13184		<20	0.04	<10	<10	34	<10	357
YY13185		<20	0.02	<10	<10	40	<10	438
YY13186		<20	0.04	<10	<10	50	<10	309
YY13187		<20	0.02	<10	<10	36	<10	763
YY13188		<20	0.02	<10	<10	34	<10	334
YY13189		<20	0.03	<10	<10	34	<10	171
YY13190		<20	0.01	<10	<10	37	<10	781





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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	%
LOD		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY13191		0.45	0.016	<0.2	1.47	98	<10	130	0.6	<2	0.12	2.7	8	23	30	2.55
YY13192		0.42	0.002	0.3	1.18	29	<10	100	<0.5	<2	0.11	3.7	8	18	21	2.32
YY13193		0.49	0.004	1.7	1.52	38	<10	140	0.5	<2	0.18	5.4	14	23	43	2.79
YY13194		0.51	0.007	0.2	1.59	34	<10	90	<0.5	2	0.09	0.6	9	25	39	2.71
YY13195		0.49	0.008	<0.2	1.60	16	<10	140	<0.5	<2	0.08	0.5	9	25	24	2.67
YY13196		0.46	0.006	<0.2	1.17	28	<10	160	<0.5	<2	0.09	<0.5	8	19	22	2.40
YY13197		0.55	0.003	<0.2	1.33	19	<10	140	<0.5	<2	0.12	<0.5	6	22	19	2.18
YY13198		0.47	0.003	0.3	1.06	18	<10	120	<0.5	<2	0.23	<0.5	4	17	14	1.79
YY13199		0.44	0.003	0.7	1.48	23	<10	250	<0.5	<2	0.77	1.2	11	21	30	2.67
YY13200		0.45	0.005	<0.2	1.09	14	<10	140	<0.5	<2	0.13	<0.5	6	16	17	2.05
YY13201		0.45	0.001	<0.2	1.27	16	<10	170	<0.5	<2	0.17	<0.5	7	21	23	2.43
YY13202		0.40	0.012	0.6	1.28	40	<10	220	0.5	<2	0.21	1.7	6	19	24	2.30
YY13203		0.40	0.010	0.3	1.04	16	<10	140	<0.5	<2	0.21	0.7	9	16	22	1.99
YY13204		0.38	0.011	0.6	1.52	39	<10	270	<0.5	<2	0.51	1.9	14	22	32	2.77
YY13205		0.70	0.009	1.5	1.78	182	<10	190	0.9	<2	0.49	4.4	13	23	57	3.19
YY13206		0.44	0.006	0.4	1.81	86	<10	170	0.8	<2	0.96	3.2	11	27	49	2.86
YY13207		0.45	0.008	0.4	2.38	130	<10	170	1.1	<2	0.75	1.3	20	33	56	3.64
YY13208		0.46	0.005	0.2	1.66	52	<10	180	0.5	<2	0.35	1.1	10	25	22	2.60
YY13209		0.50	<0.001	0.3	1.36	29	<10	190	<0.5	<2	0.17	1.3	11	19	24	2.60
YY13210		0.49	0.002	0.2	1.25	43	<10	180	0.5	<2	0.22	1.4	9	21	26	2.42
YY13211		0.48	0.003	0.2	1.49	69	<10	130	0.7	<2	0.09	1.1	10	23	35	2.84
YY13212		0.47	0.005	0.3	1.92	42	<10	160	0.6	<2	0.14	1.4	9	27	28	2.76
YY13213		0.51	0.006	0.7	2.20	100	<10	130	0.8	2	0.23	3.7	22	31	58	4.65
YY13214		0.46	0.002	0.2	1.38	53	<10	150	<0.5	<2	0.15	1.3	9	22	23	2.41
YY13215		0.45	0.002	0.4	1.60	44	<10	190	<0.5	<2	0.31	2.4	7	26	19	2.68
YY13216		0.55	0.002	1.3	1.65	49	<10	170	0.5	<2	0.12	1.2	6	26	31	2.64
YY13217		0.42	0.002	0.3	4.58	27	<10	250	1.4	<2	0.85	2.0	20	52	35	4.32
YY13218		0.44	0.007	0.2	1.33	40	<10	150	0.5	<2	0.10	1.3	7	22	27	2.50
YY13219		0.47	0.002	0.5	1.36	32	<10	140	0.5	<2	0.07	1.3	12	20	17	2.61
YY13220		0.43	0.002	0.3	1.06	36	<10	140	<0.5	<2	0.10	1.0	5	17	13	2.15
YY13221		0.43	0.003	0.5	1.41	23	<10	220	0.5	<2	0.11	2.5	8	21	20	2.49
YY13222		0.43	0.004	1.5	1.54	139	<10	190	0.6	<2	0.11	2.2	7	22	30	2.73
YY13223		0.41	0.007	1.3	1.36	51	<10	150	<0.5	<2	0.08	0.8	4	19	21	2.42
YY13224		0.43	0.001	0.6	1.40	69	<10	170	<0.5	<2	0.22	1.8	12	21	32	2.90
YY13225		0.36	0.005	0.5	1.41	34	<10	220	<0.5	<2	0.39	3.2	12	20	24	2.20
YY13226		0.47	<0.001	0.4	1.27	18	<10	240	<0.5	<2	0.63	1.0	10	19	21	2.31
YY13227		0.48	0.005	0.5	1.22	18	<10	230	<0.5	<2	0.27	0.7	9	18	30	1.93
YY13228		0.45	0.006	0.2	1.15	9	<10	120	<0.5	<2	0.09	<0.5	5	18	10	1.92
YY13251		0.48	0.003	0.3	2.17	17	<10	300	1.1	<2	0.54	<0.5	12	33	49	2.87
YY13252		0.51	0.002	0.3	1.54	22	<10	240	0.6	<2	0.17	0.7	9	31	40	2.55



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Sample Description	Method Analyte Units LOD	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
YY13191		<10	<1	0.06	20	0.35	327	1	<0.01	19	190	31	0.01	2	2	14
YY13192		10	<1	0.05	20	0.33	522	1	<0.01	17	510	134	0.02	<2	1	12
YY13193		<10	1	0.06	30	0.52	861	1	<0.01	30	600	306	0.02	<2	2	17
YY13194		10	<1	0.05	30	0.46	372	1	<0.01	23	470	94	0.01	<2	3	10
YY13195		<10	1	0.05	20	0.39	367	1	<0.01	21	390	33	0.01	<2	3	9
YY13196		<10	1	0.04	20	0.41	341	1	<0.01	18	370	18	0.01	2	2	12
YY13197		<10	1	0.04	20	0.37	249	1	<0.01	16	580	24	0.01	<2	2	12
YY13198		<10	<1	0.04	10	0.25	142	1	<0.01	13	440	24	0.03	<2	<1	18
YY13199		<10	1	0.05	30	0.41	722	1	<0.01	26	490	56	0.04	<2	2	54
YY13200		<10	<1	0.07	20	0.27	261	1	<0.01	16	270	24	0.01	<2	1	12
YY13201		<10	1	0.07	20	0.34	203	1	<0.01	21	430	24	0.02	<2	2	17
YY13202		<10	<1	0.11	30	0.29	452	1	0.01	17	410	165	0.03	<2	2	20
YY13203		<10	<1	0.11	20	0.28	484	1	<0.01	17	630	39	0.03	<2	1	20
YY13204		<10	1	0.05	30	0.44	1020	1	0.01	29	700	42	0.06	<2	2	43
YY13205		10	1	0.18	40	1.04	988	1	0.01	34	580	727	0.02	2	3	26
YY13206		10	<1	0.20	20	0.88	469	1	0.03	31	380	73	0.03	2	3	51
YY13207		10	1	0.25	30	1.15	735	1	0.03	42	340	98	0.01	<2	5	52
YY13208		10	<1	0.13	20	0.83	480	1	0.01	26	370	36	0.01	<2	3	25
YY13209		<10	<1	0.11	30	0.47	364	1	0.01	24	310	33	0.01	<2	2	18
YY13210		<10	<1	0.06	20	0.46	467	1	<0.01	21	390	85	0.01	2	2	17
YY13211		<10	<1	0.07	30	0.45	437	1	<0.01	27	210	65	0.01	<2	2	10
YY13212		10	<1	0.09	20	0.47	356	1	<0.01	27	340	45	0.01	<2	3	21
YY13213		10	1	0.09	40	0.82	863	1	0.02	55	590	98	0.12	<2	2	80
YY13214		<10	1	0.05	20	0.41	323	1	<0.01	18	350	33	0.01	<2	2	14
YY13215		10	1	0.06	20	0.55	336	1	<0.01	20	360	25	0.01	<2	3	20
YY13216		<10	<1	0.07	20	0.42	301	1	<0.01	18	220	249	0.01	<2	3	12
YY13217		20	1	0.84	10	3.20	1115	<1	0.10	47	790	41	0.01	<2	6	54
YY13218		<10	<1	0.08	20	0.48	237	1	<0.01	23	280	19	0.01	<2	2	11
YY13219		<10	1	0.07	20	0.30	550	1	<0.01	16	470	54	0.01	<2	2	8
YY13220		<10	<1	0.09	20	0.27	196	1	<0.01	12	270	41	0.01	<2	1	12
YY13221		<10	1	0.10	20	0.32	393	1	<0.01	22	270	59	0.01	<2	2	14
YY13222		10	<1	0.07	20	0.32	415	1	<0.01	16	370	648	0.01	<2	2	13
YY13223		<10	1	0.06	20	0.33	208	1	<0.01	16	370	122	0.01	<2	2	10
YY13224		<10	<1	0.07	40	0.43	557	1	<0.01	23	440	124	0.02	<2	2	22
YY13225		<10	1	0.05	20	0.35	766	1	0.01	20	410	57	0.03	<2	3	37
YY13226		<10	1	0.04	20	0.37	723	1	0.01	20	660	28	0.05	<2	2	50
YY13227		<10	<1	0.04	20	0.32	537	1	0.01	18	560	37	0.03	<2	1	22
YY13228		<10	<1	0.03	20	0.30	135	1	<0.01	13	450	18	0.02	<2	1	10
YY13251		10	1	0.12	20	0.79	393	1	0.05	34	550	14	0.01	<2	4	38
YY13252		<10	1	0.07	20	0.46	274	1	0.01	28	420	31	0.01	<2	3	17



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Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
YY13191		<20	0.02	<10	<10	37	<10	732
YY13192		<20	0.01	<10	<10	31	<10	304
YY13193		<20	0.01	<10	<10	26	<10	751
YY13194		<20	0.03	<10	<10	32	<10	418
YY13195		<20	0.03	<10	<10	41	<10	176
YY13196		<20	0.03	<10	<10	29	<10	75
YY13197		<20	0.03	<10	<10	36	<10	79
YY13198		<20	0.01	<10	<10	33	<10	86
YY13199		<20	0.01	<10	<10	31	<10	235
YY13200		<20	0.02	<10	<10	30	<10	79
YY13201		<20	0.02	<10	<10	33	<10	64
YY13202		<20	0.02	<10	<10	32	<10	225
YY13203		<20	0.02	<10	<10	23	<10	103
YY13204		<20	0.01	<10	<10	30	<10	335
YY13205		<20	0.03	<10	<10	29	<10	795
YY13206		<20	0.04	<10	<10	32	<10	501
YY13207		20	0.05	<10	<10	37	<10	386
YY13208		<20	0.05	<10	<10	37	<10	283
YY13209		<20	0.02	<10	<10	27	<10	219
YY13210		<20	0.03	<10	<10	30	<10	322
YY13211		<20	0.02	<10	<10	28	<10	340
YY13212		<20	0.03	<10	<10	37	<10	432
YY13213		20	0.01	<10	<10	22	<10	1290
YY13214		<20	0.03	<10	<10	38	<10	305
YY13215		<20	0.04	<10	<10	46	<10	714
YY13216		<20	0.03	<10	<10	44	<10	400
YY13217		<20	0.15	<10	<10	71	<10	397
YY13218		<20	0.04	<10	<10	35	<10	182
YY13219		<20	0.02	<10	<10	37	<10	255
YY13220		<20	0.02	<10	<10	32	<10	150
YY13221		<20	0.03	<10	<10	37	<10	249
YY13222		<20	0.02	<10	<10	38	<10	388
YY13223		<20	0.02	<10	<10	35	<10	205
YY13224		<20	0.02	<10	<10	30	<10	447
YY13225		<20	0.01	<10	<10	31	<10	347
YY13226		<20	0.01	<10	<10	30	<10	142
YY13227		<20	0.01	<10	<10	26	<10	89
YY13228		<20	0.01	<10	<10	29	<10	54
YY13251		<20	0.08	<10	<10	48	<10	138
YY13252		<20	0.04	<10	<10	42	<10	179



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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	%
LOD		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY13253		0.51	0.007	0.2	1.26	16	<10	180	0.5	<2	0.12	<0.5	7	22	22	2.18
YY13254		0.46	0.003	0.2	1.42	22	<10	220	0.6	<2	0.16	<0.5	9	26	32	2.53
YY13255		0.40	0.001	1.1	1.14	13	<10	90	0.5	<2	0.05	0.6	6	20	12	2.06
YY13256		0.31	0.004	0.2	1.09	21	<10	150	<0.5	<2	0.15	0.9	7	21	21	2.17
YY13257		0.32	0.001	1.6	1.30	25	<10	110	0.5	2	0.12	2.0	6	20	33	2.61
YY13258		0.44	0.001	0.9	1.91	37	<10	210	1.0	2	0.19	4.9	15	27	44	2.92
YY13259		0.41	0.002	1.9	1.83	58	<10	150	0.9	3	0.12	2.2	14	28	120	2.96
YY13260		0.39	0.001	1.2	2.41	38	<10	120	2.3	3	0.12	2.7	17	38	111	3.57
YY13261		0.30	0.002	1.7	1.83	50	<10	190	0.8	3	0.15	3.7	11	25	69	3.14
YY13262		0.39	0.003	1.5	2.27	29	<10	130	1.4	2	0.06	1.6	12	33	68	3.52
YY13263		0.22	0.390	2.4	1.27	68	<10	220	1.0	2	0.94	23.3	11	17	728	2.14
YY13264		0.36	0.002	0.2	0.67	18	<10	60	<0.5	4	0.04	0.6	2	11	23	1.68
YY13265		0.44	0.005	3.1	1.38	225	<10	170	1.0	7	0.23	11.8	18	22	386	2.87
YY13266		0.36	0.004	2.1	1.25	191	<10	130	0.6	2	0.49	48.0	16	19	79	2.79
YY13267		0.32	0.004	2.1	1.17	156	<10	180	0.6	4	0.74	49.0	17	19	81	2.55
YY13268		0.39	0.002	1.2	1.21	97	<10	180	<0.5	3	0.48	5.7	7	17	29	2.21
YY13269		0.43	0.003	1.3	1.46	81	<10	160	<0.5	2	0.24	1.8	11	18	32	3.06
YY13270		0.49	0.010	0.6	1.18	23	<10	140	<0.5	2	0.15	1.0	11	16	22	2.38
YY13271		0.41	0.001	0.2	1.03	9	<10	140	<0.5	<2	0.13	<0.5	3	16	12	1.31
YY13272		0.45	0.002	0.2	1.00	13	<10	120	<0.5	<2	0.10	<0.5	6	17	12	1.85
YY13273		0.41	0.004	<0.2	1.16	14	<10	130	<0.5	<2	0.14	<0.5	4	18	14	1.91
YY13274		0.26	0.010	0.2	0.62	5	<10	60	<0.5	<2	0.04	<0.5	1	9	6	0.95
YY13275		0.32	0.005	1.1	1.04	17	<10	160	<0.5	2	0.18	2.1	4	20	34	1.63
YY13276		0.36	0.015	0.8	1.18	22	<10	230	0.6	2	0.68	4.3	10	24	64	2.21
YY13277		0.43	0.002	0.7	1.02	15	<10	180	0.5	2	0.28	2.6	9	20	59	1.80
YY13278		0.37	0.003	0.3	1.20	22	<10	110	0.6	3	0.09	2.5	14	20	44	2.72
YY13279		0.59	0.005	0.3	1.29	33	<10	110	0.6	4	0.09	1.4	15	25	56	2.60
YY13280		0.35	0.004	0.3	1.26	45	<10	180	0.5	11	0.09	0.5	7	22	95	4.54
YY13281		0.37	0.003	0.4	1.10	21	<10	140	<0.5	25	0.08	0.8	5	20	64	3.72
YY13282		0.47	0.007	<0.2	1.26	18	<10	170	0.5	2	0.14	0.6	7	19	26	2.18
YY13283		0.49	0.003	0.5	1.44	43	<10	170	0.7	<2	0.24	2.8	10	23	58	2.60
YY13284		0.48	0.006	0.4	1.50	20	<10	170	0.6	2	0.14	0.8	8	23	36	2.49
YY13285		0.39	0.006	0.4	1.30	32	<10	160	0.5	5	0.14	0.6	5	20	30	2.53
YY13286		0.38	0.002	<0.2	0.86	9	<10	100	<0.5	<2	0.06	<0.5	2	15	12	1.34
YY13287		0.30	0.003	<0.2	1.16	24	<10	100	<0.5	<2	0.05	<0.5	3	20	23	1.97
YY13288		0.46	0.003	0.3	1.29	38	<10	110	<0.5	<2	0.07	0.7	9	20	25	2.53
YY13289		0.40	0.003	<0.2	1.03	13	<10	100	<0.5	<2	0.10	<0.5	5	19	13	2.13
YY13290		0.39	0.004	<0.2	1.34	17	<10	130	<0.5	<2	0.06	<0.5	4	21	9	2.52
YY13291		0.44	0.002	<0.2	0.83	10	<10	70	<0.5	<2	0.03	<0.5	2	15	7	1.81
YY13292		0.39	0.003	<0.2	1.23	12	<10	140	<0.5	<2	0.09	<0.5	7	23	26	2.24



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Sample Description	Method Analyte Units LOD	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
YY13253		<10	1	0.05	10	0.35	245	1	0.01	17	310	15	0.01	<2	2	12
YY13254		<10	<1	0.07	20	0.46	237	1	0.01	23	360	16	0.01	<2	3	16
YY13255		<10	1	0.06	10	0.27	150	1	<0.01	14	200	12	0.01	<2	2	6
YY13256		<10	<1	0.10	20	0.34	445	1	<0.01	19	330	14	0.01	<2	2	17
YY13257		<10	<1	0.08	10	0.31	409	1	<0.01	17	420	57	0.02	<2	1	13
YY13258		10	1	0.09	20	0.41	1305	1	0.01	26	390	72	0.01	<2	2	25
YY13259		10	1	0.08	20	0.44	462	2	0.01	21	360	163	0.01	<2	3	16
YY13260		10	1	0.20	40	0.71	871	1	<0.01	38	320	32	0.01	<2	3	24
YY13261		10	<1	0.12	20	0.48	723	1	0.01	21	370	133	0.01	<2	2	17
YY13262		10	1	0.09	20	0.43	289	1	<0.01	30	330	96	0.01	<2	2	8
YY13263		<10	1	0.06	40	0.33	966	1	0.01	30	630	87	0.08	<2	2	85
YY13264		<10	1	0.03	10	0.11	108	1	<0.01	5	210	12	<0.01	<2	1	6
YY13265		10	1	0.08	20	0.47	1870	1	<0.01	33	480	278	0.01	<2	2	23
YY13266		<10	1	0.06	20	0.37	2230	1	<0.01	32	550	204	0.02	<2	2	38
YY13267		<10	1	0.06	20	0.32	1740	1	<0.01	26	530	212	0.03	<2	2	60
YY13268		<10	1	0.05	20	0.35	410	1	<0.01	21	610	135	0.03	<2	2	31
YY13269		<10	1	0.04	20	0.42	776	1	<0.01	22	580	138	0.03	<2	2	19
YY13270		<10	1	0.04	20	0.34	538	1	<0.01	16	580	63	0.02	<2	1	14
YY13271		<10	1	0.03	10	0.26	86	1	<0.01	12	460	27	0.02	<2	1	12
YY13272		<10	1	0.03	10	0.27	251	1	<0.01	13	520	21	<0.01	<2	1	10
YY13273		<10	1	0.03	10	0.27	257	1	<0.01	11	540	25	0.01	<2	1	14
YY13274		<10	1	0.02	10	0.14	49	1	<0.01	6	460	14	0.02	<2	<1	7
YY13275		<10	1	0.04	10	0.29	105	1	0.01	14	490	24	0.04	<2	2	19
YY13276		<10	1	0.06	20	0.41	303	1	0.01	28	700	19	0.03	<2	3	46
YY13277		<10	1	0.05	20	0.35	221	1	<0.01	23	610	26	0.01	<2	2	24
YY13278		<10	1	0.04	10	0.27	444	1	<0.01	17	390	28	<0.01	<2	2	12
YY13279		<10	1	0.06	10	0.36	667	1	<0.01	21	510	40	0.01	<2	2	10
YY13280		10	1	0.09	10	0.35	330	1	0.01	17	610	41	0.04	<2	2	11
YY13281		10	<1	0.10	10	0.29	271	1	<0.01	12	520	34	0.11	<2	1	11
YY13282		<10	1	0.04	10	0.41	304	1	0.01	19	440	22	<0.01	<2	2	13
YY13283		10	1	0.05	20	0.47	563	1	0.01	24	420	101	0.01	<2	2	20
YY13284		10	1	0.03	10	0.44	406	1	<0.01	20	250	78	<0.01	<2	3	12
YY13285		<10	1	0.04	10	0.27	288	1	<0.01	14	520	402	0.01	<2	2	11
YY13286		<10	1	0.03	10	0.17	77	1	<0.01	8	600	55	<0.01	<2	<1	8
YY13287		<10	1	0.03	10	0.25	127	1	<0.01	12	460	29	0.01	<2	1	7
YY13288		<10	1	0.05	20	0.40	389	1	<0.01	20	320	96	<0.01	<2	2	10
YY13289		<10	1	0.03	10	0.27	219	1	<0.01	14	500	60	<0.01	<2	1	10
YY13290		<10	1	0.03	10	0.27	101	1	<0.01	11	210	14	<0.01	<2	2	8
YY13291		<10	1	0.03	10	0.18	67	1	<0.01	8	290	9	<0.01	<2	1	5
YY13292		<10	<1	0.03	10	0.36	362	1	<0.01	16	540	19	<0.01	<2	1	9



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**CERTIFICATE OF ANALYSIS WH20180620**

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
YY13253		<20	0.03	<10	<10	36	<10	98
YY13254		<20	0.04	<10	<10	38	<10	145
YY13255		<20	0.03	<10	<10	35	<10	124
YY13256		<20	0.03	<10	<10	31	<10	124
YY13257		<20	0.02	<10	<10	37	<10	399
YY13258		<20	0.02	<10	<10	43	<10	857
YY13259		<20	0.03	<10	<10	45	<10	593
YY13260		<20	0.03	<10	<10	38	<10	1030
YY13261		<20	0.01	<10	<10	37	<10	787
YY13262		<20	0.03	<10	<10	52	<10	700
YY13263		<20	0.01	<10	<10	20	<10	1830
YY13264		<20	0.03	<10	<10	38	<10	78
YY13265		<20	0.02	<10	<10	27	<10	1750
YY13266		<20	0.01	<10	<10	24	<10	5620
YY13267		<20	0.02	<10	<10	27	<10	4490
YY13268		<20	0.01	<10	<10	23	<10	708
YY13269		<20	0.01	<10	<10	23	<10	588
YY13270		<20	0.01	<10	<10	23	<10	316
YY13271		<20	0.01	<10	<10	25	<10	62
YY13272		<20	0.02	<10	<10	28	<10	72
YY13273		<20	0.01	<10	<10	32	<10	66
YY13274		<20	0.01	<10	<10	15	<10	24
YY13275		<20	0.02	<10	<10	29	<10	156
YY13276		<20	0.03	<10	<10	29	<10	266
YY13277		<20	0.02	<10	<10	25	<10	282
YY13278		<20	0.03	<10	<10	42	<10	209
YY13279		<20	0.03	<10	<10	35	<10	306
YY13280		<20	0.04	<10	<10	35	<10	159
YY13281		<20	0.03	<10	<10	37	<10	129
YY13282		<20	0.03	<10	<10	32	<10	160
YY13283		<20	0.02	<10	<10	31	<10	719
YY13284		<20	0.02	<10	<10	41	<10	445
YY13285		<20	0.02	<10	<10	36	<10	290
YY13286		<20	0.01	<10	<10	28	<10	58
YY13287		<20	0.02	<10	<10	32	<10	69
YY13288		<20	0.03	<10	<10	30	<10	239
YY13289		<20	0.02	<10	<10	36	<10	82
YY13290		<20	0.04	<10	<10	49	<10	41
YY13291		<20	0.03	<10	<10	31	<10	33
YY13292		<20	0.02	<10	<10	35	<10	77





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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY13293		0.45	0.005	<0.2	1.35	50	<10	100	<0.5	<2	0.10	<0.5	6	23	14	2.29
YY13294		0.47	0.002	0.2	1.46	17	<10	140	<0.5	<2	0.05	<0.5	7	25	14	2.77
YY13295		0.36	0.011	<0.2	0.78	11	<10	140	<0.5	<2	0.09	<0.5	5	15	18	1.57
YY13296		0.47	0.005	<0.2	1.28	15	<10	120	<0.5	<2	0.08	<0.5	9	20	24	2.48
YY13297		0.51	0.003	<0.2	1.37	17	<10	120	<0.5	<2	0.08	<0.5	5	23	14	2.22
YY13298		0.41	0.002	<0.2	1.97	13	<10	160	<0.5	<2	0.09	<0.5	8	32	16	3.13



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Sample Description	Method	Analyte	Units	LOD	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
YY13293					<10	1	0.03	10	0.33	314	1	<0.01	15	510	111	<0.01	<2	2	9
YY13294					<10	1	0.04	10	0.35	260	1	<0.01	17	270	20	<0.01	<2	2	7
YY13295					<10	1	0.03	10	0.19	180	1	<0.01	14	790	30	<0.01	<2	<1	9
YY13296					<10	1	0.03	20	0.41	382	1	<0.01	18	400	28	<0.01	<2	2	9
YY13297					<10	1	0.03	10	0.33	133	1	<0.01	15	420	22	<0.01	<2	3	8
YY13298					10	1	0.04	10	0.44	316	1	0.01	18	420	18	<0.01	<2	3	10

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



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Sample Description	Method Analyte Units LOD	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
YY13293		<20	0.03	<10	<10	37	<10	205
YY13294		<20	0.04	<10	<10	47	<10	93
YY13295		<20	0.01	<10	<10	24	<10	56
YY13296		<20	0.03	<10	<10	29	<10	82
YY13297		<20	0.03	<10	<10	39	<10	60
YY13298		<20	0.04	<10	<10	54	<10	79



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**CERTIFICATE OF ANALYSIS WH20180620**

<b>CERTIFICATE COMMENTS</b>	
	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.</p> <p>Applies to Method: LOG-22 SCR-41 WEI-21</p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <p>Applies to Method: Au-ICP21 ME-ICP41</p>



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**CERTIFICATE WH20180625**

Project: OLI

This report is for 31 Rock samples submitted to our lab in Whitehorse, YT, Canada on 19-AUG-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL JACK MORTON	MATT DUMALA SCOTT NEWMAN	STEVE ISRAEL LIZ SMITH
--------------------------------	-----------------------------	---------------------------

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 up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

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:**   
 Saa Traxler, General Manager, North Vancouver



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**CERTIFICATE OF ANALYSIS WH20180625**

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W590966		2.32	<0.001	0.15	7.22	13.5	1900	2.43	0.10	5.91	0.30	87.5	10.7	56	9.60	31.3
W590967		2.82	<0.001	14.45	1.23	21.1	20	1.41	17.65	0.02	0.20	12.30	4.1	20	3.25	440
W590968		3.73	<0.001	25.8	1.85	2.8	20	0.74	31.4	0.03	0.23	6.04	9.0	31	0.90	713
W590969		1.52	<0.001	2.73	7.39	8.3	130	1.60	2.29	0.14	4.14	107.5	30.6	66	4.50	593
W590970		1.69	<0.001	0.59	2.78	6.5	70	0.43	1.04	0.02	1.74	45.4	12.3	23	1.73	21.4
W590971		2.20	0.012	0.66	3.78	321	300	1.80	1.32	0.03	10.15	53.8	6.5	40	6.58	100.5
W590972		2.35	0.010	90.7	3.07	355	20	2.81	338	0.02	14.40	32.4	17.5	17	1.17	>10000
W590973		1.97	<0.001	0.74	9.65	6.4	1000	1.29	1.26	0.35	9.24	79.9	10.8	68	3.01	153.5
W590974		1.34	<0.001	9.42	6.08	173.5	70	5.45	7.44	0.71	47.3	146.0	342	950	2.48	8810
W590975		1.26	<0.001	0.66	2.65	1.9	170	1.35	2.55	0.22	9.51	24.8	5.6	21	4.26	116.0
W590976		1.16	<0.001	1.18	3.16	24.8	320	1.64	3.50	0.05	2.39	36.7	10.2	42	2.92	331
W590977		1.43	0.003	0.55	3.96	17.9	240	2.66	16.70	0.21	6.16	40.7	8.8	37	11.80	140.5
W590978		1.02	0.005	0.55	3.30	19.7	280	2.04	28.5	0.47	5.01	38.0	8.3	31	9.99	245
W590979		1.99	<0.001	17.85	5.15	51.5	160	4.80	37.9	0.12	21.5	85.8	27.3	91	3.29	2290
W590980		0.78	0.001	75.1	1.19	412	130	0.92	62.1	0.01	0.82	21.7	21.2	18	1.04	4720
W590981		1.75	0.011	0.27	8.63	759	1840	11.30	1.73	2.46	1.51	151.5	8.7	13	13.35	122.0
W590982		1.41	<0.001	2.90	1.87	7.0	90	1.32	26.4	0.05	0.61	7.01	0.8	23	2.96	90.9
W590983		1.30	0.004	0.23	2.49	3.0	190	0.77	100.0	0.39	4.63	27.8	3.6	25	12.95	260
W590984		1.90	<0.001	0.54	1.48	6.8	120	0.74	2.49	0.02	1.43	17.20	2.0	42	3.20	22.7
W590985		1.35	<0.001	0.05	2.60	7.5	560	0.56	0.38	0.11	0.68	35.7	3.4	35	2.68	5.6
W590986		1.66	<0.001	0.43	4.15	33.9	480	1.48	0.73	0.10	2.94	46.7	8.6	43	5.90	30.2
W590987		2.10	<0.001	0.84	12.45	19.2	1720	4.41	0.56	0.05	1.09	101.0	5.9	98	7.19	23.9
W590988		1.51	0.002	0.25	0.99	268	100	0.41	0.10	0.01	2.55	9.94	0.6	28	2.88	11.3
W590989		1.38	<0.001	0.12	2.49	21.2	260	0.89	0.40	0.04	0.35	11.10	1.9	35	1.44	10.5
W590990		1.55	0.001	43.4	3.21	228	140	103.0	101.5	0.03	6.29	13.00	3.2	32	4.41	677
W590991		2.31	<0.001	0.12	0.11	13.5	10	0.14	0.31	0.01	0.11	1.05	0.2	29	0.13	4.1
W590992		3.99	<0.001	0.68	3.15	169.0	330	1.11	0.57	0.02	1.70	41.9	2.6	36	3.70	42.7
W590993		1.18	<0.001	4.98	2.58	20.3	220	1.44	7.65	0.03	3.98	34.6	7.6	27	3.94	224
W590994		2.13	<0.001	0.14	2.03	6.6	100	0.63	0.28	0.01	0.31	39.7	3.8	28	2.92	25.7
W590995		1.32	<0.001	3.67	8.50	6.7	1190	6.00	4.21	0.18	68.3	177.0	11.7	5	31.9	52.5
W590996		1.69	<0.001	1.14	2.83	3.1	20	0.79	3.11	0.01	3.35	173.5	21.0	25	0.82	232





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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte Units LOD	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W590966		3.73	17.65	0.16	2.4	0.177	4.05	45.6	14.5	4.26	1060	1.83	0.75	10.0	40.6	610
W590967		2.33	6.21	0.06	0.2	4.76	0.16	6.0	126.0	0.12	962	12.25	0.01	1.1	3.7	40
W590968		4.37	8.39	0.06	0.4	6.64	0.13	3.1	73.6	0.23	2160	4.21	0.01	2.6	4.6	100
W590969		17.45	29.1	0.15	1.6	1.565	0.53	56.7	190.5	1.03	7020	0.87	0.01	12.5	29.4	660
W590970		6.28	10.00	0.08	0.5	0.393	0.26	23.6	83.8	0.33	2800	0.44	0.01	3.4	12.9	80
W590971		5.36	11.25	0.11	1.1	5.07	0.91	27.0	54.5	0.36	1520	0.28	0.03	6.0	11.1	120
W590972		12.40	13.30	0.11	0.8	79.5	0.10	14.6	93.1	0.46	2090	4.48	0.01	2.1	23.1	70
W590973		3.47	19.15	0.13	0.8	0.363	0.78	44.0	46.7	0.98	721	0.38	6.40	14.1	34.3	280
W590974		11.70	17.15	0.16	1.3	1.905	0.02	44.1	87.9	9.29	7000	1.84	0.02	32.5	896	2120
W590975		2.50	5.95	<0.05	0.6	0.573	0.80	8.0	58.4	0.29	923	0.14	0.03	3.0	10.6	890
W590976		1.60	9.85	0.08	0.8	0.750	1.15	17.5	110.0	0.39	376	0.63	0.05	4.1	19.9	200
W590977		2.96	12.30	0.10	0.7	0.221	1.08	19.0	62.0	0.55	756	0.22	0.04	5.8	16.7	140
W590978		3.24	9.53	0.11	0.4	0.469	0.90	18.6	41.4	0.36	432	0.15	0.13	4.8	14.8	130
W590979		4.86	22.0	0.14	1.4	2.51	1.17	41.9	61.7	0.75	1200	0.82	0.25	12.3	43.6	280
W590980		4.11	5.18	0.07	0.1	15.75	0.03	10.6	35.1	0.09	1120	0.93	0.01	1.2	5.6	50
W590981		2.95	23.0	0.19	6.6	0.103	2.48	77.6	63.1	0.52	373	1.57	2.59	22.3	4.4	730
W590982		2.40	9.56	0.07	0.4	0.186	0.54	4.4	13.8	0.22	58	0.22	0.10	2.6	1.5	100
W590983		1.45	7.34	0.08	0.6	0.083	0.66	13.9	30.5	0.23	127	0.12	0.39	3.4	6.7	140
W590984		1.52	4.04	0.08	0.5	0.656	0.49	5.7	24.2	0.21	610	0.21	0.01	2.9	6.6	70
W590985		1.33	5.88	0.10	1.3	0.031	1.30	16.7	14.5	0.27	341	0.14	0.32	3.8	9.2	150
W590986		2.53	9.99	0.09	0.6	0.326	1.87	21.2	40.1	0.76	685	0.19	0.03	8.1	22.5	330
W590987		5.18	35.9	0.14	2.0	0.104	6.87	47.8	78.6	1.25	827	0.35	0.09	18.6	15.3	470
W590988		0.70	1.82	0.05	0.1	0.540	0.49	4.6	6.1	0.04	92	0.22	0.01	1.1	1.4	60
W590989		1.27	5.08	0.05	0.6	0.027	0.97	5.1	145.5	0.20	107	0.19	0.01	3.3	4.5	160
W590990		2.33	11.45	0.06	0.3	1.050	1.16	6.4	114.0	0.29	1200	57.7	0.02	2.2	8.3	70
W590991		0.23	0.20	<0.05	<0.1	0.008	0.02	0.6	1.8	0.01	30	0.24	0.04	0.5	1.0	40
W590992		1.95	7.26	0.07	0.9	0.049	1.32	19.3	24.7	0.33	534	0.27	0.03	4.7	9.1	90
W590993		2.25	7.38	0.07	0.7	4.80	0.90	14.3	39.2	0.28	1840	0.92	0.02	3.5	7.9	70
W590994		4.24	7.17	0.07	0.4	0.314	0.27	20.7	38.0	0.30	1240	0.19	0.01	4.0	11.1	70
W590995		8.81	18.05	0.15	7.5	0.375	3.15	94.6	96.9	0.53	4240	1.97	0.04	19.4	11.8	760
W590996		7.40	10.65	0.16	0.5	0.175	0.09	86.1	87.7	0.38	3450	0.42	0.01	2.5	8.9	60



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**CERTIFICATE OF ANALYSIS WH20180625**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W590966		6.9	206	0.005	0.04	0.43	13.3	1	139.0	289	0.74	<0.05	13.90	0.300	2.03	4.3
W590967		323	23.8	<0.002	0.02	2.82	1.7	2	75.3	16.3	0.07	0.26	1.65	0.046	0.51	0.4
W590968		663	16.9	<0.002	0.02	0.55	3.4	1	29.0	5.4	0.19	0.08	3.47	0.092	0.32	0.7
W590969		425	85.4	<0.002	0.01	0.42	11.3	1	59.8	9.6	0.74	<0.05	12.00	0.312	1.29	3.3
W590970		104.0	37.2	<0.002	<0.01	1.59	3.1	1	11.5	4.2	0.28	<0.05	7.96	0.106	0.42	0.6
W590971		17.6	119.0	<0.002	0.01	8.49	5.4	1	56.9	18.7	0.44	<0.05	8.50	0.186	1.37	2.2
W590972		498	13.0	<0.002	0.04	3.36	3.0	9	80.2	4.1	0.18	0.20	5.91	0.071	0.19	9.4
W590973		18.4	76.7	<0.002	0.22	0.21	11.8	2	13.9	110.0	1.03	<0.05	16.30	0.403	1.01	3.2
W590974		436	3.0	<0.002	0.03	0.63	23.1	2	18.0	51.0	1.42	<0.05	3.81	0.829	1.33	5.5
W590975		9.5	122.5	<0.002	0.04	0.21	2.6	1	43.5	9.7	0.25	<0.05	6.21	0.095	1.20	0.6
W590976		13.1	89.5	<0.002	0.01	1.46	4.7	1	6.4	19.2	0.30	<0.05	6.14	0.140	0.73	1.5
W590977		10.4	180.5	<0.002	0.04	0.42	5.3	1	34.6	23.0	0.44	<0.05	8.50	0.187	2.08	1.3
W590978		12.4	151.5	<0.002	0.25	0.25	4.3	1	33.3	45.6	0.36	<0.05	7.52	0.154	1.99	1.4
W590979		289	165.5	<0.002	0.44	0.57	10.9	2	52.0	91.1	0.80	<0.05	15.10	0.342	2.84	2.9
W590980		465	4.4	<0.002	0.34	0.77	2.1	5	51.8	5.5	0.07	<0.05	1.68	0.044	0.09	1.8
W590981		19.3	171.0	<0.002	0.51	3.29	8.6	1	17.2	849	1.27	<0.05	36.4	0.211	2.28	9.7
W590982		26.0	78.7	<0.002	0.04	0.17	2.6	1	30.1	19.9	0.19	<0.05	4.08	0.078	0.85	0.6
W590983		3.5	105.0	<0.002	0.10	0.11	2.4	1	14.4	107.5	0.28	<0.05	7.18	0.106	1.39	1.3
W590984		13.8	73.2	<0.002	<0.01	0.21	2.3	<1	11.3	5.4	0.21	0.21	3.92	0.096	0.72	0.5
W590985		15.3	73.3	<0.002	<0.01	0.22	2.8	<1	9.6	57.1	0.29	<0.05	7.29	0.136	0.72	1.0
W590986		57.7	139.5	<0.002	0.01	0.60	6.1	1	14.5	19.9	0.54	<0.05	9.04	0.189	1.21	0.7
W590987		468	269	<0.002	0.03	0.48	19.8	1	10.6	94.0	1.07	0.08	22.2	0.465	1.78	3.1
W590988		103.5	68.3	<0.002	0.01	1.17	0.4	<1	12.9	5.4	0.10	<0.05	3.55	0.037	0.87	0.4
W590989		37.5	48.9	<0.002	0.01	0.97	2.3	<1	0.7	15.2	0.28	<0.05	5.86	0.104	0.26	0.9
W590990		4740	162.0	<0.002	0.05	4.67	2.1	2	39.0	11.7	0.17	0.53	2.58	0.067	1.48	1.2
W590991		12.9	1.6	<0.002	<0.01	0.15	0.1	<1	0.2	3.8	<0.05	<0.05	0.33	0.032	0.02	0.1
W590992		529	129.0	<0.002	0.02	1.51	3.4	<1	17.1	14.5	0.39	<0.05	7.67	0.154	1.49	0.9
W590993		459	128.5	<0.002	0.02	0.55	2.6	1	102.0	10.5	0.26	0.05	7.29	0.111	1.46	0.8
W590994		7.2	36.4	<0.002	<0.01	0.20	1.4	<1	21.8	3.7	0.24	<0.05	7.52	0.121	0.47	0.6
W590995		2540	547	<0.002	0.38	0.95	7.5	<1	231	26.9	1.16	0.05	40.1	0.183	7.72	12.8
W590996		80.6	13.1	<0.002	<0.01	0.41	2.8	1	6.6	3.2	0.20	<0.05	5.69	0.084	0.22	0.9



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**CERTIFICATE OF ANALYSIS WH20180625**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Cu-OG62
		V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Cu % 0.001
W590966		136	1.4	27.9	129	90.2	
W590967		13	3.5	2.3	228	7.1	
W590968		17	9.9	1.9	242	13.2	
W590969		72	43.2	10.8	641	63.1	
W590970		23	6.4	4.6	384	16.7	
W590971		32	16.6	5.1	459	38.1	
W590972		20	2.0	9.5	4220	13.3	1.865
W590973		52	2.0	20.2	592	27.6	
W590974		187	10.4	21.7	9170	54.7	
W590975		16	2.7	4.4	320	19.0	
W590976		27	12.8	4.5	488	30.0	
W590977		33	4.6	12.9	922	25.4	
W590978		25	31.4	11.2	320	14.1	
W590979		60	13.1	13.6	1360	54.2	
W590980		12	6.9	3.9	239	3.6	
W590981		18	2.6	20.6	153	277	
W590982		16	29.1	2.8	117	15.8	
W590983		16	9.0	4.3	157	20.9	
W590984		15	2.5	2.4	192	19.8	
W590985		21	0.7	7.0	241	49.3	
W590986		34	3.8	7.9	340	22.4	
W590987		115	2.7	13.2	320	79.9	
W590988		4	1.5	1.3	111	4.9	
W590989		16	2.2	2.8	77	26.2	
W590990		21	5.3	2.4	2060	11.1	
W590991		1	0.2	0.2	13	<0.5	
W590992		26	3.3	4.1	312	33.6	
W590993		20	5.0	4.6	742	26.7	
W590994		11	7.6	3.1	175	12.8	
W590995		21	11.0	27.1	6580	302	
W590996		20	3.7	6.5	508	18.1	



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**CERTIFICATE OF ANALYSIS WH20180625**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method: REEs may not be totally soluble in this method.  
ME-MS61

**LABORATORY ADDRESSES**

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.  
CRU-31 CRU-QC LOG-21 PUL-31  
PUL-QC SPL-21 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 Cu-OG62 ME-MS61 ME-OG62



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**CERTIFICATE WH20216861**

Project: OLI

This report is for 126 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL JACK MORTON	MATT DUMALA SCOTT NEWMAN	STEVE ISRAEL LIZ SMITH
--------------------------------	-----------------------------	---------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS

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:**   
 Saa Traxler, General Manager, North Vancouver



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**CERTIFICATE OF ANALYSIS WH20216861**

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
Units		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
LOD		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
YY13151		0.27	5.94	19.6	1050	1.71	1.74	0.94	0.55	82.0	12.7	64	11.35	44.5	3.19	14.55
YY13152		0.31	5.96	16.5	1050	1.44	1.48	0.87	0.46	67.4	11.8	65	11.05	34.6	3.17	15.40
YY13153		0.83	5.87	20.6	890	1.95	1.51	0.64	2.83	71.2	21.9	61	11.05	32.4	3.18	14.60
YY13154		0.75	6.35	19.8	850	1.85	1.70	0.56	1.63	63.0	12.4	67	19.15	36.8	3.60	15.25
YY13155		0.74	7.76	47.1	850	4.16	3.72	0.65	2.65	104.0	32.1	72	28.3	95.5	4.35	18.80
YY13156		0.97	6.30	26.2	950	2.63	2.54	0.89	3.26	88.3	12.2	62	13.70	56.9	3.21	15.70
YY13157		1.59	7.50	91.0	980	2.58	2.60	0.53	3.24	85.4	14.0	78	18.45	97.1	3.66	19.95
YY13158		1.74	6.94	36.8	1050	2.24	2.85	0.68	5.13	77.9	10.1	73	11.30	94.9	3.07	17.55
YY13159		0.95	6.93	21.5	910	2.59	1.54	0.98	2.65	85.9	11.1	68	15.30	43.0	2.89	18.70
YY13160		1.53	6.26	72.1	860	2.38	3.79	0.97	18.95	79.6	15.3	62	9.77	121.0	3.09	16.45
YY13161		1.43	8.28	36.3	1060	2.28	4.85	0.53	1.86	79.9	6.0	80	14.95	92.5	3.03	24.0
YY13162		1.22	6.31	36.2	860	2.03	1.92	0.33	1.17	64.1	11.4	60	10.60	53.3	3.32	17.40
YY13163		2.26	4.93	39.2	680	2.98	5.71	0.45	1.18	62.3	5.0	49	7.53	52.4	2.46	14.05
YY13164		1.74	5.75	38.9	850	1.96	5.37	0.60	4.40	68.9	11.0	58	8.34	155.0	2.98	15.30
YY13165		0.46	4.68	38.4	710	1.55	1.50	0.48	2.46	60.3	8.1	49	5.87	51.3	2.74	12.45
YY13166		1.83	6.20	217	940	1.83	1.62	0.58	4.39	71.3	11.1	66	5.34	43.9	3.13	16.65
YY13167		28.0	5.43	284	800	1.86	11.50	0.56	3.94	65.3	6.9	59	5.76	595	3.04	14.80
YY13168		1.40	4.83	169.5	820	1.54	3.38	0.56	5.56	71.6	10.3	53	4.45	50.6	2.91	12.20
YY13169		1.18	4.85	44.0	740	1.94	1.17	0.47	4.43	63.8	6.9	53	6.66	59.7	2.83	13.25
YY13170		0.18	5.33	17.3	830	1.00	0.32	0.63	0.50	52.4	6.6	72	3.66	9.3	5.10	15.60
YY13171		0.58	6.21	12.7	1010	1.39	0.34	0.74	0.46	72.8	13.4	63	4.32	14.8	2.79	15.95
YY13172		0.30	6.72	16.0	1010	1.59	0.32	0.55	0.27	79.1	8.0	66	4.46	24.7	3.11	17.60
YY13173		0.43	5.98	11.9	880	1.44	0.28	0.47	0.23	80.4	6.4	60	3.89	18.0	2.82	15.35
YY13174		0.27	6.13	8.5	890	1.26	0.26	0.54	0.14	75.9	5.3	62	3.65	13.6	2.25	16.40
YY13175		0.63	6.30	24.6	930	1.81	1.34	0.59	1.12	75.5	11.3	74	10.40	44.6	3.17	17.20
YY13176		0.39	5.48	29.5	910	1.45	0.91	0.69	0.58	73.0	10.5	69	6.05	33.3	2.97	14.70
YY13177		0.47	5.44	47.8	870	1.31	1.35	0.82	1.32	67.1	16.3	104	11.60	50.3	3.16	14.25
YY13178		0.29	5.78	29.3	920	1.66	1.27	0.63	0.64	68.9	8.9	65	5.48	32.9	3.12	15.25
YY13179		0.23	5.42	44.5	980	1.36	3.05	0.62	0.45	70.9	8.9	59	5.47	38.3	3.07	14.15
YY13180		1.13	5.80	35.9	870	1.51	1.70	0.60	1.44	64.4	7.6	61	9.24	48.4	2.81	15.80
YY13181		1.99	6.61	52.4	950	1.81	4.02	0.54	2.32	76.2	8.4	72	12.65	101.0	3.20	18.60
YY13182		1.06	6.06	52.8	960	1.85	4.32	0.57	2.31	76.1	8.9	65	10.15	61.8	3.24	17.20
YY13183		0.76	5.53	32.6	850	1.59	0.91	0.55	1.45	61.3	9.8	59	5.00	26.7	3.32	14.80
YY13184		0.53	6.16	45.5	900	1.84	1.17	0.40	0.96	80.3	9.0	63	6.03	65.6	3.33	16.30
YY13185		1.46	5.42	67.0	820	1.40	1.57	0.59	2.58	61.2	7.7	59	5.56	66.4	2.69	14.60
YY13186		0.38	5.66	34.3	860	1.40	0.61	0.56	1.09	61.2	10.2	63	4.00	64.6	3.28	14.00
YY13187		0.91	6.81	45.3	940	2.12	0.98	0.49	5.81	97.0	15.8	69	14.90	54.2	3.63	19.05
YY13188		0.57	6.14	37.2	850	1.59	0.55	0.45	2.13	85.2	10.3	61	6.31	34.8	3.04	17.85
YY13189		0.12	5.66	27.3	850	1.27	0.29	0.48	0.94	62.7	5.9	60	5.56	15.6	2.69	15.65
YY13190		2.43	6.93	714	950	1.96	1.45	0.50	3.43	82.8	15.1	71	8.67	53.1	3.96	18.25





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**CERTIFICATE OF ANALYSIS WH20216861**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
		ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1
YY13151		0.13	2.0	0.057	1.36	44.9	42.2	0.93	450	1.10	0.83	11.7	34.4	630	12.9	94.8
YY13152		0.11	2.0	0.086	1.38	37.0	42.4	0.95	517	1.03	0.86	11.8	31.6	510	13.6	122.5
YY13153		0.11	1.5	0.168	1.30	38.4	56.9	0.65	587	1.10	0.84	11.6	38.4	290	20.2	96.1
YY13154		0.12	1.6	0.088	1.38	34.7	60.9	0.68	369	1.42	0.88	11.9	44.4	350	17.3	117.5
YY13155		0.13	1.6	0.236	1.77	56.1	120.0	0.84	1080	1.64	0.65	12.2	72.5	480	25.7	164.0
YY13156		0.17	1.5	0.352	1.44	58.3	66.4	0.69	709	0.98	0.70	11.0	31.6	490	28.2	135.5
YY13157		0.15	1.7	0.328	2.02	49.5	71.4	0.75	597	1.67	0.65	11.3	36.0	680	65.5	174.0
YY13158		0.12	1.7	0.452	1.79	43.9	58.7	0.75	460	1.35	0.83	11.3	26.8	550	119.0	139.0
YY13159		0.15	1.7	0.115	1.98	45.9	123.5	0.75	964	1.05	0.56	10.8	29.0	660	81.4	180.5
YY13160		0.13	1.8	0.396	1.67	45.4	53.0	0.62	1290	1.03	0.58	9.3	30.8	750	71.2	125.0
YY13161		0.12	1.7	0.420	2.22	45.3	60.4	0.62	334	1.70	0.69	11.2	21.5	290	41.1	161.0
YY13162		0.11	1.5	0.092	1.66	32.9	67.4	0.61	479	1.44	0.62	10.2	27.0	220	18.3	136.0
YY13163		0.11	1.4	0.227	1.29	31.8	27.9	0.40	283	1.41	0.66	8.7	15.0	450	29.3	87.5
YY13164		0.13	1.4	0.311	1.44	38.9	39.7	0.57	536	1.22	0.69	8.9	23.9	690	46.4	102.5
YY13165		0.12	1.5	0.091	1.12	34.3	37.6	0.44	362	1.11	0.74	9.3	18.9	240	17.9	81.0
YY13166		0.14	1.7	0.448	1.56	37.8	42.8	0.64	653	1.13	0.75	10.3	21.0	750	91.0	97.4
YY13167		0.13	1.6	7.21	1.38	34.6	31.4	0.55	500	1.28	0.76	9.3	16.5	950	190.0	93.5
YY13168		0.11	1.7	0.280	1.26	36.1	30.4	0.54	596	0.99	0.77	9.5	22.3	660	66.0	77.1
YY13169		0.11	1.4	1.315	1.40	35.0	31.3	0.51	543	0.89	0.64	9.8	20.4	550	175.0	94.3
YY13170		0.11	1.8	0.053	1.14	27.4	29.6	0.60	380	1.98	0.93	11.9	16.0	730	37.1	65.1
YY13171		0.15	1.8	0.074	1.43	38.3	55.0	0.64	565	1.00	0.86	10.3	24.1	920	30.0	82.2
YY13172		0.13	1.9	0.080	1.87	40.5	43.5	0.65	333	1.32	0.87	10.6	24.2	800	31.1	103.0
YY13173		0.13	1.8	0.056	1.56	42.0	36.6	0.58	241	1.03	0.78	10.3	18.6	740	33.6	85.7
YY13174		0.11	2.0	0.045	1.56	38.7	34.0	0.57	207	0.88	0.91	11.0	16.8	660	20.0	82.3
YY13175		0.13	1.8	0.132	1.54	39.0	47.6	0.70	480	1.30	0.84	11.0	29.0	500	49.4	113.0
YY13176		0.15	1.7	0.108	1.31	38.6	40.2	0.73	493	1.17	0.88	11.2	32.5	540	47.1	84.2
YY13177		0.12	1.6	0.120	1.22	35.5	42.0	1.03	503	1.19	0.81	11.4	61.0	820	31.9	89.5
YY13178		0.11	1.9	0.103	1.29	35.8	36.8	0.65	363	1.24	0.89	11.0	22.9	400	28.9	83.5
YY13179		0.13	1.9	0.152	1.24	36.6	35.2	0.65	385	1.13	0.90	10.8	23.9	270	21.2	79.8
YY13180		0.11	1.6	0.145	1.39	33.3	38.2	0.63	320	1.19	0.88	10.0	22.0	380	37.4	98.7
YY13181		0.14	1.5	0.196	1.68	41.1	57.3	0.79	357	1.25	0.80	11.1	27.3	350	78.9	134.0
YY13182		0.15	1.8	0.386	1.55	36.7	45.3	0.74	470	1.30	0.78	11.3	24.5	380	55.0	114.0
YY13183		0.11	1.6	0.322	1.35	32.3	37.2	0.59	421	1.17	0.80	10.4	21.7	650	70.9	101.5
YY13184		0.13	1.9	0.416	1.71	40.6	40.6	0.68	381	1.15	0.74	11.8	25.6	310	51.6	106.5
YY13185		0.12	1.7	0.557	1.31	33.3	31.6	0.61	460	1.26	0.85	10.0	18.4	710	70.9	90.7
YY13186		0.12	1.7	0.261	1.20	31.4	33.2	0.63	395	1.38	0.93	10.5	23.0	340	32.4	75.4
YY13187		0.14	1.7	0.606	2.08	51.8	54.9	0.82	1010	1.20	0.62	11.8	29.2	510	113.5	164.0
YY13188		0.13	1.8	0.266	1.86	40.4	35.7	0.58	592	1.07	0.73	11.5	20.6	450	75.1	114.0
YY13189		0.10	1.8	0.067	1.52	31.6	28.3	0.59	316	1.04	0.82	11.4	17.3	290	27.8	105.5
YY13190		0.14	1.7	0.484	1.78	44.4	47.5	0.68	1020	1.20	0.72	10.5	23.8	670	348	122.5



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**CERTIFICATE OF ANALYSIS WH20216861**

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
Units		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOD		0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1	0.1
YY13151		<0.002	0.02	1.16	10.8	<1	5.0	148.5	0.82	0.07	12.15	0.386	0.83	3.0	107	4.1
YY13152		<0.002	0.01	0.96	10.6	<1	6.2	150.0	0.81	0.06	10.05	0.380	0.97	2.3	107	2.7
YY13153		<0.002	0.01	1.01	10.0	<1	5.3	133.0	0.83	0.06	10.50	0.384	0.91	2.2	95	3.0
YY13154		<0.002	0.02	1.26	10.1	<1	3.8	132.0	0.80	0.06	9.52	0.388	0.90	2.3	109	2.4
YY13155		<0.002	0.03	1.59	13.0	1	11.6	124.0	0.86	0.08	15.80	0.380	1.59	4.5	98	9.4
YY13156		<0.002	0.03	1.19	11.3	<1	8.0	133.5	0.74	<0.05	13.60	0.348	1.06	2.8	91	3.7
YY13157		<0.002	0.04	1.12	13.3	<1	11.9	125.0	0.70	0.06	15.10	0.326	1.62	3.5	105	3.0
YY13158		<0.002	0.02	0.92	11.8	<1	8.7	144.5	0.74	0.05	12.05	0.344	1.21	2.7	106	2.4
YY13159		<0.002	0.03	1.00	11.1	<1	7.6	123.5	0.73	<0.05	15.60	0.333	1.58	4.4	81	6.1
YY13160		<0.002	0.05	0.87	10.4	1	8.2	140.5	0.66	0.05	11.65	0.292	1.10	4.6	80	2.7
YY13161		<0.002	0.02	1.01	12.6	1	11.0	127.5	0.76	0.05	12.20	0.364	1.66	3.3	112	3.5
YY13162		<0.002	0.01	1.21	8.7	1	8.9	92.3	0.76	<0.05	11.10	0.348	1.27	1.8	93	3.5
YY13163		<0.002	0.03	0.79	7.5	1	7.2	107.5	0.64	0.06	8.57	0.314	0.99	2.1	84	6.6
YY13164		<0.002	0.05	1.00	9.3	1	8.5	126.0	0.64	0.05	10.20	0.304	1.09	3.1	85	3.5
YY13165		<0.002	0.01	1.05	7.4	1	3.2	109.0	0.69	0.05	7.46	0.343	0.65	2.1	88	1.8
YY13166		<0.002	0.05	1.30	10.6	1	8.0	128.5	0.71	0.05	10.65	0.344	0.80	2.5	103	2.1
YY13167		<0.002	0.04	1.16	9.3	1	12.7	120.0	0.67	0.05	10.35	0.330	0.81	2.8	92	2.0
YY13168		<0.002	0.02	1.21	8.3	1	4.6	116.0	0.70	0.06	10.65	0.349	0.63	2.5	85	1.5
YY13169		<0.002	0.02	1.32	8.0	<1	12.4	101.0	0.75	<0.05	11.15	0.339	0.78	2.2	77	3.0
YY13170		<0.002	0.02	1.28	9.2	2	2.0	131.0	0.84	0.07	6.86	0.417	0.52	2.0	142	1.4
YY13171		0.002	0.06	0.92	10.9	2	2.5	150.5	0.71	<0.05	9.67	0.346	0.62	2.4	101	1.4
YY13172		<0.002	0.02	1.58	11.4	1	2.6	142.0	0.73	0.06	10.40	0.345	0.66	2.5	109	1.6
YY13173		<0.002	0.04	0.89	10.3	1	2.4	121.5	0.73	0.06	10.55	0.370	0.61	2.6	91	1.6
YY13174		<0.002	0.02	0.73	10.3	1	2.1	139.0	0.80	<0.05	9.24	0.376	0.60	2.4	98	1.4
YY13175		<0.002	0.01	0.89	10.6	1	7.1	131.5	0.76	0.05	9.56	0.365	0.98	2.5	106	3.0
YY13176		<0.002	0.01	1.12	9.6	1	5.7	137.5	0.76	<0.05	8.99	0.386	0.75	2.1	99	2.0
YY13177		<0.002	0.03	0.95	10.3	1	7.0	138.5	0.96	<0.05	8.08	0.392	0.95	2.3	100	7.7
YY13178		<0.002	0.01	1.04	9.9	1	6.2	134.5	0.78	0.05	9.37	0.390	0.75	2.4	109	2.4
YY13179		<0.002	0.01	1.13	9.5	1	10.2	134.5	0.80	0.05	9.71	0.384	0.80	2.5	103	2.7
YY13180		<0.002	0.02	0.99	9.6	<1	7.2	133.5	0.70	0.05	8.26	0.342	0.92	2.2	99	2.0
YY13181		<0.002	0.02	0.87	10.6	1	9.3	129.0	0.77	0.05	9.68	0.359	1.39	2.3	99	2.8
YY13182		<0.002	0.02	1.00	9.8	1	9.3	124.0	0.82	<0.05	10.30	0.393	1.14	2.3	99	3.0
YY13183		<0.002	0.01	0.96	8.7	1	6.0	124.0	0.78	<0.05	8.50	0.368	0.71	1.9	95	1.8
YY13184		<0.002	0.01	1.06	10.0	1	6.7	110.0	0.86	0.06	12.00	0.402	0.86	2.5	95	2.3
YY13185		<0.002	0.03	0.86	9.2	1	7.3	130.5	0.67	<0.05	9.04	0.357	0.76	2.4	94	1.8
YY13186		<0.002	0.01	1.15	9.5	1	2.6	132.5	0.79	<0.05	8.98	0.377	0.58	2.3	107	1.5
YY13187		<0.002	0.02	0.97	11.0	1	11.4	120.0	0.84	0.05	13.80	0.370	1.34	2.7	92	2.8
YY13188		<0.002	0.01	0.84	9.6	1	5.3	118.0	0.87	<0.05	12.00	0.396	0.91	2.3	94	2.0
YY13189		<0.002	0.02	0.92	9.1	1	3.5	119.5	0.79	<0.05	9.40	0.400	0.74	2.1	97	1.6
YY13190		<0.002	0.02	1.84	10.8	1	11.3	125.5	0.72	<0.05	12.55	0.338	0.87	3.1	98	2.3



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61
		Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
YY13151		16.2	142	70.0
YY13152		13.6	138	63.1
YY13153		10.3	666	53.5
YY13154		9.4	285	60.6
YY13155		14.8	598	59.7
YY13156		19.8	633	58.6
YY13157		15.5	523	64.3
YY13158		13.8	764	60.8
YY13159		17.3	516	63.2
YY13160		17.1	2130	60.9
YY13161		10.2	425	67.1
YY13162		8.7	461	55.9
YY13163		8.2	238	59.4
YY13164		13.5	700	57.1
YY13165		13.1	250	53.4
YY13166		11.2	514	66.2
YY13167		11.7	344	60.0
YY13168		12.9	451	63.2
YY13169		11.2	761	56.7
YY13170		10.6	159	69.9
YY13171		13.2	153	67.0
YY13172		12.2	108	70.9
YY13173		11.6	72	71.4
YY13174		11.2	58	75.3
YY13175		12.1	259	64.8
YY13176		12.5	177	66.1
YY13177		12.9	200	65.6
YY13178		13.0	136	77.0
YY13179		14.4	141	69.8
YY13180		10.9	225	59.6
YY13181		11.9	358	57.9
YY13182		13.0	408	70.1
YY13183		9.4	408	60.2
YY13184		12.1	382	71.8
YY13185		11.0	452	63.1
YY13186		10.6	339	62.8
YY13187		14.8	834	66.4
YY13188		10.0	376	66.1
YY13189		10.1	196	67.9
YY13190		12.1	951	67.2



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm
		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
YY13191		0.21	5.85	102.5	840	1.68	0.36	0.51	3.10	75.0	10.4	62	7.74	32.2	3.10	16.30
YY13192		0.40	6.16	31.7	820	1.61	0.50	0.45	3.92	80.2	9.5	66	5.99	22.3	2.88	17.20
YY13193		1.80	7.19	38.6	940	2.12	0.56	0.53	5.36	95.0	15.3	71	7.50	41.8	3.38	18.30
YY13194		0.20	6.74	36.2	880	1.78	1.44	0.49	0.62	86.7	10.8	71	5.63	37.3	3.25	17.80
YY13195		0.13	5.75	19.3	890	1.62	0.28	0.56	0.54	76.7	10.8	66	3.87	26.8	3.11	13.95
YY13196		0.07	5.93	30.3	950	1.70	0.28	0.47	0.21	85.6	9.6	59	4.09	23.4	2.84	15.25
YY13197		0.11	5.92	20.4	930	1.51	0.28	0.64	0.17	79.3	9.4	66	4.03	21.9	2.77	15.70
YY13198		0.20	4.96	20.2	790	1.20	0.23	0.67	0.42	65.1	6.2	57	3.71	15.7	2.28	12.90
YY13199		0.68	7.20	25.6	1040	2.15	0.37	1.14	1.29	92.8	13.3	74	8.20	33.4	3.18	18.75
YY13200		0.27	6.27	15.0	940	1.62	0.19	0.53	0.40	77.4	8.1	66	5.17	18.6	2.64	17.05
YY13201		0.17	6.28	17.6	980	1.73	0.25	0.65	0.29	85.3	9.4	70	5.00	26.4	3.11	16.40
YY13202		0.68	7.39	42.6	1080	2.07	0.31	0.56	1.74	77.1	7.7	78	9.82	27.0	2.97	20.4
YY13203		0.24	6.31	16.9	960	1.75	0.28	0.58	0.73	80.9	11.5	66	6.37	24.8	2.77	16.85
YY13204		0.63	7.65	44.1	1100	2.16	0.43	0.84	2.11	94.8	16.8	80	7.65	36.1	3.51	19.90
YY13205		1.65	7.52	183.5	1060	3.06	0.59	0.74	4.88	113.5	16.2	74	13.45	60.0	4.03	21.8
YY13206		0.42	7.04	99.2	930	2.61	0.75	1.35	3.53	91.0	14.3	70	19.30	53.2	3.67	19.25
YY13207		0.41	9.13	146.0	1120	3.35	0.73	1.05	1.34	95.5	24.1	90	37.9	61.8	4.66	25.3
YY13208		0.17	5.95	58.5	900	1.60	0.41	0.77	1.21	83.3	13.0	60	14.00	25.1	3.19	16.10
YY13209		0.46	8.46	34.4	1160	2.48	0.42	0.52	1.54	108.5	14.0	79	14.80	30.0	3.57	24.3
YY13210		0.19	6.33	55.4	970	1.96	0.59	0.69	1.62	97.7	12.1	62	7.69	31.9	3.09	17.45
YY13211		0.21	7.97	83.5	1040	2.60	0.73	0.42	1.26	105.5	13.6	77	9.71	41.0	3.67	21.0
YY13212		0.44	7.01	49.3	930	1.97	0.78	0.58	1.64	87.4	11.2	69	11.60	32.2	3.41	18.45
YY13213		0.77	10.65	111.5	1090	3.30	0.75	0.33	4.17	135.5	24.9	103	19.70	62.6	5.38	29.2
YY13214		0.29	5.73	59.0	860	1.37	0.35	0.61	1.33	68.2	10.8	61	6.58	24.6	2.95	14.25
YY13215		0.36	5.87	50.2	890	1.32	0.52	0.80	2.52	72.1	9.7	65	9.57	23.1	3.30	15.55
YY13216		1.29	6.10	54.2	930	2.53	0.55	0.59	1.31	69.6	8.6	67	6.99	34.1	3.29	15.50
YY13217		0.35	7.49	32.7	1080	2.28	0.42	1.54	2.33	99.8	22.0	70	28.9	38.2	4.80	21.6
YY13218		0.23	5.47	42.5	880	1.53	0.25	0.54	1.32	88.2	9.1	58	6.76	28.7	3.12	14.15
YY13219		0.56	6.18	36.9	900	1.63	0.39	0.51	1.54	73.5	14.7	64	5.84	20.1	3.38	16.35
YY13220		0.52	6.14	44.2	940	1.39	0.27	0.54	1.11	78.8	7.3	63	4.83	16.7	2.96	16.55
YY13221		0.73	6.65	28.6	1070	1.69	0.27	0.58	2.73	74.1	10.5	73	5.93	23.2	3.38	16.85
YY13222		1.83	6.72	156.0	980	1.82	0.46	0.56	2.40	78.4	9.9	71	9.49	34.8	3.52	17.40
YY13223		1.29	6.30	55.1	900	1.54	0.32	0.47	0.78	75.0	6.2	65	7.14	22.9	2.96	17.00
YY13224		0.57	7.66	78.0	990	1.99	0.43	0.50	1.98	103.5	14.3	77	7.70	34.9	3.51	20.2
YY13225		0.55	6.34	38.3	920	1.62	0.33	0.78	3.51	82.0	14.4	65	6.26	26.4	2.70	16.05
YY13226		0.43	5.81	19.7	920	1.35	0.29	1.01	1.14	78.4	12.7	62	4.60	23.7	2.83	14.40
YY13227		0.47	6.60	21.0	1010	1.74	0.30	0.64	0.79	93.9	11.0	70	5.77	33.1	2.55	17.60
YY13228		0.17	5.39	11.1	780	1.34	0.23	0.49	0.20	79.1	7.0	59	4.07	11.3	2.49	14.60
YY13251		0.29	6.35	19.1	1170	2.36	1.83	1.07	0.54	84.9	14.4	67	13.75	52.2	3.32	17.10
YY13252		0.45	6.05	25.2	1060	1.64	0.95	0.70	0.86	84.7	11.5	73	7.69	44.4	3.14	15.60



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 Account: MTT

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**CERTIFICATE OF ANALYSIS WH20216861**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
		ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1
YY13191		0.11	1.9	0.147	1.41	41.2	37.6	0.63	451	1.16	0.76	11.7	24.5	240	36.8	95.8
YY13192		0.13	1.9	0.098	1.70	40.6	33.8	0.61	645	0.92	0.67	10.9	20.0	720	143.0	102.0
YY13193		0.14	2.2	0.129	2.15	45.1	47.6	0.80	929	0.97	0.69	11.3	32.7	710	314	125.5
YY13194		0.13	2.0	0.170	1.89	43.1	40.3	0.73	489	0.87	0.83	11.8	26.4	540	96.6	109.5
YY13195		0.17	2.0	0.063	1.35	37.3	32.7	0.64	476	1.65	0.87	11.3	27.2	460	38.2	76.1
YY13196		0.17	2.1	0.061	1.71	43.2	33.5	0.63	424	0.96	0.81	11.2	22.8	430	21.9	91.9
YY13197		0.17	2.2	0.058	1.47	40.0	33.6	0.66	381	1.17	0.93	12.9	23.5	790	27.1	82.6
YY13198		0.18	1.8	0.044	1.22	33.5	30.5	0.50	259	1.06	0.80	10.1	19.2	820	27.8	70.2
YY13199		0.18	2.2	0.107	1.97	49.3	53.5	0.69	832	1.05	0.78	11.7	34.0	570	62.1	129.0
YY13200		0.15	2.2	0.055	1.85	39.6	35.5	0.59	360	0.94	0.80	12.7	21.8	310	28.2	111.5
YY13201		0.17	2.0	0.055	1.73	43.5	37.5	0.66	342	1.11	0.88	12.8	29.1	520	28.8	104.0
YY13202		0.17	2.0	0.300	2.35	42.3	49.3	0.66	544	1.03	0.71	12.4	23.7	440	167.5	165.5
YY13203		0.16	2.1	0.109	2.11	40.9	38.7	0.63	608	0.89	0.73	13.0	25.1	760	42.4	131.5
YY13204		0.16	2.1	0.116	2.11	50.4	60.3	0.73	1160	1.16	0.73	11.3	35.7	850	49.4	135.5
YY13205		0.21	2.2	0.282	2.70	59.9	71.9	1.45	1080	0.92	0.54	14.1	43.4	650	731	201
YY13206		0.22	2.1	0.346	2.25	48.7	68.6	1.25	608	0.77	0.60	13.1	38.8	490	82.2	190.5
YY13207		0.19	2.0	0.298	3.22	55.0	74.9	1.56	910	0.82	0.53	13.9	53.8	400	107.0	251
YY13208		0.16	1.9	0.194	1.65	41.3	46.5	1.08	632	1.02	0.70	13.0	32.3	390	38.6	148.0
YY13209		0.19	2.5	0.220	2.94	55.4	49.8	0.84	538	1.22	0.71	15.0	33.0	400	40.4	212
YY13210		0.20	2.3	0.161	1.79	50.1	39.6	0.74	610	0.97	0.83	12.5	31.6	460	97.0	134.5
YY13211		0.17	2.2	0.315	2.50	54.5	48.3	0.75	557	0.99	0.72	12.8	35.3	260	76.8	181.0
YY13212		0.17	2.0	0.224	1.77	45.7	44.1	0.73	531	0.99	0.86	13.0	34.4	390	53.7	125.5
YY13213		0.22	2.9	0.181	3.39	69.9	66.3	1.02	1140	1.00	0.69	17.0	65.8	680	106.0	196.5
YY13214		0.14	1.9	0.127	1.36	34.6	31.7	0.67	451	1.05	0.84	10.9	24.6	440	37.0	90.7
YY13215		0.15	2.3	0.427	1.36	37.3	39.8	0.84	475	1.30	0.84	12.1	27.4	440	30.1	106.0
YY13216		0.15	2.1	0.362	1.38	35.8	35.9	0.71	439	1.40	0.89	12.5	24.6	280	276	108.0
YY13217		0.18	1.1	0.127	2.04	49.3	75.6	3.42	1310	0.41	0.60	12.3	56.0	900	46.0	141.5
YY13218		0.16	1.9	0.118	1.44	46.1	33.4	0.73	374	0.95	0.83	12.8	28.9	330	23.3	97.4
YY13219		0.14	1.9	0.128	1.63	36.3	35.6	0.62	696	1.12	0.83	12.7	22.4	550	60.5	114.5
YY13220		0.15	2.0	0.115	1.78	39.9	31.0	0.61	356	1.07	0.88	13.4	19.9	350	53.2	117.0
YY13221		0.14	2.1	0.140	1.80	38.0	35.0	0.68	553	1.21	0.91	13.4	29.6	340	66.3	116.5
YY13222		0.15	2.0	0.144	1.71	43.8	44.2	0.66	559	1.18	0.83	12.5	24.0	450	718	132.0
YY13223		0.16	1.9	0.086	1.70	38.8	37.8	0.61	314	1.10	0.75	11.7	21.6	410	129.5	129.0
YY13224		0.16	2.3	0.093	2.26	54.4	50.8	0.72	646	1.16	0.72	11.8	30.5	510	136.5	141.0
YY13225		0.14	2.0	0.084	1.59	43.2	51.3	0.61	869	0.96	0.77	10.6	26.9	470	61.3	99.4
YY13226		0.14	2.1	0.064	1.50	39.4	39.9	0.61	843	1.15	0.75	10.5	25.7	800	32.9	92.9
YY13227		0.15	1.9	0.079	1.84	46.3	40.2	0.61	643	0.87	0.77	11.6	24.2	710	43.3	117.5
YY13228		0.14	1.7	0.047	1.35	39.5	35.6	0.55	255	0.84	0.82	12.3	18.9	560	23.1	80.8
YY13251		0.18	2.2	0.087	1.55	44.2	56.8	1.07	517	1.25	0.82	13.2	41.1	610	16.9	124.5
YY13252		0.15	2.2	0.114	1.41	42.3	40.7	0.76	428	1.44	0.91	12.9	36.8	510	36.9	97.3



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**CERTIFICATE OF ANALYSIS WH20216861**

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
Units		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOD		0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1	0.1
YY13191		<0.002	0.01	1.26	9.7	1	4.1	123.0	0.85	<0.05	13.30	0.385	0.80	2.5	96	4.1
YY13192		<0.002	0.02	1.48	10.4	1	4.3	117.5	0.78	<0.05	11.00	0.355	0.71	2.3	93	2.4
YY13193		<0.002	0.02	1.21	11.7	1	6.1	132.0	0.82	0.07	13.70	0.374	0.89	3.3	93	2.1
YY13194		<0.002	0.01	1.10	11.5	1	6.4	134.0	0.84	0.05	12.25	0.399	0.89	2.7	98	2.8
YY13195		<0.002	0.01	1.50	10.5	1	2.4	131.0	0.81	<0.05	10.85	0.378	0.61	2.4	109	1.4
YY13196		<0.002	0.01	1.66	11.1	1	2.2	130.5	0.79	0.05	11.15	0.348	0.62	2.4	95	1.6
YY13197		<0.002	0.01	1.22	11.7	1	2.6	144.5	0.90	0.05	10.40	0.409	0.62	2.7	111	1.7
YY13198		<0.002	0.03	0.91	9.0	1	1.8	127.0	0.70	<0.05	8.28	0.346	0.54	2.1	95	1.4
YY13199		<0.002	0.04	1.36	13.6	1	4.4	181.5	0.77	0.05	13.60	0.320	0.97	4.0	103	2.0
YY13200		<0.002	0.01	1.20	10.9	1	2.6	128.0	0.91	<0.05	10.60	0.384	0.88	2.3	102	2.3
YY13201		0.002	0.02	1.15	11.4	1	2.0	145.0	0.90	<0.05	12.05	0.400	0.75	2.7	102	1.9
YY13202		<0.002	0.03	1.31	12.5	1	13.5	133.0	0.76	0.07	11.30	0.356	1.41	2.6	105	3.1
YY13203		<0.002	0.03	0.99	11.3	1	3.8	130.0	0.90	0.05	12.80	0.381	0.90	2.7	88	2.5
YY13204		<0.002	0.06	1.18	14.3	1	4.3	167.0	0.75	0.05	14.60	0.308	0.94	3.6	102	2.2
YY13205		0.002	0.02	3.26	14.6	1	14.8	114.5	0.97	<0.05	19.75	0.381	1.63	3.0	94	6.4
YY13206		<0.002	0.03	2.23	13.3	1	13.9	161.0	0.86	<0.05	16.40	0.357	1.65	3.1	89	3.8
YY13207		<0.002	0.02	1.79	17.2	1	20.5	165.0	0.84	0.05	19.30	0.329	2.65	3.1	112	3.5
YY13208		<0.002	0.01	1.40	10.8	1	16.5	134.5	0.98	0.06	11.80	0.389	1.38	2.2	91	2.7
YY13209		0.003	0.01	1.19	14.6	1	12.3	155.0	1.00	<0.05	15.30	0.406	1.67	2.5	109	3.4
YY13210		<0.002	0.01	1.33	11.9	1	9.5	155.0	0.86	<0.05	14.30	0.356	1.18	2.7	97	3.1
YY13211		<0.002	0.01	1.63	13.5	1	10.1	138.5	0.85	<0.05	17.25	0.354	1.43	2.7	104	3.7
YY13212		<0.002	0.01	1.06	11.7	1	10.5	151.5	0.89	0.05	13.10	0.374	1.39	2.5	98	2.0
YY13213		<0.002	0.13	1.64	18.2	1	11.9	201	1.19	0.05	21.2	0.404	1.64	3.4	100	3.2
YY13214		<0.002	0.01	1.14	9.7	1	4.7	135.0	0.75	0.05	10.25	0.363	0.80	2.2	98	1.8
YY13215		<0.002	0.01	1.05	10.0	1	11.2	144.0	0.84	<0.05	9.94	0.389	1.02	2.2	108	2.5
YY13216		<0.002	0.01	1.43	10.0	1	9.5	133.5	0.86	<0.05	10.75	0.403	0.90	2.4	111	2.0
YY13217		<0.002	0.01	1.24	14.3	1	27.5	168.0	0.90	0.06	15.95	0.393	2.18	2.3	101	1.9
YY13218		<0.002	0.01	1.27	9.7	1	5.9	124.0	0.93	0.05	11.45	0.397	0.81	2.1	93	2.0
YY13219		<0.002	0.01	1.23	10.3	1	3.9	124.5	0.88	0.05	11.15	0.398	0.76	2.2	106	2.0
YY13220		<0.002	0.01	1.23	10.2	1	4.0	133.0	0.98	<0.05	10.80	0.417	0.76	2.2	102	2.0
YY13221		<0.002	0.01	1.57	10.3	1	4.7	139.0	0.92	0.05	12.20	0.438	0.84	2.3	110	3.0
YY13222		<0.002	0.02	1.98	11.1	1	9.8	133.5	0.85	0.06	11.25	0.381	1.00	2.7	105	2.7
YY13223		<0.002	0.01	1.37	10.9	1	6.0	123.5	0.77	<0.05	10.25	0.343	1.00	2.4	101	2.5
YY13224		<0.002	0.02	1.22	12.7	1	4.1	138.0	0.82	0.07	14.30	0.336	0.97	3.1	97	2.0
YY13225		<0.002	0.03	1.07	11.4	1	3.3	156.5	0.70	<0.05	11.20	0.316	0.79	3.4	93	2.5
YY13226		<0.002	0.05	0.89	10.9	1	2.7	166.5	0.73	0.06	10.70	0.321	0.62	3.2	90	1.5
YY13227		<0.002	0.03	0.80	12.4	1	3.0	147.0	0.85	0.06	11.15	0.331	0.78	2.7	94	1.9
YY13228		<0.002	0.02	0.80	10.0	1	1.9	124.5	0.82	0.05	9.86	0.376	0.59	2.0	91	1.6
YY13251		<0.002	0.01	1.29	11.8	<1	7.0	159.0	0.90	0.07	12.40	0.391	1.05	2.6	111	4.6
YY13252		<0.002	0.01	1.26	11.0	1	5.4	145.0	0.87	0.06	11.15	0.406	0.90	2.6	112	2.1





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**CERTIFICATE OF ANALYSIS WH20216861**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61
		Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
YY13191		11.8	825	73.2
YY13192		11.5	357	73.3
YY13193		13.2	787	84.2
YY13194		12.6	435	76.7
YY13195		11.9	195	66.4
YY13196		12.9	85	68.3
YY13197		13.6	96	71.6
YY13198		10.6	102	62.1
YY13199		15.4	264	69.7
YY13200		11.1	96	69.5
YY13201		14.3	80	71.0
YY13202		12.6	261	66.9
YY13203		12.4	129	68.8
YY13204		15.3	378	67.9
YY13205		25.8	842	72.9
YY13206		20.1	578	67.8
YY13207		26.6	461	67.5
YY13208		15.5	319	60.0
YY13209		15.9	268	83.7
YY13210		16.0	372	72.1
YY13211		13.2	390	76.3
YY13212		14.4	486	64.5
YY13213		18.6	1400	90.5
YY13214		11.7	342	64.9
YY13215		13.0	833	64.9
YY13216		12.8	452	69.5
YY13217		28.6	447	35.0
YY13218		14.1	199	71.8
YY13219		11.6	303	65.0
YY13220		11.3	197	64.6
YY13221		12.2	317	68.2
YY13222		14.1	454	65.1
YY13223		11.6	223	67.0
YY13224		12.3	488	71.5
YY13225		15.6	381	65.9
YY13226		13.6	162	82.4
YY13227		13.7	107	62.3
YY13228		11.5	66	58.2
YY13251		19.2	152	72.9
YY13252		14.3	206	71.1



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
Units		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
LOD		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
YY13253		0.25	5.12	17.9	870	1.06	0.61	0.64	0.46	66.2	8.5	57	4.31	23.3	2.73	12.05
YY13254		0.14	5.94	24.1	1000	1.50	1.10	0.70	0.46	75.1	10.2	64	5.96	32.7	3.04	15.15
YY13255		1.19	4.90	15.4	730	1.24	0.53	0.54	0.68	65.2	8.9	54	4.56	14.9	2.60	12.25
YY13256		0.21	5.23	23.7	790	1.25	1.05	0.63	0.99	72.1	9.5	56	6.94	23.2	2.77	13.45
YY13257		1.86	6.16	28.2	860	1.34	1.77	0.54	2.32	63.4	8.0	65	6.68	38.4	3.29	16.65
YY13258		1.18	6.65	39.7	900	2.19	2.20	0.63	5.39	72.0	18.2	66	9.24	47.3	3.48	17.25
YY13259		1.96	6.63	61.3	950	1.96	3.00	0.55	2.26	70.6	15.1	71	9.61	124.0	3.43	17.20
YY13260		1.11	8.07	38.9	930	3.40	3.42	0.31	2.93	115.5	19.5	78	21.6	112.5	3.96	21.8
YY13261		1.93	7.62	53.1	1020	2.19	1.61	0.47	3.87	73.9	12.4	77	19.05	75.6	3.91	20.6
YY13262		1.53	7.02	30.8	870	2.34	2.95	0.45	1.64	75.3	14.9	76	9.75	75.0	4.06	18.05
YY13263		2.61	5.51	74.3	800	2.15	1.60	1.19	26.0	78.9	12.5	56	9.00	759	2.65	14.15
YY13264		0.16	4.45	21.9	680	1.16	2.96	0.42	0.62	56.9	3.5	51	3.67	25.0	2.20	14.25
YY13265		3.24	6.35	228	920	4.32	6.03	0.56	12.70	90.4	21.9	64	9.21	399	3.40	15.95
YY13266		2.13	6.38	200	860	2.60	1.36	0.88	51.6	88.9	17.6	68	8.93	84.1	3.51	16.55
YY13267		2.32	5.90	173.0	900	1.74	1.77	1.16	58.4	67.1	21.1	65	8.38	88.5	3.30	15.00
YY13268		1.33	6.62	109.0	950	1.52	0.77	0.86	6.23	79.7	9.2	68	6.79	31.5	2.92	16.60
YY13269		1.27	8.19	94.4	1010	2.20	0.79	0.50	2.02	113.5	14.2	78	8.53	34.8	3.90	21.5
YY13270		0.63	6.11	27.4	870	1.47	0.44	0.49	1.16	86.3	12.6	63	4.92	22.3	3.03	15.50
YY13271		0.23	5.22	11.3	860	1.10	0.29	0.62	0.40	62.2	5.2	57	3.03	13.9	1.98	13.60
YY13272		0.19	5.01	15.4	810	1.08	0.27	0.57	0.31	65.9	8.6	58	2.82	13.6	2.54	12.40
YY13273		0.14	5.95	18.5	930	1.22	0.36	0.64	0.21	67.9	7.0	66	3.72	16.9	2.71	15.55
YY13274		0.12	4.80	6.8	700	1.09	0.19	0.41	0.10	73.9	3.1	50	3.08	7.4	1.53	13.20
YY13275		1.00	5.06	19.8	810	1.22	1.42	0.69	2.34	65.0	5.9	58	5.64	37.2	2.23	13.00
YY13276		0.86	5.30	25.7	910	1.55	1.53	1.22	5.07	75.5	12.9	63	7.52	69.1	2.87	13.20
YY13277		0.77	4.95	17.6	840	1.45	1.97	0.79	2.99	78.1	11.5	59	5.60	62.8	2.47	12.10
YY13278		0.34	5.22	27.2	790	3.29	1.82	0.60	2.91	62.5	17.5	60	6.94	50.8	3.42	13.75
YY13279		0.37	5.94	37.7	870	1.58	2.68	0.62	1.55	70.7	17.8	71	7.31	60.9	3.44	15.00
YY13280		0.36	5.64	51.8	980	1.39	10.85	0.52	0.67	62.2	9.4	65	9.77	108.0	5.37	14.80
YY13281		0.34	5.18	24.9	890	1.21	25.1	0.59	1.05	66.2	7.5	61	11.75	72.1	4.60	14.75
YY13282		0.17	4.92	21.3	870	1.78	1.12	0.63	0.66	65.7	9.1	53	4.34	28.0	2.75	12.20
YY13283		0.44	6.74	49.9	1030	2.98	0.98	0.70	3.26	82.5	12.4	68	6.15	61.5	3.30	16.85
YY13284		0.42	5.56	25.1	900	2.60	0.51	0.63	1.05	68.5	10.2	60	4.58	41.3	3.12	14.20
YY13285		0.50	5.58	38.9	880	1.54	4.48	0.63	0.72	62.2	6.7	64	5.83	34.2	3.30	14.65
YY13286		0.17	5.25	12.1	840	1.07	0.21	0.64	0.41	56.6	4.5	58	3.02	16.0	2.12	14.10
YY13287		0.16	5.58	29.0	840	1.22	0.29	0.55	0.38	61.6	5.6	64	3.22	23.5	2.73	13.70
YY13288		0.19	6.45	44.2	920	1.62	0.38	0.50	0.80	83.8	10.5	67	4.80	26.9	3.30	15.75
YY13289		0.09	4.95	15.1	850	1.13	0.21	0.70	0.29	63.6	6.4	56	3.05	14.4	2.76	12.00
YY13290		0.11	5.31	19.5	810	0.97	0.24	0.56	0.21	58.6	5.2	62	3.12	11.2	3.14	14.80
YY13291		0.05	4.40	13.5	690	0.82	0.19	0.38	0.24	61.1	3.8	49	2.67	7.5	2.38	12.75
YY13292		0.05	5.47	13.6	860	1.18	0.19	0.70	0.17	62.7	8.6	60	2.82	26.7	2.90	12.45



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**CERTIFICATE OF ANALYSIS WH20216861**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
		ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1
YY13253		0.15	1.7	0.058	1.15	34.5	29.6	0.60	388	1.01	0.89	10.6	21.2	390	19.1	73.5
YY13254		0.14	1.8	0.115	1.48	38.1	38.1	0.73	383	1.00	0.90	11.9	29.7	440	19.5	95.9
YY13255		0.15	1.5	0.059	1.16	32.5	35.1	0.50	293	0.92	0.90	10.9	21.2	260	14.4	93.9
YY13256		0.13	1.7	0.082	1.38	36.4	34.7	0.61	622	0.89	0.78	12.1	24.3	410	18.8	98.2
YY13257		0.14	1.7	0.276	1.63	32.9	36.6	0.61	571	1.30	0.77	11.2	22.7	520	66.2	109.5
YY13258		0.15	1.7	0.327	1.57	34.9	60.6	0.68	1460	1.33	0.80	11.5	32.4	480	79.4	107.5
YY13259		0.15	1.8	0.562	1.65	38.4	47.0	0.71	560	1.70	0.83	11.3	24.7	380	170.5	121.5
YY13260		0.18	2.2	0.275	2.31	57.8	123.5	0.95	958	0.96	0.51	13.6	42.3	370	33.6	201
YY13261		0.14	2.1	0.526	2.27	38.7	55.1	0.83	842	1.24	0.63	14.3	26.9	420	136.5	203
YY13262		0.15	1.7	0.159	1.61	38.0	87.0	0.69	426	1.48	0.69	13.1	35.5	390	99.2	116.5
YY13263		0.21	1.4	0.367	1.54	56.3	39.1	0.57	1110	0.83	0.47	7.9	34.3	730	97.6	116.0
YY13264		0.11	1.6	0.073	1.07	28.8	17.5	0.35	233	1.01	0.70	10.5	10.1	340	15.6	54.3
YY13265		0.16	1.7	1.025	1.82	45.7	45.0	0.73	2040	1.47	0.62	10.1	37.5	580	287	130.5
YY13266		0.19	2.0	0.720	1.85	48.9	38.9	0.66	2330	0.87	0.67	10.0	36.7	650	221	135.5
YY13267		0.16	1.6	1.705	1.65	39.4	35.7	0.61	1960	1.07	0.69	9.0	33.0	680	234	121.0
YY13268		0.16	1.9	0.256	1.91	41.7	40.8	0.66	527	0.73	0.68	10.3	26.5	750	144.5	127.0
YY13269		0.19	2.3	0.257	2.60	60.1	55.1	0.76	899	0.99	0.56	11.9	28.8	720	155.5	162.5
YY13270		0.16	2.4	0.140	1.79	43.8	38.4	0.61	653	0.94	0.68	11.8	21.9	710	66.3	103.0
YY13271		0.14	1.7	0.055	1.26	31.5	28.0	0.54	210	0.83	0.86	10.7	17.8	760	30.8	69.0
YY13272		0.16	1.7	0.054	1.22	33.0	25.8	0.55	394	1.03	0.83	10.6	17.9	770	24.8	67.0
YY13273		0.13	1.9	0.069	1.44	33.9	30.1	0.59	395	1.12	0.92	11.4	19.1	950	28.8	78.5
YY13274		0.15	1.7	0.035	1.36	38.0	21.1	0.39	155	0.84	0.70	10.0	9.8	700	19.0	70.1
YY13275		0.15	2.0	0.134	1.20	35.2	32.5	0.57	239	0.71	0.83	9.9	21.4	600	26.2	71.0
YY13276		0.18	1.7	0.186	1.30	41.4	44.4	0.72	464	0.87	0.81	10.6	37.9	830	25.1	85.5
YY13277		0.16	1.6	0.387	1.24	39.8	35.7	0.64	379	0.97	0.82	10.4	31.5	720	28.6	75.0
YY13278		0.13	1.7	0.169	1.21	31.8	33.2	0.57	603	1.29	0.85	10.8	23.2	500	33.3	81.1
YY13279		0.13	1.9	0.328	1.54	35.1	41.2	0.72	862	1.17	0.83	12.2	29.2	660	47.3	101.0
YY13280		0.12	1.7	0.221	1.49	32.9	30.3	0.66	487	1.54	0.81	9.7	24.3	780	46.6	92.9
YY13281		0.14	1.7	0.227	1.32	34.0	27.0	0.61	453	1.56	0.84	10.0	18.0	760	39.6	93.6
YY13282		0.11	1.6	0.137	1.15	33.6	28.1	0.66	436	0.91	0.85	10.1	23.6	530	25.6	67.3
YY13283		0.15	1.9	0.203	1.80	43.0	40.8	0.78	711	1.02	0.83	11.9	31.0	520	110.0	117.0
YY13284		0.11	2.1	0.175	1.22	34.0	34.9	0.73	546	1.12	0.83	11.4	26.5	300	84.9	76.8
YY13285		0.12	1.8	1.285	1.24	33.3	28.0	0.59	431	1.22	0.86	10.6	20.0	680	451	82.7
YY13286		0.14	1.8	0.039	1.26	29.1	19.5	0.49	225	1.03	0.99	10.7	14.3	1180	65.0	66.3
YY13287		0.13	1.8	0.064	1.29	30.8	25.3	0.56	264	1.00	0.90	10.0	17.9	850	35.9	67.8
YY13288		0.14	2.2	0.126	1.72	41.9	34.9	0.70	544	0.86	0.86	11.9	24.7	400	115.0	96.8
YY13289		0.12	1.8	0.046	1.18	32.4	24.9	0.57	349	1.23	0.87	10.2	19.0	740	63.6	59.5
YY13290		0.11	2.1	0.047	1.08	31.4	26.7	0.55	220	1.54	0.91	11.4	15.5	320	18.5	54.9
YY13291		0.13	1.9	0.045	1.04	30.9	20.9	0.42	172	1.02	0.71	10.4	11.1	450	13.7	57.3
YY13292		0.11	1.7	0.039	1.21	31.6	27.1	0.66	480	0.85	1.04	9.6	20.2	890	23.0	55.8



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
Units		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOD		0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1	0.1
YY13253		<0.002	0.01	1.02	8.2	1	3.5	132.0	0.71	<0.05	8.46	0.368	0.62	2.0	97	1.6
YY13254		<0.002	0.01	1.01	10.1	<1	7.4	147.0	0.73	0.05	9.09	0.378	0.81	2.2	106	2.3
YY13255		<0.002	0.01	0.85	7.5	<1	3.4	126.0	0.68	<0.05	8.49	0.375	0.64	1.7	87	1.7
YY13256		<0.002	0.01	0.87	8.6	<1	6.3	129.0	0.75	<0.05	8.47	0.383	0.83	1.7	84	2.6
YY13257		<0.002	0.02	0.87	9.5	1	7.3	123.5	0.72	0.05	8.56	0.355	1.12	1.8	97	2.6
YY13258		<0.002	0.02	0.85	9.7	1	8.8	144.0	0.70	<0.05	9.50	0.366	1.28	1.8	94	2.4
YY13259		<0.002	0.01	1.09	10.9	1	8.3	132.5	0.67	0.06	10.80	0.343	1.06	2.5	109	2.2
YY13260		<0.002	0.01	0.76	12.1	1	14.6	100.0	0.79	<0.05	21.0	0.337	2.53	2.4	86	4.2
YY13261		<0.002	0.02	0.95	11.8	1	12.7	123.5	0.81	0.06	12.60	0.352	1.57	2.5	100	2.9
YY13262		<0.002	0.01	1.16	10.3	1	8.5	111.5	0.81	0.05	11.50	0.399	1.33	1.8	108	3.5
YY13263		<0.002	0.09	0.92	9.4	1	7.8	171.0	0.49	<0.05	11.50	0.236	0.96	5.4	67	1.9
YY13264		<0.002	0.01	0.82	7.4	1	3.7	101.5	0.71	<0.05	6.54	0.405	0.69	1.8	98	2.2
YY13265		<0.002	0.02	1.40	10.0	1	13.3	119.5	0.67	0.06	13.70	0.322	1.22	3.2	86	3.4
YY13266		<0.002	0.03	1.24	10.3	1	16.0	148.0	0.67	0.05	14.05	0.322	1.16	5.4	83	2.4
YY13267		<0.002	0.05	1.41	9.8	1	14.0	172.0	0.57	0.05	11.85	0.294	1.03	4.9	87	1.8
YY13268		<0.002	0.05	0.98	11.0	1	9.2	142.0	0.62	<0.05	11.35	0.310	0.99	2.7	88	2.1
YY13269		<0.002	0.04	1.43	14.0	1	7.6	131.0	0.70	0.12	17.35	0.338	1.22	4.5	97	2.5
YY13270		<0.002	0.03	1.12	10.0	1	4.4	122.0	0.81	0.06	12.05	0.381	0.82	3.0	88	1.9
YY13271		<0.002	0.03	0.73	8.8	1	2.1	132.5	0.65	<0.05	7.56	0.356	0.56	2.0	94	1.2
YY13272		<0.002	0.02	0.89	8.2	1	2.2	124.0	0.68	<0.05	8.07	0.379	0.49	1.9	92	1.3
YY13273		<0.002	0.02	1.00	10.1	1	2.6	144.0	0.72	<0.05	8.62	0.382	0.64	2.1	109	1.5
YY13274		<0.002	0.03	0.60	8.5	<1	1.8	107.0	0.67	<0.05	7.84	0.334	0.51	1.8	76	1.5
YY13275		<0.002	0.05	0.61	8.9	1	6.4	137.5	0.65	<0.05	8.08	0.347	0.77	2.5	88	1.7
YY13276		<0.002	0.05	0.87	10.2	1	8.3	167.5	0.67	<0.05	10.05	0.366	0.85	3.2	86	1.6
YY13277		<0.002	0.02	0.85	8.8	1	6.5	137.0	0.68	0.05	9.09	0.375	0.66	2.4	83	1.9
YY13278		<0.002	0.02	0.99	8.6	<1	7.6	129.5	0.66	0.05	7.62	0.381	0.67	2.0	103	1.9
YY13279		<0.002	0.02	0.97	9.7	<1	14.1	126.5	0.70	0.05	10.15	0.383	0.95	2.3	102	2.6
YY13280		<0.002	0.05	1.47	9.5	1	7.9	121.0	0.59	0.06	11.00	0.337	0.92	2.7	101	2.9
YY13281		<0.002	0.13	1.06	8.7	1	13.9	126.0	0.62	<0.05	9.75	0.363	0.97	2.1	100	5.2
YY13282		<0.002	0.01	0.99	8.4	1	8.0	130.5	0.70	<0.05	8.24	0.355	0.59	2.1	90	1.5
YY13283		<0.002	0.02	1.03	10.7	1	10.2	149.5	0.68	0.05	11.60	0.348	1.04	2.4	100	2.4
YY13284		<0.002	0.01	1.17	9.6	1	7.3	134.0	0.70	<0.05	9.57	0.378	0.83	2.2	108	1.9
YY13285		<0.002	0.02	1.10	9.8	1	13.5	130.0	0.74	<0.05	8.78	0.355	0.83	2.4	104	2.1
YY13286		<0.002	0.01	0.80	9.1	1	2.2	151.0	0.68	<0.05	7.80	0.385	0.57	2.0	97	1.2
YY13287		<0.002	0.02	0.93	9.2	1	3.0	135.0	0.66	<0.05	8.38	0.361	0.58	2.2	98	1.3
YY13288		<0.002	0.01	1.07	10.2	1	5.5	136.0	0.74	<0.05	11.85	0.384	0.81	2.4	103	2.0
YY13289		<0.002	0.01	1.22	7.9	1	1.7	130.0	0.74	<0.05	9.22	0.385	0.51	2.2	108	1.5
YY13290		<0.002	0.01	1.16	8.4	1	1.8	127.0	0.84	<0.05	8.45	0.426	0.50	2.1	121	1.6
YY13291		<0.002	0.01	0.99	7.1	1	1.8	96.7	0.78	<0.05	8.20	0.398	0.49	2.0	94	1.6
YY13292		<0.002	0.01	1.29	9.0	1	1.5	146.0	0.68	<0.05	9.52	0.363	0.51	2.5	103	1.3



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 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH20216861**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61
		Y ppm	Zn ppm	Zr ppm
		0.1	2	0.5
YY13253		11.1	116	63.1
YY13254		13.6	162	65.7
YY13255		9.1	168	55.3
YY13256		9.6	149	66.0
YY13257		9.2	471	65.1
YY13258		10.1	1040	66.1
YY13259		13.0	635	64.9
YY13260		15.0	1070	62.0
YY13261		11.2	898	71.1
YY13262		9.7	843	62.4
YY13263		26.3	2060	56.6
YY13264		8.3	103	62.8
YY13265		16.2	1920	67.7
YY13266		18.9	5910	73.0
YY13267		19.3	5100	61.7
YY13268		12.0	862	71.7
YY13269		15.1	697	87.8
YY13270		13.9	365	77.9
YY13271		10.9	83	66.8
YY13272		11.1	92	68.0
YY13273		11.8	91	71.2
YY13274		9.7	38	63.7
YY13275		13.3	189	64.1
YY13276		18.2	310	66.0
YY13277		15.2	328	60.6
YY13278		12.4	268	67.8
YY13279		12.3	375	68.1
YY13280		12.1	196	65.7
YY13281		12.0	167	70.8
YY13282		14.7	187	60.0
YY13283		15.2	870	72.9
YY13284		12.8	537	79.9
YY13285		12.6	373	67.8
YY13286		10.6	84	70.9
YY13287		11.0	93	69.0
YY13288		12.4	283	76.7
YY13289		11.3	97	65.9
YY13290		9.8	55	73.8
YY13291		8.5	44	65.9
YY13292		13.0	91	66.5



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CERTIFICATE OF ANALYSIS	WH20216861
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Sample Description	Method	Analyte	Units	LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61			
					Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
					ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
					0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
YY13293					0.09	5.50	53.0	840	1.37	0.20	0.71	0.47	68.4	8.6	63	4.30	14.6	3.01	13.00
YY13294					0.29	5.32	18.9	860	1.05	0.22	0.55	0.51	65.4	8.9	59	2.91	14.9	3.42	12.60
YY13295					0.16	4.70	11.8	830	1.00	0.21	0.59	0.33	92.0	6.0	53	2.81	18.6	2.22	11.45
YY13296					0.04	6.15	15.2	890	1.50	0.26	0.51	0.15	88.2	10.1	59	3.63	23.3	3.04	14.90
YY13297					0.04	5.11	19.1	780	1.19	0.26	0.62	0.13	60.5	6.6	57	3.18	15.8	2.76	13.25
YY13298					0.04	6.13	16.9	940	1.27	0.24	0.73	0.30	65.7	10.8	72	3.53	17.2	3.83	14.35

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





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**CERTIFICATE OF ANALYSIS WH20216861**

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
Units		ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOD		0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1
YY13293		0.14	1.9	0.051	1.24	35.0	31.3	0.65	465	1.19	0.94	10.8	19.9	640	119.5	68.6
YY13294		0.13	1.9	0.046	1.10	33.9	28.8	0.63	377	1.48	0.91	10.5	22.8	360	22.4	58.7
YY13295		0.16	2.3	0.049	1.17	46.7	22.0	0.44	311	0.85	0.85	10.6	16.3	1290	30.4	54.9
YY13296		0.14	2.1	0.058	1.70	44.6	31.3	0.68	476	0.85	0.86	9.9	22.4	490	30.5	85.6
YY13297		0.13	1.7	0.054	1.08	31.7	29.3	0.60	242	0.96	0.91	10.4	18.4	530	26.3	57.4
YY13298		0.14	2.0	0.058	1.19	32.9	35.3	0.78	456	1.51	1.03	11.0	23.5	560	21.5	61.9

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**CERTIFICATE OF ANALYSIS WH20216861**

Sample Description	Method Analyte Units LOD	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
YY13293		<0.002	0.01	1.55	9.2	1	2.4	136.0	0.80	0.06	10.45	0.397	0.55	2.4	109	1.6
YY13294		<0.002	0.01	1.49	8.0	1	1.5	125.0	0.73	<0.05	9.47	0.400	0.46	1.9	114	2.4
YY13295		<0.002	0.01	1.03	7.9	1	1.8	125.5	0.77	<0.05	11.85	0.418	0.47	2.6	89	1.5
YY13296		<0.002	0.01	1.08	10.1	1	2.4	134.0	0.70	<0.05	11.75	0.332	0.62	3.0	96	1.5
YY13297		<0.002	0.01	1.09	9.2	2	1.7	130.0	0.74	<0.05	9.47	0.363	0.51	2.1	104	1.4
YY13298		<0.002	0.01	1.55	10.2	2	1.7	147.0	0.77	<0.05	10.85	0.387	0.58	2.4	129	1.5



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**CERTIFICATE OF ANALYSIS WH20216861**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61
		Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
YY13293		12.0	233	70.2
YY13294		9.7	108	77.0
YY13295		13.7	69	88.0
YY13296		13.0	93	71.9
YY13297		11.2	70	65.9
YY13298		12.2	92	67.5



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**CERTIFICATE OF ANALYSIS WH20216861**

<b>CERTIFICATE COMMENTS</b>	
	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p>
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61
	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p>
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. FND-02 ME-MS61

**APPENDIX IV**  
**ROCK SAMPLE DESCRIPTIONS**

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**Rock Sample Descriptions**

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Property: Oli

Sample Number: W590966      Date Collected: 2020-08-14      UTM: 425096 mE      Nad83, Zone 8  
Elevation: 1010 m      Sampler: Sarah Shoniker      UTM: 7071260 mN

Comments: Grab sample from subcrop of grey-green to reddish brown weathered, green-red brown fresh fine-grained actinolite (?) quartz chlorite schist with dark (manganese?) staining on fresh and weathered surface and red-orange oxide pocks. Very fine grained pyrite visible but not abundant. Orange-brown oxide and possible epidote on weathered surfaces. Mm sized actinolite (?) grains in matrix, radiating in acicular form. Numerous mm sized quartz veins parallel to foliation with small pocks of fine grained orange-red brown weathered mineral (?). Black possible pyroxene seen in one sample, similar colour to black (manganese?) staining but has bit more crystal form line actinolite (unless it's stained tremolite?). Possible subcrop down slope of OLI003. Foliation measurement of 220/26 of schist. Photos 158-161 of sample.

---

Sample Number: W590967      Date Collected: 2020-08-14      UTM: 425202 mE      Nad83, Zone 8  
Elevation: 964 m      Sampler: Sarah Shoniker      UTM: 7071407 mN

Comments: Hand pit dug on side of small North facing slope. Looks like someone's been here bashing rocks before but no sample flagging to indicate anything's been sampled. Rock is light orange-brown weathered, light yellow-orange grey fresh brecciated quartz vein. Found as rubble and at top of pit dug. Very vuggy with small euhedral crystals infilling vugs. Small clasts of chloritic schist within, some looked to be 'cooked' around edges and oxidized with a dark red brown edge, whereas within is more silicified green with some earth orange staining. Vugs are from mm to 0.5cm length. Quartz is slightly stained light yellow-orange throughout. Schist clasts are mm-cm size and subrounded. Contact schist heavily silicified and minor yellow-brown oxide throughout. One piece is red-stained on weathered surface. Photos of pit taken looking SW are 141 and 142. Photos of sample are 162-168.

---

Sample Number: W590968      Date Collected: 2020-08-14      UTM: 425204 mE      Nad83, Zone 8  
Elevation: 956 m      Sampler: Sarah Shoniker      UTM: 7071405 mN

Comments: Same pit as W590967 but bit deeper down get fractured and oxidized schist. Numerous vuggy quartz veins cross cutting fabric, heavily silicified. Dark red mineral that infills some vugs (cassiterite?) and is visible on fresh surface. Rock weathers orange-brown and is greenish-grey fresh with heavily oxidized/ stained orange to reddish brown. Possible very fine grained pyrite? And malachite staining on some pieces. Red-orange oxide infill in veins and vugs and on fresh surface as well as minor epidote. Some small (mm thin) brecciated quartz veins cross cut fabric as well. Photos of pit same as W590967. Photos of sample 169-177

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**Rock Sample Descriptions**

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Property: Oli

Sample Number: W590969 Date Collected: 2020-08-14 UTM: 425299 mE Nad83, Zone 8  
Elevation: 932 m Sampler: Sarah Shoniker UTM: 7071447 mN

Comments: Approximately 30m upslope of trench JM sampled in 2019 in 2-3m wide 75-100m long trench (Trench 1). Rock is dark grey fresh, medium grey weathered pelitic schist with quartz veins cross cutting foliation. Minor malachite visible. Earthy orange-brown mineralization/ staining quite abundant. Found on floor of old trench. Small vuggy veins infilled with red-brown oxide. Photos of sample 178-182

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Sample Number: W590970 Date Collected: 2020-08-14 UTM: 425300 mE Nad83, Zone 8  
Elevation: 934 m Sampler: Sarah Shoniker UTM: 7071443 mN

Comments: In same trench as W590969 small 20cm wide bull quartz vein in wall of trench cutting through green chlorite schist. Very heavy with fine grained metallic black mineral on rim of quartz and throughout rock as well as some fine grained silvery mineral (?). Pocks of earth red-brown to orange-brown weathered sulphide in schist. Some orange-brown to light yellow brown staining seen in quartz on weathered surface but is mostly clear. Seems to be mineralization around edges in schist. Photos of sample 183-190.

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Sample Number: W590971 Date Collected: 2020-08-14 UTM: 425484 mE Nad83, Zone 8  
Elevation: 848 m Sampler: Sarah Shoniker UTM: 7071542 mN

Comments: Chip sample approximately 0.90m of quartz vein in grey schist in outcrop directly above an old trench. Photo 148, 150 and 151 show sample and outcrop taken looking S. Sample is light red-brown grey weathered medium grey fresh with lots of earthy orange staining throughout. Dark metallic 'oil spill' black staining on surface as well. Mostly schist with small slightly stained quartz veins cutting through. Schist is heavily fractured and sometimes very heavily silicified. Some smaller veins have small euhedral quartz crystals growing into vein and slight altered rim around edges of contact with schist. Foliation measurement of schist outcrop was 091/24.

---

Sample Number: W590972 Date Collected: 2020-08-14 UTM: 425486 mE Nad83, Zone 8  
Elevation: 847 m Sampler: Sarah Shoniker UTM: 7071553 mN

Comments: Grab sample from downhill side of trench (Trench 2). See heavily silicified greenstone/ gabbro in rubble and heavily mineralized and silicified schist and minor quartzite. Sample is red-brown weathered, medium-dark grey fresh heavily oxidized and altered silicified greenstone (? Or maybe schist? Hard to tell because it's so altered and fractured). Abundant malachite and minor pyrite visible. Rock is heavily brecciated. Photos 191-195 of sample.

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**Rock Sample Descriptions**

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Property: Oli

Sample Number: W590973      Date Collected: 2020-08-14      UTM: 425487 mE      Nad83, Zone 8  
Elevation: 852 m      Sampler: Sarah Shoniker      UTM: 7071558 mN

Comments: Grab sample further down the hill from pit. Rock is buff brown- reddish grey weathered, dark grey fresh with quartz veining as well as dark red-orange alteration. Visible pyrite, chalcopryite, minor malachite grains as well. Rock is heavy and very silicified. Light yellow-green to yellow staining visible on weathered surface as well as small black spherical minerals (cassiterite?). Fractures with rust red infill throughout. Original lithology difficult to decipher but possibly biotite-muscovite schist. Some parts are so heavily silicified looks like equigranular quartzite. Photos 196-202 show sample.

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Sample Number: W590974      Date Collected: 2020-08-14      UTM: 425487 mE      Nad83, Zone 8  
Elevation: 846 m      Sampler: Sarah Shoniker      UTM: 7071559 mN

Comments: On downhill side of trench 2 had small (~0.20m) long trend of heavily altered schist (?). Weathers buff tan brown and is completely altered fresh. Has 'tiger' black and orange stained with abundant malachite and minor azurite. Possible tetrahedrite, chalcopryite and bornite visible as well. Very broken up and fractured into small pebbles/ cobbles. Photos 203-212 show sample.

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Sample Number: W590975      Date Collected: 2020-08-14      UTM: 425476 mE      Nad83, Zone 8  
Elevation: 845 m      Sampler: Sarah Shoniker      UTM: 7071568 mN

Comments: Taken from side wall of Trench 2 in outcrop on East side. Dark grey weathered, medium grey fresh pelitic schist with visible pyrite, chalcopryite, minor malachite, possible galena? Small orange weathered vuggy quartz vein with mineralization and disseminated pyrite throughout. Small bits of earthy orange oxide on weathered rim as well. Photos of sample 213-219.

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Sample Number: W590976      Date Collected: 2020-08-15      UTM: 424523 mE      Nad83, Zone 8  
Elevation: 917 m      Sampler: Sarah Shoniker      UTM: 7071026 mN

Comments: Sample taken from outcrop at Trench 6 of very vuggy and euhedral crystals of quartz in vein with schist. Quartz is light yellow-red brown weathered and lightly stained yellow to reddish orange on fresh surface. Quartz crystals are up to 1.00cm long. Contact with schist is sharp with little to no alteration/ reaction rim around it. Weathered surface has dark black-grey oxidized staining. Some vugs in vein are infilled with fine grained black mineral (goethite?) and very fine grained pyrite is visible in and around said vugs. Rock is heavy and fractured. Quartz vein is approximately 10cm wide with smaller quartz veins cross cutting foliation in schist, some of which have infilled vugs with earthy orange brown oxide. Photo 152 shows section sampled, and photos 153 and 154 show the outcrop, taken looking to the South. Photos of the sample are 220-225. Foliation/ bedding measurement was found to be 093/13.

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**Rock Sample Descriptions**

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Property: Oli

Sample Number: W590977 Date Collected: 2020-08-15 UTM: 424524 mE Nad83, Zone 8  
Elevation: 908 m Sampler: Sarah Shoniker UTM: 7071021 mN

Comments: Dark black weathered, medium greenish grey to brown fresh fine grained fractured quartzite in close contact with vuggy quartz of W590976. Seen as 0.50m wide zone running vertical up outcrop. Visible very fine grained pyrite disseminated throughout, as well as some orange oxide pocks. Weathered surface has reddish brown staining as well. Some small veins of dark grey-green (chlorite?) seen in some samples and cross cut fabric. Rock is very heavily fractured and altered. Orientation of 'zone' was 036/66. Photos of outcrop are 153 and 154 and photos of sample are 226-231.

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Sample Number: W590978 Date Collected: 2020-08-15 UTM: 424524 mE Nad83, Zone 8  
Elevation: 903 m Sampler: Sarah Shoniker UTM: 7071020 mN

Comments: Reddish orange brown weathered, medium grey fresh with yellow-orange to red staining throughout fine grained quartzite. Visible pyrite, chalcopyrite disseminated throughout. Thin (0.50cm wide) quartz veins with fine grained chlorite (?) on rim in places. Weathered surface has red-orange oxide pocks scattered throughout. Thin hairline fractures throughout with fine grained red-brown infill. Rock is heavy and fractures easily. Found in outcrop. Photos of sample are 232-237.

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Sample Number: W590979 Date Collected: 2020-08-15 UTM: 424499 mE Nad83, Zone 8  
Elevation: 914 m Sampler: Sarah Shoniker UTM: 7070984 mN

Comments: Found in subcrop in wall of trench as well as samples on floor. Red-brown weathered light-medium grey fresh with slight light yellow-red staining quartzite (?). Multiple fractures with pyrite, galena (?), chalcopyrite (?) infill that cross cuts fabric. Mm thick and various orientations. Quartzite is dark grey and heavily silicified in spots. Possible bornite and malachite visible as well. Some dark red-purple oxidation in quartz and weathered edge has some earthy orange oxide pocks that infill thin quartz vein in contact with it. Looks like quartz vein with numerous thin (chlorite?) dark grey fractures and heavily mineralized. Also see small earth red brown oxidized pocks with fine grained chalcopyrite (?) in some pieces. Photos of sample are 138-147.

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Sample Number: W590980 Date Collected: 2020-08-15 UTM: 424501 mE Nad83, Zone 8  
Elevation: 909 m Sampler: Sarah Shoniker UTM: 7070985 mN

Comments: Same trench as W590979. Orange weathered, grey-green fresh fine grained silicified quartzite with lots of earth orange oxide staining, abundant malachite, pyrite and minor azurite visible. Possible tetrahedrite and very fine grained chalcopyrite? Weathered surface has light yellow-orange oxide pocks and red-brown staining found on fresh surface. Found as float in trench diggings. Photos of sample 148-152.

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**Rock Sample Descriptions**

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Property: Oli

Sample Number: W590981      Date Collected: 2020-08-15      UTM: 424509 mE      Nad83, Zone 8  
Elevation: 890 m      Sampler: Sarah Shoniker      UTM: 7071062 mN

Comments: Float sample of red-brown weathered, medium grey fresh very silicified quartzite with abundant pyrite, galena (?), chalcopyrite throughout, especially on fractured surfaces. Found in rubble of siliceous schist. Hairline fractures cross cut fabric and are infilled with fine grained sulphides as well. Photos of sample 253-258.

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Sample Number: W590982      Date Collected: 2020-08-15      UTM: 424512 mE      Nad83, Zone 8  
Elevation: 851 m      Sampler: Sarah Shoniker      UTM: 7071173 mN

Comments: Subcrop sample near historical Au in soil anomalies at the base of a large (~80-100m long) outcrop of silicified schist and quartzite. Found as rubble in small gully at base of outcrop. Red-brown weathered, light grey-orange fresh heavily silicified muscovite schist. Fractures infilled with fine grained dark grey-green mineral (chlorite?) and very vuggy quartz veins. Some vugs are infilled with very fine grained grey powder (? Possible weathered goethite??). Heavily oxidized with lots of orange-reddish orange staining throughout. Some vugs have orange to reddish brown oxide infill. Photos of sample 259-266.

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Sample Number: W590983      Date Collected: 2020-08-15      UTM: 424509 mE      Nad83, Zone 8  
Elevation: 846 m      Sampler: Sarah Shoniker      UTM: 7071172 mN

Comments: At same spot as W590982 have very silicified muscovite schist with possible arsenopyrite? And minor pyrite visible. Weathers reddish brown and is grey fresh but rock is heavily oxidized with yellow-orange to reddish brown staining. Small quartz and chlorite (?) veins throughout. Photos of sample 267-274.

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Sample Number: W590984      Date Collected: 2020-08-15      UTM: 424557 mE      Nad83, Zone 8  
Elevation: 861 m      Sampler: Sarah Shoniker      UTM: 7071197 mN

Comments: Bull quartz boulder (too big to unearth, ~1m wide in ground that could be seen) grab sample. Some orange oxide pocks and incorporated green chloritic schist pieces within. Very heavy with possible very fine grained pyrite. Photos of sample 275-280.

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Sample Number: W590985      Date Collected: 2020-08-15      UTM: 424777 mE      Nad83, Zone 8  
Elevation: 961 m      Sampler: Sarah Shoniker      UTM: 7071248 mN

Comments: Hand pit at 2019 soil sample YY16655. Red-brown weathered dark grey-green fresh fine grained pelitic schist with same red oxidation and orange oxide pocks throughout. Small ~20cm wide quartz veins cut fabric and are slightly oxidized and crystalline. Schist is very silicified with possible minor pyrite within. Possible black manganese (?) staining and some orange oxide pocks are found in cross cutting quartz veins. Photo of pit 157 taken looking S. Photos of sample are 281-284.

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**Rock Sample Descriptions**

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Property: Oli

Sample Number: W590986 Date Collected: 2020-08-16 UTM: 425581 mE Nad83, Zone 8  
Elevation: 882 m Sampler: Sarah Shoniker UTM: 7070931 mN

Comments: Handpit at YY16850 on steep East facing slope with sparse poplar and spruce trees. Rock is greyish brown weathered, light orange brown stained fresh quartz in chlorite schist. Minor earth red orange pocks and black (manganese?) staining. Very fine grained silvery mineral (?) on some pieces and very fine hairline fractures with dark brown infill cross cut some pieces. Piece of siliceous schist with very fine grained unidentified silver mineral by weathered edge. Some thin quartz veins have vuggy infill of orange oxide. Photo 291 shows pit taken looking W. Photos 292-295 show sample.

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Sample Number: W590987 Date Collected: 2020-08-16 UTM: 425563 mE Nad83, Zone 8  
Elevation: 880 m Sampler: Sarah Shoniker UTM: 7070842 mN

Comments: Large (75m x 200+m) outcrop on side of hill upslope of YY16848 soil sample of very silicified and oxidized/ altered schist and quartzite. Foliation measurement of 109/20 was found of the schist. Rocks are heavily altered, possible structural zone/ increase metamorphism or tectonic movement since rocks have shown an increase in ductility and folding as we went east? 3 samples taken at various locations at outcrop. Sample 1 is rust brown weathered dark grey-green fresh hornfelsed (???) biotite-chlorite schist with thin (~3cm wide) quartz vein. Schist is almost graphitic looking in sections. Gentle crenulations/ folding in schist fabric and thin (~0.50cm) clean white quartz veins parallel to the foliation evident as well. Lots of earth orange oxide staining on fresh surface and very fine grained chlorite and minor epidote blebs as well as some siliceous/ very fine grained red brown staining. Rock is very heavy, heavily altered and difficult to fracture. Dark red- almost black oxidized staining on fresh surface as well. Pieces of quartz vein within are slightly oxidized but for most part are pretty clean. No visible sulphides and the chlorite and epidote are very crystalline and fine grained. Photos of sample are 295-303

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Sample Number: W590988 Date Collected: 2020-08-16 UTM: 425567 mE Nad83, Zone 8  
Elevation: 882 m Sampler: Sarah Shoniker UTM: 7070848 mN

Comments: Rust red orange to red brown weathered, orange-brown fresh quartz found in subcrop. Pulled out as a boulder from under some schist pieces directly below significant outcrop. Quartz is vuggy with orange oxide infill and has thin hairline fractures that cross cut with dark red brown infill. Photos of sample 304-308

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**Rock Sample Descriptions**

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Property: Oli

Sample Number: W590989 Date Collected: 2020-08-16 UTM: 425558 mE Nad83, Zone 8  
Elevation: 885 m Sampler: Sarah Shoniker UTM: 7070862 mN

Comments: Subcrop sample pulled from ground directly below significant outcrop. Reddish grey-brown weathered, dark grey fresh fine grained biotite pelitic schist and quartz vein. Quartz vein is vuggy with vugs up to 2cm in length and infilled with orange-brown powdery oxide (limonite?). Some light yellow-green to orange staining visible on quartz (possible arsenic staining?) as well as very fine grained black mineral and earthy orange oxidation. Some large grains (up to 0.50cm) of muscovite along edge of schist and quartz in places parallel to contact. Some very silicified dark yellowish green and red-black to red brown pocks in quartz with some thin (mm size) quartz veins cross cutting perpendicular to original vein and foliation. Small pocks orange oxide throughout. Quartz is very siliceous and not very crystalline. Photos of sample 309-321

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Sample Number: W590990 Date Collected: 2020-08-16 UTM: 424493 mE Nad83, Zone 8  
Elevation: 1186 m Sampler: Sarah Shoniker UTM: 7071013 mN

Comments: Taken from wall of Trench 7, brecciated grey green quartzite/ greenstone (?). Trace malachite and very fine grained pyrite. Rusty quartz veins with earth orange oxide pocks throughout. Subrounded clasts of dark grey pelitic schist within. Matrix is very fine grained orange oxide and green clasts of host rock. Quartz has large euhedral crystals and vugs with dark black staining seen on weathered surface. Photos of sample are 322-328

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Sample Number: W590991 Date Collected: 2020-08-16 UTM: 424564 mE Nad83, Zone 8  
Elevation: 1191 m Sampler: Sarah Shoniker UTM: 7071018 mN

Comments: Handpit YY16978 dug by Kieran McClenahan. Rock near surface, schist and quartzite sampled. Photo taken looking SE. Schist is medium grey weathered, grey fresh medium grained with some black staining and minor earth orange oxide pocks near weathered rim. Quartz rubble was sampled and is buff light red brown weathered, light yellow reddish-brown fresh and oxidized but still quite crystalline. Minor vugs and hairline fractures throughout. Photos of sample are 328-333

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Sample Number: W590992 Date Collected: 2020-08-16 UTM: 424564 mE Nad83, Zone 8  
Elevation: 1190 m Sampler: Sarah Shoniker UTM: 7070818 mN

Comments: Handpit YY16874 dug by Kieran McClenahan. Thin layer reindeer sponge moss moderately steep North facing slope with black spruce trees. 40cm deep pit in brown grey dirt. Rock is buff brown weathered, medium grey fresh very silicified muscovite schist (almost a quartzite). Quite heavy with multiple vuggy fractures throughout. Some dark red-brown to earth orange staining on weathered surface but not abundant. Small euhedral quartz crystals infill some vugs. Photos of sample 334-337

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**Rock Sample Descriptions**

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Property: Oli

Sample Number: W590993      Date Collected: 2020-08-17      UTM: 425192 mE      Nad83, Zone 8  
Elevation: 998 m      Sampler: Sarah Shoniker      UTM: 7071274 mN

Comments: Small trench outcrop sample of dark brown weathered, light green grey fresh very silicified schist (? Or quartzite?). Earth orange oxide (limonite?) staining and pocks, minor malachite and dark black tetrahedrite? With pyrite and possible bornite as well. Thin fractures with chocolate brown infill throughout, minor epidote alteration. Outcrop appears to be interbedded with more 'schistose schist' and minor quartzites in trench (some appears more ductile/ deformed than this sample). Photos of sample are 346-349

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Sample Number: W590994      Date Collected: 2020-08-17      UTM: 425355 mE      Nad83, Zone 8  
Elevation: 917 m      Sampler: Sarah Shoniker      UTM: 7071460 mN

Comments: Outcrop sample from yet another trench of red brown weathered, light-dark grey green fresh fine grained very silicified quartzite breccia with clasts of hornfelsed (? Skarn?) greenstone/ mafics. Some very bright red- purple red weathering and veinlets of shiny dark metallic mineral in red oxide on weathered surface. Very fine grained unidentified silvery mineral in mafic clasts as well. Small veins of chlorite cross cut through. Pocks of earth orange oxide in some places. Rock is very dense and heavy with minor epidote alteration, and possible diopside? Photos of sample are 350-357

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Sample Number: W590995      Date Collected: 2020-08-17      UTM: 425556 mE      Nad83, Zone 8  
Elevation: 802 m      Sampler: Sarah Shoniker      UTM: 7071594 mN

Comments: Light grey-green brown weathered, dark grey fresh fine grained volcanic (basalt?), very silicified. Light yellow-orange to orange to red brown oxidation, very vuggy with possible goethite infill? (dark earthy black brown). Abundant pyrite, minor galena present. Fine hairline fractures with chlorite (?) infill follow slight foliation in one sample. Found on floor of Trench 8. Photos 358-367

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Sample Number: W590996      Date Collected: 2020-08-17      UTM: 425606 mE      Nad83, Zone 8  
Elevation: 891 m      Sampler: Sarah Shoniker      UTM: 7071592 mN

Comments: Grab sample from rubble at base of Trench 9. Light reddish brown grey weathered, light green grey- dark black grey fresh very silicified greenstone/ mafic quartzite? Some minor very fine grained galena? On weathered surface. Black and orange staining on weathered surface as well. Vuggy textures with euhedral quartz crystals and earthy orange oxide infill present as well as some slight epidote alteration. Photos 368 and 369

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