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**ASSESSMENT REPORT**

describing

**PROSPECTING AND SOIL GEOCHEMICAL SAMPLING**

Field work performed between June 11 - 14, 2019

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

Ryan Burke, B.Sc., GIT

January 2020

## **CONTENTS**

INTRODUCTION	1
PROPERTY LOCATION, CLAIM DATA AND ACCESS	1
HISTORY AND PREVIOUS WORK	1
GEOMORPHOLOGY	2
REGIONAL GEOLOGY	2
REGIONAL METALLOGENY	4
PROPERTY GEOLOGY	6
MINERALIZATION	7
HISTORICAL TRENCHING	7
HISTORICAL DIAMOND DRILLING	8
SOIL GEOCHEMISTRY	9
ROCK GEOCHEMISTRY	11
DISCUSSION AND CONCLUSIONS	12
REFERENCES	13

## **APPENDICES**

I	STATEMENT OF QUALIFICATIONS
II	STATEMENT OF EXPENDITURES
III	CERTIFICATES OF ANALYSIS
IV	ROCK SAMPLE DESCRIPTIONS

## FIGURES

<u>No.</u>	<u>Description</u>	<u>Follows Page</u>
1	Property Location	1
2	Claim Locations	1
3	Tectonic Setting	2
4	Tintina Gold Province	3
5	Regional Geology of Western Tombstone Gold Belt	4
6	Regional Geology	6
7	Soil Sample Locations	10
8	Tin Soil Geochemistry	10
9	Zinc Soil Geochemistry	10
10	Tungsten Soil Geochemistry	10
11	Copper Soil Geochemistry	10
12	Silver Soil Geochemistry	10
13	Arsenic Soil Geochemistry	10
14	Gold Soil Geochemistry	10
15	Antimony Soil Geochemistry	10
16	Lead Soil Geochemistry	10
17	Bismuth Soil Geochemistry	10
18	Rock Sample Locations	11
19	Tin Rock Geochemistry	11
20	Gold Rock Geochemistry	11
21	Silver Rock Geochemistry	11

22	Lead Rock Geochemistry	11
23	Zinc Rock Geochemistry	11
24	Cobalt Rock Geochemistry	11
25	Tungsten Rock Geochemistry	11
26	Copper Rock Geochemistry	11
27	Bismuth Rock Geochemistry	11
28	Antimony Rock Geochemistry	11

### **TABLES**

I	Regional Lithological Units	3
II	Highlight Results from 2011 Re-Sampling of Historical Trenches	8
III	Historical Diamond Drilling	8
IV	Historical Diamond Drilling Significant Results	9
V	Anomalous Threshold Values for Soil Samples	10

## **INTRODUCTION**

The Oli property was staked in February 2019 to cover the Oliver occurrence (MINFILE 115P 030), which is primarily a tin skarn target, with potential for skarn- and/or porphyry-related gold, silver, copper, zinc and cobalt mineralization. The property received intermittent work that focussed on tin in the late 1970s and early 1980s, but was then inactive until 2011 when limited sampling was done during a program that explored across a much larger claim block, primarily for gold. The Oli property is wholly owned by Strategic Metals Ltd.

This report describes prospecting and geochemical sampling conducted from June 11 to 14, 2019. Archer, Cathro & Associates (1981) Limited managed the program on behalf of Strategic Metals. The author interpreted all the data in this report and his 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.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Oli 1-24	YF47977-YF48000	February 25, 2025

\* Expiry date includes 2019 work, which has been filed for assessment credit.

The Oli property can be accessed by air or ground transportation. In 2019, daily access to and from the property 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 old road but this route 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 access road with a bulldozer.

The Oli property lies within the traditional territory of the Na-cho Nyak Dun First Nation.

## **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).

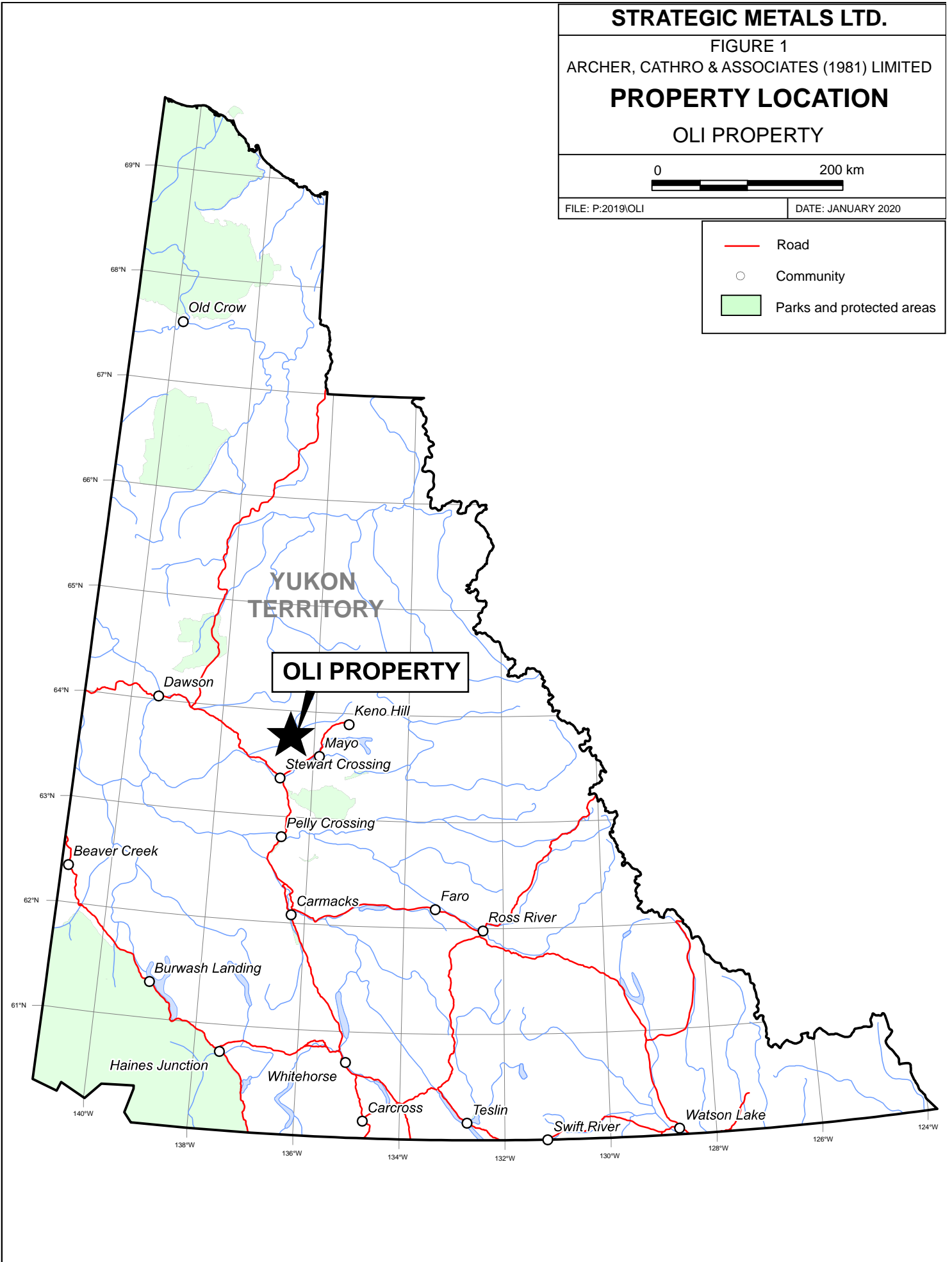
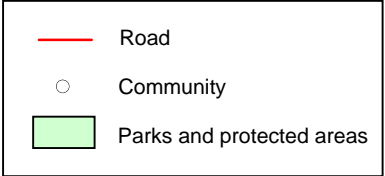
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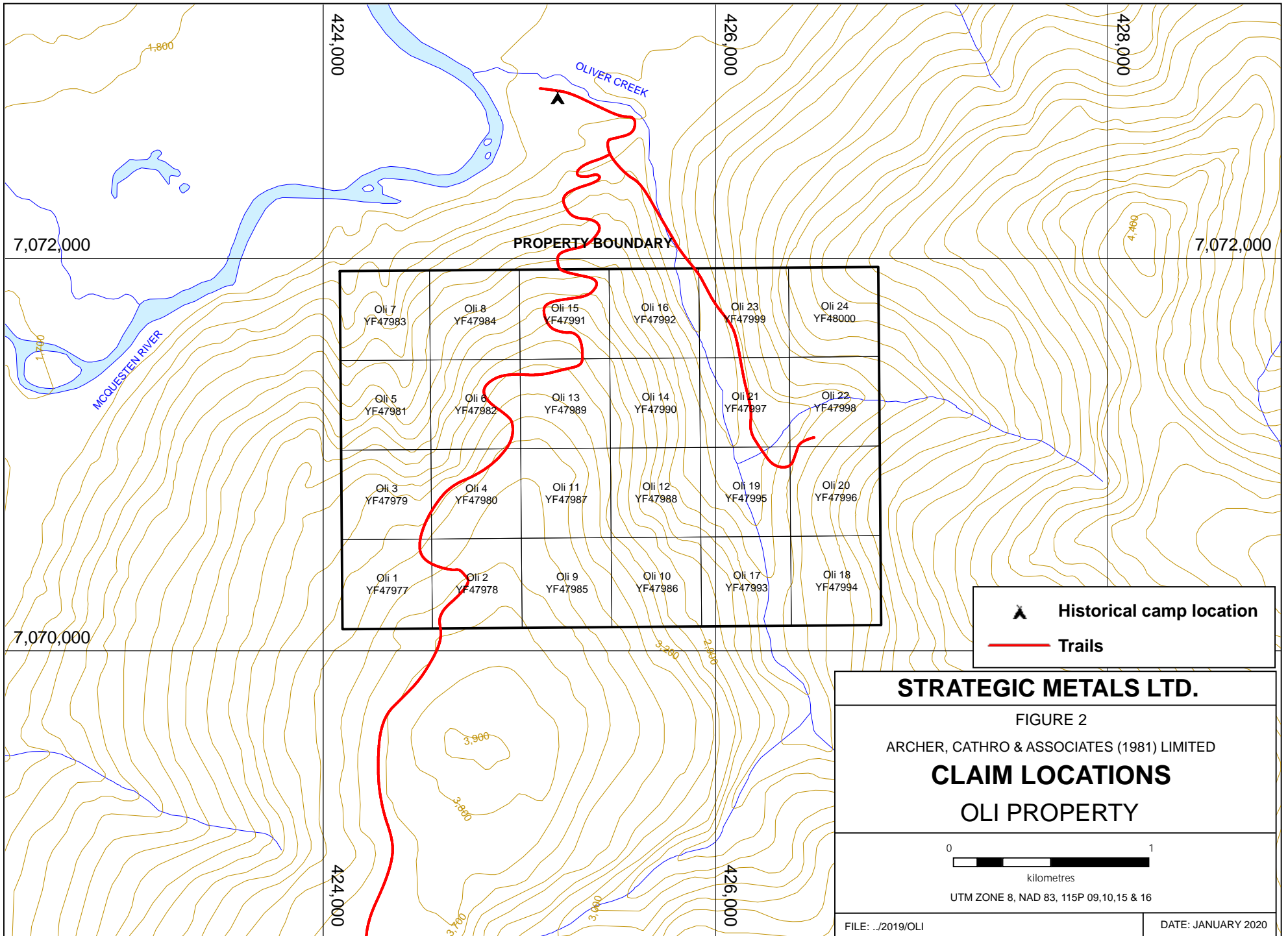
FIGURE 1  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**PROPERTY LOCATION**  
OLI PROPERTY



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DATE: JANUARY 2020





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).

In 1980, Cortin Joint Venture completed eight diamond drill holes totalling 916 m, and in 1981 and 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 2011, Goldstrike Resources Ltd. conducted a reconnaissance prospecting and soil geochemical sampling program 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.

## **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.

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 mild, 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).



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FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

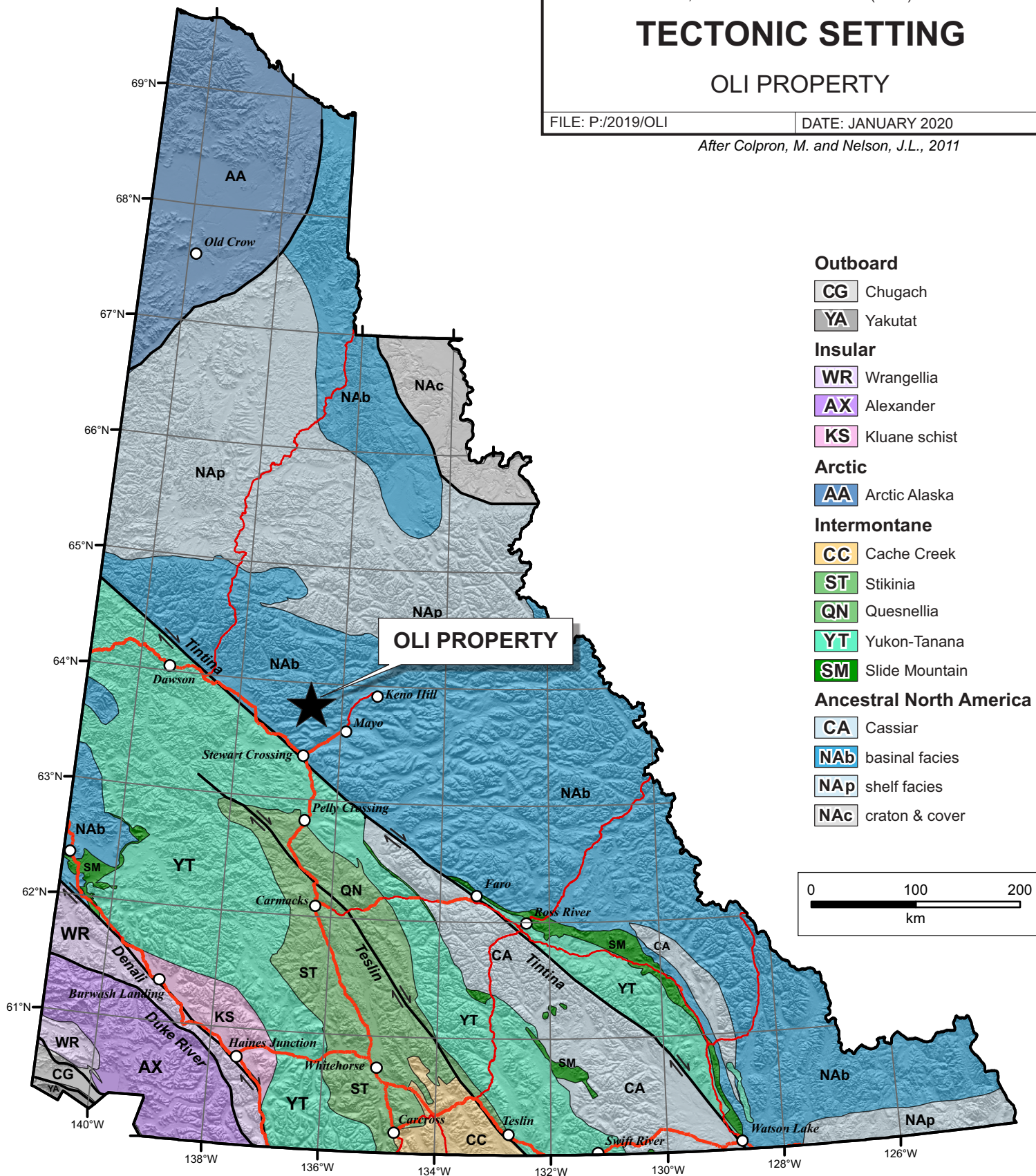
## TECTONIC SETTING

### OLI PROPERTY

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DATE: JANUARY 2020

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



The western portion of Selwyn basin is dominated by three main north-directed thrust faults: the Dawson, Tombstone and Robert Service Thrust, which imbricate and stack the basinal strata (Figure 4; Murphy, 1997; Mair et al., 2006). The regional metamorphic grade reaches lower to middle greenschist facies. In the hanging wall of the Tombstone Thrust is a thick and aerially extensive volume 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, through the Tombstone Thrust sheet 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. Complex ductile deformation across the orogen 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.

The Oli property lies within the Tombstone belt, which is dominated by tectonically thickened Selwyn Basin clastic strata. Tectonism peaked at ca 105 Ma (Mair et al., 2006) and was followed by the emplacement of the Mayo and Tombstone suites, during a period of weak crustal extension at the end of the mid-Cretaceous (Table I).

Younger intrusions of the McQuesten suite also occur in the McQuesten and Mayo area. Only five intrusions of this age (late Cretaceous; 67- 64 Ma) have been documented in Yukon, but similar age rocks occur in east-central Alaska, offset from the McQuesten River region along the Tintina fault system (McCoy et al., 1997). 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).

**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.

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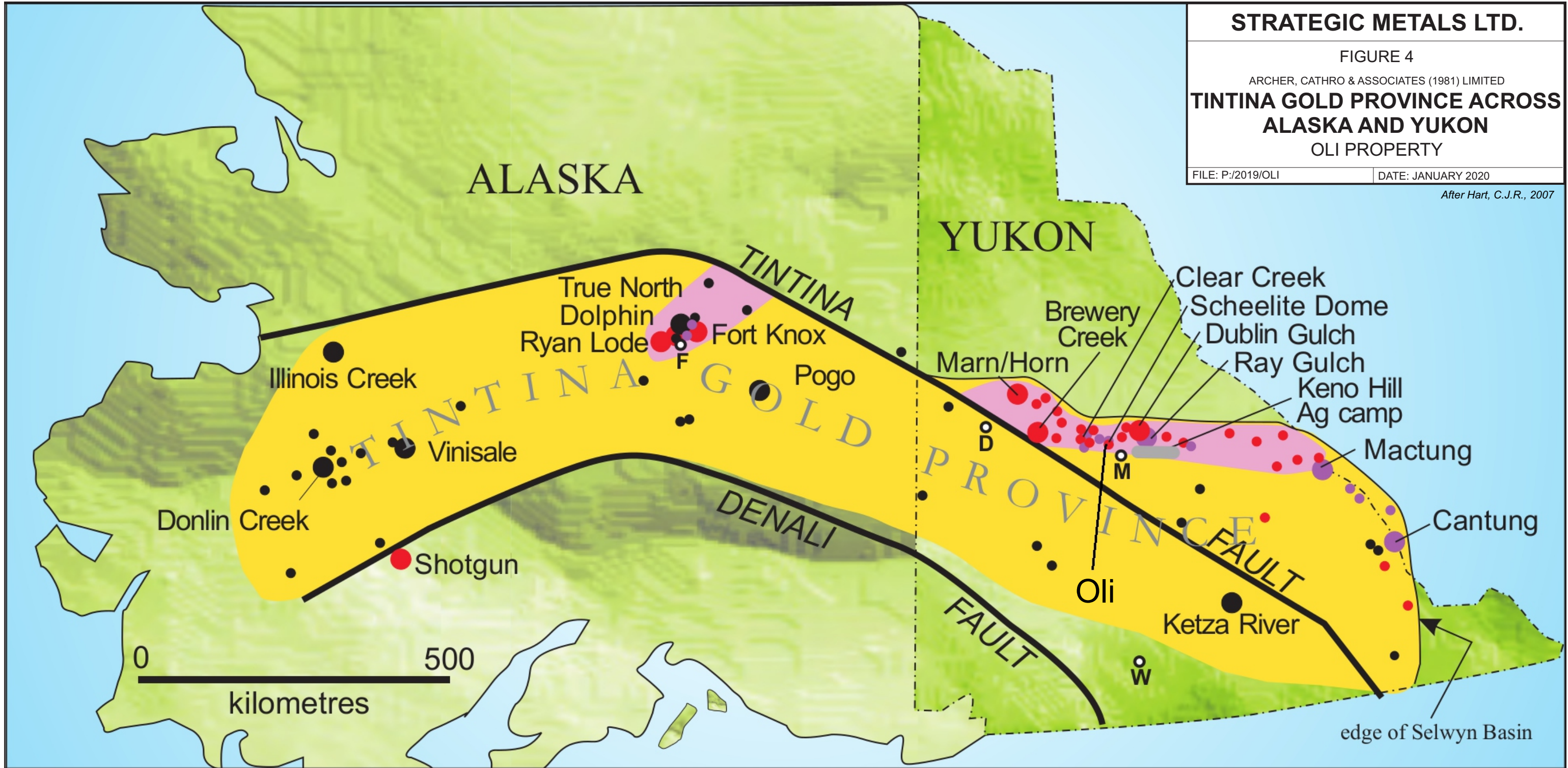
FIGURE 4

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

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DATE: JANUARY 2020

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



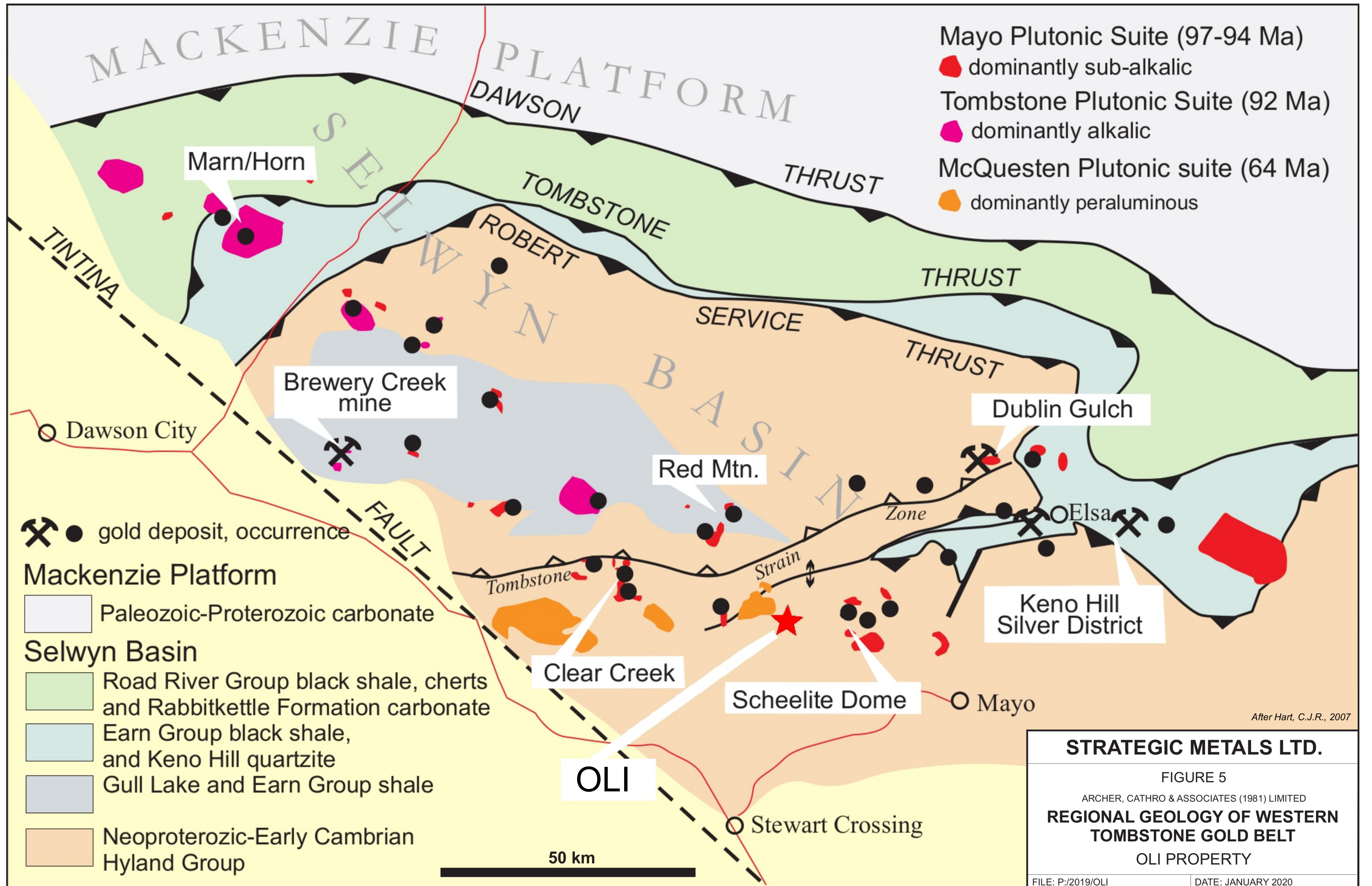
Tombstone Suite	Mid Cretaceous	MKT	Plutonic suite dominated by felsic (q) to syenitic (y) and minor intermediate (g) compositions <b>q:</b> medium to coarse-grained, locally porphyritic biotite hornblende, clinopyroxene granite <b>g:</b> quartz monzonite, granodiorite, quartz diorite <b>y:</b> medium 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 (Figure 5, modified from Hart, 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**

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Deposits of the Tombstone gold belt exhibit a variety of mineralization styles. Gold occurrences within the 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 are 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 ± silver occurrences that are associated with two-mica granites, while tungsten ± 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 overlying 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.

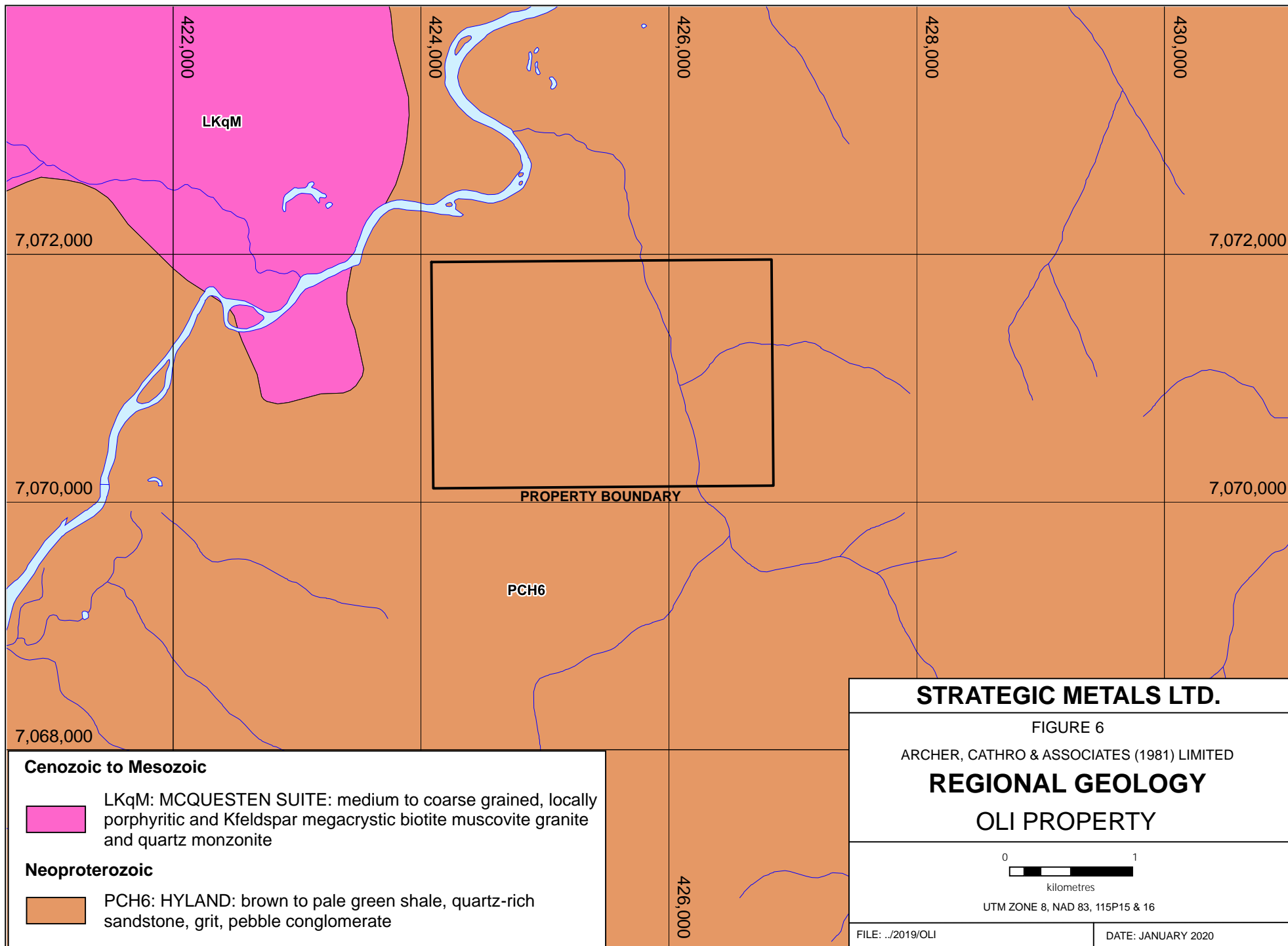
The McQuesten River area has gold as well as tin-tungsten potential. Most skarns and several veins are gold-bearing, although no direct correlation between gold, tin and tungsten exists. However, skarns in this area often show a strong positive correlation between gold and bismuth (Emond and Lynch, 1992).

### **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 (PCH6) and lies within the Tombstone Strain Zone, as shown on Figure 6. Within the Tombstone Strain Zone, 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). The Boulder Creek Stock, a McQuesten Suite intrusion of 67 to 64 Ma (LKqM) lies immediately northwest of the Oli property. The property is located on the southern limb of the McQuesten antiform, and foliation measurements generally strike east-west and dip gently southward between 15 to 34 degrees (Murphy and Heon, 1996).

Bedrock exposed during trenching and diamond drilling on the Oli property has been described by Benz (2012) as silicified, brecciated and un-brecciated phyllite, with occasional patches of olive-green alteration minerals (epidote?). The Oliver occurrence also shows 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).





Quartzite, chlorite schist, chlorite-biotite schist, and quartzite breccia were logged in the diamond drill holes in 1979, 1980 and 1981 (Kennedy, 1981).

### **MINERALIZATION**

The Oli property covers the Oliver occurrence (115P 030), which is primarily a tin skarn target, but it also hosts gold, silver, copper, molybdenum, lead, zinc, bismuth and tungsten mineralization. Mineralization on the property typically occurs as cassiterite, sphalerite, pyrrhotite, pyrite, scheelite, chalcopyrite and arsenopyrite. These minerals are commonly found within tourmaline-matrix breccias in quartzite and schist, and in actinolite-chlorite-calcite-diopside-quartz-epidote skarns.

The 2019 exploration program primarily focussed on tin, but also considered multi-element potential, because historical drilling and trenching and recent rock sampling yielded highly encouraging results that were never fully evaluated. The multi-element signature suggests that additional styles of mineralization may be present on the Oli property, which have not been previously documented due to poor exposure. Historical highlight surface rock sample values are 4.003 g/t gold, greater than 1% copper, 0.45% lead, 0.25% zinc, greater than 100 g/t silver, greater than 0.2% cobalt, greater than 2000 ppm bismuth and greater than 100 ppm tungsten.

In 2019, prospecting returned significant values with assays up to 2.22 g/t gold, 0.46 % copper, 0.23 % lead, 0.43% zinc, 921 g/t silver, 0.51 % cobalt, and 6490 ppm bismuth.

### **HISTORICAL TRENCHING**

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 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 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. The 2011 work was not focussed on tin mineralization and therefore tin results were not reported.

**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	2.16	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

### **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 historical drill hole locations have yet to be accurately determined. No casing was left in any of the drill holes and only one hole (DDH-1980-07) was cemented.

**Table III – Historical Diamond Drilling**

Year – Hole	AZM (°)	DIP (°)	Length (m)	Core Size	Recovery
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 (Figure 2), which is road accessible and lies between the current Oli property and the McQuesten River. 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.

### **SOIL GEOCHEMISTRY**

Grid soil sampling programs were conducted in 1979, 1980, and 1981 and ridge line sampling was done in 2011. Unfortunately, base maps from 1979, 1980 and 1981 do not have enough reference points to accurately digitize the entire historical data set.

In 2019, Strategic Metals collected 332 soil samples from two separate grids. Grid one is 1500 by 1700 m with a north-south line orientation. Samples in grid one were taken at 50 m spacing along lines spaced 200 m apart. Grid two is 650 by 350 m also with a north-south orientation. Samples in grid two were taken at 50 m spacing along lines spaced 100 m apart. Certificates of Analysis are provided in Appendix III.

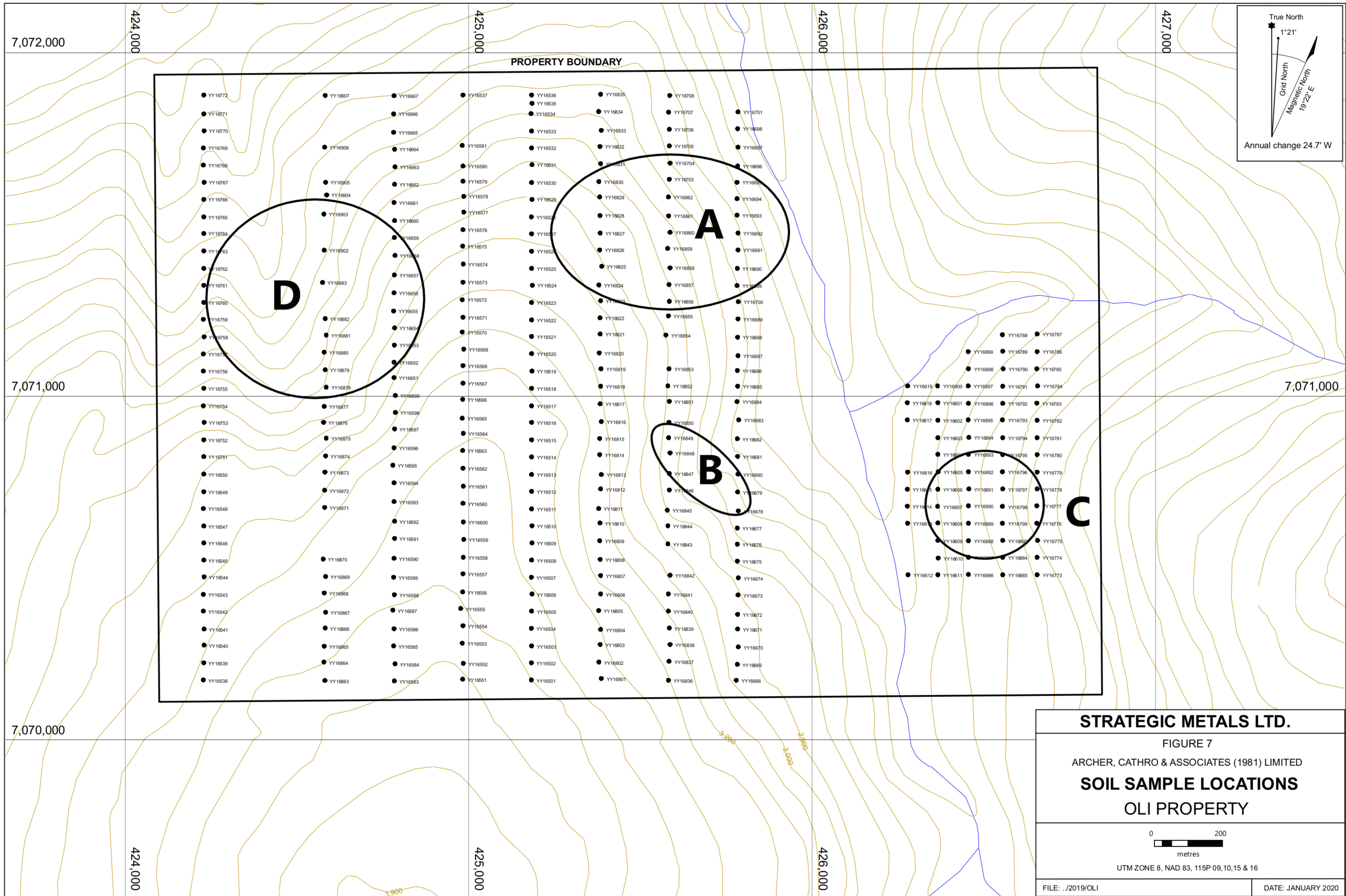
The 2019 soil sample locations were recorded using hand-held GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath driven into the ground. Soil samples were collected from 5 to 75 cm deep holes dug by hand-held auger and placed into individually pre-numbered Kraft paper bags. The soil samples were sent to ALS Minerals in Whitehorse, Yukon where they were dried and screened to -180 microns. The fine fractions were then shipped to ALS Minerals 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).

Individual soil sample locations are shown on Figure 7, while thematic soil results from all programs for tin, zinc, tungsten, copper, silver, arsenic, gold, antimony, lead and bismuth on Figures 8 to 17, respectively. None of the pre-2019 programs analyzed the soil samples for gold. The various soil sampling programs analyzed for different suites of elements and therefore, several data points are missing for those elements. Anomalous thresholds for soil values are listed in Table V below.

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

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

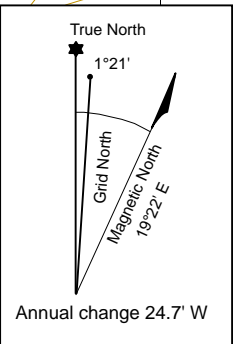
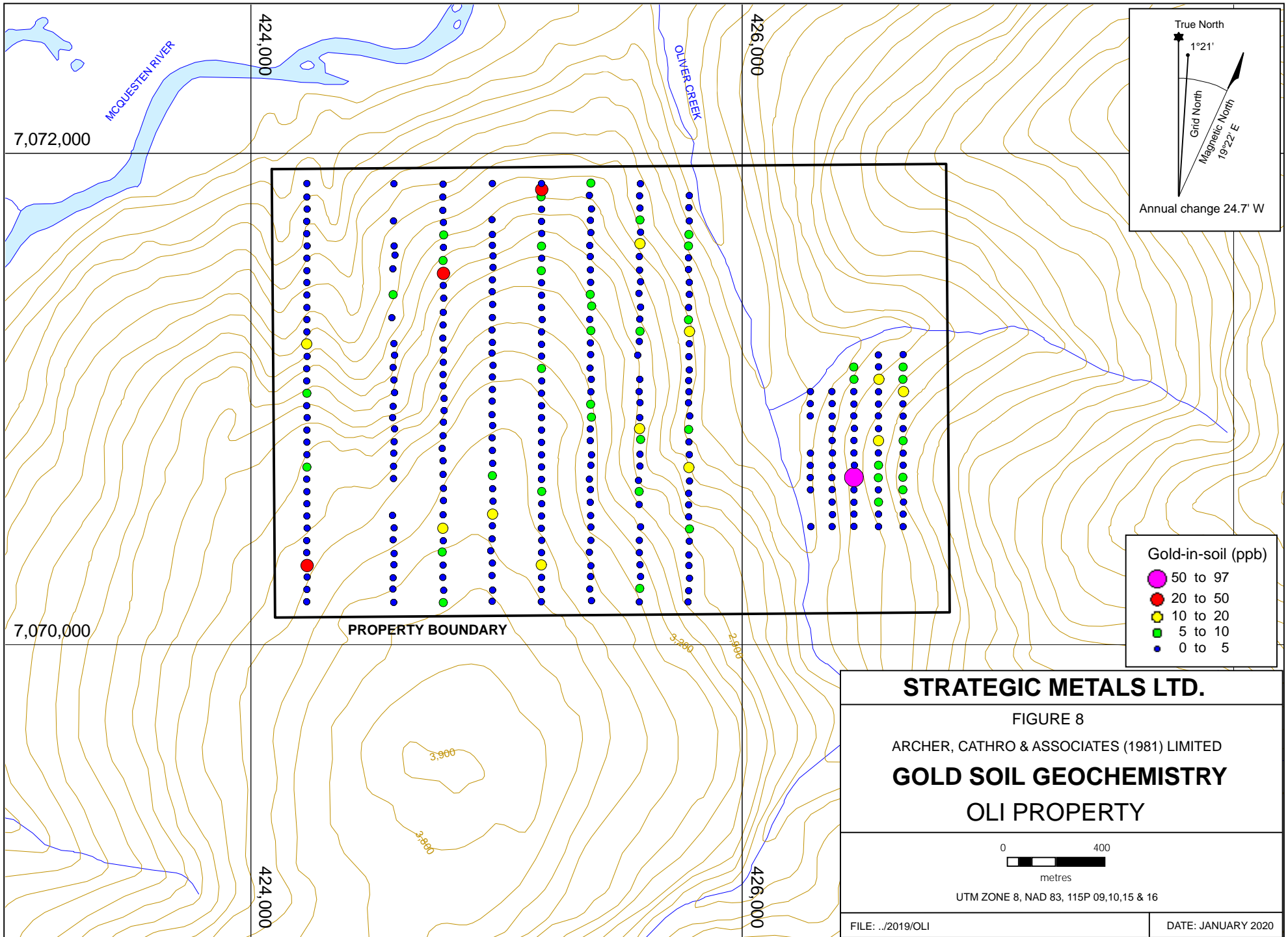
\*N/A = element not analyzed in historical data



**STRATEGIC METALS LTD.**  
 FIGURE 7  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**SOIL SAMPLE LOCATIONS**  
 OLI PROPERTY

0 200  
 metres  
 UTM ZONE 8, NAD 83, 115P 09,10,15 & 16

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



**Gold-in-soil (ppb)**

- 50 to 97
- 20 to 50
- 10 to 20
- 5 to 10
- 0 to 5

**STRATEGIC METALS LTD.**

**FIGURE 8**

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**GOLD SOIL GEOCHEMISTRY**

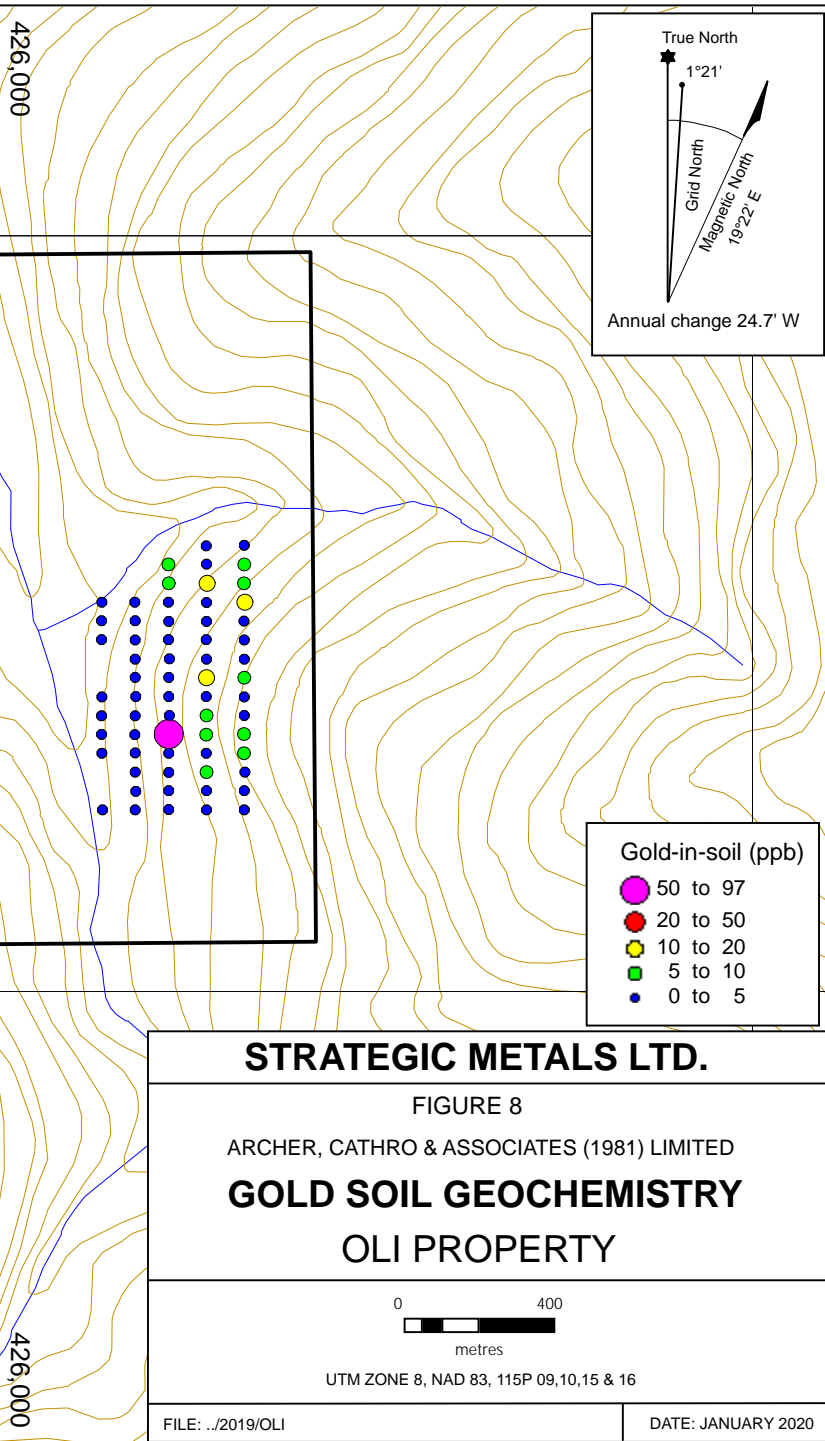
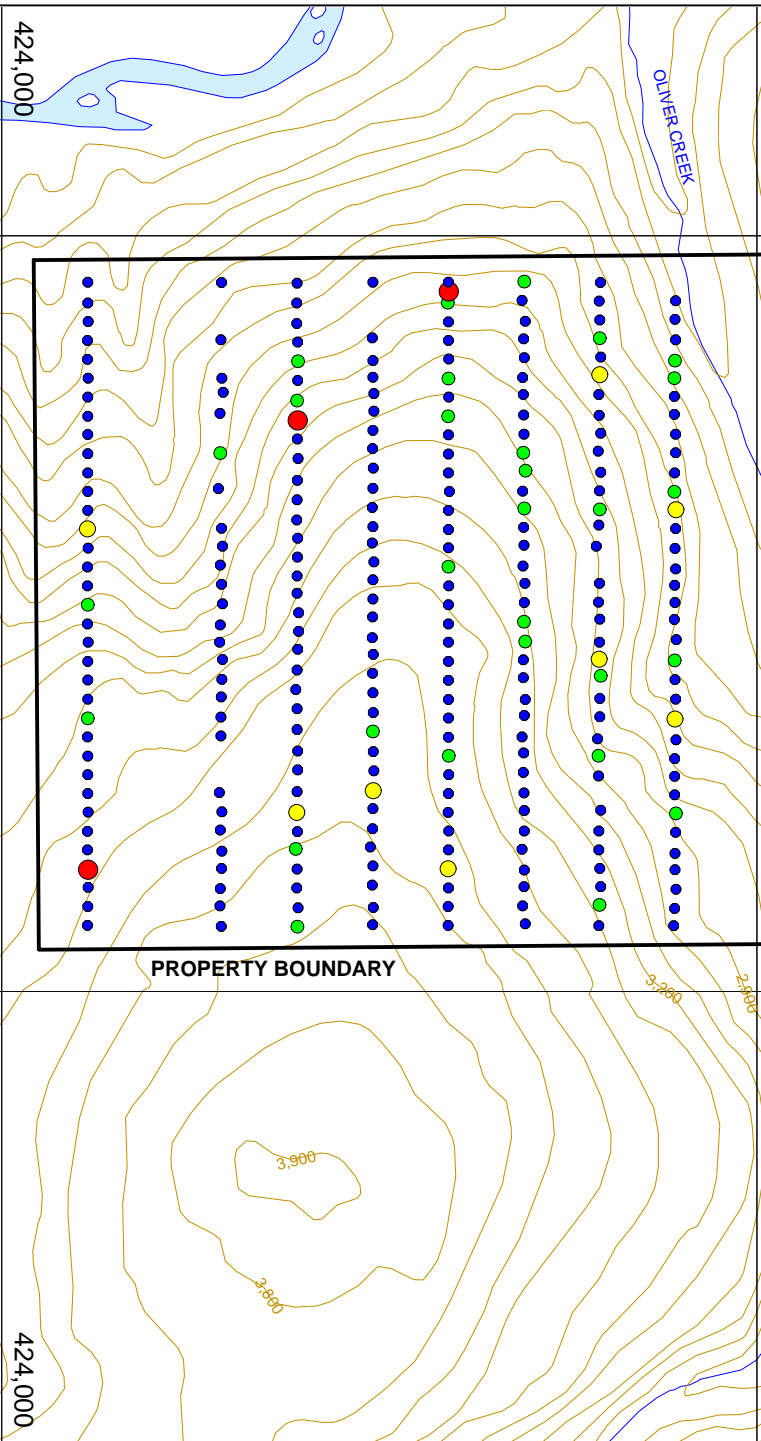
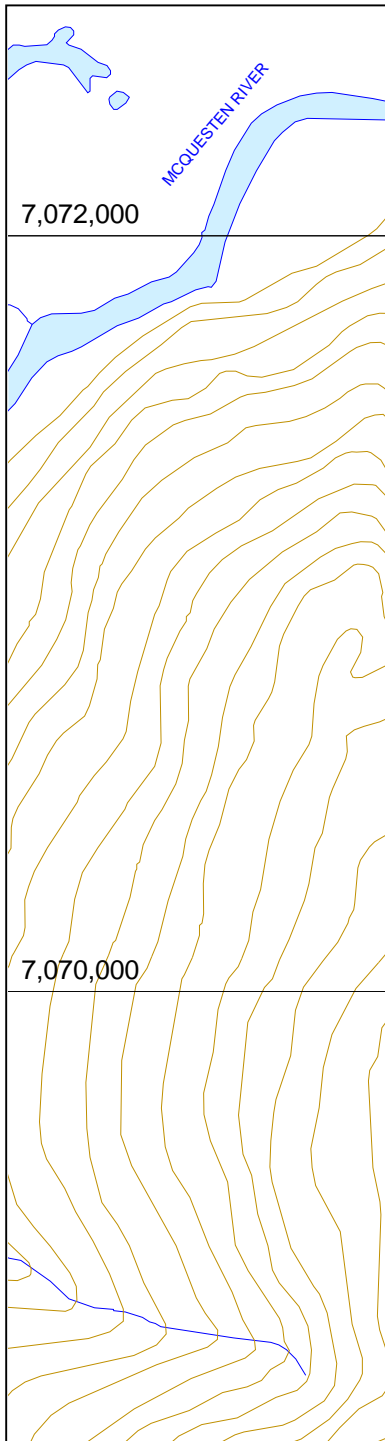
**OLI PROPERTY**

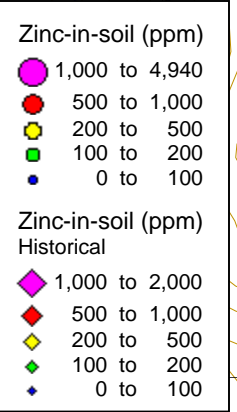
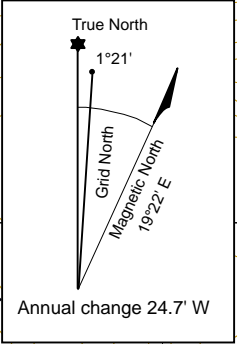
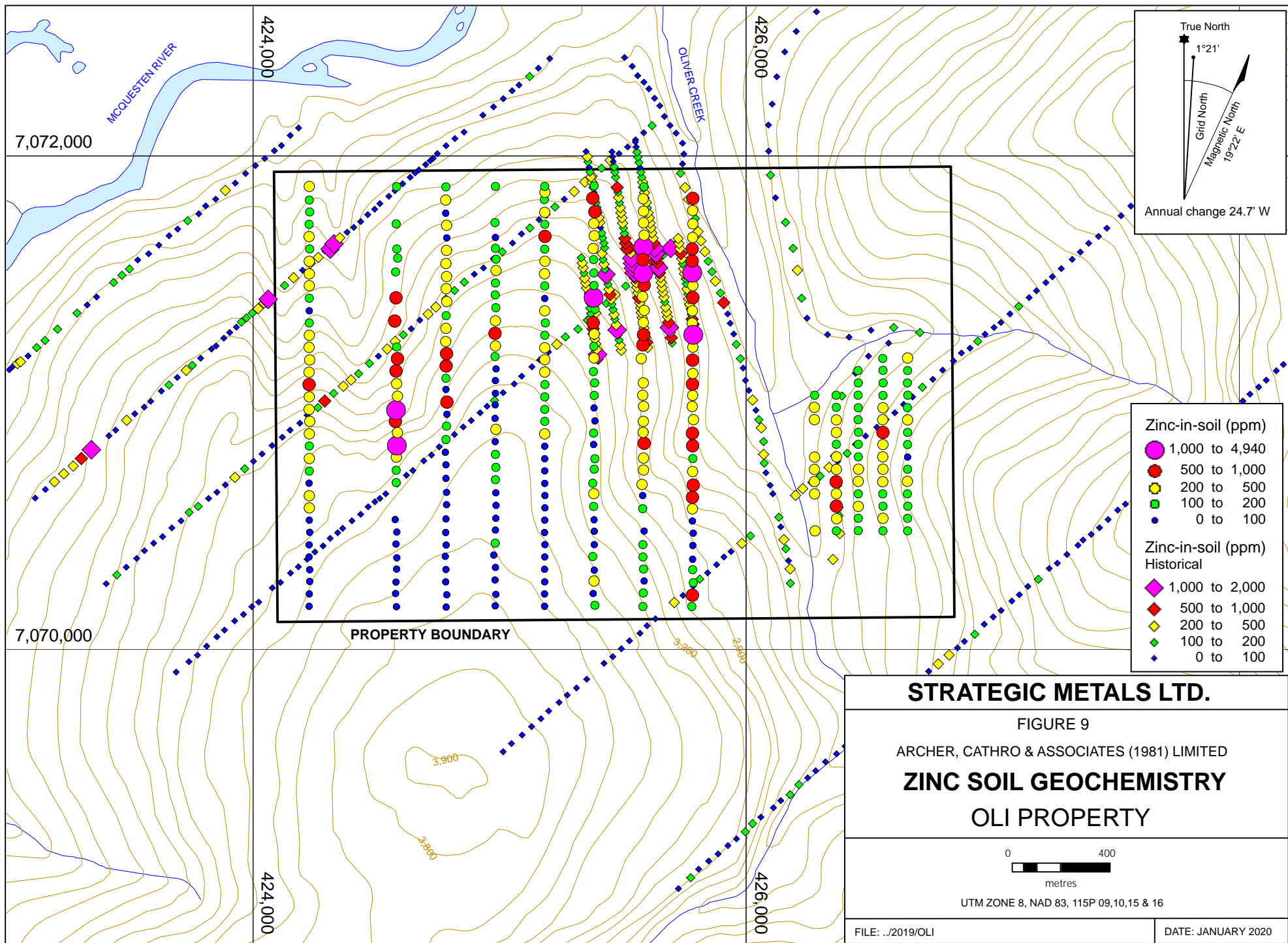
0 400  
metres

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

FILE: ../2019/OLI

DATE: JANUARY 2020





**STRATEGIC METALS LTD.**

**FIGURE 9**

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

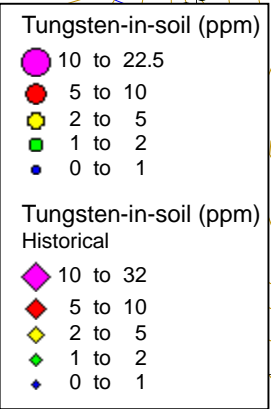
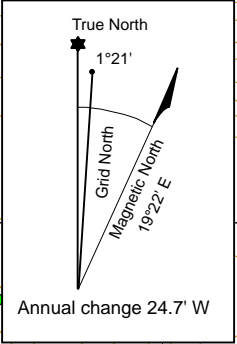
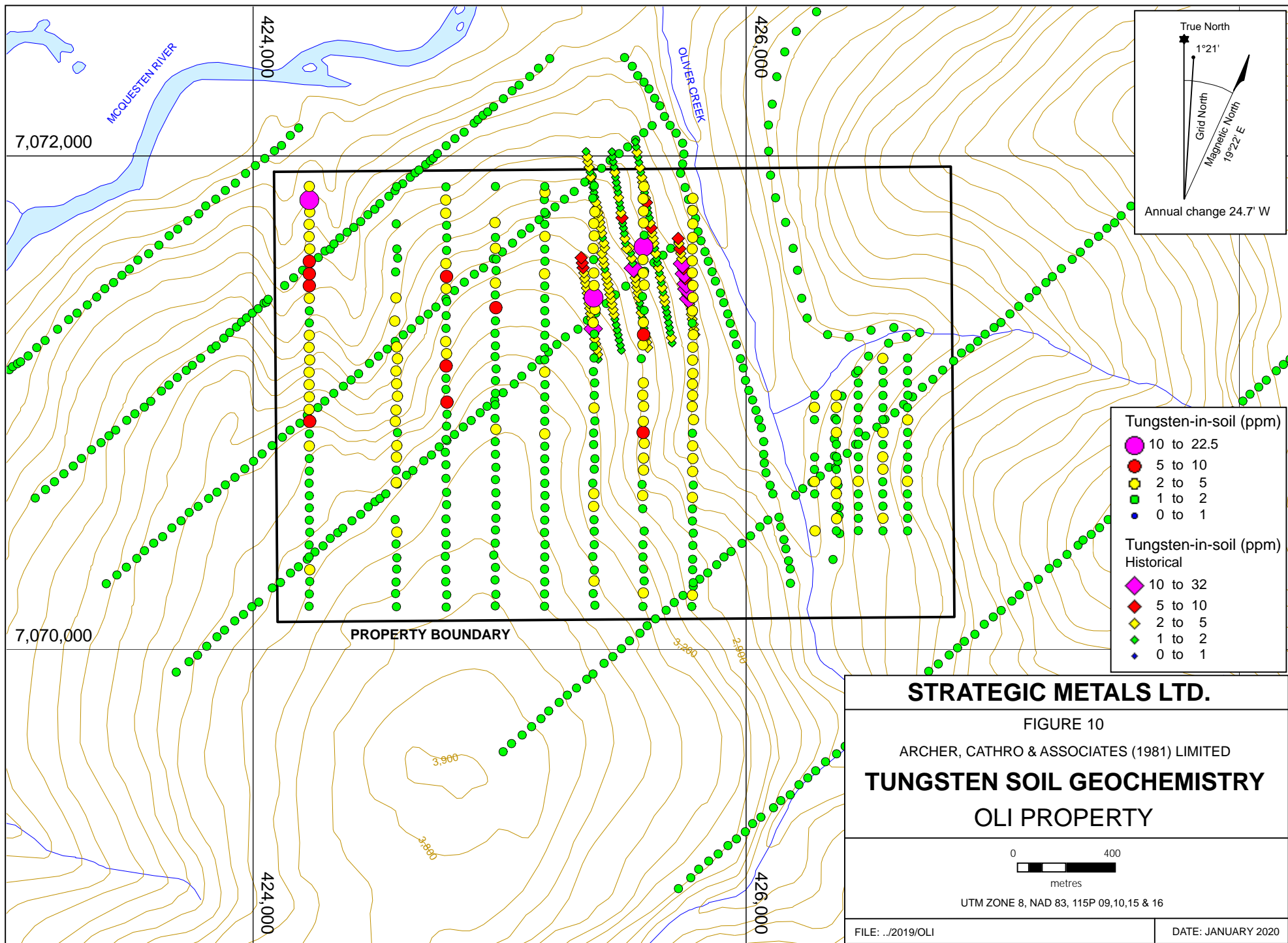
**ZINC SOIL GEOCHEMISTRY**

**OLI PROPERTY**

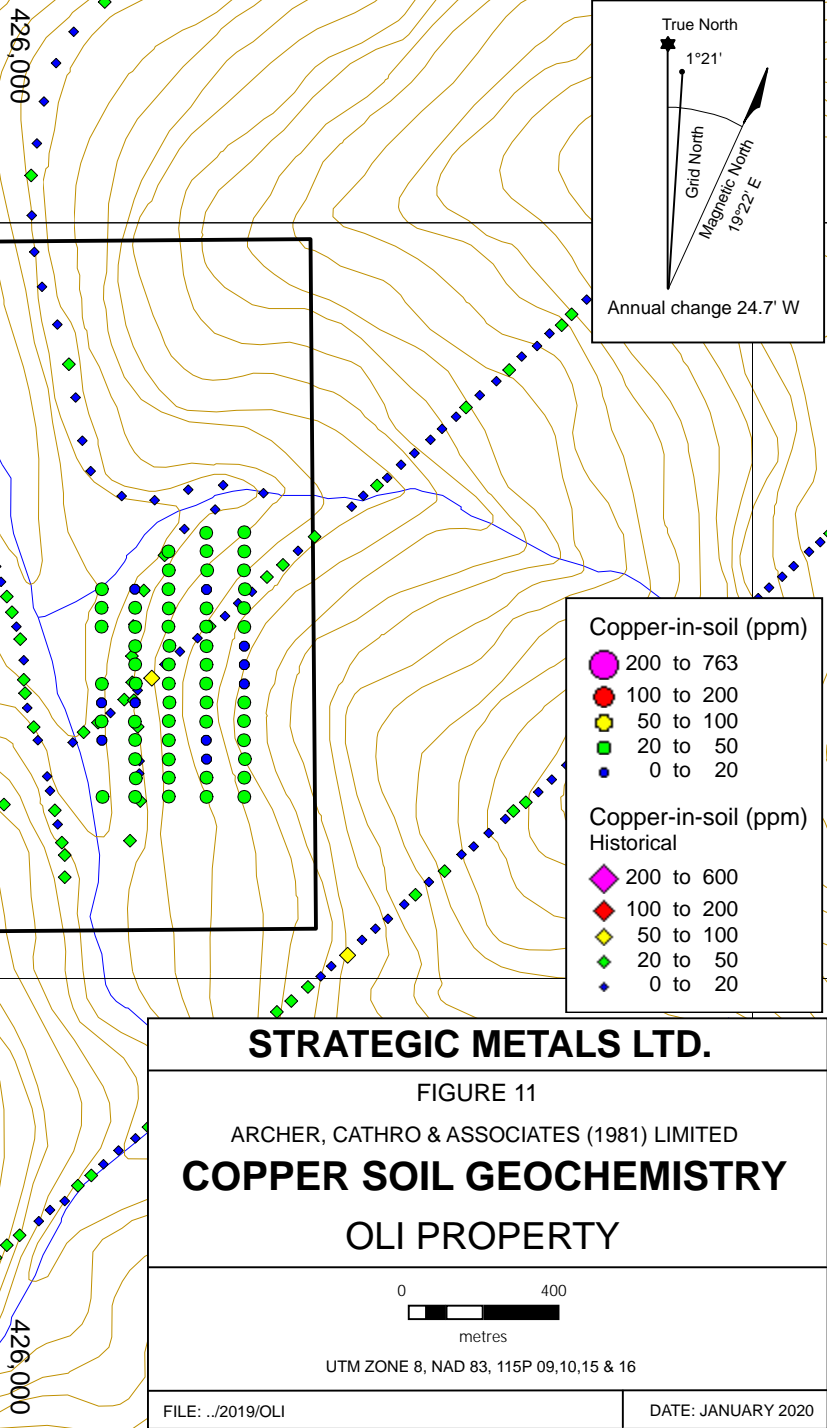
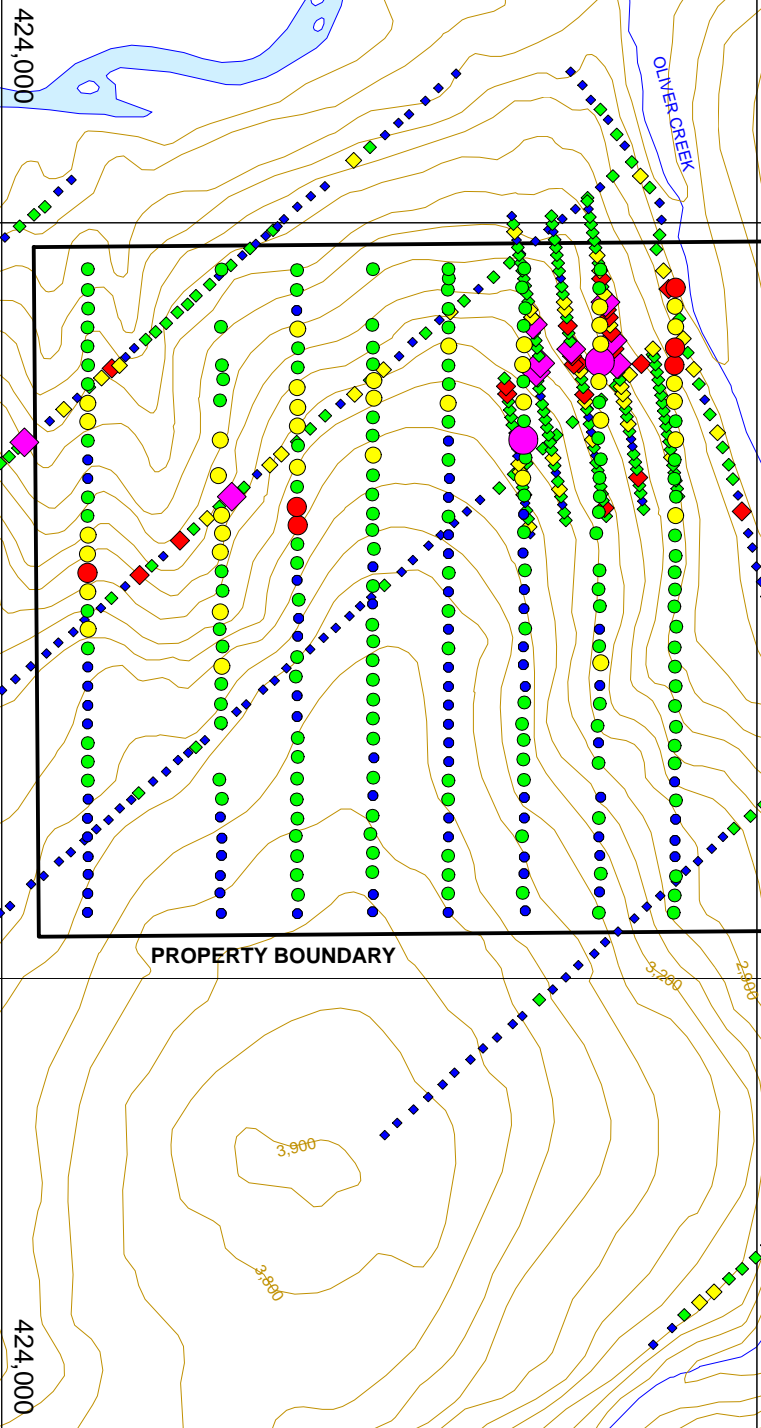
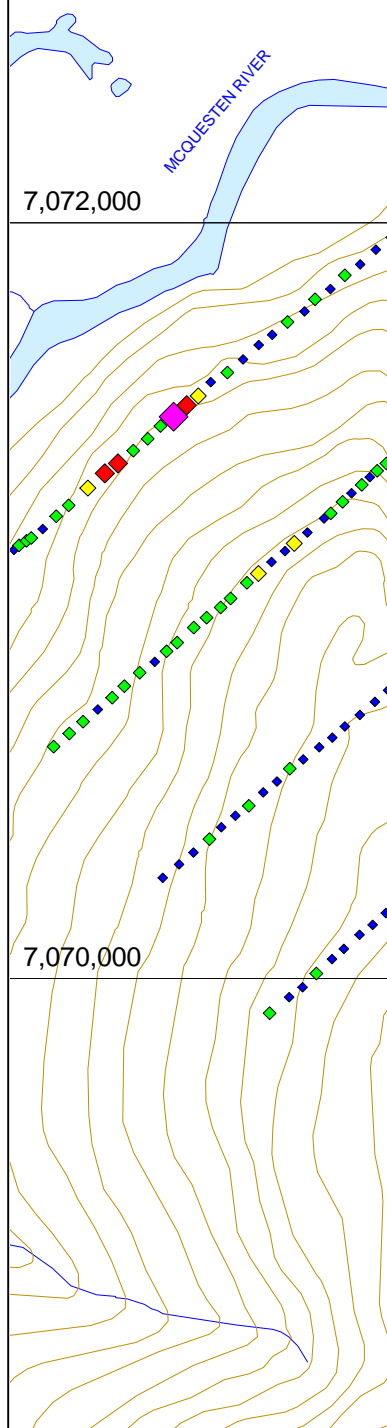
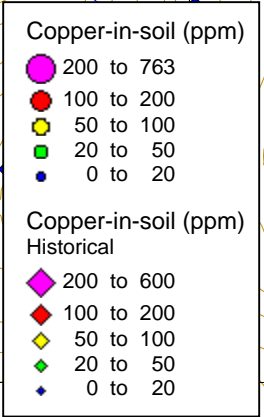
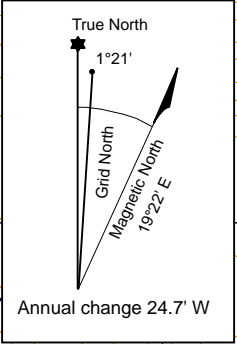
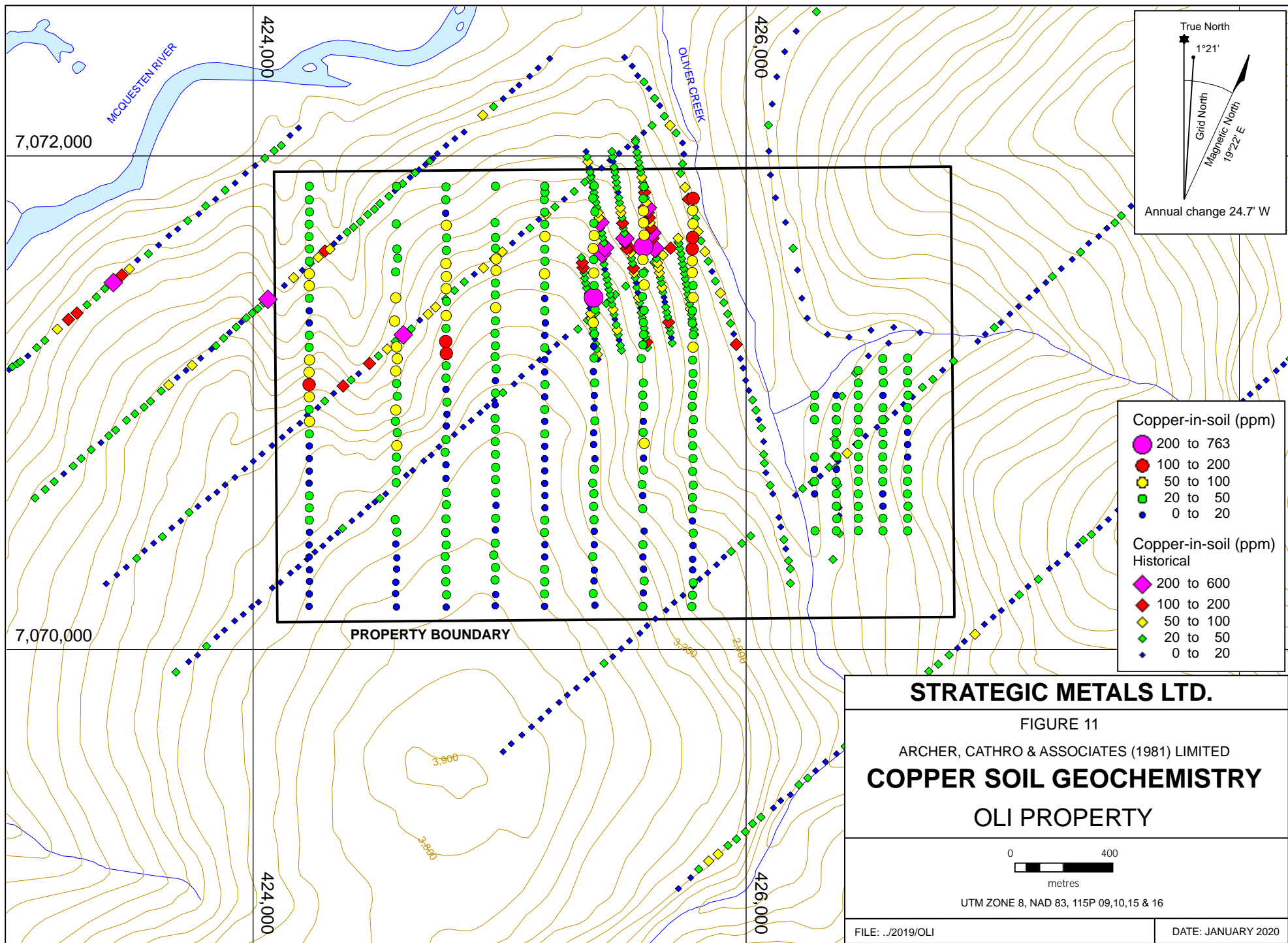
0 400  
metres

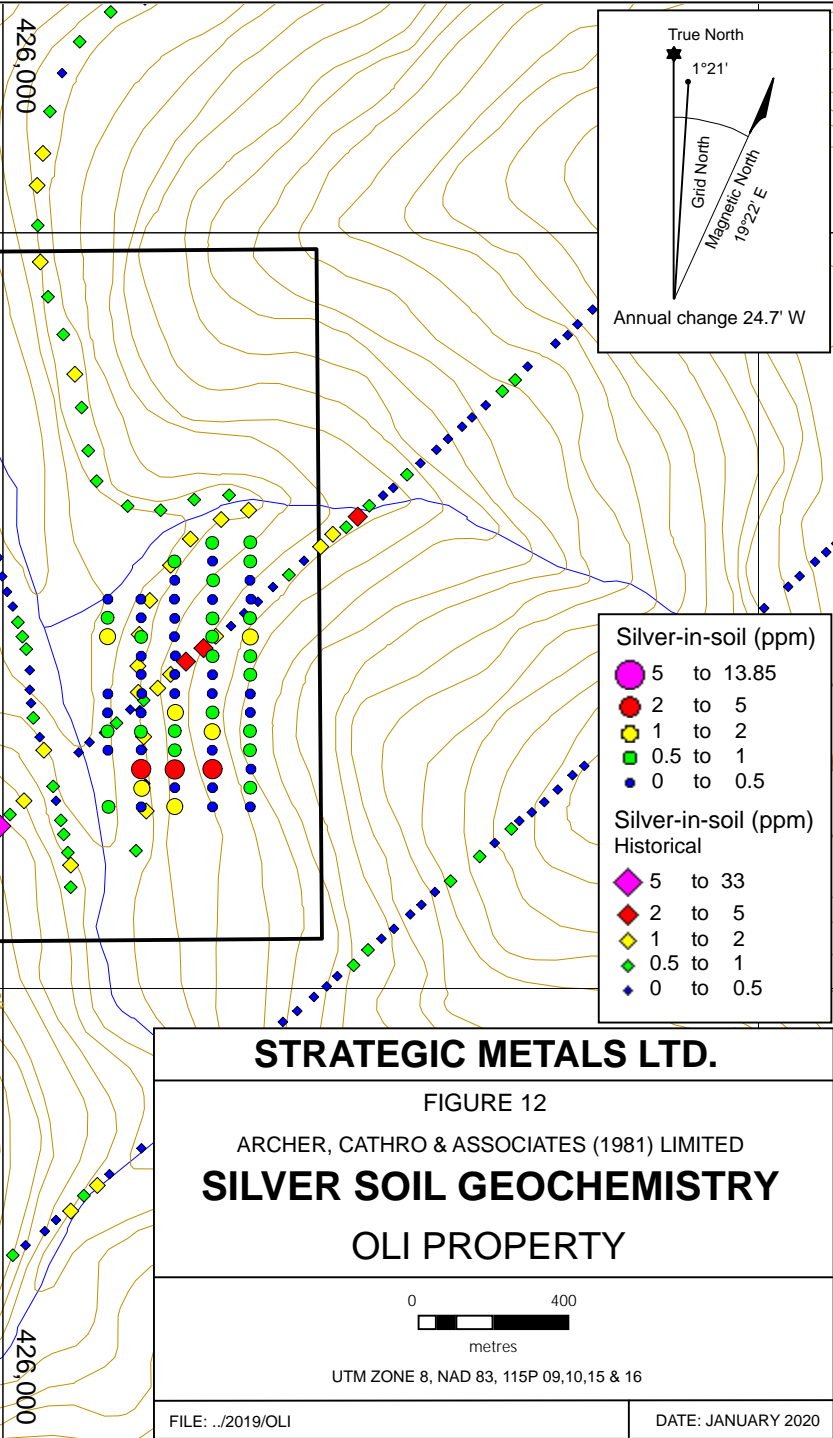
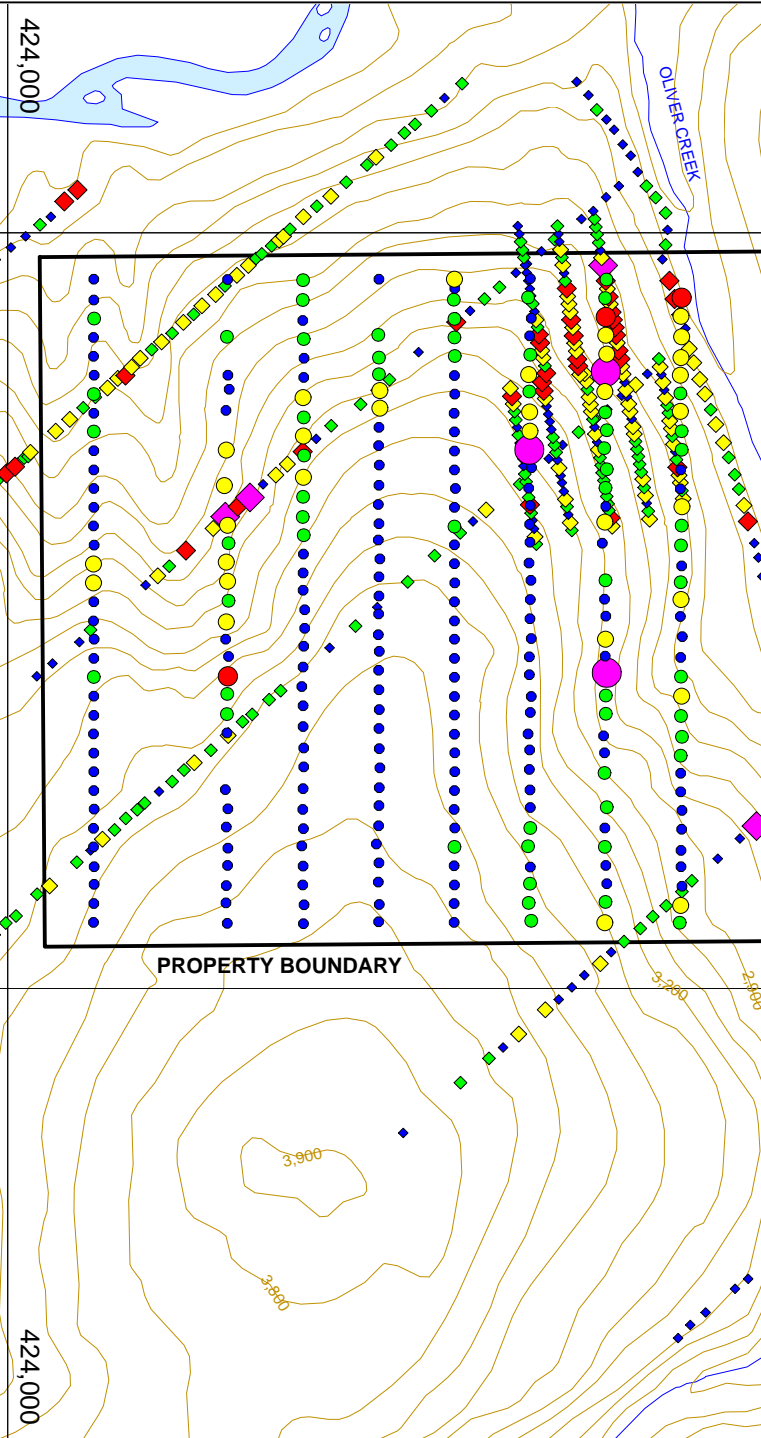
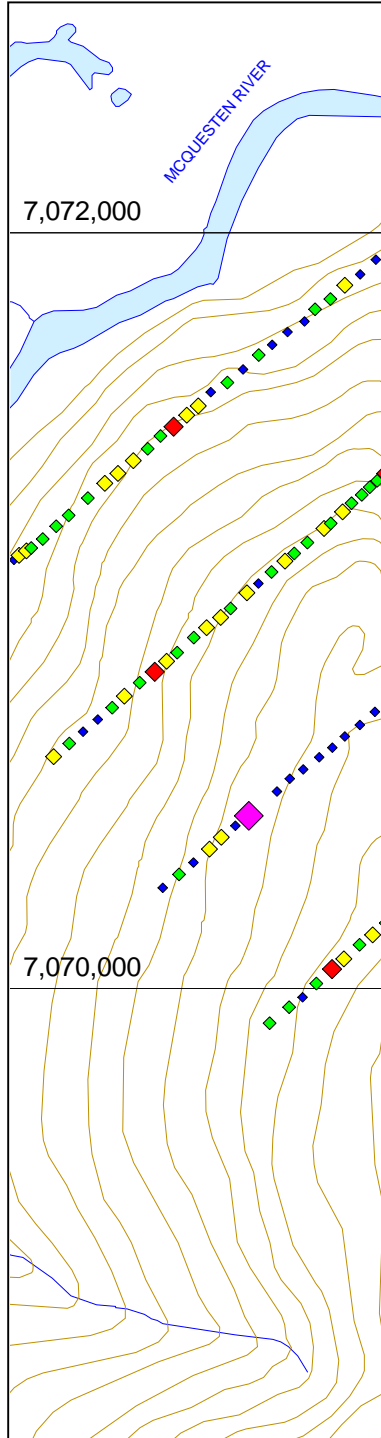
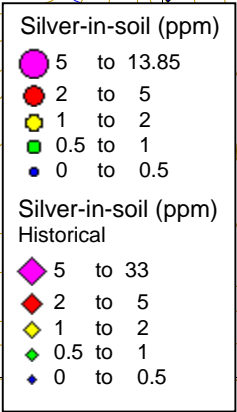
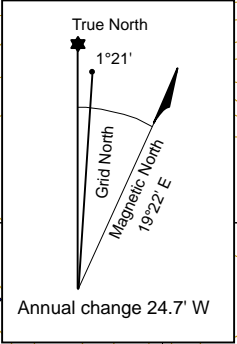
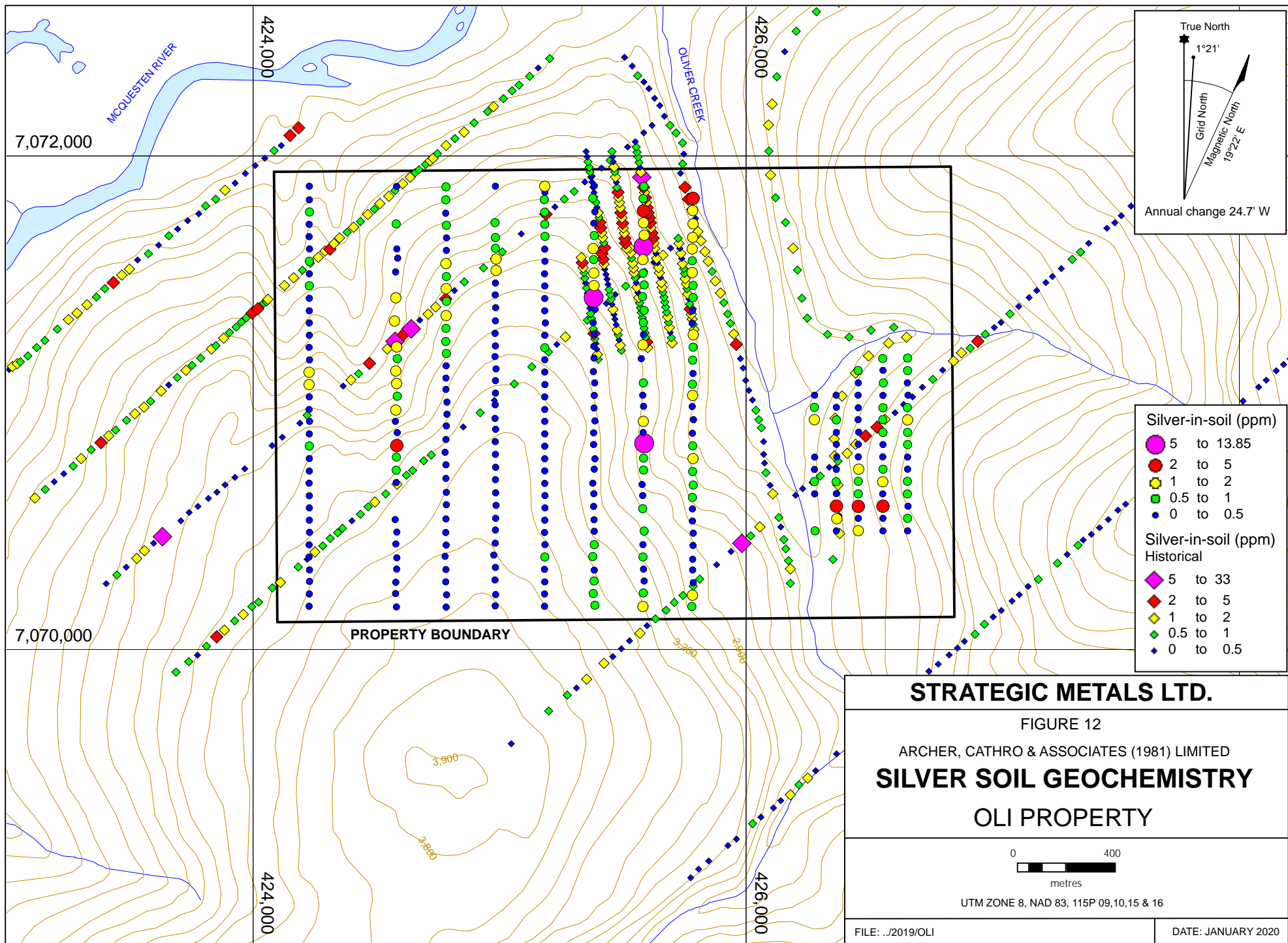
UTM ZONE 8, NAD 83, 115P 09,10,15 & 16

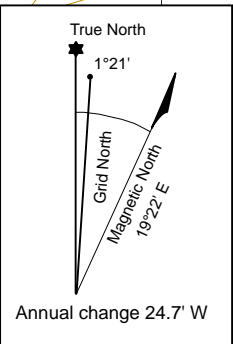
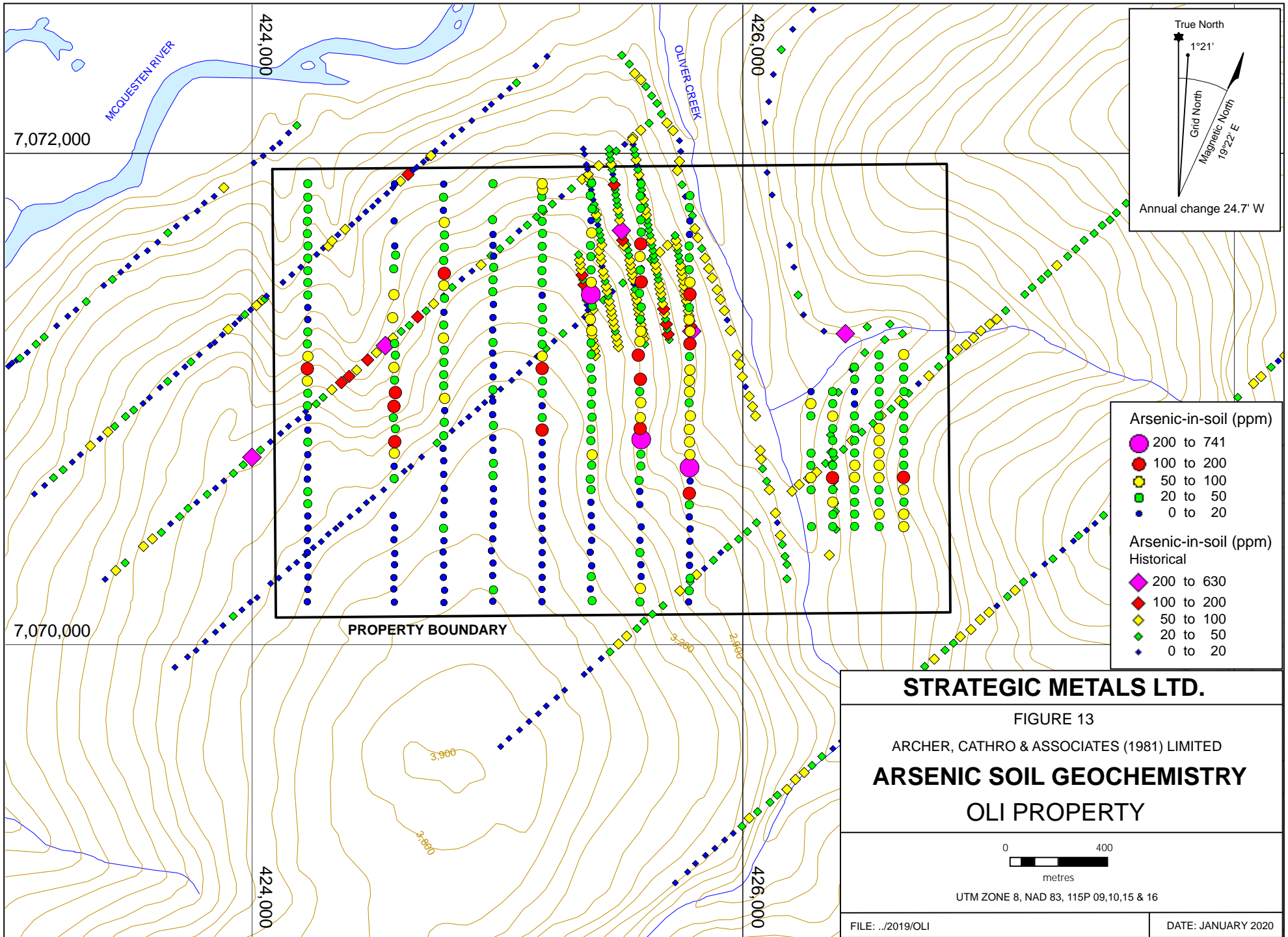
FILE: ../2019/OLI DATE: JANUARY 2020











- Arsenic-in-soil (ppm)**
- 200 to 741
  - 100 to 200
  - 50 to 100
  - 20 to 50
  - 0 to 20
- Arsenic-in-soil (ppm) Historical**
- ◆ 200 to 630
  - ◆ 100 to 200
  - ◆ 50 to 100
  - ◆ 20 to 50
  - ◆ 0 to 20

**STRATEGIC METALS LTD.**

**FIGURE 13**

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**ARSENIC SOIL GEOCHEMISTRY**

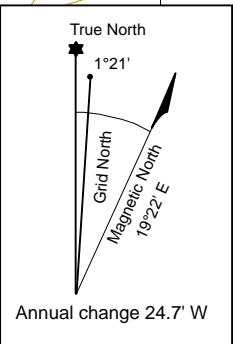
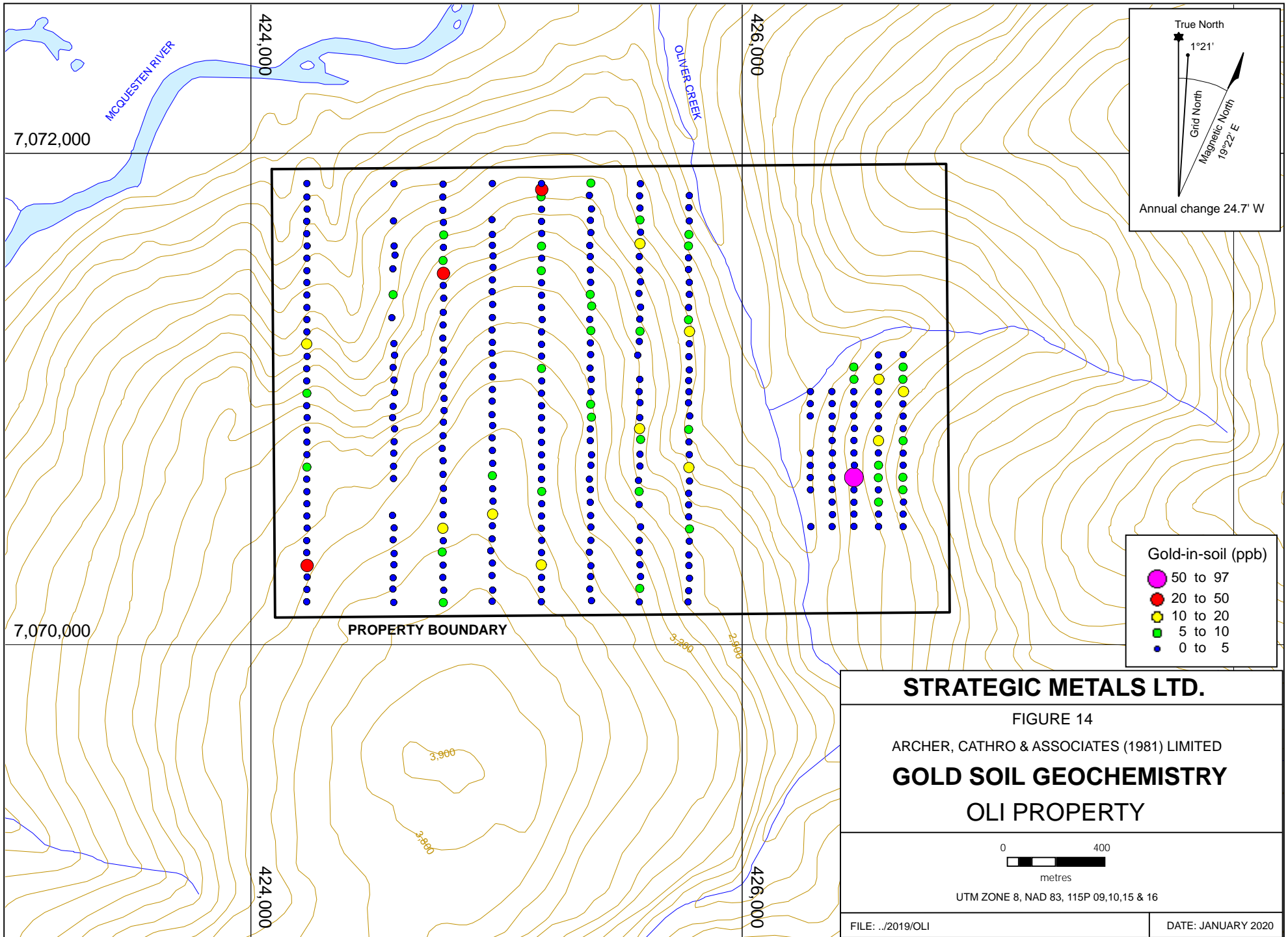
**OLI PROPERTY**

0 400  
metres

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

FILE: ../2019/OLI

DATE: JANUARY 2020



**Gold-in-soil (ppb)**

- 50 to 97
- 20 to 50
- 10 to 20
- 5 to 10
- 0 to 5

**STRATEGIC METALS LTD.**

**FIGURE 14**

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**GOLD SOIL GEOCHEMISTRY**

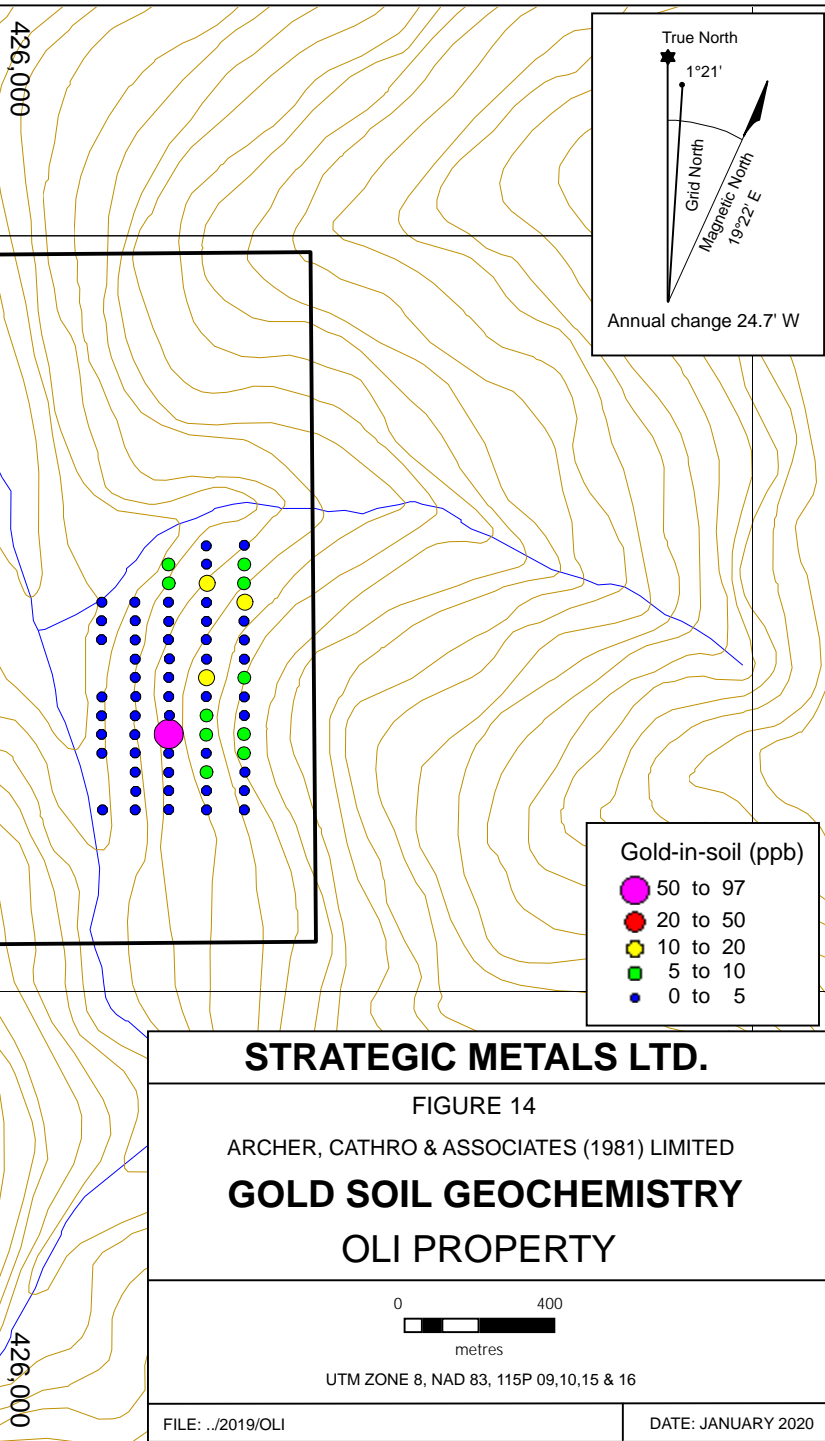
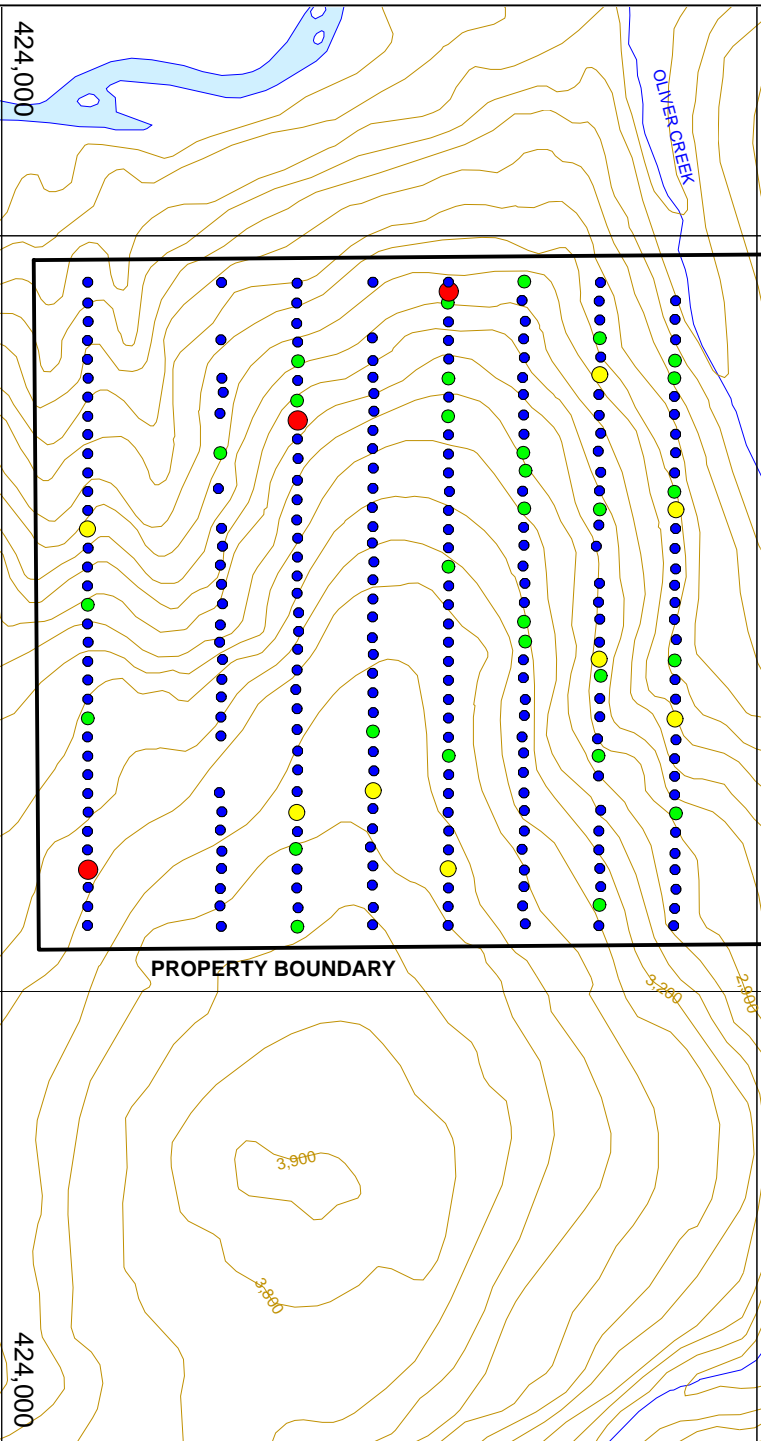
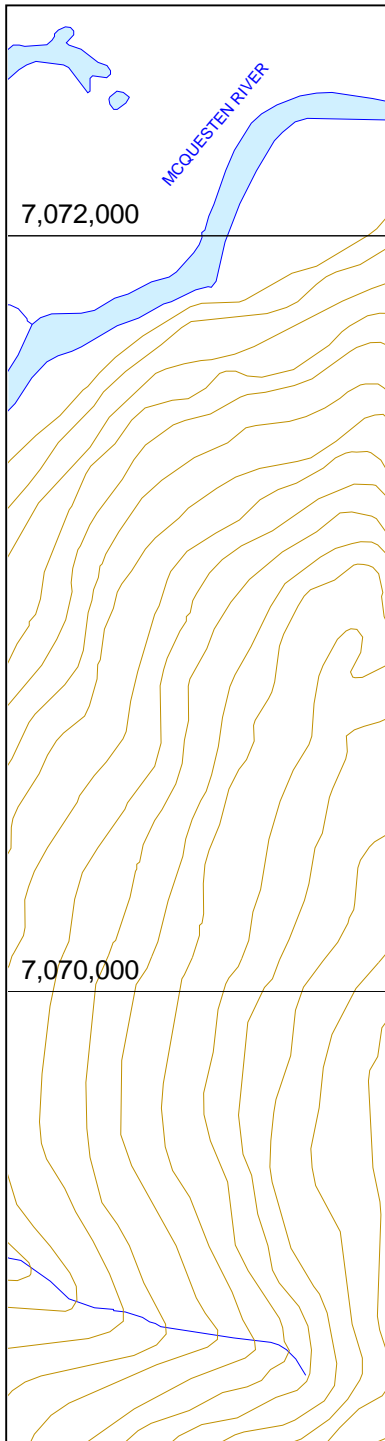
**OLI PROPERTY**

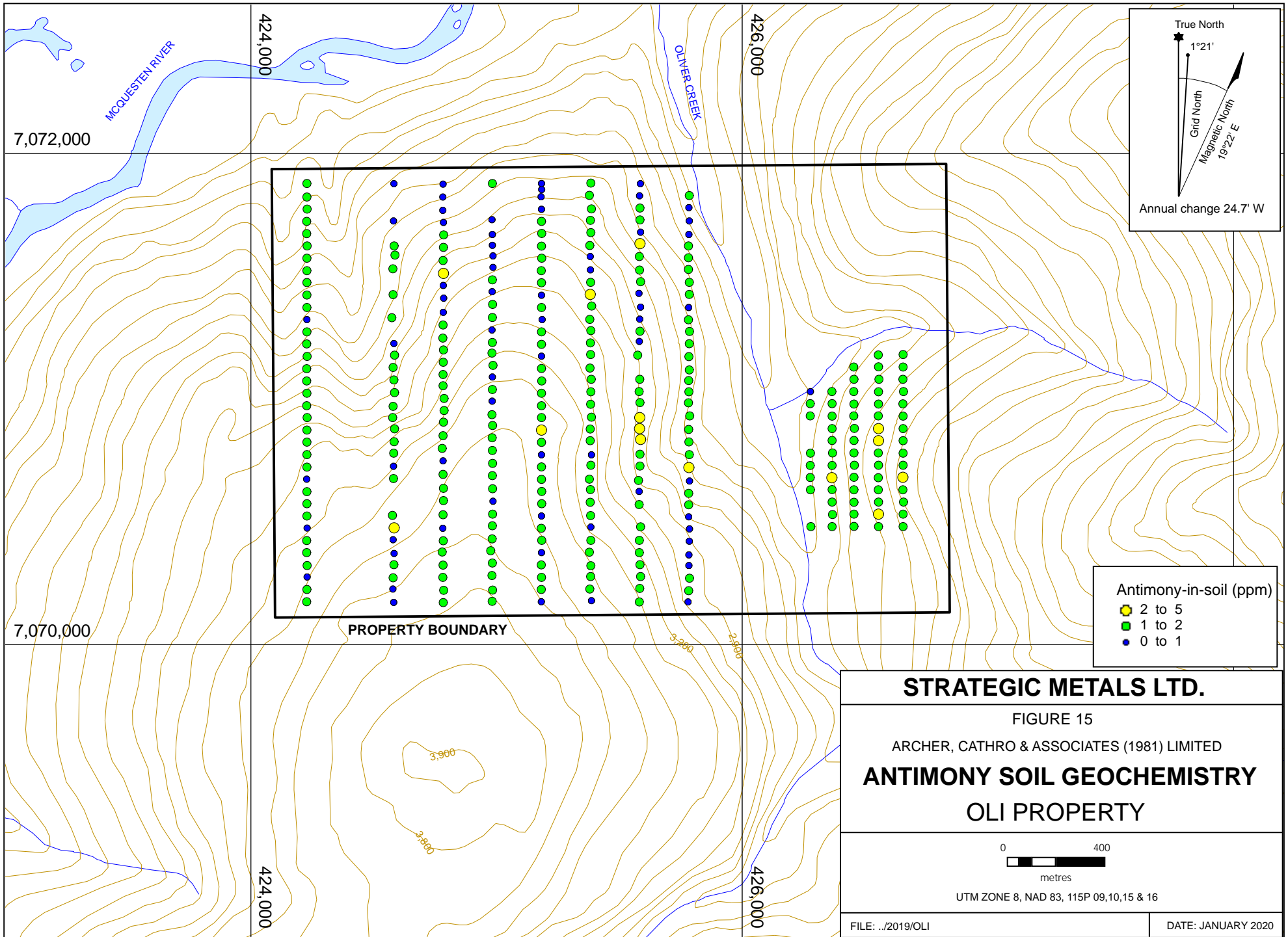
0 400  
metres

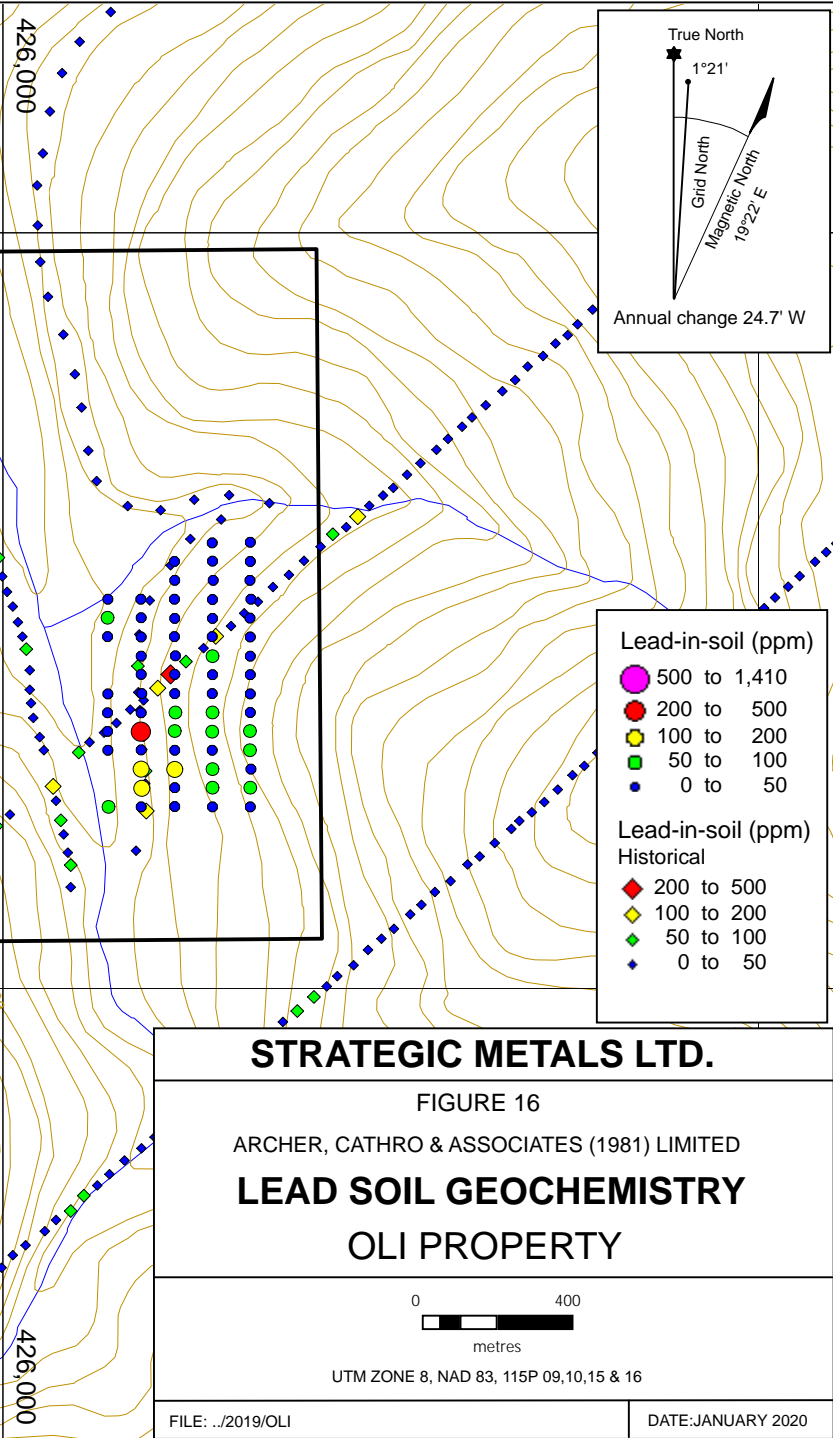
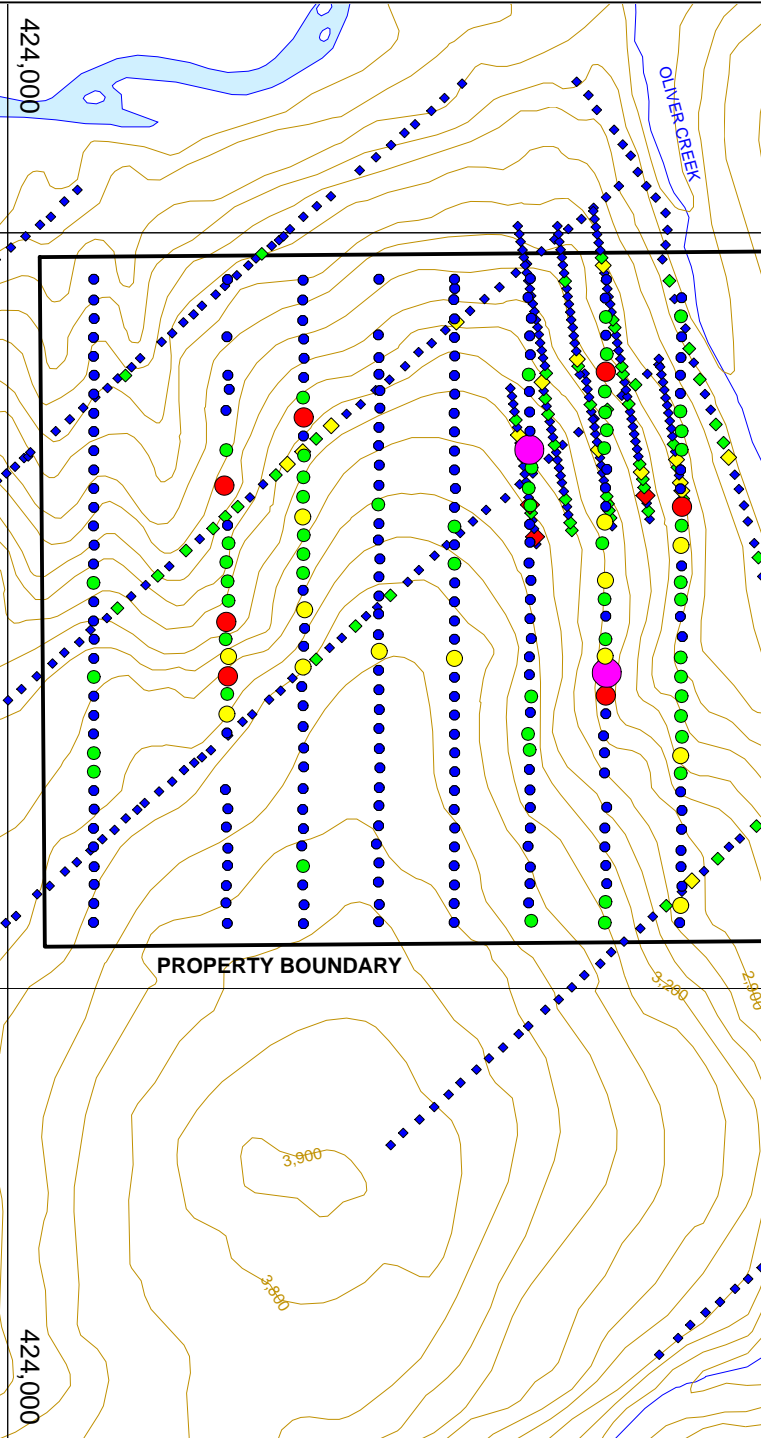
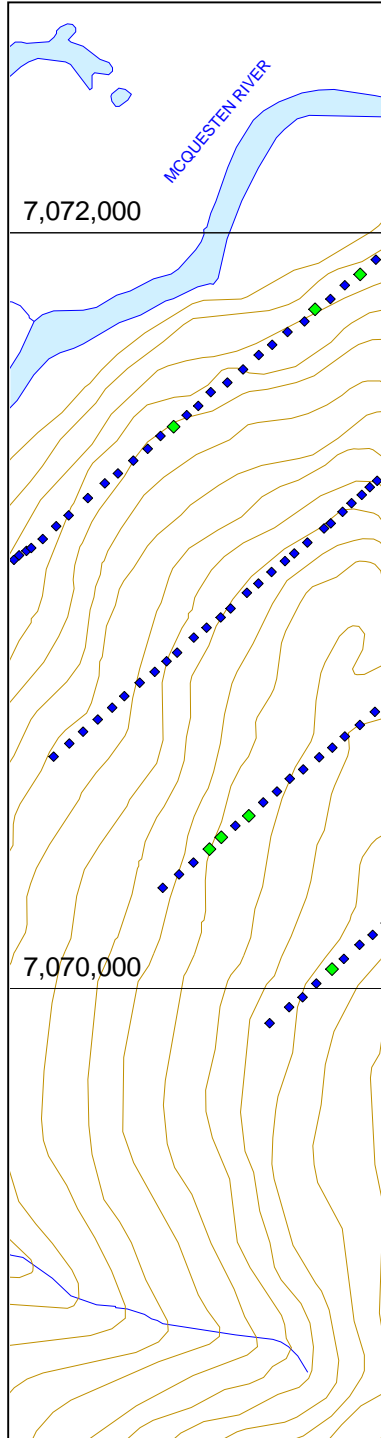
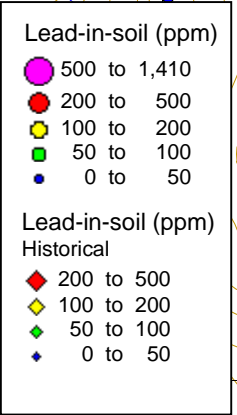
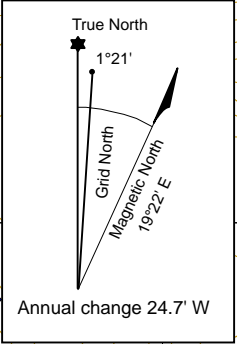
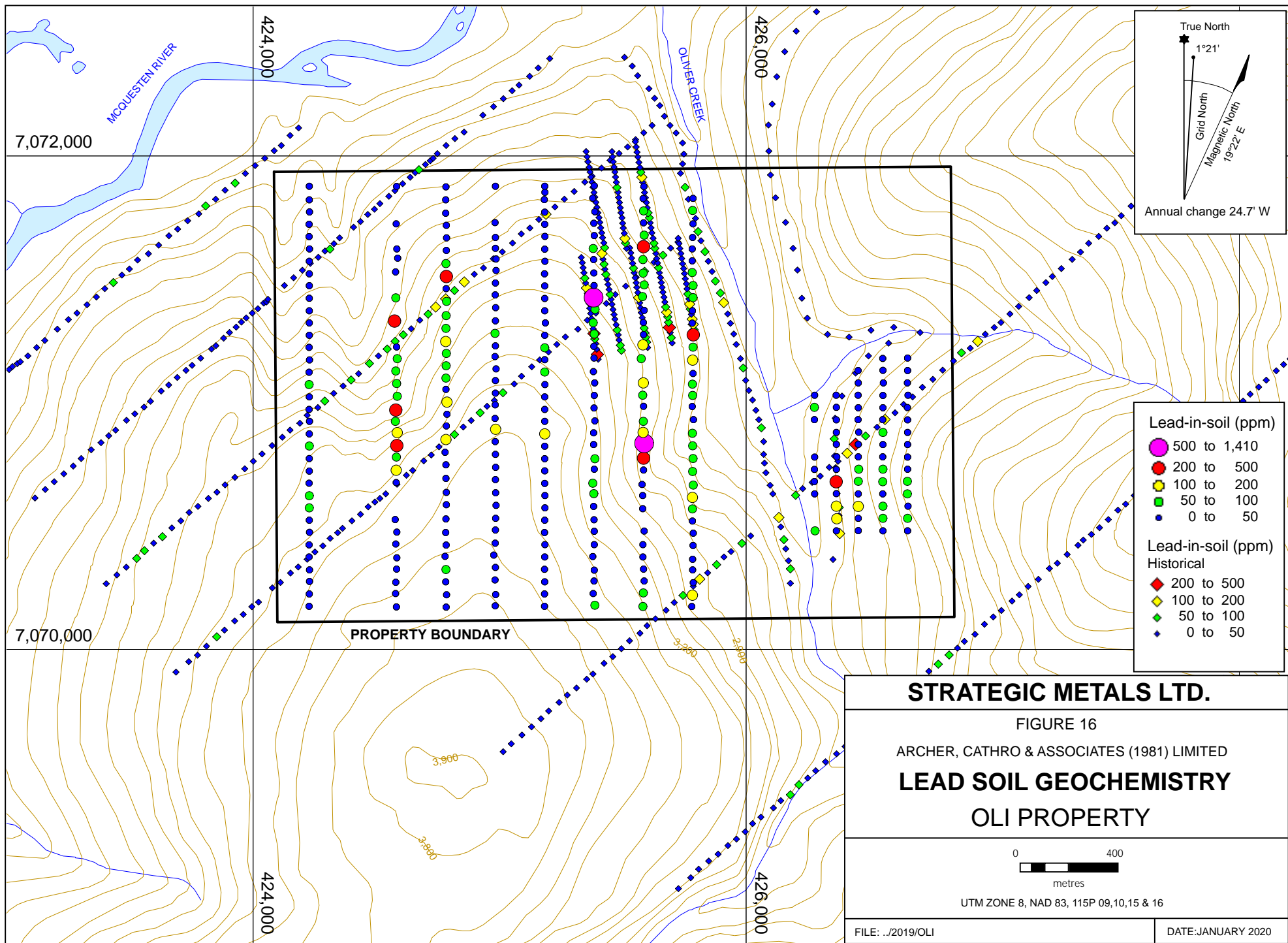
UTM ZONE 8, NAD 83, 115P 09,10,15 & 16

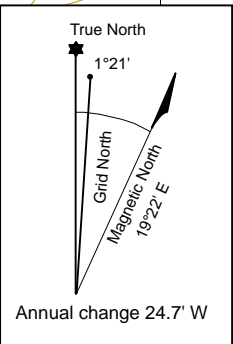
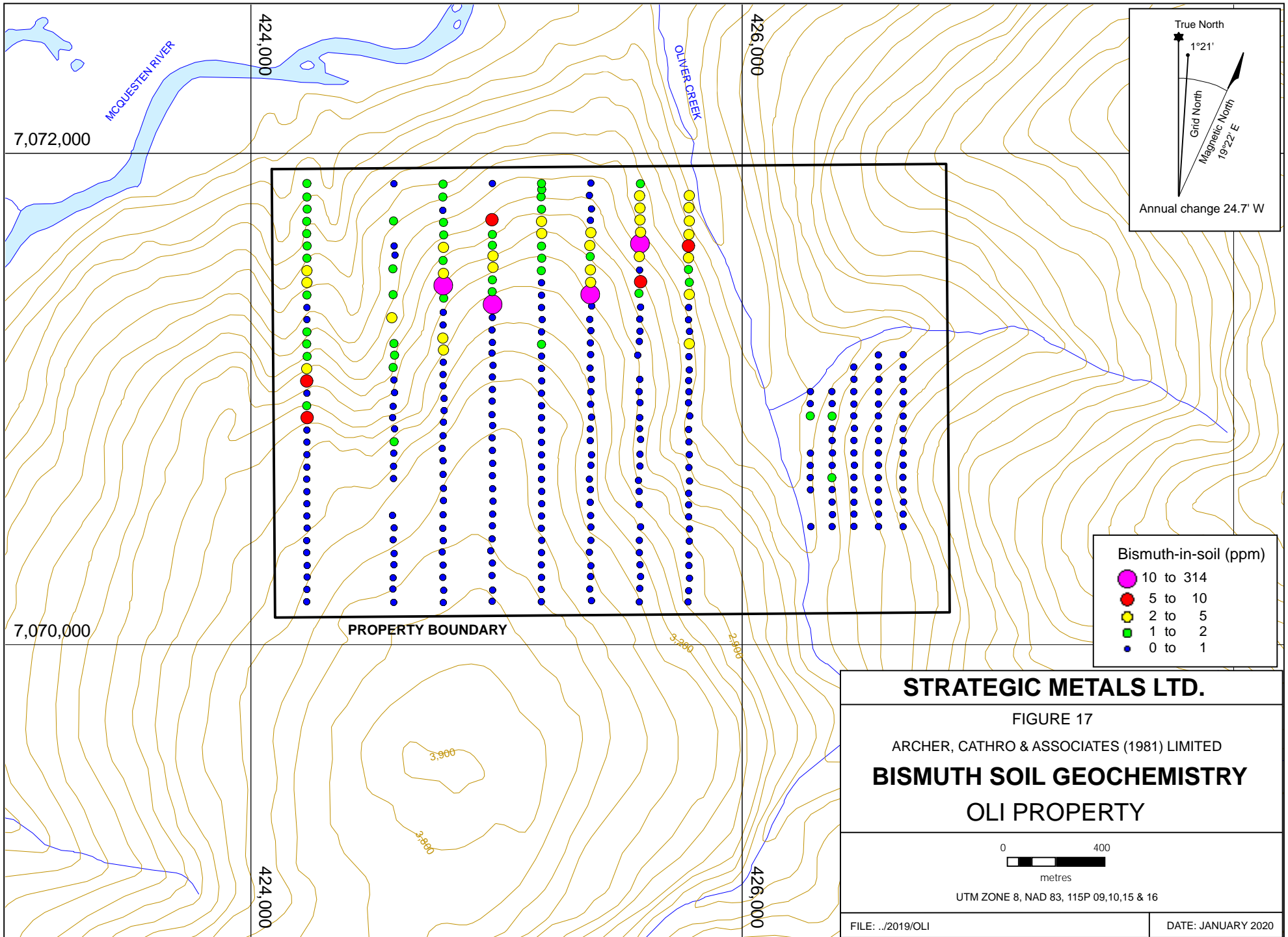
FILE: ../2019/OLI

DATE: JANUARY 2020









Bismuth-in-soil (ppm)	
<span style="color: magenta;">●</span>	10 to 314
<span style="color: red;">●</span>	5 to 10
<span style="color: yellow;">●</span>	2 to 5
<span style="color: green;">●</span>	1 to 2
<span style="color: blue;">●</span>	0 to 1

**STRATEGIC METALS LTD.**

**FIGURE 17**

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**BISMUTH SOIL GEOCHEMISTRY**

**OLI PROPERTY**

0 400  
metres

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

FILE: ../2019/OLI

DATE: JANUARY 2020

## **2019 Soil Geochemistry Results**

Soil geochemistry results from the 2019 program broadly define multiple areas of coincident or overlapping anomalous values. The location of each anomaly described below can be referenced using Figure 7.

Anomaly A is a 400 by 250 m east-west oriented multi-elemental geochemical anomaly on the northeastern facing slope near the centre of the claim block. It comprises very strongly anomalous values for copper, zinc, tungsten and tin with strong arsenic-silver-lead-bismuth support. This area was historically soil sampled, trenched and drilled, and represents the original “discovery” zone on the property.

Anomaly B is 500 m south of Anomaly A and is a 250 by 100 m southeast-northwest oriented zone of strong silver, lead and antimony with moderate arsenic, gold, zinc, copper, tungsten and tin support.

Anomaly C occurs over a 400 m diameter area in the southeastern portion of the claim block, and is centred on the peak gold-in-soil value (97 ppb). Strong silver, lead, zinc and arsenic values occur within this anomaly with moderate antimony, gold  $\pm$  tungsten  $\pm$  tin support.

Anomaly D extends over a 650 by 350 m area in the western portion of the claim block. It features moderate to strong tin, arsenic, zinc, lead and silver values with moderate to strong tungsten, copper  $\pm$  bismuth support. Four strong lead-in-soil values extend 400 m eastward from Anomaly D toward Anomaly C.

Bismuth, tungsten and tin correlate well and are weakly anomalous throughout the property. Bismuth has a very strong response in the north, but displays an abrupt decrease in values in the southern portion of the grid. This break wraps around topography (i.e. same topographical level) but is not explained by any known geological or geomorphological features.

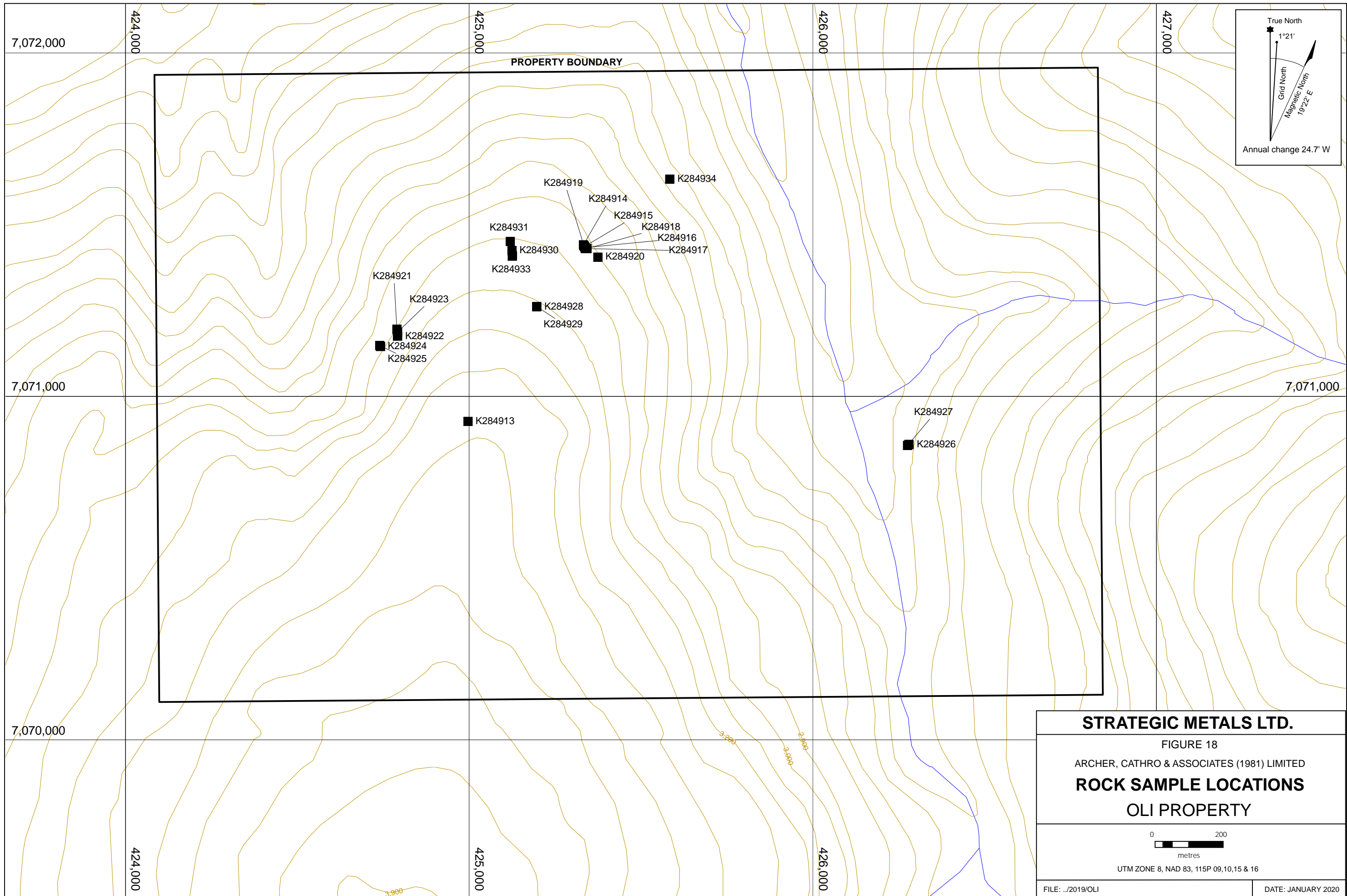
## **ROCK GEOCHEMISTRY**

In 2019, Strategic Metals collected 22 rock samples for geochemical analysis. Two drill core samples were also collected for petrographic analysis, but these samples have not yet been submitted. The rock samples were chip and specimen samples from historical trenches on the property. Rock Sample Descriptions are provided in Appendix IV, and Certificates of Analysis are provided in Appendix IV.

The 2019 rock sample locations are shown on Figure 18, and results for tin, gold, silver, lead, zinc, cobalt, tungsten, copper, bismuth and antimony are illustrated thematically on Figures 19 to 28, respectively.

All rock sample sites in 2019 were marked with orange flagging tape labelled with the sample number. The location of each sample was determined using a handheld GPS unit. All samples sent for shipment were double bagged with an individually pre-numbered sample tag placed in each bag.





**STRATEGIC METALS LTD.**

FIGURE 18

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

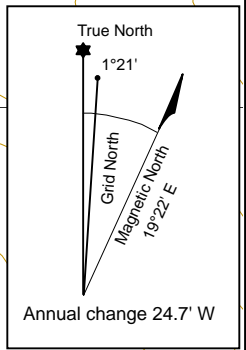
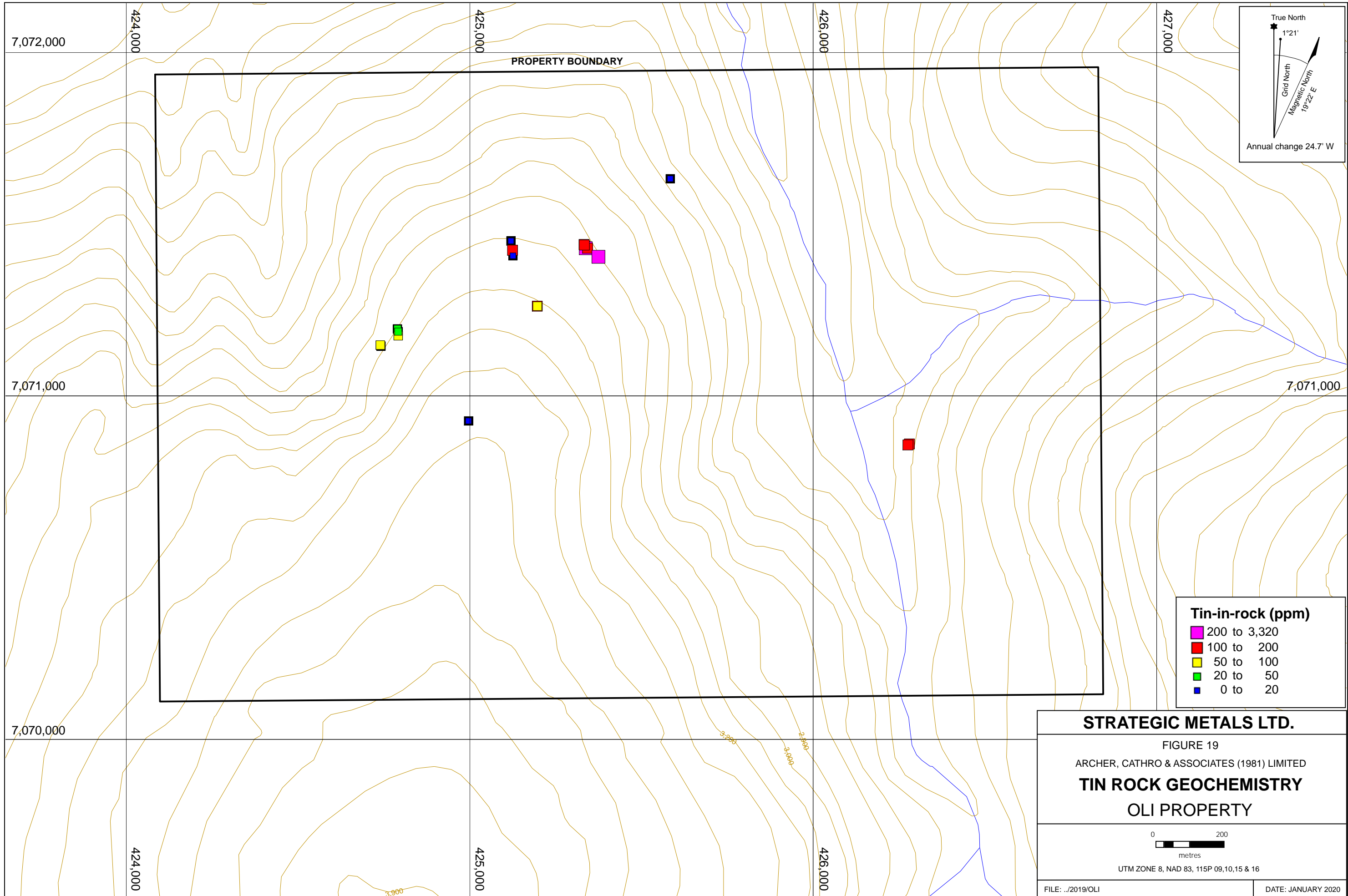
**ROCK SAMPLE LOCATIONS**

**OLI PROPERTY**

0 200  
metres

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

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



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

<span style="color: magenta;">■</span>	200 to 3,320
<span style="color: red;">■</span>	100 to 200
<span style="color: yellow;">■</span>	50 to 100
<span style="color: green;">■</span>	20 to 50
<span style="color: blue;">■</span>	0 to 20

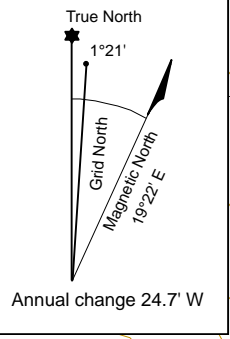
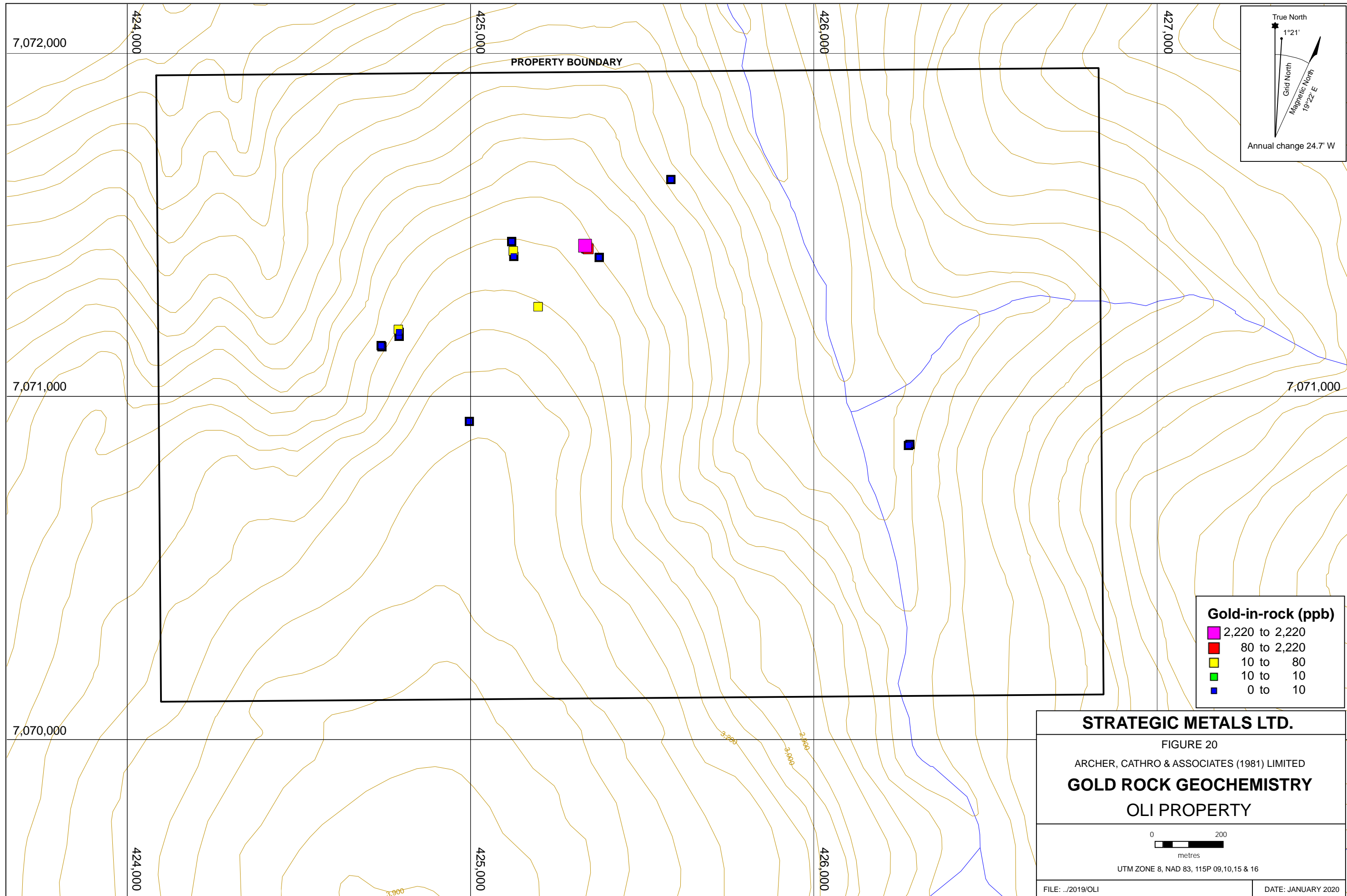
**STRATEGIC METALS LTD.**

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

0      200  
 ───────────  
 metres

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

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



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

<span style="color: pink;">■</span>	2,220 to 2,220
<span style="color: red;">■</span>	80 to 2,220
<span style="color: yellow;">■</span>	10 to 80
<span style="color: green;">■</span>	10 to 10
<span style="color: blue;">■</span>	0 to 10

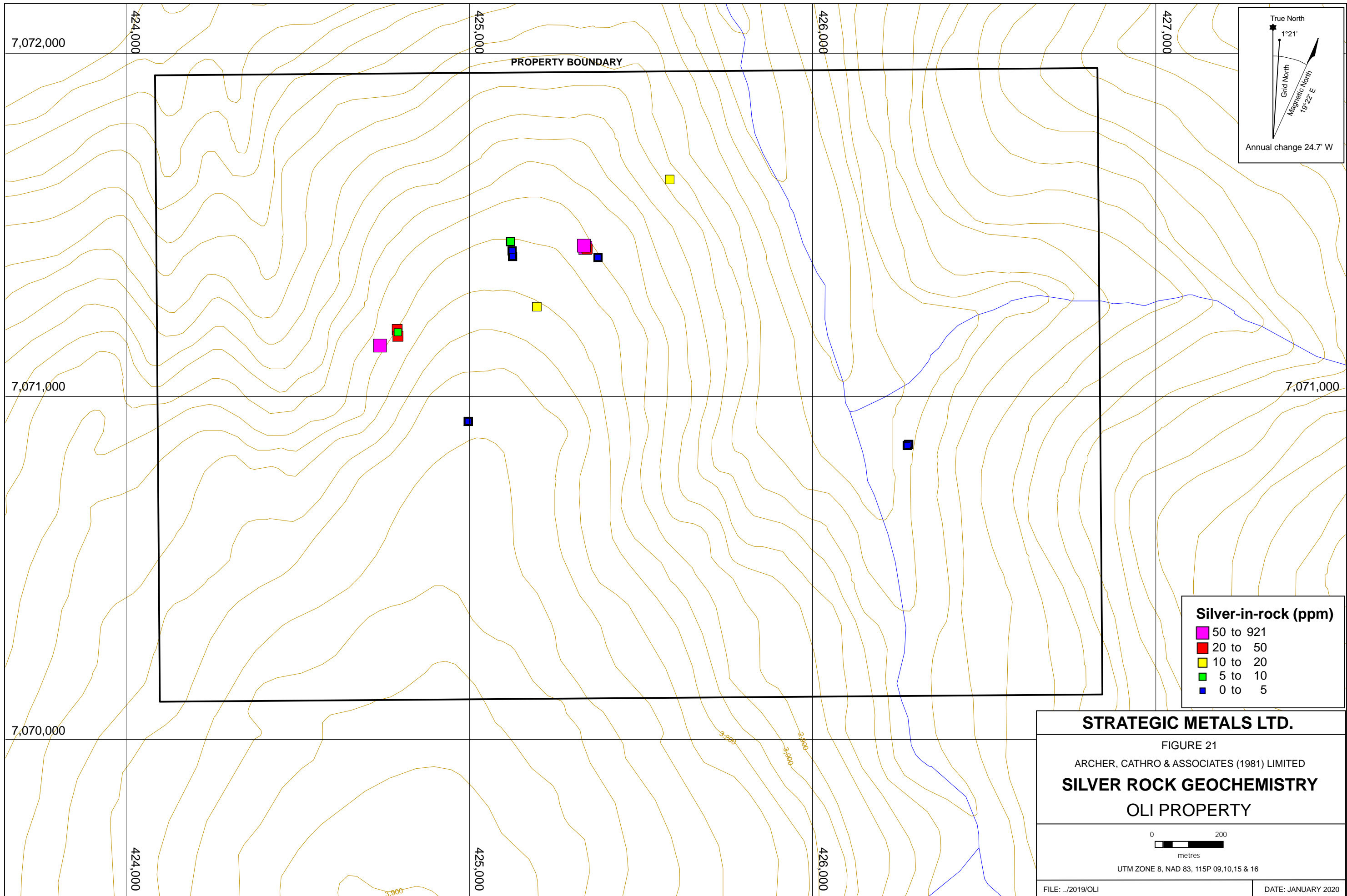
**STRATEGIC METALS LTD.**

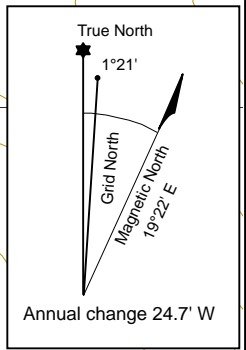
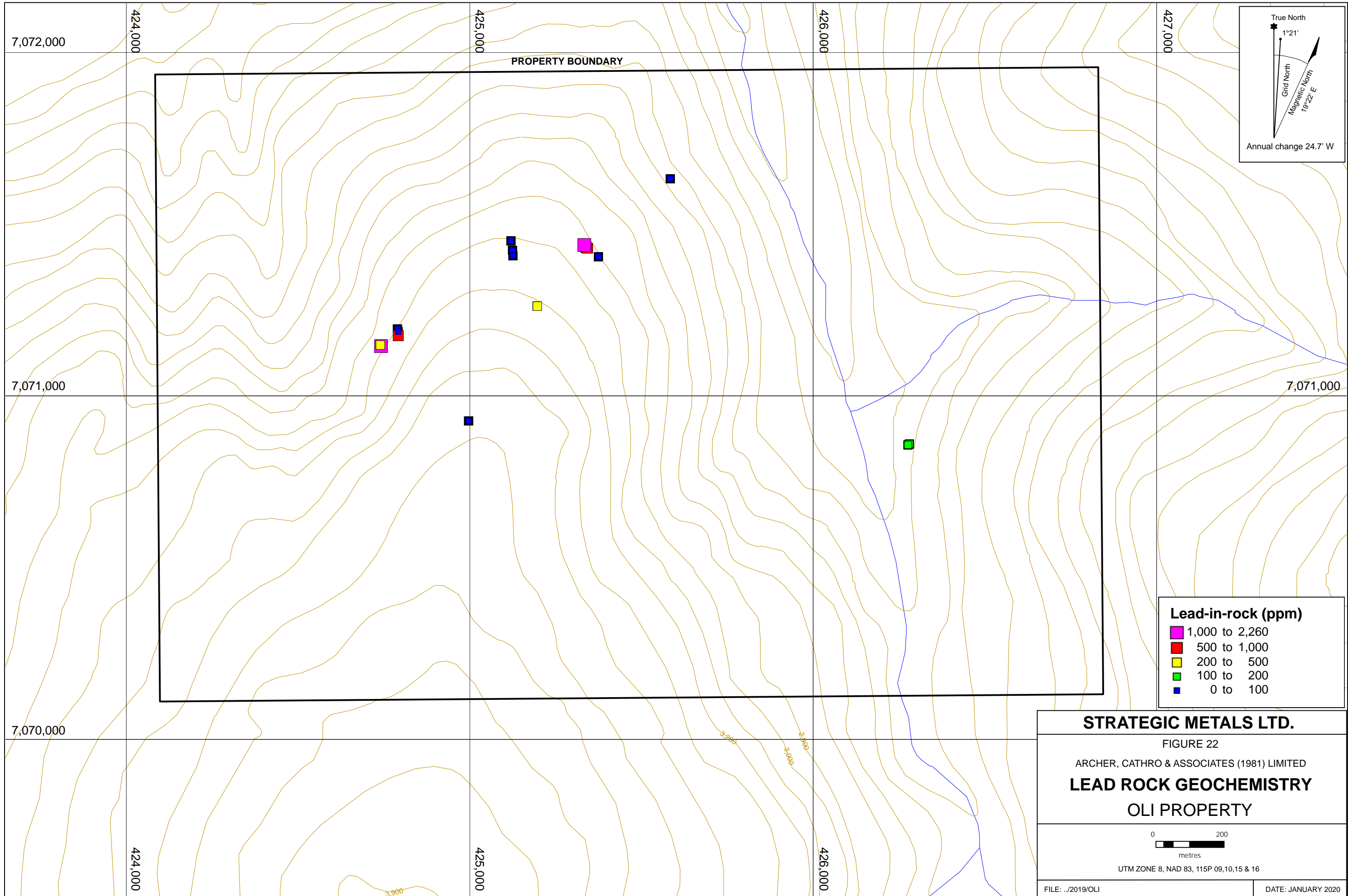
FIGURE 20  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**GOLD ROCK GEOCHEMISTRY**  
 OLI PROPERTY

0      200  
 ──────────  
 metres

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

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





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

<span style="color: magenta;">■</span>	1,000 to 2,260
<span style="color: red;">■</span>	500 to 1,000
<span style="color: yellow;">■</span>	200 to 500
<span style="color: green;">■</span>	100 to 200
<span style="color: blue;">■</span>	0 to 100

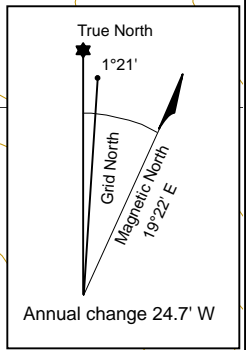
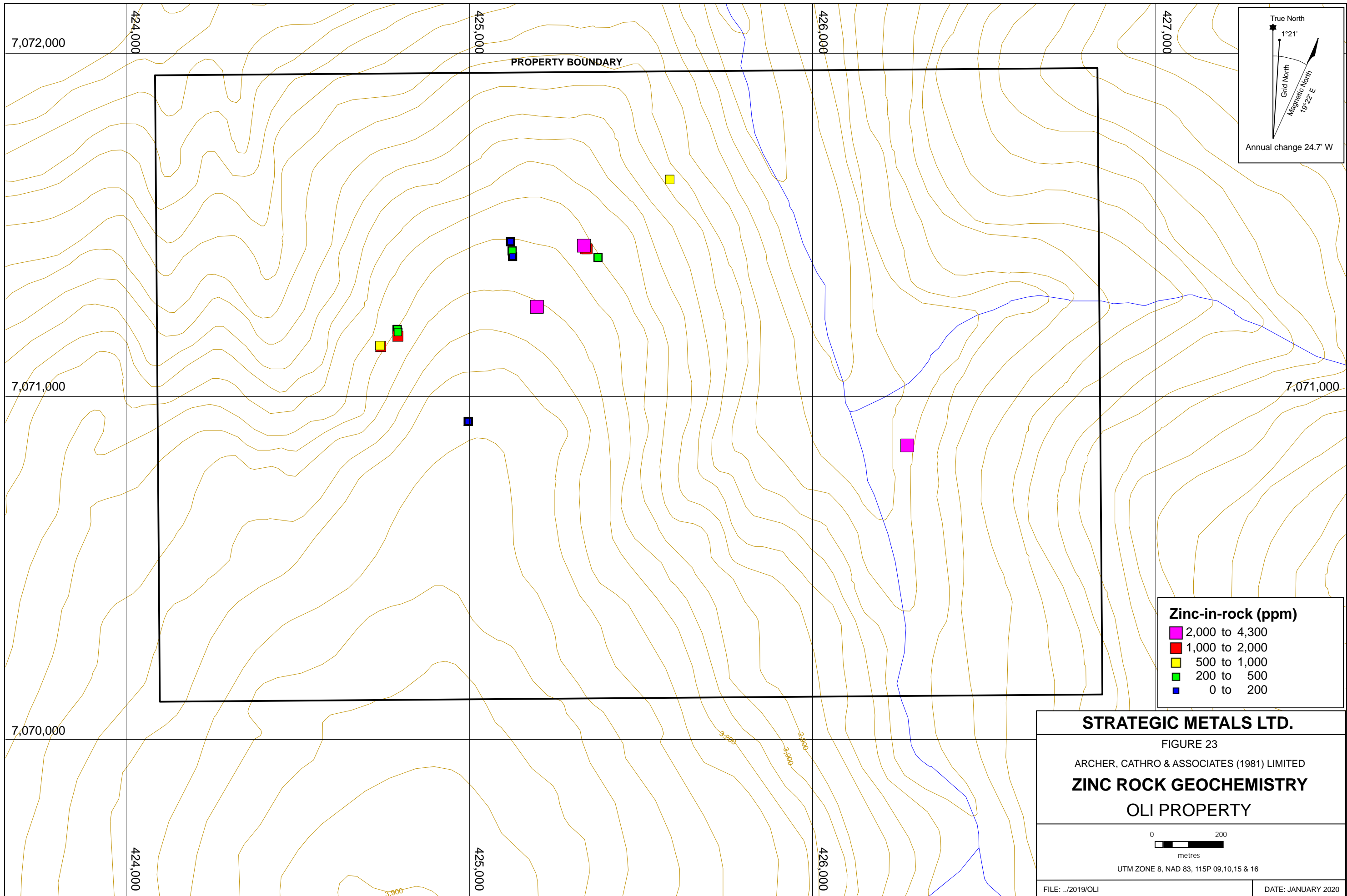
**STRATEGIC METALS LTD.**

FIGURE 22  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**LEAD ROCK GEOCHEMISTRY**  
 OLI PROPERTY

0      200  
 ───────────  
 metres

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

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



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

<span style="color: magenta;">■</span>	2,000 to 4,300
<span style="color: red;">■</span>	1,000 to 2,000
<span style="color: yellow;">■</span>	500 to 1,000
<span style="color: green;">■</span>	200 to 500
<span style="color: blue;">■</span>	0 to 200

**STRATEGIC METALS LTD.**

FIGURE 23

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

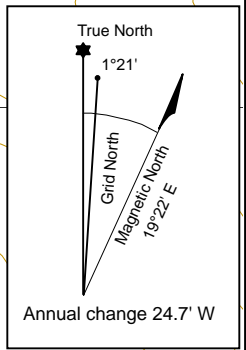
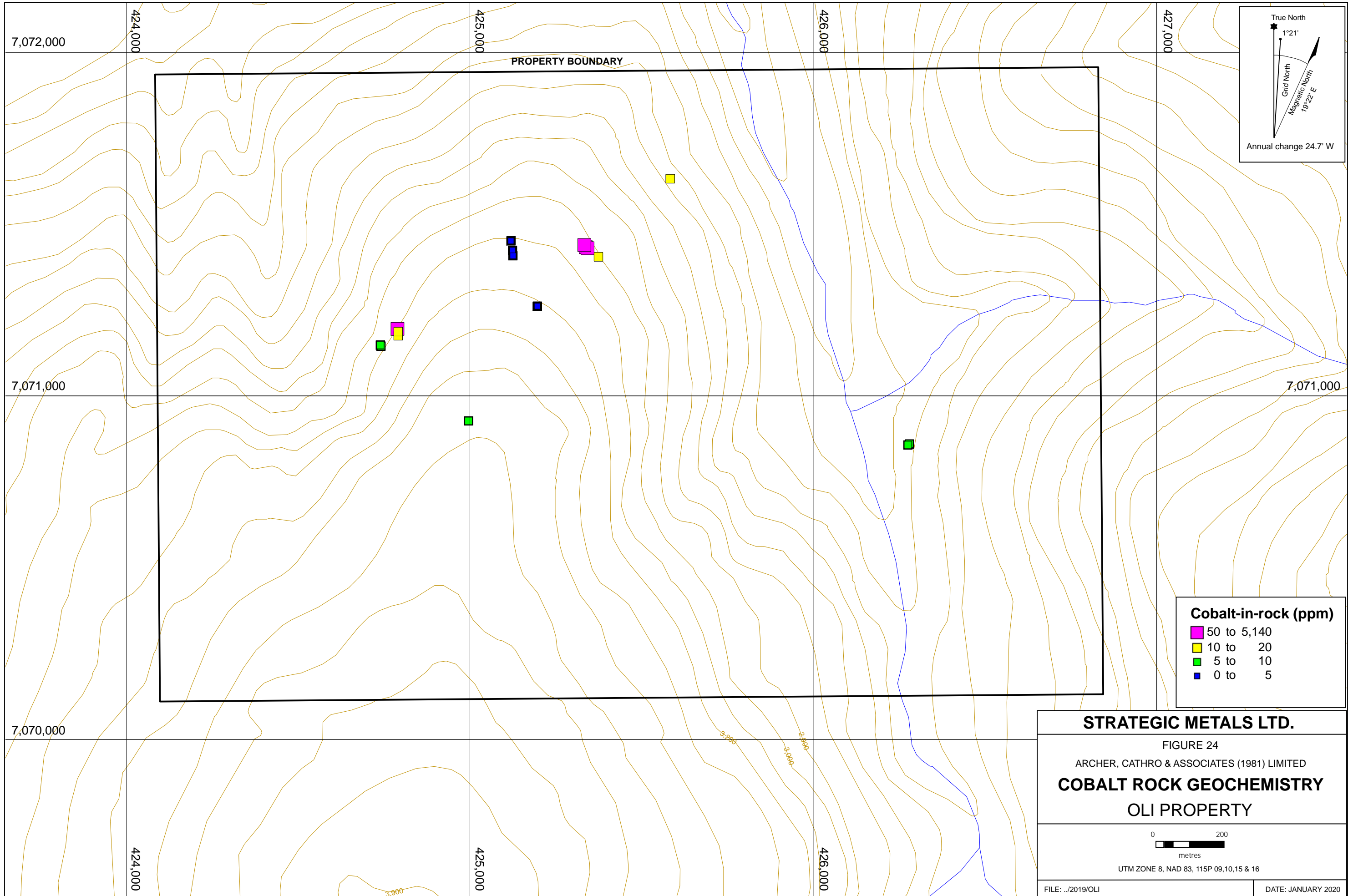
**ZINC ROCK GEOCHEMISTRY**

**OLI PROPERTY**

0 200  
metres

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

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



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

<span style="color: pink;">■</span>	50 to 5,140
<span style="color: yellow;">■</span>	10 to 20
<span style="color: green;">■</span>	5 to 10
<span style="color: blue;">■</span>	0 to 5

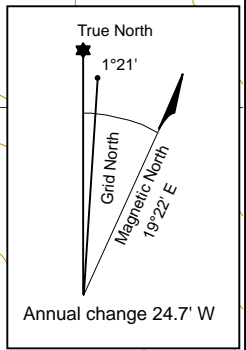
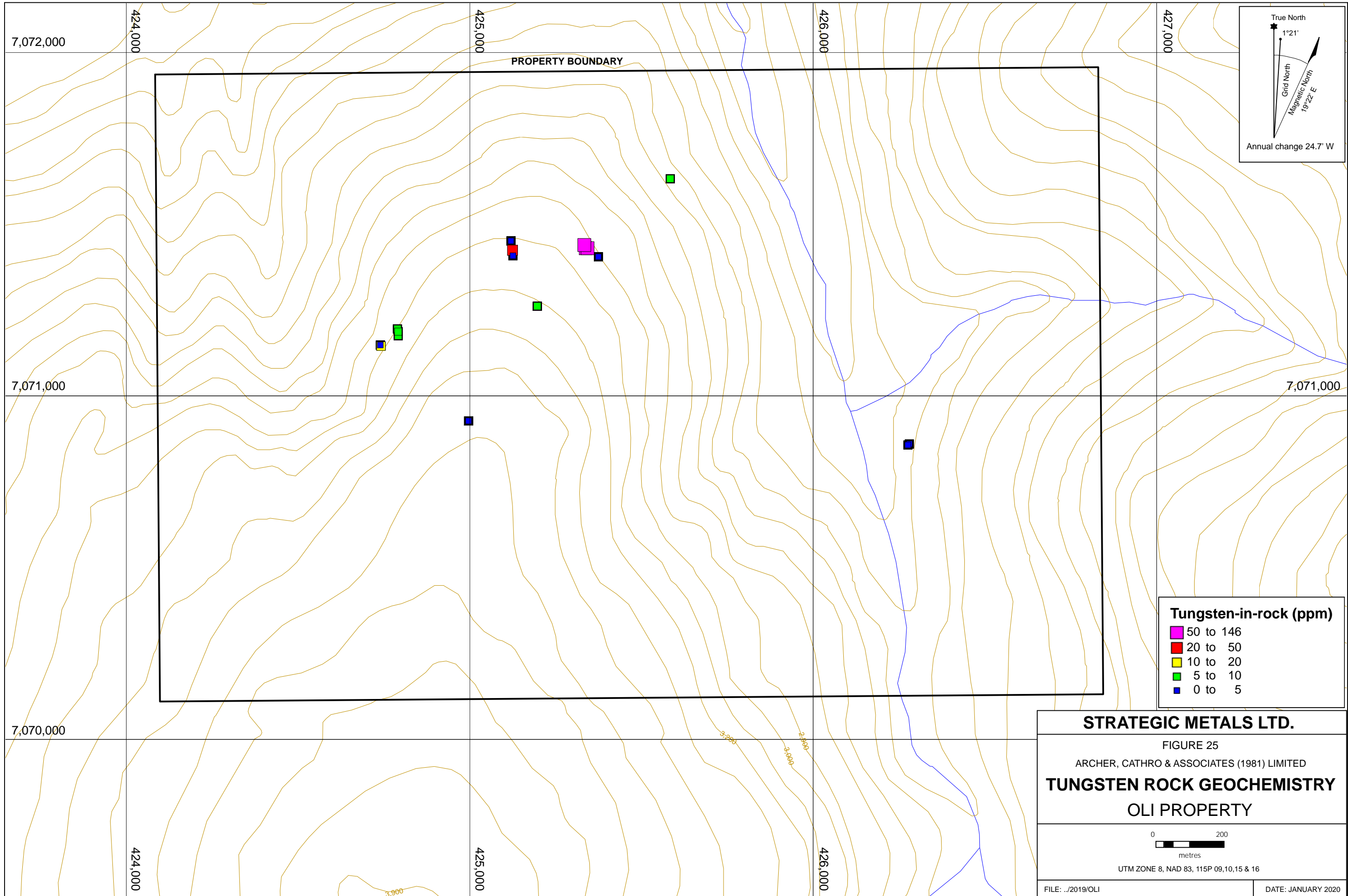
**STRATEGIC METALS LTD.**

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

0 200  
metres

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

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



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

<span style="color: magenta;">■</span>	50 to 146
<span style="color: red;">■</span>	20 to 50
<span style="color: yellow;">■</span>	10 to 20
<span style="color: green;">■</span>	5 to 10
<span style="color: blue;">■</span>	0 to 5

**STRATEGIC METALS LTD.**

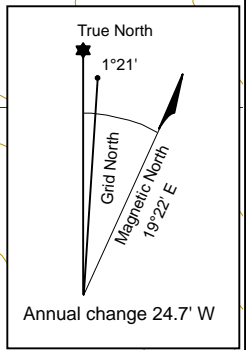
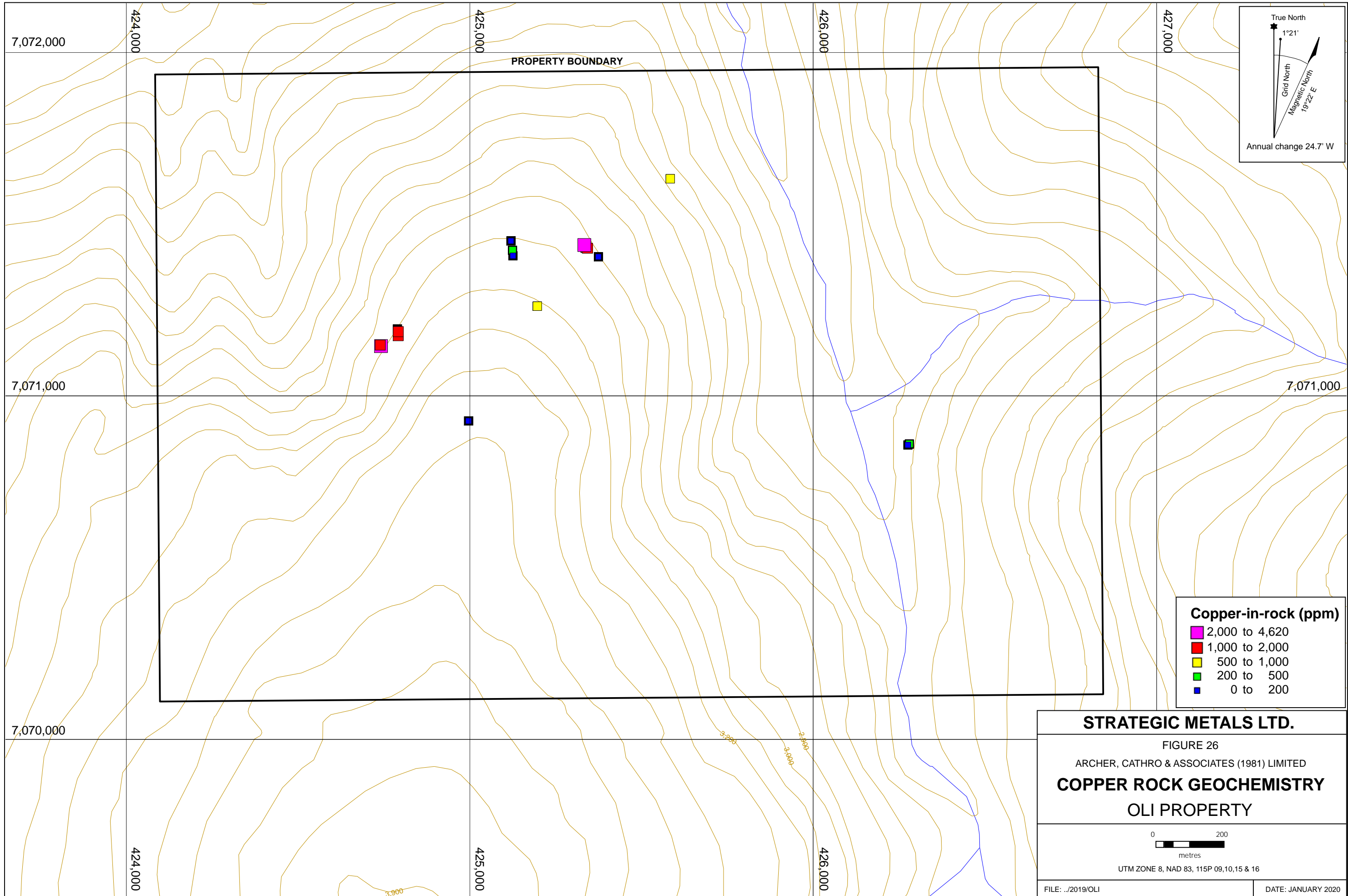
FIGURE 25  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**TUNGSTEN ROCK GEOCHEMISTRY**  
OLI PROPERTY

0      200  
metres

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

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





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

<span style="color: pink;">■</span>	2,000 to 4,620
<span style="color: red;">■</span>	1,000 to 2,000
<span style="color: yellow;">■</span>	500 to 1,000
<span style="color: green;">■</span>	200 to 500
<span style="color: blue;">■</span>	0 to 200

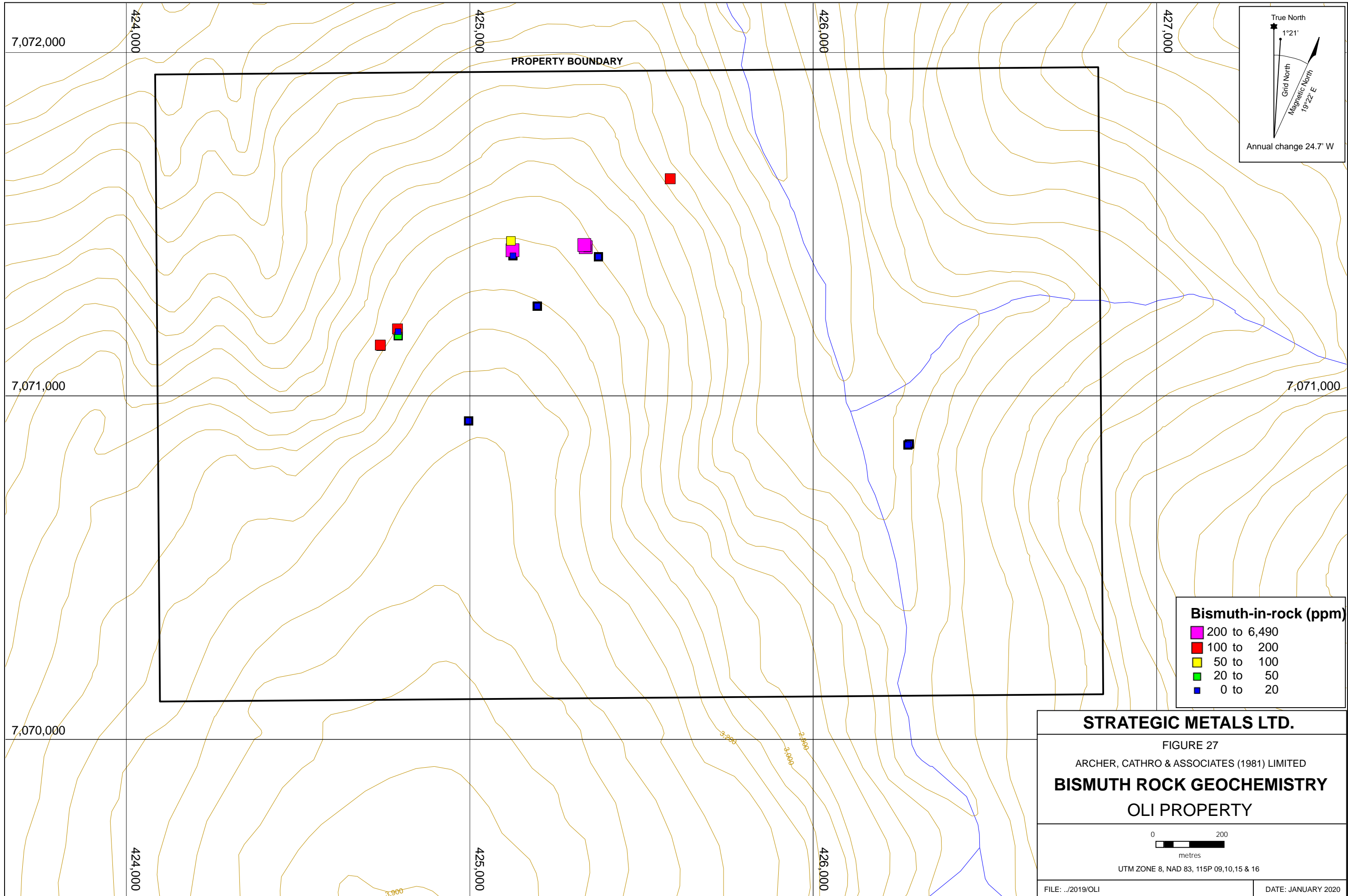
**STRATEGIC METALS LTD.**

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

0 200  
metres

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

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



**Bismuth-in-rock (ppm)**

- 200 to 6,490
- 100 to 200
- 50 to 100
- 20 to 50
- 0 to 20

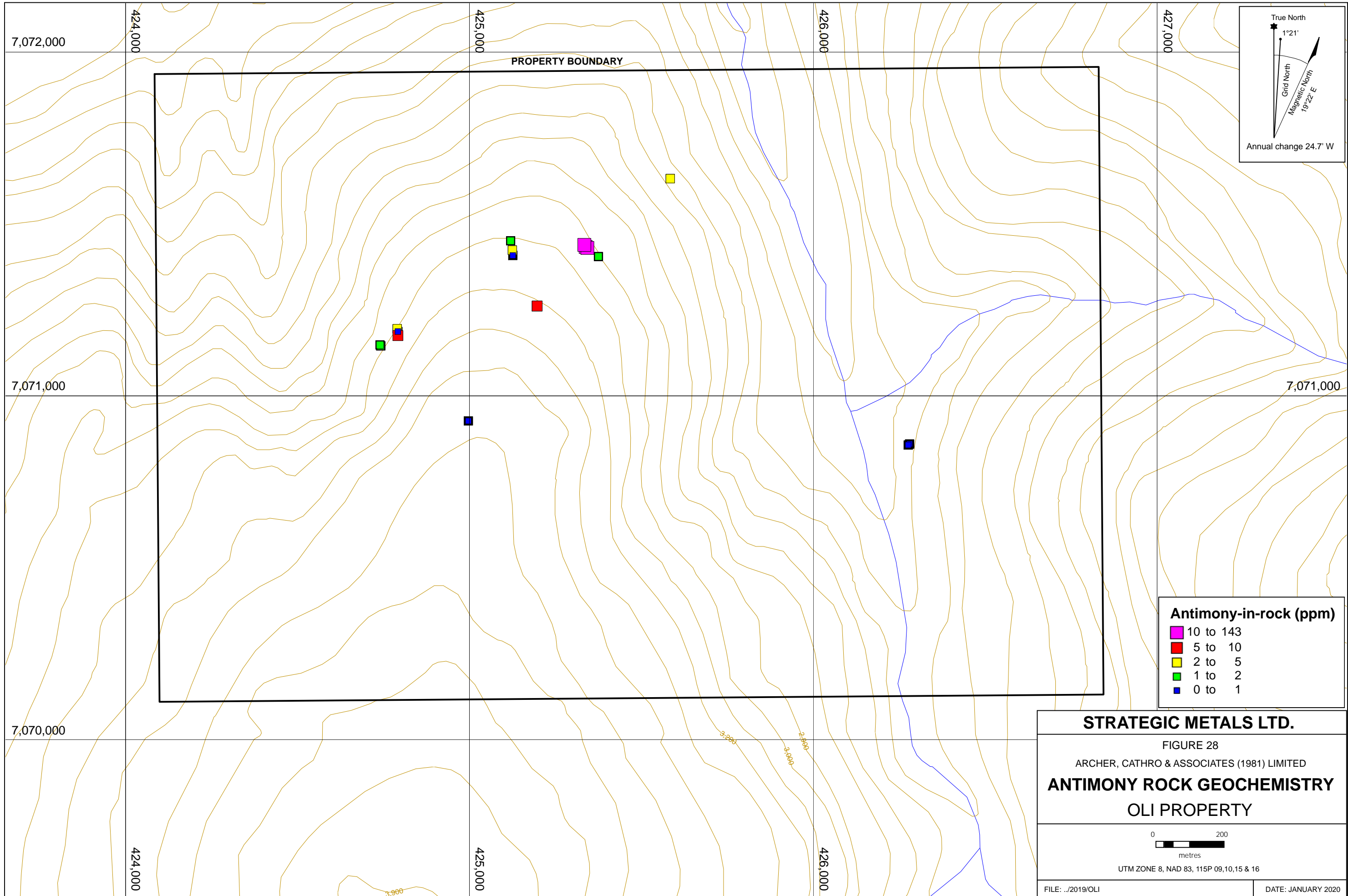
**STRATEGIC METALS LTD.**

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

0      200  
 ───────────  
 metres

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

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



**STRATEGIC METALS LTD.**

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

0 200  
metres

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

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

The rock samples were processed and prepared at ALS in Whitehorse, Yukon where they were dried and fine crushed to –2 mm. A 250 g split was then pulverized to 75 micron, and shipped to ALS Labs in North Vancouver, British Columbia. A portion of this material was digested in a four-acid solution before being analyzed for 48 elements by the inductively coupled plasma-atomic emission spectroscopy (ME-MS61). Gold analysis was completed using Au-ICP21. Overlimit samples were further analyzed by four-acid digestion for silver and arsenic using Ag-OG62 and As-OG62, respectively.

### **2019 Rock Geochemistry Results**

Follow-up prospecting in historical trenches verified the tenor of mineralization previously discovered on the property (Table II), with individual samples up to 3320 ppm tin, 2.22 g/t gold, 921 g/t silver, 15.5% arsenic, 6490 ppm bismuth, 5140 ppm cobalt, 4620 ppm copper, 3390 ppm molybdenum, 2260 ppm lead, 142.5 ppm antimony and 4300 ppm zinc.

### **DISCUSSION AND CONCLUSIONS**

The Oli property is one of the most prospective tin occurrences in the Canadian portion of the Northern Cordillera, and limited sampling has demonstrated potential for a number of other critical, precious and base metals.

Widely spaced soil sampling has partially delineated several zones of anomalous multi-elemental geochemistry, which extends well beyond the known showings.

Results from 2019 work reinforce the property's potential. A list of recommendations for follow-up work at the Oli property follows:

- Infill soil sampling on the 2019 soil grids to produce 50 m sample spacings on 100 m line spacings;
- Follow-up mapping and prospecting of anomalous zones identified by 2019 soil sampling; and
- Ground magnetic and induced polarization geophysical surveys across known showings and geochemical anomalies.

If results of this work are favourable, additional excavator trenching, RAB drill or diamond drilling will be required to assess the targets.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



R. Burke, B.Sc, G.I.T.

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Yukon Geological Survey

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

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



## STATEMENT OF QUALIFICATIONS

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

1. I graduated in 2018 from Memorial University of Newfoundland and Labrador with a B.Sc. (Hons.) in Geological Sciences.
2. I am currently registered as a Geoscientist in Training (G.I.T.) with Professional Engineers & Geoscientists Newfoundland & Labrador (PEGNL).
3. I have worked every summer since 2010 in a role related to the mineral exploration industry within the Yukon.
4. I have personally interpreted all data resulting from this work.



Ryan Burke, B.Sc., G.I.T.

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

**Statement of Expenditures**

**Oli Property**

**December 6, 2019**

**Labour**

<b>Employee</b>	<b>Job Description</b>	<b>Hours</b>	<b>Time Period</b>	<b>Rate/hr</b>	<b>Total</b>
Doug Eaton	Sr. Geologist	4	June 1 - July 31, 2019	\$ 120.00	\$ 480.00
Evan Hall	Geology Student, Labour	48	June 1 - July 31, 2019	\$ 64.00	\$ 3,072.00
Hugh Fortune-Fordyce	Labour	32	June 1 - July 31, 2019	\$ 49.00	\$ 1,568.00
Jack Morton	Sr. Geologist	51	June 1 - July 31, 2019	\$ 98.00	\$ 4,998.00
Matthew Van Loon	Labour	8	June 1 - July 31, 2019	\$ 80.00	\$ 640.00
Sarah Shoniker	Geologist, Labour	48	June 1 - July 31, 2019	\$ 53.00	\$ 2,544.00
Scott Newman	Mapper	9	June 1 - July 31, 2019	\$ 71.00	\$ 639.00
					<u>\$ 13,941.00</u>

**Expenses**

Field room and board	19 mandays	\$ 100.00 /per day	\$ 1,900.00
Whitehorse room and board	6 mandays	\$ 180.00 / per day	\$ 1,080.00
Fireweed Helicopters, as attached			\$ 8,310.40
ALS Chemex, as attached			\$ 10,778.97
			<u>\$ 22,069.37</u>

Total 2019 expenditures           \$ 36,010.37

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



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Page: 1  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

**CERTIFICATE WH19146755**

Project: OLI

This report is for 332 Soil samples submitted to our lab in Whitehorse, YT, Canada on 17-JUN-2019.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	ANDREW CARNE	JACK MORTON
---------------------------------	--------------	-------------

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
ME-MS61	48 element four acid ICP-MS
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:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: OLI

CERTIFICATE OF ANALYSIS WH19146755
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Sample Description	Method Analyte Units LOD	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
	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	
	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
	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	
YY16501	0.33	0.002	0.18	4.67	10.3	770	0.89	0.20	0.75	0.14	59.0	3.9	51	3.10	6.9	
YY16502	0.69	0.003	0.18	5.27	13.6	1070	1.43	0.20	0.67	0.23	79.5	10.4	54	2.69	26.0	
YY16503	0.59	0.004	0.05	5.29	15.4	890	1.29	0.23	0.61	0.16	73.3	8.9	59	2.83	21.4	
YY16504	0.64	0.010	0.23	5.29	14.8	1070	1.23	0.21	0.64	0.27	69.7	6.5	62	3.57	29.5	
YY16505	0.28	0.003	0.59	5.59	13.7	900	1.23	0.23	0.93	0.23	68.6	6.5	60	3.91	15.9	
YY16506	0.33	0.002	0.07	5.26	11.0	830	1.19	0.17	0.60	0.14	64.6	6.1	59	2.75	13.4	
YY16507	0.52	0.003	0.17	5.62	11.2	990	1.28	0.21	0.86	0.12	71.6	8.6	59	2.98	22.1	
YY16508	0.35	0.001	0.22	5.51	11.9	780	1.47	0.21	1.32	0.27	75.4	11.9	59	3.13	24.1	
YY16509	0.45	0.001	0.14	4.67	14.1	750	1.03	0.21	0.55	0.22	60.5	6.5	58	2.80	15.2	
YY16510	0.39	0.007	0.07	4.15	16.4	660	1.03	0.16	0.54	0.19	59.7	9.0	48	1.97	14.1	
YY16511	0.40	0.001	0.21	6.13	16.1	910	1.25	0.26	0.64	0.22	60.7	7.3	74	4.02	18.6	
YY16512	0.49	0.003	0.08	5.64	16.0	900	1.31	0.22	0.67	0.20	65.2	7.5	67	3.57	16.8	
YY16513	0.45	0.003	0.10	4.85	12.0	750	1.02	0.20	0.64	0.33	56.7	4.5	58	2.81	11.9	
YY16514	0.45	0.002	0.09	5.00	15.8	800	1.19	0.19	0.62	0.19	62.2	6.5	60	2.59	19.0	
YY16515	0.48	0.002	0.17	7.35	166.0	980	2.26	0.31	0.38	1.32	114.5	11.2	74	5.28	30.9	
YY16516	0.44	0.004	0.09	5.03	38.9	820	1.07	0.21	0.65	0.42	63.2	7.2	60	2.63	16.3	
YY16517	0.50	0.002	0.11	5.41	17.2	910	1.36	0.20	0.74	0.54	63.2	8.6	61	2.70	21.5	
YY16518	0.51	0.003	0.04	6.04	36.6	1040	1.54	0.19	0.83	0.38	65.9	13.4	67	3.04	18.6	
YY16519	0.54	0.002	0.09	6.07	24.9	920	1.42	0.22	0.60	0.28	71.1	7.6	65	3.40	20.5	
YY16520	0.39	0.006	0.11	5.78	196.5	850	1.59	0.42	0.45	1.02	75.2	16.5	66	4.79	19.1	
YY16521	0.49	0.001	0.07	5.77	56.6	870	1.36	0.73	0.61	0.63	67.3	8.3	65	11.10	18.0	
YY16522	0.56	0.003	0.76	6.14	35.4	1040	1.57	1.11	0.75	1.55	70.4	8.4	63	4.61	33.7	
YY16523	0.64	0.002	0.10	5.54	21.8	960	1.31	0.27	0.62	0.23	68.2	7.5	62	3.20	17.9	
YY16524	0.49	0.003	0.21	4.91	20.1	790	1.08	0.29	0.55	0.58	63.3	5.7	56	3.39	12.1	
YY16525	0.54	0.004	0.27	5.54	21.8	1020	1.56	0.33	0.68	0.89	73.6	8.9	62	4.14	28.2	
YY16526	0.41	0.002	0.19	4.25	11.5	740	0.87	0.27	0.62	0.54	55.6	4.2	49	2.35	15.9	
YY16527	0.49	0.003	0.34	5.86	21.4	940	1.52	0.69	0.72	0.37	69.3	12.0	66	3.08	35.5	
YY16528	0.53	0.008	0.19	7.20	33.2	1040	1.90	1.01	0.79	0.60	81.7	16.5	81	6.29	50.0	
YY16529	0.51	0.002	0.29	6.98	26.6	1060	1.86	1.28	0.69	0.54	80.3	11.7	76	5.77	44.7	
YY16530	0.34	0.005	0.29	6.19	42.1	1030	1.64	1.28	0.62	0.60	66.3	8.2	74	5.19	34.2	
YY16531	0.29	0.003	0.53	7.14	43.3	1090	1.79	2.56	0.63	2.51	64.1	10.9	83	11.00	68.5	
YY16532	0.48	0.003	0.62	5.23	26.0	850	1.19	2.13	0.75	0.59	60.2	9.9	91	7.78	28.6	
YY16533	0.65	0.002	0.63	5.13	26.8	860	1.45	1.04	0.66	1.71	69.3	8.2	63	4.79	37.8	
YY16534	0.56	0.009	0.58	4.68	34.3	830	1.20	1.12	0.69	0.84	65.7	6.9	56	3.81	31.9	
YY16535	0.50	0.020	0.45	5.18	73.5	840	1.55	1.89	0.64	1.48	64.3	9.2	61	4.96	45.4	
YY16536	0.55	0.003	1.03	4.93	79.8	750	1.23	1.37	0.58	0.75	56.7	6.8	59	4.68	36.3	
YY16537	0.54	0.002	0.29	5.23	22.1	930	1.38	0.79	0.73	0.40	69.5	8.4	61	5.01	30.0	
YY16538	0.39	0.002	0.07	4.32	12.7	720	1.04	0.16	0.58	0.16	60.7	5.8	52	2.42	12.6	
YY16539	0.47	0.001	0.04	6.11	13.6	910	1.43	0.21	0.65	0.11	66.2	7.6	71	3.79	17.0	
YY16540	0.54	0.001	0.07	5.61	10.9	880	1.38	0.17	0.62	0.11	73.2	7.4	62	3.08	16.6	



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 Account: MTT

Project: OLI

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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	
		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
YY16501		1.53	12.90	0.11	1.8	0.032	1.13	30.0	18.1	0.43	199	0.94	0.89	10.4	11.1	970
YY16502		2.73	13.00	0.11	1.8	0.047	1.34	39.1	27.9	0.61	505	1.05	0.96	12.2	27.4	510
YY16503		2.65	13.50	0.12	1.9	0.048	1.25	36.0	27.0	0.58	348	1.04	0.93	12.1	21.7	710
YY16504		2.38	14.25	0.12	1.9	0.047	1.24	34.6	31.8	0.52	326	1.23	0.92	11.9	25.4	1150
YY16505		2.24	15.80	0.12	1.7	0.050	1.37	33.8	31.1	0.54	241	1.12	0.89	11.3	18.2	910
YY16506		2.41	13.50	0.09	1.9	0.042	1.28	32.3	25.8	0.56	248	1.40	0.97	12.2	19.9	790
YY16507		2.69	14.35	0.11	2.0	0.048	1.31	36.1	30.4	0.61	311	1.19	0.92	11.9	23.0	720
YY16508		2.81	13.75	0.12	1.7	0.052	1.32	37.7	35.9	0.66	597	1.21	0.88	11.6	25.2	780
YY16509		2.43	12.75	0.10	2.0	0.042	1.14	30.2	23.5	0.50	313	1.67	0.81	10.7	19.3	960
YY16510		2.68	10.35	0.10	1.7	0.042	0.96	29.2	23.9	0.53	316	0.88	0.83	9.1	20.6	530
YY16511		2.98	17.80	0.09	2.2	0.056	1.36	30.3	30.8	0.63	299	1.85	0.89	13.0	21.6	950
YY16512		2.93	14.80	0.11	2.1	0.048	1.31	32.0	33.7	0.67	305	1.41	0.90	12.3	22.5	540
YY16513		2.14	13.45	0.09	1.9	0.045	1.10	28.4	22.9	0.50	223	0.95	0.92	11.9	12.8	1220
YY16514		2.63	12.70	0.10	1.9	0.049	1.10	31.2	26.6	0.58	269	0.99	0.94	11.5	18.0	900
YY16515		3.53	19.10	0.13	2.5	0.187	2.25	57.0	46.8	0.69	395	1.32	0.62	13.9	27.3	380
YY16516		2.67	11.85	0.07	1.8	0.054	1.20	31.6	22.3	0.60	349	1.22	0.90	11.5	19.3	630
YY16517		2.91	12.60	0.09	1.7	0.048	1.26	30.6	24.5	0.67	395	1.21	0.98	11.0	21.3	760
YY16518		3.21	14.35	0.09	1.8	0.044	1.50	31.2	29.9	0.78	566	1.53	1.06	12.5	26.2	610
YY16519		2.87	14.70	0.10	1.9	0.051	1.53	35.6	32.1	0.67	351	1.00	0.92	13.0	20.1	560
YY16520		3.25	14.55	0.10	2.0	0.156	1.54	36.5	40.0	0.60	774	1.61	0.70	13.0	23.5	840
YY16521		3.12	15.00	0.09	1.6	0.539	1.38	34.1	37.9	0.96	398	0.82	0.83	12.2	22.4	790
YY16522		2.90	14.55	0.09	1.9	0.255	1.54	35.6	35.1	0.72	456	1.22	1.00	12.9	24.3	590
YY16523		2.88	13.15	0.09	1.8	0.070	1.23	34.3	28.6	0.62	337	1.21	0.95	12.2	18.7	430
YY16524		2.31	12.55	0.10	1.8	0.078	1.19	32.1	22.9	0.52	338	1.21	0.82	12.0	13.8	820
YY16525		2.85	13.85	0.10	2.1	0.128	1.41	36.9	34.0	0.67	527	1.50	0.84	12.5	23.6	650
YY16526		2.13	10.05	0.07	1.6	0.058	0.98	28.3	18.9	0.47	214	0.99	0.86	10.1	13.8	1030
YY16527		3.43	13.35	0.10	1.8	0.305	1.18	34.3	29.1	0.71	447	1.22	1.08	11.6	23.0	290
YY16528		3.96	17.10	0.11	2.0	0.318	1.67	39.9	44.3	0.98	581	1.32	1.06	13.9	34.6	280
YY16529		3.48	17.75	0.12	2.0	0.277	1.77	39.1	40.7	0.81	465	1.60	0.96	13.5	28.7	700
YY16530		3.15	15.60	0.11	1.9	0.234	1.47	33.3	34.7	0.69	373	1.74	0.88	12.3	28.2	740
YY16531		3.37	18.35	0.09	1.8	0.295	1.66	35.1	47.1	0.80	314	1.81	0.86	12.2	39.0	880
YY16532		3.15	13.70	0.09	1.6	1.155	1.29	30.5	27.4	0.92	437	1.49	0.87	11.7	40.8	770
YY16533		2.56	12.50	0.10	1.7	0.338	1.24	34.2	32.1	0.63	368	0.97	0.86	11.6	22.8	740
YY16534		2.41	11.25	0.09	1.7	0.296	1.08	33.0	26.0	0.58	302	1.00	0.88	11.2	19.7	650
YY16535		2.76	12.10	0.09	1.5	0.402	1.33	31.5	33.8	0.65	432	0.97	0.81	10.2	23.0	680
YY16536		2.61	12.55	0.09	1.5	0.250	1.16	28.6	31.0	0.56	318	1.01	0.82	11.0	18.7	530
YY16537		2.58	12.20	0.11	1.7	0.095	1.27	34.5	32.6	0.66	331	0.89	0.94	11.7	23.8	620
YY16538		2.53	10.80	0.07	1.5	0.034	1.06	29.8	22.8	0.50	279	1.07	0.80	10.9	15.7	690
YY16539		3.10	15.15	0.09	1.9	0.047	1.48	32.4	37.2	0.73	344	1.37	0.91	12.8	20.7	500
YY16540		2.69	13.55	0.11	1.8	0.041	1.47	36.1	33.0	0.67	323	1.06	0.91	12.3	19.7	610



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Page: 2 - C  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

CERTIFICATE OF ANALYSIS WH19146755
------------------------------------

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	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units LOD	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
YY16501		27.7	58.9	<0.002	0.03	0.75	8.4	<1	1.6	124.5	0.73	0.05	6.69	0.338	0.53	1.9
YY16502		33.6	65.4	<0.002	0.01	1.52	10.5	<1	1.7	141.5	0.78	0.05	9.84	0.358	0.51	3.1
YY16503		20.9	66.6	<0.002	0.01	1.15	10.7	<1	1.6	133.5	0.82	0.05	9.52	0.372	0.54	2.9
YY16504		20.9	69.6	<0.002	0.01	1.22	12.4	1	1.7	136.0	0.76	<0.05	9.41	0.379	0.53	2.6
YY16505		25.7	76.7	<0.002	0.04	0.99	11.1	1	1.9	158.0	0.74	0.06	7.35	0.346	0.63	2.3
YY16506		15.6	64.1	<0.002	0.01	1.04	9.5	1	1.7	135.0	0.81	<0.05	8.11	0.380	0.48	2.2
YY16507		18.3	70.0	<0.002	0.02	1.05	11.1	<1	1.7	156.0	0.77	<0.05	9.06	0.365	0.60	2.5
YY16508		18.2	69.9	<0.002	0.05	0.92	10.7	1	1.8	181.5	0.75	<0.05	10.35	0.352	0.55	4.7
YY16509		17.2	63.7	<0.002	0.01	1.14	8.9	<1	1.5	119.5	0.74	<0.05	7.59	0.366	0.46	2.2
YY16510		17.5	46.1	<0.002	0.01	1.19	7.9	<1	1.4	115.0	0.64	<0.05	7.62	0.323	0.35	1.9
YY16511		25.6	79.7	<0.002	0.01	1.28	12.0	1	2.0	139.0	0.85	0.06	8.58	0.421	0.62	2.4
YY16512		32.1	73.3	<0.002	0.01	1.22	11.2	1	1.7	139.0	0.81	0.05	8.49	0.388	0.59	2.3
YY16513		18.3	61.1	<0.002	0.01	0.80	9.6	<1	1.6	130.0	0.82	<0.05	7.35	0.398	0.51	2.3
YY16514		24.1	57.7	<0.002	0.01	1.13	10.0	1	1.6	130.5	0.84	0.07	7.97	0.373	0.48	2.4
YY16515		135.0	122.5	<0.002	0.01	2.06	12.6	<1	6.5	114.5	0.94	<0.05	17.05	0.376	0.99	3.1
YY16516		27.4	62.6	<0.002	0.01	1.15	8.6	1	1.7	129.0	0.72	<0.05	8.42	0.388	0.42	2.1
YY16517		26.1	65.7	<0.002	0.01	1.17	10.3	1	1.7	149.0	0.69	<0.05	8.31	0.376	0.45	2.3
YY16518		26.0	78.0	<0.002	0.01	1.34	11.3	1	1.8	170.0	0.74	<0.05	8.66	0.390	0.44	2.2
YY16519		30.7	86.1	<0.002	0.01	1.02	10.1	1	2.6	139.5	0.84	0.05	9.93	0.412	0.58	2.2
YY16520		80.3	92.7	<0.002	0.01	1.36	9.6	1	6.0	105.5	0.80	<0.05	11.70	0.389	0.68	2.2
YY16521		46.5	101.0	<0.002	0.01	0.92	10.6	1	8.2	126.5	0.79	<0.05	10.80	0.400	0.97	2.1
YY16522		75.6	90.0	<0.002	0.01	1.05	10.8	1	4.3	159.5	0.76	<0.05	10.00	0.411	0.65	2.4
YY16523		22.8	70.7	<0.002	0.01	1.12	9.6	1	2.4	135.5	0.73	<0.05	8.51	0.395	0.47	2.3
YY16524		25.0	73.8	<0.002	0.02	0.79	8.2	1	2.7	117.5	0.72	<0.05	8.09	0.368	0.50	2.0
YY16525		33.1	89.9	<0.002	0.01	1.24	10.3	1	5.5	136.0	0.76	<0.05	10.55	0.387	0.69	2.4
YY16526		12.4	53.8	<0.002	0.01	0.77	7.4	1	1.6	120.0	0.66	<0.05	6.82	0.350	0.37	1.9
YY16527		18.6	63.0	<0.002	0.01	1.35	11.5	1	2.2	155.5	0.70	0.05	9.62	0.386	0.47	2.5
YY16528		34.0	105.5	<0.002	0.01	1.50	14.1	1	4.1	169.0	0.80	0.06	12.60	0.444	0.84	2.7
YY16529		29.9	111.0	<0.002	0.01	1.21	13.2	1	4.5	154.5	0.76	0.06	11.30	0.407	0.79	2.6
YY16530		24.7	91.6	<0.002	0.02	1.27	11.3	1	4.5	135.5	0.73	0.06	10.20	0.393	0.73	2.3
YY16531		28.7	113.5	<0.002	0.03	1.15	13.0	1	7.8	140.5	0.70	0.07	10.10	0.374	0.96	2.4
YY16532		45.2	77.6	<0.002	0.02	1.00	9.1	1	6.6	122.5	0.70	<0.05	7.01	0.388	0.70	1.8
YY16533		34.2	76.0	<0.002	0.01	0.92	9.0	1	4.6	126.5	0.71	<0.05	8.43	0.378	0.58	2.1
YY16534		27.1	62.4	<0.002	0.01	0.87	8.5	1	3.1	128.0	0.69	<0.05	8.28	0.377	0.50	2.2
YY16535		28.4	85.0	<0.002	0.02	0.89	9.1	1	6.6	120.5	0.64	<0.05	9.38	0.340	0.64	2.0
YY16536		28.5	75.7	<0.002	0.02	0.89	8.4	1	4.2	119.0	0.65	0.05	7.33	0.362	0.57	1.9
YY16537		13.8	75.5	<0.002	0.01	1.02	8.9	1	4.4	140.0	0.74	<0.05	8.68	0.387	0.62	2.1
YY16538		13.1	54.4	<0.002	0.01	1.01	7.6	1	1.2	112.0	0.68	<0.05	7.16	0.367	0.34	1.7
YY16539		14.8	82.3	<0.002	0.01	1.20	11.3	1	1.8	136.5	0.75	<0.05	9.46	0.408	0.54	2.2
YY16540		13.7	76.8	<0.002	0.01	0.99	10.0	1	1.6	135.5	0.75	<0.05	10.85	0.374	0.45	2.2





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Page: 2 - D  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

CERTIFICATE OF ANALYSIS WH19146755
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	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
YY16501		83	1.1	9.7	45	63.8
YY16502		100	1.4	18.5	92	66.6
YY16503		100	1.4	14.8	65	66.4
YY16504		96	1.3	21.0	63	70.1
YY16505		95	1.4	12.2	66	62.0
YY16506		97	1.4	11.5	57	68.8
YY16507		99	1.4	14.0	70	69.1
YY16508		87	1.3	13.5	77	60.7
YY16509		99	1.4	10.9	59	70.2
YY16510		83	1.0	9.8	65	59.9
YY16511		131	1.6	11.9	76	78.4
YY16512		120	1.5	12.7	84	73.2
YY16513		103	1.3	10.5	60	68.4
YY16514		101	1.2	11.9	77	66.4
YY16515		99	4.5	13.3	389	88.5
YY16516		107	1.3	11.0	116	68.1
YY16517		111	1.2	13.4	136	67.5
YY16518		125	1.3	13.1	136	71.5
YY16519		110	1.8	11.7	127	75.4
YY16520		102	2.9	11.5	327	79.6
YY16521		108	1.5	13.9	337	61.5
YY16522		119	1.9	14.2	368	76.1
YY16523		112	1.7	13.8	125	74.4
YY16524		98	1.4	10.8	103	68.2
YY16525		103	1.8	14.1	219	82.2
YY16526		87	1.0	10.1	78	61.8
YY16527		113	1.4	16.4	109	69.4
YY16528		132	2.6	17.0	286	79.7
YY16529		127	1.9	14.6	206	80.1
YY16530		116	1.8	12.9	186	74.4
YY16531		126	2.2	13.5	536	70.3
YY16532		116	1.5	10.6	168	71.4
YY16533		97	1.6	12.4	306	67.2
YY16534		92	1.2	12.3	183	67.8
YY16535		86	2.2	11.4	306	61.1
YY16536		95	1.6	10.1	199	63.1
YY16537		97	1.5	12.6	124	64.7
YY16538		99	1.2	10.2	53	61.8
YY16539		123	1.3	12.6	70	75.9
YY16540		107	1.2	11.7	65	73.5



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Page: 3 - A  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146755**

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
YY16541		0.55	0.048	0.11	5.09	13.9	830	1.26	0.18	0.67	0.23	66.7	8.8	58	2.55	17.8
YY16542		0.58	0.002	0.06	5.39	13.4	930	1.31	0.20	0.62	0.08	68.1	7.7	60	2.88	19.3
YY16543		0.53	0.002	0.09	5.89	12.3	940	1.54	0.19	0.58	0.19	80.6	7.8	61	3.19	17.9
YY16544		0.50	0.001	0.07	4.78	11.1	760	1.00	0.19	0.61	0.16	60.0	4.1	60	2.74	10.8
YY16545		0.63	0.002	0.05	5.40	15.5	850	1.60	0.26	0.53	0.16	62.6	9.4	59	2.94	21.5
YY16546		0.46	0.002	0.25	5.64	34.3	910	1.34	0.36	0.61	0.72	68.5	7.6	63	3.38	23.8
YY16547		0.61	<0.001	0.38	5.43	20.9	860	1.39	0.40	0.66	0.47	72.8	10.8	58	3.28	23.4
YY16548		0.46	0.002	0.20	5.47	10.7	780	1.22	0.25	0.54	0.14	74.3	4.9	58	3.35	11.4
YY16549		0.52	0.005	0.27	5.34	16.8	750	1.09	0.22	0.61	0.65	53.7	7.9	61	2.70	12.7
YY16550		0.45	0.001	0.41	5.59	14.9	760	1.25	0.23	0.52	1.36	60.5	6.8	64	3.91	9.8
YY16551		0.25	0.002	0.21	4.43	9.0	720	1.02	0.19	0.80	0.46	48.5	3.1	52	3.07	12.2
YY16552		0.40	0.002	0.15	5.85	23.5	840	1.24	0.28	0.55	0.27	66.5	5.0	59	3.76	17.4
YY16553		0.44	0.001	0.06	6.52	15.2	930	1.74	0.22	0.38	0.23	86.6	11.3	64	4.28	21.4
YY16554		0.47	0.003	0.06	5.25	15.5	1020	1.25	0.21	0.75	0.12	71.5	10.7	62	2.60	22.6
YY16555		0.46	0.002	0.04	5.25	14.6	850	1.24	0.19	0.63	0.09	65.9	9.8	57	2.64	20.4
YY16556		0.56	0.003	0.06	7.59	19.7	1340	2.01	0.25	0.77	0.24	88.5	15.6	76	4.19	36.7
YY16557		0.59	0.001	0.05	5.78	11.7	840	1.32	0.21	0.52	0.12	74.8	6.8	60	3.48	15.1
YY16558		0.53	0.014	0.10	5.83	15.8	930	1.32	0.22	0.74	0.19	70.1	10.0	65	3.08	24.3
YY16559		0.62	0.002	0.07	4.75	14.0	720	1.06	0.20	0.55	0.15	59.6	5.3	54	2.65	12.4
YY16560		0.83	0.006	0.08	5.52	26.0	1080	1.39	0.32	0.69	0.33	73.7	8.7	61	3.29	25.6
YY16561		0.62	0.003	0.06	5.85	20.4	1000	1.63	0.24	0.56	0.60	72.6	13.3	62	3.15	32.1
YY16562		0.60	0.003	0.16	6.15	18.3	1060	1.73	0.19	0.83	0.56	76.6	13.9	64	3.26	27.9
YY16563		0.62	0.002	0.05	5.76	15.4	800	1.27	0.20	0.52	0.12	69.0	8.3	63	2.86	21.9
YY16564		0.53	0.002	0.21	6.51	28.8	1190	1.95	0.36	0.60	1.41	105.0	16.7	65	4.66	43.3
YY16565		0.50	0.003	0.04	5.23	15.7	800	1.21	0.18	0.61	0.18	64.5	10.0	59	2.44	22.6
YY16566		0.59	0.002	0.08	5.60	14.5	910	1.11	0.23	0.66	0.28	64.9	4.6	64	3.16	14.0
YY16567		0.64	0.003	0.04	5.70	20.2	880	1.35	0.23	0.64	0.21	70.9	8.2	64	3.27	21.9
YY16568		0.76	0.002	0.08	5.59	16.5	870	1.30	0.21	0.62	0.19	65.1	7.1	61	3.11	19.5
YY16569		0.69	0.004	0.11	6.22	17.5	1180	1.48	0.23	0.68	0.17	77.4	11.0	65	3.28	25.4
YY16570		0.76	0.004	0.13	5.89	19.3	1040	1.50	0.24	0.61	0.45	76.6	9.1	65	3.80	25.2
YY16571		0.49	0.002	0.20	5.20	21.9	810	1.25	0.28	0.59	1.88	62.5	6.0	57	4.20	24.6
YY16572		0.45	0.001	0.37	6.49	17.7	1040	2.82	0.56	0.83	2.10	89.2	14.4	63	19.60	32.7
YY16573		0.62	0.003	0.10	5.66	19.5	860	1.46	0.82	0.57	0.55	66.4	7.9	64	4.82	22.3
YY16574		0.70	0.003	0.31	5.16	16.2	840	1.35	32.2	0.65	0.11	61.1	8.0	60	12.30	63.1
YY16575		0.39	0.001	0.28	4.94	23.8	770	1.08	1.60	0.61	0.53	60.8	4.8	57	4.03	20.1
YY16576		0.44	0.002	0.28	5.08	26.0	830	1.38	1.75	0.60	1.02	72.0	10.1	59	6.19	35.0
YY16577		0.44	0.003	1.11	5.68	25.2	860	1.46	2.11	0.64	2.19	67.7	6.7	62	8.09	80.2
YY16578		0.34	0.002	1.23	5.38	19.3	800	1.22	4.38	0.59	0.74	62.9	6.5	59	6.78	53.9
YY16579		0.17	0.002	0.67	5.74	18.8	880	1.53	1.69	0.70	1.00	70.3	8.0	65	7.13	36.1
YY16580		0.31	0.002	0.50	5.21	13.2	860	1.24	1.54	0.62	0.49	62.8	5.3	57	4.73	25.5



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Page: 3 - B  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146755**

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	
		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
YY16541		2.72	11.95	0.10	1.8	0.045	1.19	31.5	28.4	0.63	437	1.04	0.95	11.4	19.0	710
YY16542		2.73	13.05	0.08	1.9	0.047	1.23	33.3	28.9	0.60	363	1.24	0.93	12.0	19.0	480
YY16543		2.76	14.30	0.10	1.8	0.047	1.53	40.5	38.7	0.66	320	0.96	0.98	12.8	20.8	500
YY16544		2.27	12.35	0.09	1.8	0.036	1.14	29.6	26.0	0.51	211	0.95	0.89	11.7	12.4	1020
YY16545		2.75	12.85	0.09	1.6	0.059	1.31	31.3	32.1	0.58	373	1.08	0.87	11.5	19.6	460
YY16546		2.94	13.55	0.08	1.8	0.080	1.42	33.9	32.7	0.61	384	1.16	0.91	12.3	21.1	530
YY16547		2.82	12.45	0.10	1.8	0.101	1.32	36.5	34.5	0.62	463	0.96	0.86	10.7	20.7	670
YY16548		2.43	13.30	0.10	1.7	0.045	1.41	37.4	32.1	0.56	214	0.85	0.84	11.2	14.1	640
YY16549		3.26	12.75	0.08	1.6	0.055	0.99	26.7	29.1	0.60	387	1.34	0.90	11.4	17.5	330
YY16550		3.32	14.55	0.07	1.5	0.062	1.10	30.8	36.1	0.56	375	1.17	0.81	12.6	16.4	370
YY16551		1.53	11.80	0.07	1.7	0.044	1.03	25.0	22.8	0.38	163	0.84	0.84	10.0	10.8	1480
YY16552		2.22	14.70	0.09	1.8	0.083	1.49	33.7	23.2	0.51	195	1.33	0.99	12.5	19.7	650
YY16553		3.20	15.80	0.12	1.7	0.048	1.97	42.3	35.8	0.62	368	0.96	0.83	12.2	26.2	320
YY16554		3.05	12.05	0.09	1.7	0.046	1.18	35.5	25.6	0.66	419	0.99	0.98	10.7	26.7	900
YY16555		2.83	12.45	0.08	1.6	0.041	1.18	30.1	23.3	0.59	429	0.73	0.95	10.7	20.4	590
YY16556		3.85	18.20	0.13	2.0	0.062	1.98	44.9	38.6	0.89	644	1.40	1.03	13.8	36.1	640
YY16557		2.28	15.55	0.10	1.9	0.044	1.51	36.9	29.9	0.53	332	0.92	0.87	11.7	18.3	560
YY16558		3.03	13.70	0.10	2.0	0.046	1.32	34.8	29.8	0.71	439	1.04	0.99	11.6	23.1	750
YY16559		2.46	11.85	0.10	1.7	0.042	1.11	30.1	22.9	0.50	270	0.81	0.84	11.0	13.8	980
YY16560		2.91	13.45	0.10	2.0	0.085	1.29	37.2	33.8	0.66	482	1.07	0.93	12.7	24.1	590
YY16561		3.07	13.80	0.10	1.9	0.072	1.50	35.6	41.2	0.69	568	1.15	0.80	11.7	35.2	430
YY16562		3.15	14.95	0.11	2.0	0.050	1.51	36.1	33.1	0.82	704	1.08	1.05	12.5	30.7	560
YY16563		3.24	13.70	0.09	1.8	0.053	1.24	35.3	28.5	0.66	349	0.94	0.97	11.3	20.8	300
YY16564		3.32	15.60	0.13	2.4	0.073	1.75	51.4	45.6	0.72	886	1.19	0.80	12.5	37.8	470
YY16565		2.94	11.85	0.09	1.6	0.042	1.16	31.5	24.6	0.63	359	0.92	0.96	10.8	21.6	370
YY16566		2.18	15.10	0.09	1.9	0.047	1.31	33.2	23.1	0.55	219	0.93	0.92	12.8	15.3	970
YY16567		2.93	13.65	0.10	2.0	0.079	1.29	35.6	29.3	0.66	318	1.05	0.93	12.1	21.5	400
YY16568		2.66	13.40	0.10	1.8	0.048	1.38	32.4	29.2	0.63	320	0.92	0.91	11.6	20.9	590
YY16569		3.18	14.95	0.12	1.9	0.059	1.55	37.8	32.7	0.73	496	1.17	0.92	12.8	26.8	570
YY16570		3.01	14.55	0.10	2.0	0.073	1.52	37.9	32.0	0.67	424	1.08	0.88	12.4	25.2	660
YY16571		2.48	13.30	0.10	1.6	0.074	1.27	31.2	27.7	0.60	308	0.97	0.83	11.3	18.3	780
YY16572		3.40	18.15	0.12	1.9	0.331	1.79	46.9	72.7	1.95	930	0.95	0.65	11.9	30.4	560
YY16573		2.96	14.20	0.12	1.7	0.211	1.37	33.8	36.3	0.64	473	1.15	0.81	11.7	19.1	520
YY16574		4.05	14.15	0.10	1.7	0.655	1.17	30.5	27.7	0.60	387	1.29	0.92	11.6	18.3	370
YY16575		2.77	12.10	0.10	1.7	0.172	1.14	30.5	25.5	0.56	237	1.05	0.87	11.0	15.1	610
YY16576		2.95	13.05	0.09	1.7	0.251	1.31	35.7	31.1	0.60	486	1.06	0.81	11.7	21.5	590
YY16577		2.66	14.55	0.10	1.7	0.350	1.44	36.6	33.6	0.65	305	1.13	0.84	11.0	20.4	730
YY16578		2.66	13.75	0.09	1.5	0.283	1.34	31.5	31.2	0.63	243	1.06	0.80	10.0	19.3	850
YY16579		2.43	14.45	0.10	1.6	0.162	1.51	35.4	38.5	0.70	247	0.79	0.77	10.7	26.7	640
YY16580		2.15	13.55	0.09	1.7	0.166	1.32	32.0	31.5	0.57	217	0.77	0.81	11.0	18.0	580



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Page: 3 - C  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

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**CERTIFICATE OF ANALYSIS WH19146755**

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	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	
YY16541		35.3	61.7	<0.002	0.01	1.12	9.8	1	1.4	137.0	0.68	<0.05	9.33	0.375	0.39	2.1
YY16542		16.2	65.3	<0.002	0.01	1.19	10.6	1	1.6	134.5	0.73	<0.05	8.71	0.388	0.45	2.4
YY16543		15.3	84.8	<0.002	0.01	1.09	10.5	1	1.8	136.5	0.77	<0.05	11.35	0.381	0.51	2.1
YY16544		13.0	62.1	<0.002	0.01	0.78	8.5	1	1.5	126.5	0.73	<0.05	7.57	0.397	0.41	2.0
YY16545		20.4	71.3	<0.002	0.01	1.12	9.4	1	1.9	124.0	0.69	<0.05	9.90	0.364	0.45	2.0
YY16546		67.7	77.3	<0.002	0.01	1.23	9.1	1	2.6	135.5	0.75	0.05	10.35	0.387	0.48	2.1
YY16547		61.4	71.1	<0.002	0.01	1.01	9.4	1	2.5	130.0	0.68	<0.05	11.00	0.363	0.49	2.5
YY16548		22.5	76.0	<0.002	0.02	0.84	8.8	1	1.9	123.0	0.68	0.05	8.57	0.352	0.48	2.1
YY16549		19.7	61.8	<0.002	0.01	1.25	8.1	1	2.3	126.5	0.68	0.05	7.05	0.394	0.47	1.7
YY16550		16.2	78.6	<0.002	0.01	1.05	8.4	1	2.4	112.5	0.79	<0.05	7.39	0.420	0.62	1.7
YY16551		31.3	52.9	<0.002	0.03	1.01	8.6	1	1.5	133.5	0.63	<0.05	7.17	0.354	0.39	1.9
YY16552		25.8	82.9	<0.002	0.02	1.39	9.3	1	2.0	135.5	0.78	<0.05	10.70	0.404	0.53	2.0
YY16553		28.2	106.5	<0.002	0.01	1.31	10.6	1	1.9	108.0	0.79	<0.05	14.30	0.356	0.62	2.3
YY16554		15.7	60.4	<0.002	0.01	1.16	10.7	1	1.4	144.0	0.68	<0.05	10.20	0.369	0.40	2.3
YY16555		15.5	58.6	<0.002	0.01	1.13	9.9	1	1.4	133.0	0.66	<0.05	9.17	0.373	0.44	2.2
YY16556		23.4	105.0	<0.002	0.01	1.64	15.0	1	2.2	174.5	0.81	<0.05	13.10	0.425	0.67	2.4
YY16557		17.1	80.2	<0.002	0.01	1.01	10.0	1	1.7	133.5	0.72	<0.05	9.53	0.391	0.53	2.1
YY16558		21.1	71.6	<0.002	0.01	1.19	11.7	1	1.9	151.5	0.73	<0.05	9.85	0.402	0.47	2.6
YY16559		15.8	59.7	<0.002	0.01	0.94	8.3	1	1.5	114.0	0.70	<0.05	7.68	0.379	0.40	2.1
YY16560		40.0	73.1	<0.002	0.01	1.42	10.9	1	2.5	145.0	0.77	<0.05	10.35	0.402	0.56	2.3
YY16561		27.2	80.9	<0.002	0.01	1.55	11.0	1	2.3	127.0	0.70	0.05	11.10	0.362	0.57	2.1
YY16562		39.2	78.9	<0.002	0.01	1.20	12.9	1	2.1	168.0	0.73	<0.05	10.80	0.396	0.54	2.6
YY16563		15.7	64.0	<0.002	0.01	1.13	10.7	1	1.5	138.0	0.72	0.05	11.45	0.363	0.43	2.3
YY16564		165.5	105.0	<0.002	0.01	1.77	12.3	1	5.6	138.5	0.77	<0.05	15.35	0.367	0.75	2.8
YY16565		13.9	58.9	<0.002	0.01	1.11	9.2	1	1.4	136.0	0.64	<0.05	9.32	0.350	0.40	2.1
YY16566		14.5	67.9	<0.002	0.01	0.91	10.7	<1	1.7	143.0	0.79	<0.05	8.85	0.424	0.48	2.1
YY16567		18.7	69.0	<0.002	0.01	1.21	10.6	1	2.1	137.0	0.75	<0.05	10.95	0.396	0.49	2.5
YY16568		15.2	74.0	<0.002	0.01	0.98	9.8	1	1.9	136.0	0.76	<0.05	9.61	0.371	0.48	2.1
YY16569		17.6	82.7	<0.002	0.01	1.28	11.6	1	2.2	148.0	0.80	<0.05	11.05	0.397	0.55	2.6
YY16570		26.7	84.8	<0.002	0.01	1.19	11.1	1	2.5	136.5	0.75	0.05	11.50	0.387	0.58	2.4
YY16571		48.7	73.5	<0.002	0.01	1.00	8.8	1	2.9	123.0	0.71	<0.05	8.41	0.371	0.55	2.1
YY16572		56.3	174.0	<0.002	0.01	0.65	11.5	<1	13.9	146.0	0.75	0.05	13.05	0.372	1.73	2.2
YY16573		43.8	87.3	<0.002	0.01	1.00	10.0	1	4.9	123.5	0.73	<0.05	10.15	0.365	0.74	2.1
YY16574		23.8	80.7	<0.002	0.04	1.10	9.6	1	58.1	129.0	0.73	0.06	8.30	0.366	0.85	2.2
YY16575		24.9	68.2	<0.002	0.02	0.84	8.2	1	6.6	123.0	0.67	<0.05	8.84	0.360	0.54	1.9
YY16576		46.9	83.6	<0.002	0.02	1.04	9.2	1	7.6	122.5	0.72	<0.05	10.00	0.371	0.67	2.1
YY16577		46.4	98.2	<0.002	0.03	0.77	10.3	1	9.3	131.0	0.66	<0.05	9.95	0.335	0.79	2.4
YY16578		33.5	92.4	<0.002	0.04	0.76	9.0	1	9.2	121.5	0.59	<0.05	7.91	0.317	0.79	2.0
YY16579		18.9	101.0	<0.002	0.04	0.93	10.1	1	6.8	130.5	0.66	<0.05	9.89	0.325	0.86	2.1
YY16580		14.2	87.0	<0.002	0.02	0.79	8.7	1	6.7	123.0	0.68	<0.05	9.08	0.349	0.72	2.0



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Page: 3 - D  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
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**CERTIFICATE OF ANALYSIS WH19146755**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
YY16541		104	2.1	12.2	75	70.3
YY16542		112	1.2	14.2	61	73.2
YY16543		106	1.9	14.1	79	72.7
YY16544		100	1.2	10.3	44	71.1
YY16545		103	1.3	11.1	84	69.3
YY16546		107	1.4	12.0	226	72.3
YY16547		96	1.2	13.4	217	68.3
YY16548		94	1.2	10.8	61	68.5
YY16549		114	1.2	9.1	146	78.8
YY16550		111	1.6	9.4	486	62.7
YY16551		84	1.0	9.7	63	66.4
YY16552		101	1.4	11.1	80	68.8
YY16553		98	1.9	12.5	86	68.7
YY16554		102	1.1	27.2	86	65.7
YY16555		101	1.1	13.2	62	64.1
YY16556		138	1.5	19.4	107	74.5
YY16557		105	1.2	11.9	52	75.8
YY16558		114	1.2	14.6	79	70.9
YY16559		99	1.1	10.2	59	68.9
YY16560		113	1.5	17.6	129	78.1
YY16561		110	1.4	13.9	138	71.1
YY16562		114	1.5	17.9	176	85.8
YY16563		104	1.1	12.1	66	68.5
YY16564		112	2.0	19.4	286	92.7
YY16565		95	1.0	11.8	70	63.9
YY16566		112	1.3	11.6	63	74.2
YY16567		110	1.4	14.3	88	70.6
YY16568		104	1.3	11.5	79	67.9
YY16569		116	1.5	16.3	95	75.9
YY16570		108	1.4	14.7	125	76.9
YY16571		93	1.3	11.6	268	62.6
YY16572		115	1.9	18.9	761	71.9
YY16573		108	1.7	13.3	214	65.0
YY16574		104	8.3	12.1	107	65.0
YY16575		95	1.4	10.9	117	64.3
YY16576		94	2.1	12.2	191	67.8
YY16577		99	1.8	12.6	317	62.8
YY16578		90	1.6	11.0	174	61.8
YY16579		90	2.4	12.4	177	62.4
YY16580		92	1.8	11.2	97	64.8



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Page: 4 - A  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146755**

Sample Description	Method Analyte Units LOD	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
YY16581		0.28	0.001	0.58	5.30	31.5	960	1.41	5.17	0.68	1.00	71.4	9.2	63	6.99	36.5
YY16583		0.52	0.005	0.11	5.22	12.3	820	1.19	0.24	0.54	0.17	70.3	5.9	60	3.23	17.3
YY16584		0.59	0.001	0.08	8.08	11.0	1060	2.21	0.23	0.35	0.10	110.0	8.3	75	4.87	26.6
YY16585		0.46	0.002	0.11	5.99	16.6	940	1.60	0.25	0.55	0.23	83.0	10.5	62	3.48	32.2
YY16586		0.59	0.002	0.08	5.80	12.7	860	1.48	0.18	0.65	0.19	71.1	9.8	63	3.15	21.1
YY16587		0.57	0.006	0.14	6.90	12.7	1040	1.81	0.22	0.67	0.20	86.0	11.1	70	3.99	26.8
YY16588		0.54	0.004	0.12	5.78	15.2	900	1.35	0.23	0.72	0.18	72.4	12.3	62	2.93	30.3
YY16589		0.55	0.012	0.05	6.55	28.3	850	1.63	0.34	0.48	0.17	84.5	7.4	62	3.94	21.5
YY16590		0.57	0.001	0.06	6.06	17.1	850	1.48	0.28	0.54	0.19	76.8	9.9	61	3.46	25.0
YY16591		0.53	0.003	0.13	5.35	15.5	840	1.24	0.24	0.66	0.15	64.2	12.6	61	2.70	28.7
YY16592		0.56	0.001	0.03	6.08	15.9	880	1.42	0.35	0.47	0.16	76.1	8.8	68	3.89	24.2
YY16593		0.64	0.003	0.05	5.22	13.4	930	1.15	0.23	0.65	0.12	67.3	7.8	57	2.79	19.4
YY16594		0.47	0.002	0.05	4.85	14.2	740	0.94	0.24	0.60	0.17	55.7	4.7	56	2.81	10.2
YY16595		0.44	0.001	0.33	5.64	16.6	960	1.32	0.27	0.64	0.24	67.0	7.3	59	4.25	23.2
YY16596		0.36	0.003	0.41	6.49	27.7	920	1.57	0.31	0.71	0.79	78.2	7.2	68	4.84	23.9
YY16597		0.47	0.002	0.10	5.94	27.7	830	1.19	0.36	0.52	0.25	69.4	6.3	66	4.74	18.4
YY16598		0.43	0.002	0.08	5.24	16.3	810	0.94	0.25	0.58	0.30	50.4	5.6	61	3.81	12.8
YY16599		0.51	0.002	0.25	7.07	93.5	880	1.60	0.70	0.36	0.69	89.2	5.4	69	8.10	24.8
YY16600		0.75	0.001	0.07	5.50	10.8	960	1.24	0.19	0.57	0.14	69.1	8.0	57	3.32	21.7
YY16601		0.37	0.002	0.30	6.27	42.1	990	1.38	0.30	0.63	0.71	77.3	8.3	64	4.30	21.5
YY16602		0.39	0.001	0.60	6.30	55.6	1030	1.30	1.27	0.94	1.35	70.4	8.9	67	5.00	32.0
YY16603		0.49	0.001	0.48	7.60	38.2	1030	1.89	0.90	0.46	1.17	100.5	10.4	70	7.75	30.1
YY16604		0.63	0.002	0.19	6.29	21.5	1230	1.47	0.25	0.83	0.79	75.0	9.4	68	4.21	26.2
YY16605		0.61	0.004	0.35	6.07	28.9	1080	1.48	0.25	0.87	1.85	78.8	10.1	66	4.36	28.2
YY16606		0.51	0.003	0.42	6.24	38.1	1020	1.43	0.31	0.57	1.34	72.8	8.4	62	4.36	19.8
YY16607		0.49	0.004	0.74	6.00	138.5	930	1.45	1.01	0.53	2.42	75.5	10.7	61	5.64	25.1
YY16608		0.58	0.004	0.46	7.10	44.8	1120	1.78	0.33	0.57	2.12	83.6	12.5	72	5.20	28.8
YY16609		0.54	0.002	4.01	5.78	94.2	900	1.10	0.67	0.66	3.52	58.5	10.3	64	4.72	22.5
YY16610		0.54	0.001	1.04	6.83	35.9	950	1.54	0.28	0.49	1.90	86.7	11.4	72	5.99	22.1
YY16611		0.56	0.001	0.40	7.06	26.1	940	1.66	0.27	0.56	0.48	96.6	11.0	69	5.02	27.6
YY16612		0.47	0.003	0.85	8.42	44.6	900	2.08	0.46	0.68	1.44	111.5	13.5	78	7.53	35.5
YY16613		0.38	<0.001	0.43	5.72	45.5	900	1.21	0.40	0.84	1.76	72.7	9.8	61	4.27	15.9
YY16614		0.60	0.002	0.84	6.33	80.4	990	1.57	0.85	0.66	1.96	85.4	10.1	66	4.37	21.2
YY16615		0.47	0.001	0.23	6.04	26.9	1030	1.34	0.45	0.70	1.20	67.5	11.0	61	6.07	18.0
YY16616		0.49	0.003	0.37	5.97	30.3	1060	1.48	0.40	0.98	1.13	81.3	9.7	61	4.43	27.9
YY16617		0.44	0.002	1.34	6.59	35.0	1140	1.51	1.04	1.30	1.04	78.9	10.7	67	6.03	37.9
YY16618		0.53	0.002	0.61	7.03	54.5	1140	1.74	0.92	0.67	2.25	82.6	12.3	72	6.34	33.3
YY16619		0.44	0.001	0.29	5.62	18.9	920	1.31	0.45	0.67	1.03	78.1	8.4	59	9.25	27.7
YY16651		0.41	<0.001	0.12	5.07	23.1	780	0.99	0.27	0.53	0.33	60.0	5.8	58	3.62	16.1
YY16652		0.44	<0.001	0.26	5.48	24.4	790	1.09	0.28	0.57	1.15	63.8	4.7	63	4.97	23.9



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Page: 4 - B  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146755**

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	
		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
YY16581		2.43	14.05	0.10	1.8	0.242	1.33	36.1	31.2	0.61	353	1.12	0.83	11.9	23.8	590
YY16583		2.52	12.85	0.11	1.9	0.045	1.35	34.5	24.5	0.54	283	1.06	0.83	11.1	19.1	840
YY16584		3.19	20.2	0.14	2.0	0.069	2.70	56.5	44.5	0.79	323	0.66	0.73	12.8	24.0	440
YY16585		3.35	14.00	0.12	1.8	0.052	1.53	40.9	33.9	0.66	415	1.00	0.86	10.7	24.6	450
YY16586		2.92	14.10	0.11	1.8	0.045	1.40	34.5	34.0	0.67	359	0.91	0.92	11.7	24.4	570
YY16587		3.20	16.65	0.11	1.9	0.049	1.81	43.2	42.1	0.76	448	1.04	1.07	13.2	27.5	660
YY16588		3.07	13.55	0.10	2.0	0.052	1.29	35.1	31.8	0.69	482	1.00	1.00	11.0	25.7	800
YY16589		2.88	16.30	0.17	1.8	0.070	1.92	41.3	35.4	0.69	295	0.63	0.83	11.4	18.3	570
YY16590		2.77	14.85	0.15	1.9	0.071	1.70	40.1	30.9	0.66	347	0.83	0.90	11.3	21.6	530
YY16591		3.03	13.00	0.13	2.0	0.052	1.11	31.6	24.3	0.63	459	1.08	1.00	10.7	21.5	750
YY16592		3.03	14.80	0.14	1.9	0.069	1.68	39.3	30.7	0.64	386	1.00	0.83	10.7	19.5	410
YY16593		2.74	12.45	0.14	1.8	0.049	1.20	34.3	25.0	0.61	310	1.01	0.96	11.0	19.4	640
YY16594		2.47	12.30	0.11	1.9	0.041	1.10	29.8	21.5	0.53	222	0.88	0.91	10.7	13.1	700
YY16595		2.59	14.65	0.14	1.9	0.051	1.48	35.7	24.4	0.57	304	1.34	0.93	11.5	20.2	1050
YY16596		3.00	16.75	0.16	2.2	0.063	1.81	40.7	30.3	0.76	338	1.16	0.96	13.5	21.5	540
YY16597		2.72	15.20	0.13	2.1	0.063	1.54	36.2	27.7	0.62	326	1.16	0.82	12.7	16.9	800
YY16598		2.85	13.90	0.13	1.7	0.047	1.23	27.0	24.5	0.58	253	1.24	0.91	11.8	15.7	400
YY16599		3.59	19.60	0.14	2.4	0.103	1.88	44.2	33.9	0.70	603	0.84	0.60	11.6	17.8	320
YY16600		2.58	13.75	0.14	2.0	0.048	1.36	35.5	27.5	0.60	316	1.05	0.91	12.0	20.5	640
YY16601		3.03	15.90	0.15	2.0	0.271	1.77	40.3	34.4	0.68	366	1.21	0.83	13.1	23.0	580
YY16602		3.18	15.15	0.14	1.9	0.195	1.53	35.5	32.5	0.71	408	1.20	0.86	11.5	25.3	440
YY16603		3.43	19.65	0.17	2.2	0.506	2.67	50.9	43.2	0.76	606	1.04	0.64	14.0	22.3	460
YY16604		3.12	15.25	0.15	2.2	0.193	1.65	39.2	33.9	0.80	485	1.29	0.93	12.6	26.9	490
YY16605		3.11	15.30	0.17	2.2	0.316	1.67	42.1	35.4	0.88	616	1.11	0.84	11.7	28.5	510
YY16606		3.03	15.35	0.15	1.9	0.365	1.67	38.3	35.0	0.68	541	1.14	0.83	12.5	21.9	400
YY16607		4.11	15.35	0.14	2.0	4.26	1.79	38.5	38.3	0.70	999	1.42	0.73	12.2	19.9	620
YY16608		3.45	17.15	0.14	2.0	0.256	2.31	42.1	39.6	0.78	774	0.95	0.83	13.2	29.0	450
YY16609		3.13	14.50	0.13	1.8	0.601	1.37	30.2	34.3	0.58	786	1.21	0.98	12.1	17.3	480
YY16610		3.19	17.60	0.16	1.9	0.163	2.03	44.0	37.7	0.68	868	0.98	0.77	12.8	23.9	470
YY16611		3.16	17.40	0.18	2.0	0.062	1.96	50.8	37.5	0.69	481	0.81	0.90	12.1	28.3	500
YY16612		3.65	21.8	0.19	2.4	0.235	2.76	59.9	53.1	0.86	667	0.67	0.70	13.5	34.1	620
YY16613		2.91	14.80	0.14	1.9	0.582	1.34	37.0	33.3	0.66	602	1.18	0.88	11.8	19.9	370
YY16614		3.36	15.45	0.15	2.1	0.461	1.86	42.2	35.9	0.71	735	1.08	0.81	12.5	25.2	490
YY16615		3.01	15.15	0.13	1.9	0.640	1.57	36.7	34.5	0.82	604	1.00	0.85	11.6	22.6	400
YY16616		3.04	14.65	0.16	1.8	0.273	1.64	44.3	35.1	0.84	518	0.89	0.79	11.6	27.6	580
YY16617		3.27	16.75	0.16	1.8	0.223	1.72	44.1	33.5	0.65	555	1.36	0.65	10.1	28.2	870
YY16618		3.41	18.00	0.16	2.1	0.486	1.90	43.0	40.3	0.72	577	1.32	0.87	13.0	26.8	530
YY16619		2.78	14.20	0.15	1.8	0.251	1.49	40.7	27.7	0.61	363	0.90	0.88	11.1	23.1	720
YY16651		2.71	12.75	0.12	1.8	0.046	1.26	31.7	23.3	0.58	284	1.04	0.83	11.2	16.4	510
YY16652		2.46	14.60	0.12	1.8	0.069	1.37	34.4	21.1	0.54	231	0.84	0.84	11.1	15.2	1430



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Page: 4 - C  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
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CERTIFICATE OF ANALYSIS WH19146755
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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	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units LOD	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02	ppm 0.1
YY16581		18.8	94.3	<0.002	0.03	0.97	9.3	1	7.6	132.0	0.70	<0.05	8.58	0.357	0.78	2.2
YY16583		21.3	71.1	<0.002	0.01	1.00	8.9	1	1.7	121.5	0.71	<0.05	9.87	0.373	0.47	2.1
YY16584		21.6	138.0	<0.002	0.01	1.42	14.0	1	2.6	121.5	0.84	0.06	14.05	0.342	0.81	2.4
YY16585		31.6	79.7	<0.002	0.01	1.53	11.7	1	1.6	130.5	0.69	0.07	11.55	0.339	0.56	2.5
YY16586		60.5	73.3	<0.002	0.01	1.44	10.8	1	1.7	141.0	0.70	0.05	10.25	0.364	0.47	2.1
YY16587		31.1	94.1	<0.002	0.01	1.47	12.3	1	2.0	156.5	0.79	0.05	12.95	0.396	0.58	2.7
YY16588		19.2	66.3	<0.002	0.01	1.37	10.9	1	1.5	147.0	0.68	<0.05	11.35	0.363	0.45	2.7
YY16589		26.7	102.0	<0.002	0.01	0.81	12.1	1	2.8	126.5	0.78	0.05	10.40	0.349	0.75	2.5
YY16590		25.4	85.7	<0.002	0.01	1.09	10.5	1	2.6	137.0	0.75	0.05	9.92	0.356	0.62	2.3
YY16591		17.6	57.2	<0.002	0.01	1.29	10.8	1	1.6	140.0	0.73	<0.05	8.74	0.355	0.49	2.8
YY16592		24.8	91.2	<0.002	0.01	1.19	10.9	1	2.3	125.5	0.72	0.06	10.25	0.349	0.68	2.5
YY16593		16.2	61.5	<0.002	0.01	1.03	10.1	1	1.6	137.0	0.73	<0.05	8.58	0.371	0.48	2.2
YY16594		23.5	55.3	<0.002	0.02	0.83	8.5	1	1.7	124.5	0.74	<0.05	7.65	0.371	0.47	2.1
YY16595		36.4	79.9	<0.002	0.01	1.22	10.9	1	2.2	145.0	0.72	<0.05	8.38	0.349	0.54	2.2
YY16596		111.5	99.3	<0.002	0.01	1.37	12.3	1	4.2	156.5	0.89	<0.05	10.35	0.406	0.76	2.7
YY16597		36.4	89.5	<0.002	0.01	1.00	10.2	1	3.1	124.0	0.83	<0.05	9.73	0.392	0.67	2.5
YY16598		25.8	74.5	<0.002	0.01	1.07	8.9	1	2.0	128.0	0.74	<0.05	7.23	0.385	0.53	2.0
YY16599		111.5	153.0	<0.002	0.01	1.40	9.6	1	18.5	109.5	0.82	<0.05	15.30	0.361	1.55	2.4
YY16600		16.0	72.2	<0.002	0.01	1.15	10.3	1	1.9	134.0	0.75	<0.05	9.01	0.369	0.53	2.2
YY16601		34.4	103.5	<0.002	0.01	1.34	10.1	1	7.9	141.5	0.85	<0.05	10.45	0.377	0.73	2.3
YY16602		36.8	86.1	<0.002	0.02	1.15	10.6	1	5.5	149.5	0.77	<0.05	11.00	0.346	0.74	2.5
YY16603		42.1	156.0	<0.002	0.02	1.19	12.0	1	15.6	122.0	0.91	<0.05	16.95	0.374	1.06	2.7
YY16604		17.6	91.7	<0.002	0.01	1.34	11.6	1	2.4	144.0	0.84	<0.05	10.90	0.381	0.67	2.6
YY16605		28.8	95.8	<0.002	0.01	1.42	11.9	1	2.8	134.5	0.81	<0.05	11.85	0.366	0.70	2.4
YY16606		35.2	101.5	<0.002	0.01	1.38	10.4	1	3.9	128.0	0.83	<0.05	11.00	0.376	0.72	2.4
YY16607		207	111.0	<0.002	0.02	3.02	9.5	1	10.5	120.0	0.83	<0.05	11.45	0.389	0.86	2.5
YY16608		49.4	126.5	<0.002	0.01	1.66	11.8	1	5.6	136.5	0.86	<0.05	12.45	0.385	0.87	2.6
YY16609		116.0	84.4	<0.002	0.01	1.43	9.3	1	5.2	141.0	0.78	0.05	7.82	0.398	0.63	2.0
YY16610		192.0	129.0	<0.002	0.01	1.66	11.2	<1	6.7	128.0	0.85	<0.05	12.70	0.367	0.91	2.3
YY16611		26.6	105.5	<0.002	0.01	1.32	11.8	1	2.5	149.0	0.79	<0.05	12.55	0.355	0.77	2.5
YY16612		56.4	151.5	<0.002	0.02	1.75	14.1	1	5.6	139.5	0.93	<0.05	18.05	0.378	0.91	2.9
YY16613		48.1	82.6	<0.002	0.01	1.39	9.7	1	4.5	145.5	0.79	<0.05	9.50	0.361	0.70	2.2
YY16614		44.3	106.0	<0.002	0.02	1.58	10.7	1	5.4	134.0	0.85	<0.05	12.20	0.374	0.75	2.6
YY16615		23.6	102.5	<0.002	0.01	1.20	10.8	1	6.0	136.5	0.76	<0.05	9.97	0.348	0.77	2.3
YY16616		22.7	93.9	<0.002	0.02	1.41	11.3	1	3.3	132.0	0.74	<0.05	11.35	0.359	0.65	2.5
YY16617		39.0	106.0	<0.002	0.04	1.26	12.8	1	6.9	156.0	0.62	<0.05	13.80	0.291	0.83	3.0
YY16618		69.5	119.0	<0.002	0.01	1.30	12.3	1	7.5	146.0	0.80	<0.05	12.20	0.361	0.88	2.7
YY16619		20.8	91.9	<0.002	0.02	0.99	10.4	1	6.7	146.5	0.73	<0.05	10.60	0.335	0.83	2.4
YY16651		47.8	77.9	<0.002	0.01	1.11	8.6	1	3.1	120.5	0.75	<0.05	8.54	0.363	0.58	2.0
YY16652		85.5	86.0	<0.002	0.02	1.27	10.6	1	4.1	129.0	0.74	<0.05	8.74	0.355	0.64	2.4





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Page: 4 - D  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

CERTIFICATE OF ANALYSIS WH19146755
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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
YY16581		97	3.5	12.9	146	72.0
YY16583		98	1.5	10.9	65	71.1
YY16584		100	1.5	13.3	76	76.2
YY16585		97	1.2	14.6	76	73.1
YY16586		105	1.2	13.7	85	68.7
YY16587		120	1.5	16.5	93	75.6
YY16588		106	1.2	16.1	96	67.6
YY16589		90	1.7	12.5	92	63.3
YY16590		97	1.8	11.2	95	66.1
YY16591		106	1.3	13.3	80	66.3
YY16592		96	1.4	12.0	84	64.8
YY16593		108	1.2	13.5	65	63.5
YY16594		100	1.1	10.5	59	66.9
YY16595		105	1.4	12.8	87	68.0
YY16596		111	1.8	12.9	143	78.4
YY16597		106	1.7	10.4	118	74.9
YY16598		113	1.4	9.2	98	63.3
YY16599		96	5.8	9.7	557	81.4
YY16600		109	1.4	12.9	74	70.9
YY16601		102	2.1	11.9	159	71.2
YY16602		104	1.6	12.5	202	63.3
YY16603		85	2.8	11.9	226	77.1
YY16604		112	1.5	15.3	167	74.4
YY16605		104	1.5	16.2	289	72.9
YY16606		99	1.8	12.6	253	70.9
YY16607		96	3.5	10.9	562	73.3
YY16608		102	2.3	14.1	440	72.8
YY16609		109	1.7	15.7	782	63.0
YY16610		93	2.2	11.6	382	70.5
YY16611		95	1.4	12.4	126	72.3
YY16612		84	2.3	16.8	305	81.3
YY16613		99	1.7	11.5	314	67.9
YY16614		97	2.4	13.4	285	74.9
YY16615		100	1.6	12.2	257	70.4
YY16616		97	1.5	17.4	223	68.7
YY16617		108	1.5	17.0	220	67.3
YY16618		115	2.1	15.1	414	73.0
YY16619		84	1.3	14.1	157	62.4
YY16651		100	1.8	9.6	85	61.6
YY16652		92	1.8	11.9	110	66.3



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Page: 5 - A  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146755**

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
YY16653		0.70	0.001	0.35	6.70	32.9	830	2.10	0.40	0.39	3.81	79.4	8.4	66	18.75	41.6
YY16654		0.57	0.001	0.95	5.33	37.6	830	1.75	2.01	0.53	2.21	76.6	10.5	57	5.29	145.5
YY16655		0.57	0.001	0.59	5.24	80.1	790	1.32	2.40	0.50	0.57	63.4	7.7	58	5.56	100.0
YY16656		0.49	0.001	0.57	5.08	21.5	800	1.26	0.54	0.63	0.84	62.4	5.4	56	3.90	26.2
YY16657		0.45	<0.001	1.20	5.38	16.0	890	1.61	0.61	0.62	3.61	63.9	4.9	59	4.72	50.6
YY16658		0.39	0.001	0.69	4.66	35.8	740	1.24	1.69	0.63	1.22	68.8	5.0	54	4.79	33.6
YY16659		0.31	0.003	1.08	5.83	55.5	810	1.96	13.20	0.56	1.35	62.5	8.1	64	10.90	75.6
YY16660		0.56	0.022	0.72	6.19	109.5	1010	2.15	3.32	0.68	1.41	84.5	12.5	72	8.79	87.3
YY16661		0.51	0.009	1.03	5.76	40.8	950	1.75	1.96	0.64	2.46	77.8	9.5	65	7.74	72.2
YY16662		0.57	<0.001	0.25	4.83	21.3	810	1.37	2.37	0.56	1.36	65.8	8.1	55	4.33	48.5
YY16663		0.48	0.005	0.12	5.48	20.7	960	1.29	1.08	0.76	0.61	66.0	8.5	72	5.45	24.7
YY16664		0.37	0.003	0.63	6.39	62.7	1070	1.81	1.50	1.13	3.11	67.5	9.8	81	12.75	51.0
YY16665		0.44	0.003	0.30	5.00	19.6	690	1.00	0.93	0.54	0.25	62.4	4.3	53	5.76	13.1
YY16666		0.39	0.003	0.61	6.38	28.6	940	2.21	1.75	0.64	1.15	76.8	13.5	70	11.50	34.6
YY16667		0.32	<0.001	0.68	4.95	10.9	780	1.15	1.21	0.71	1.56	64.3	6.4	55	5.76	20.7
YY16668		0.33	0.001	0.84	7.12	15.4	880	1.92	0.31	0.82	0.43	100.0	12.5	74	5.07	21.6
YY16669		0.53	0.001	1.71	8.08	40.1	890	2.47	0.50	0.69	3.84	131.5	14.5	77	11.25	37.8
YY16670		0.47	0.001	0.31	7.41	38.0	950	1.99	0.34	0.59	0.27	94.1	20.5	76	6.31	30.0
YY16671		0.58	0.001	0.16	7.27	13.1	980	1.73	0.26	0.66	0.68	95.8	8.6	70	5.17	16.6
YY16672		0.34	0.002	0.29	6.50	14.7	930	1.64	0.27	0.92	0.18	84.1	10.5	64	5.35	19.8
YY16673		0.43	0.001	0.30	6.20	11.3	860	1.51	0.23	0.60	0.17	79.1	6.1	66	4.49	17.5
YY16674		0.42	0.007	0.32	6.27	12.1	930	1.52	0.26	0.66	0.33	74.8	6.6	68	4.72	20.3
YY16675		0.31	<0.001	0.26	6.55	14.4	850	1.57	0.25	0.57	0.27	76.2	6.8	69	5.00	13.2
YY16676		0.48	0.002	0.46	5.98	27.4	830	1.72	0.23	0.90	1.75	88.6	12.6	61	5.05	28.9
YY16677		0.58	0.002	0.64	7.07	124.0	980	1.82	0.50	0.58	3.93	84.8	13.8	73	9.70	28.4
YY16678		0.38	<0.001	0.54	6.17	16.1	1160	1.53	0.22	0.75	3.28	67.0	9.1	68	6.25	22.7
YY16679		0.49	0.010	0.51	6.89	203	1040	2.20	0.42	0.82	2.50	98.7	16.5	75	9.50	35.8
YY16680		0.42	0.004	1.11	7.94	68.5	1020	2.02	0.38	0.48	0.88	73.4	5.9	80	9.60	37.2
YY16681		0.34	0.003	0.75	6.96	71.1	1100	1.95	0.94	0.79	3.92	82.5	17.0	71	8.20	30.1
YY16682		0.35	0.005	0.46	6.80	90.0	910	2.24	0.66	1.68	2.84	65.8	12.6	66	13.80	34.7
YY16683		0.37	0.001	0.40	7.17	57.7	1020	2.28	0.46	0.88	1.34	78.8	14.4	72	15.00	27.5
YY16684		0.38	<0.001	0.28	7.21	35.0	930	2.05	0.32	0.76	2.10	87.3	12.1	72	12.25	28.4
YY16685		0.47	0.001	1.27	7.37	65.5	1070	2.07	0.68	0.75	3.02	85.0	15.3	73	10.70	34.0
YY16686		0.35	0.003	0.55	9.45	56.7	1010	3.20	0.81	0.53	1.98	119.5	15.4	92	16.60	42.3
YY16687		0.41	0.001	0.44	7.27	51.5	980	2.02	0.80	0.69	1.19	97.5	13.1	72	7.94	30.7
YY16688		0.52	0.002	0.53	7.37	40.9	1020	2.16	0.52	0.70	1.70	89.4	13.6	76	9.62	30.7
YY16689		0.32	0.003	0.93	6.73	184.5	900	2.28	4.68	0.57	1.27	78.2	10.3	72	15.50	59.3
YY16690		0.56	0.003	0.27	6.87	43.0	1020	2.12	0.59	0.75	1.97	106.5	12.5	69	6.56	36.5
YY16691		0.41	0.002	0.69	6.99	142.0	980	2.32	2.22	0.63	3.58	106.5	12.5	71	7.19	61.7
YY16692		0.38	0.002	0.52	8.05	61.4	1090	2.47	1.64	0.63	2.18	109.5	17.3	79	8.35	49.6



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Page: 5 - B  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146755**

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	
		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
YY16653		3.21	18.55	0.14	2.1	0.252	2.29	42.3	45.2	0.68	626	0.93	0.56	13.5	21.3	480
YY16654		3.16	14.40	0.14	1.9	0.721	1.39	40.8	31.6	0.61	664	1.30	0.78	12.1	22.6	480
YY16655		3.18	14.15	0.13	1.7	0.844	1.29	32.7	31.1	0.59	485	1.33	0.74	11.5	16.6	490
YY16656		2.56	12.80	0.08	1.7	0.132	1.14	31.5	27.2	0.59	288	1.69	0.82	11.3	18.9	450
YY16657		2.36	13.95	0.10	1.7	0.105	1.26	33.4	23.8	0.52	254	1.21	0.90	10.8	16.5	750
YY16658		2.21	11.65	0.09	1.6	0.150	1.10	34.7	25.6	0.57	259	0.98	0.79	10.6	16.1	700
YY16659		3.26	14.65	0.10	1.5	0.302	1.41	31.2	39.5	0.62	378	1.22	0.75	10.3	21.2	980
YY16660		3.38	15.15	0.12	1.7	0.362	1.72	43.4	46.3	0.84	622	1.69	0.82	12.6	34.8	540
YY16661		2.91	14.10	0.11	1.6	0.238	1.53	39.7	37.8	0.70	396	1.25	0.74	11.0	30.5	700
YY16662		2.77	11.75	0.09	1.6	0.147	1.16	33.1	29.8	0.56	395	1.05	0.79	10.8	22.7	620
YY16663		2.99	13.30	0.09	1.7	0.072	1.27	33.6	32.1	0.73	349	1.14	0.98	11.9	29.4	430
YY16664		3.14	16.05	0.10	1.6	0.093	1.60	34.9	42.2	0.78	361	1.59	0.82	11.0	40.9	820
YY16665		2.15	13.70	0.09	1.6	0.054	1.15	31.2	31.5	0.45	241	1.44	0.82	11.5	13.4	290
YY16666		3.54	15.45	0.10	1.7	0.084	1.75	38.4	54.9	0.73	432	1.43	0.83	12.2	30.4	510
YY16667		1.90	13.00	0.10	1.8	0.082	1.27	32.0	26.2	0.47	763	1.08	0.92	10.4	14.1	570
YY16668		3.21	18.15	0.14	1.6	0.065	2.01	52.1	48.3	0.78	494	0.75	0.81	14.0	29.0	630
YY16669		3.83	20.6	0.16	1.6	0.080	2.64	68.0	57.3	0.80	1240	0.91	0.67	16.1	33.2	670
YY16670		3.67	18.55	0.11	1.8	0.059	2.11	46.9	66.8	0.71	784	1.46	0.83	12.2	35.2	470
YY16671		2.80	18.60	0.13	1.6	0.051	1.94	49.2	44.9	0.66	1090	1.16	0.94	13.7	20.6	270
YY16672		2.80	15.45	0.12	1.6	0.055	1.82	42.9	44.4	0.66	549	0.72	0.81	11.4	20.7	640
YY16673		2.30	15.50	0.13	1.7	0.043	1.68	40.6	38.7	0.59	250	1.00	0.86	11.7	18.6	560
YY16674		2.43	15.45	0.12	1.6	0.044	1.66	38.0	38.3	0.61	293	1.00	0.87	11.2	19.5	690
YY16675		2.55	15.85	0.11	1.7	0.051	1.82	38.8	39.4	0.63	297	0.82	0.86	11.7	19.1	540
YY16676		2.85	13.85	0.13	1.5	0.106	1.68	46.4	44.5	0.61	747	0.68	0.76	12.3	27.1	590
YY16677		3.76	17.65	0.12	1.6	0.266	2.27	41.2	47.4	0.68	1320	1.09	0.68	13.1	26.8	510
YY16678		2.68	16.00	0.11	1.8	0.126	1.79	33.6	32.2	0.60	2800	1.05	0.81	11.9	21.2	540
YY16679		3.87	16.95	0.15	1.8	0.380	2.28	49.3	45.0	1.16	675	1.19	0.65	13.5	33.5	590
YY16680		2.87	22.9	0.11	1.7	0.246	2.36	39.2	41.2	0.69	237	1.20	0.66	13.0	21.3	490
YY16681		3.20	16.95	0.13	1.9	1.295	2.08	41.7	47.2	0.83	804	0.98	0.73	12.8	31.8	680
YY16682		3.09	16.55	0.11	1.6	0.221	2.24	34.1	46.3	0.95	542	0.59	0.77	10.5	30.4	710
YY16683		3.55	17.65	0.12	1.7	0.196	2.02	40.1	53.2	1.08	530	0.96	0.75	12.0	33.6	390
YY16684		3.31	18.15	0.12	1.6	0.139	2.32	44.7	47.3	0.75	725	1.26	0.81	12.5	27.9	290
YY16685		3.35	18.65	0.12	1.7	0.288	2.30	45.7	44.1	0.78	1050	1.12	0.79	12.2	27.1	570
YY16686		4.22	25.6	0.17	2.1	0.401	2.92	63.7	66.7	0.91	814	1.19	0.70	15.0	39.9	570
YY16687		3.48	17.45	0.14	1.8	0.361	2.03	49.2	45.9	0.79	653	1.03	0.87	13.4	31.0	460
YY16688		3.62	17.70	0.13	1.7	0.228	1.81	46.6	51.6	0.82	791	0.93	0.93	13.2	32.8	410
YY16689		4.13	16.90	0.12	1.6	1.935	1.87	41.9	41.0	0.68	606	1.25	0.74	12.7	27.2	680
YY16690		3.24	16.00	0.13	1.9	0.187	2.03	55.2	41.8	0.75	553	0.86	0.93	13.2	31.0	580
YY16691		3.19	17.40	0.14	1.7	0.706	2.18	53.6	48.3	0.71	600	1.00	0.71	12.1	27.4	590
YY16692		3.87	21.1	0.12	2.4	0.493	2.57	54.9	46.9	0.86	704	1.28	0.85	13.1	33.4	600



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Page: 5 - C  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

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**CERTIFICATE OF ANALYSIS WH19146755**

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
YY16653		85.1	186.0	<0.002	0.02	1.00	11.3	1	15.1	101.5	0.88	<0.05	13.50	0.359	1.52	2.4
YY16654		99.0	97.5	<0.002	0.01	1.24	10.8	1	10.3	122.5	0.83	<0.05	12.10	0.358	0.82	3.1
YY16655		122.0	90.4	<0.002	0.01	1.10	9.2	1	11.7	111.5	0.69	<0.05	9.04	0.346	0.81	2.1
YY16656		65.6	75.4	<0.002	0.01	1.19	8.5	1	4.6	121.5	0.74	<0.05	7.78	0.374	0.63	2.0
YY16657		78.4	81.4	<0.002	0.03	0.79	9.5	1	4.6	137.5	0.67	0.05	7.61	0.358	0.66	2.3
YY16658		56.7	72.1	<0.002	0.03	0.70	8.3	1	7.5	123.5	0.66	<0.05	9.18	0.343	0.64	2.1
YY16659		42.3	107.0	<0.002	0.04	0.84	9.9	<1	13.8	126.5	0.59	0.06	9.03	0.308	1.00	2.5
YY16660		221	116.5	<0.002	0.01	2.09	11.6	1	15.3	137.5	0.75	0.05	11.55	0.381	0.97	2.8
YY16661		78.8	110.0	<0.002	0.04	1.25	10.7	1	13.1	128.5	0.67	0.05	10.55	0.337	0.86	2.6
YY16662		22.6	67.6	<0.002	0.02	1.07	8.3	1	8.3	117.5	0.67	<0.05	8.19	0.349	0.58	2.3
YY16663		14.7	84.5	<0.002	0.01	1.05	10.3	<1	4.4	144.5	0.74	<0.05	9.26	0.399	0.66	2.3
YY16664		34.1	113.0	<0.002	0.04	0.83	12.1	<1	6.3	170.5	0.68	0.07	10.60	0.347	0.98	3.2
YY16665		9.7	74.7	<0.002	0.01	0.90	8.2	<1	5.3	117.5	0.73	<0.05	6.87	0.387	0.70	1.8
YY16666		19.6	127.0	<0.002	0.02	0.98	10.8	1	5.7	138.5	0.78	0.05	13.10	0.380	0.99	2.3
YY16667		17.7	77.0	<0.002	0.03	0.57	8.2	1	6.3	142.5	0.66	<0.05	7.43	0.366	0.71	2.1
YY16668		28.0	115.0	<0.002	0.04	0.90	13.4	1	2.7	149.5	0.82	0.05	15.40	0.325	0.74	2.4
YY16669		133.0	179.0	<0.002	0.03	1.30	15.0	1	6.5	134.5	1.04	0.07	19.05	0.422	1.20	3.9
YY16670		26.5	121.5	<0.002	0.02	1.76	12.7	<1	2.6	147.0	0.74	0.09	13.40	0.342	0.73	2.6
YY16671		18.1	113.0	<0.002	0.01	0.98	13.1	<1	2.6	159.5	0.80	<0.05	10.65	0.369	0.71	2.1
YY16672		23.0	105.0	<0.002	0.04	0.93	11.8	<1	2.3	156.5	0.69	0.05	13.05	0.318	0.67	2.9
YY16673		19.5	95.0	<0.002	0.03	0.75	11.4	<1	2.0	141.5	0.70	0.05	11.15	0.338	0.62	2.6
YY16674		21.2	95.6	<0.002	0.03	0.78	11.5	<1	2.1	144.5	0.66	<0.05	10.45	0.326	0.57	2.8
YY16675		22.1	102.0	<0.002	0.03	0.72	11.5	<1	2.6	139.5	0.73	<0.05	10.80	0.338	0.66	2.3
YY16676		55.2	100.5	<0.002	0.04	1.00	10.4	1	2.5	140.5	0.79	<0.05	13.25	0.357	0.56	3.7
YY16677		134.0	157.0	<0.002	0.03	1.95	11.6	1	8.5	122.0	0.80	<0.05	13.65	0.382	1.02	2.5
YY16678		75.0	120.0	<0.002	0.02	0.94	10.9	1	5.2	142.0	0.72	<0.05	9.58	0.367	0.81	1.9
YY16679		79.3	139.0	<0.002	0.07	3.31	12.8	1	6.9	133.0	0.89	0.05	16.20	0.401	0.99	3.5
YY16680		99.0	154.0	<0.002	0.04	1.13	13.2	1	7.0	125.0	0.71	0.05	12.95	0.331	1.08	3.1
YY16681		58.5	139.0	<0.002	0.03	1.25	12.6	1	7.7	141.5	0.75	0.05	13.60	0.342	0.99	2.7
YY16682		80.9	147.0	<0.002	0.04	1.16	12.3	1	9.5	176.5	0.63	0.05	12.20	0.283	1.04	1.9
YY16683		42.3	165.0	<0.002	0.01	1.12	12.3	<1	13.6	159.0	0.76	0.05	12.00	0.349	1.27	2.3
YY16684		31.5	167.0	<0.002	0.01	1.09	12.1	<1	9.4	156.0	0.75	<0.05	12.45	0.370	1.14	2.1
YY16685		84.5	173.0	<0.002	0.01	1.22	12.7	1	11.6	156.0	0.76	<0.05	11.95	0.352	1.18	2.1
YY16686		96.3	212	<0.002	0.03	1.14	15.7	<1	17.6	152.5	0.91	0.05	18.55	0.385	1.56	3.0
YY16687		48.5	139.5	<0.002	0.01	1.24	12.1	<1	12.6	148.5	0.85	<0.05	14.05	0.387	1.08	2.5
YY16688		121.5	136.0	<0.002	0.01	1.10	12.7	1	11.2	156.5	0.80	<0.05	13.15	0.393	1.09	2.7
YY16689		91.2	143.0	<0.002	0.07	1.00	11.7	1	46.0	137.5	0.76	0.05	12.50	0.352	1.20	2.8
YY16690		45.6	123.5	<0.002	0.02	0.91	11.6	1	8.3	167.0	0.86	<0.05	13.90	0.404	0.83	3.1
YY16691		76.7	138.0	<0.002	0.02	1.06	12.2	1	16.6	136.0	0.74	0.05	14.80	0.330	0.93	2.9
YY16692		55.5	147.0	<0.002	0.03	1.08	14.0	1	16.6	161.5	0.96	0.07	16.95	0.385	1.13	3.3



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Page: 5 - D  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

CERTIFICATE OF ANALYSIS WH19146755
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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
YY16653		86	6.1	13.1	798	72.7
YY16654		94	3.0	13.9	674	68.0
YY16655		97	3.4	10.9	288	62.6
YY16656		101	1.8	10.8	300	66.8
YY16657		98	1.4	11.9	174	64.4
YY16658		86	1.7	11.0	209	66.2
YY16659		93	4.3	11.3	214	59.6
YY16660		101	5.1	16.0	405	69.1
YY16661		94	2.2	14.3	320	64.0
YY16662		91	1.9	11.3	252	65.3
YY16663		107	1.4	12.3	97	67.0
YY16664		105	1.5	13.9	236	62.7
YY16665		103	2.0	9.0	74	61.8
YY16666		103	4.6	11.4	302	65.4
YY16667		85	1.6	10.3	112	65.8
YY16668		93	1.5	14.6	123	60.7
YY16669		94	2.1	20.3	540	63.2
YY16670		106	1.5	11.8	105	72.3
YY16671		109	1.4	11.4	110	65.0
YY16672		91	1.3	13.6	88	66.0
YY16673		94	1.3	11.5	60	68.7
YY16674		97	1.2	12.1	72	64.9
YY16675		94	1.4	10.7	89	67.2
YY16676		81	1.4	16.4	284	59.7
YY16677		94	2.8	11.4	564	65.1
YY16678		91	1.6	10.8	667	64.7
YY16679		96	2.1	19.7	300	78.5
YY16680		101	2.6	11.2	157	67.6
YY16681		102	2.0	16.7	543	67.8
YY16682		87	1.9	12.8	610	61.1
YY16683		103	2.2	13.9	291	64.1
YY16684		101	2.6	13.3	268	65.2
YY16685		100	2.3	14.5	434	67.0
YY16686		98	4.0	15.4	552	82.3
YY16687		99	2.3	14.1	325	72.2
YY16688		107	2.3	16.5	606	68.3
YY16689		92	3.4	13.9	305	67.8
YY16690		96	2.1	16.8	455	75.4
YY16691		87	2.7	14.0	557	68.5
YY16692		103	3.5	15.4	441	78.3



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Page: 6 - A  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146755**

Sample Description	Method Analyte Units LOD	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		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
YY16693		0.42	0.003	1.24	8.12	46.4	1200	2.45	1.19	0.76	13.40	94.8	16.5	83	10.45	82.0
YY16694		0.50	0.002	0.53	7.48	32.5	1050	2.31	2.96	0.89	3.14	111.5	18.2	78	13.85	62.0
YY16695		0.40	0.006	1.36	7.19	29.0	1030	2.11	8.37	0.67	3.27	92.3	23.5	75	16.20	113.0
YY16696		0.50	0.005	1.09	6.02	19.9	900	1.96	4.45	0.70	3.44	95.5	14.1	73	8.68	112.0
YY16697		0.33	0.001	1.88	4.74	14.6	750	1.42	2.65	0.62	4.90	77.5	5.0	53	5.07	95.1
YY16698		0.53	<0.001	1.57	7.27	23.7	870	2.82	3.22	0.56	1.51	87.2	8.6	79	10.50	64.4
YY16699		0.56	0.006	0.18	6.50	60.3	950	1.73	0.34	0.67	0.83	81.1	11.4	66	6.72	25.8
YY16700		0.48	0.012	1.26	7.34	73.0	910	3.09	0.95	0.79	8.41	102.5	13.8	74	14.60	49.5
YY16701		0.28	0.003	2.78	8.19	27.4	1290	3.38	2.89	0.89	7.56	80.4	20.2	82	15.40	136.5
YY16703		0.79	0.014	13.85	5.71	179.5	760	3.64	314	0.65	11.90	83.2	14.9	77	7.57	763
YY16704		0.30	0.001	1.69	5.74	29.8	840	1.33	3.44	0.64	1.33	67.7	10.1	71	6.48	71.6
YY16705		0.41	0.005	1.48	6.74	38.8	980	1.78	3.91	0.77	2.73	78.5	12.4	82	8.00	76.2
YY16706		0.37	<0.001	2.85	8.22	30.2	1140	2.16	4.42	0.54	2.28	95.2	12.5	83	12.80	57.9
YY16707		0.46	0.001	0.93	6.62	33.0	1070	2.27	2.56	0.99	2.00	83.2	11.9	70	15.60	28.4
YY16708		0.39	<0.001	0.60	7.28	20.7	1030	1.74	1.24	0.74	1.02	91.9	10.1	74	16.85	30.2
YY16751		0.35	0.003	0.66	4.73	36.4	730	1.07	0.50	0.58	1.28	53.9	5.1	55	3.97	16.9
YY16752		0.51	0.002	0.20	5.43	19.1	930	1.30	0.35	0.67	1.01	66.8	8.3	61	3.57	29.9
YY16753		0.45	0.003	0.47	4.85	17.5	730	0.99	7.93	0.57	0.82	59.8	5.7	62	5.29	79.6
YY16754		0.53	<0.001	0.24	5.81	34.6	880	1.43	1.69	0.60	1.24	62.1	9.8	65	4.94	41.5
YY16755		0.52	0.007	0.27	5.34	30.1	870	1.83	0.87	0.67	1.46	72.0	11.2	59	4.31	57.9
YY16756		0.59	0.002	1.55	6.43	92.2	830	2.04	5.38	0.40	3.90	76.7	15.6	66	12.25	100.5
YY16757		0.63	0.002	1.39	6.44	115.5	800	1.88	4.67	0.45	1.92	76.6	19.5	70	11.25	88.1
YY16758		0.57	0.004	0.36	6.88	52.3	840	3.32	1.85	0.53	1.66	95.5	14.9	66	13.80	69.1
YY16759		0.50	0.012	0.46	6.37	22.1	1070	2.25	1.43	0.71	1.16	93.1	13.0	66	8.15	48.0
YY16760		0.64	0.002	0.33	6.11	28.3	900	1.53	1.51	0.67	0.81	69.0	11.2	67	9.07	38.8
YY16761		0.45	0.001	0.12	4.87	16.1	770	1.03	0.65	0.61	0.53	64.7	7.2	52	4.75	18.4
YY16762		0.43	0.002	0.11	4.86	18.6	730	1.06	0.42	0.55	0.31	59.0	5.9	55	4.53	12.9
YY16763		0.43	0.001	0.34	5.10	20.7	710	1.14	1.12	0.46	0.86	66.7	6.9	55	8.05	20.4
YY16764		0.54	0.002	0.86	6.30	34.7	710	1.52	2.43	0.37	1.36	79.5	8.0	65	13.60	50.0
YY16765		0.56	0.002	0.27	7.65	29.1	860	2.54	3.43	0.53	1.56	106.5	18.1	72	17.65	73.3
YY16766		0.64	0.003	0.67	6.98	43.1	650	2.16	1.55	0.40	1.13	94.9	13.9	61	15.50	46.0
YY16767		0.63	0.002	0.46	6.24	34.7	650	1.87	1.28	0.36	0.68	98.3	11.8	57	12.55	35.2
YY16768		0.55	0.003	0.45	6.66	31.9	740	2.03	1.49	0.42	1.11	94.2	11.1	64	13.85	41.7
YY16769		0.54	0.001	0.29	6.66	36.5	710	1.81	1.66	0.28	0.52	81.5	10.5	63	14.80	34.5
YY16770		0.66	0.003	0.57	6.14	30.6	790	1.62	1.12	0.51	0.52	69.6	8.0	65	9.49	22.1
YY16771		0.76	0.002	0.34	6.40	34.6	680	1.89	1.99	0.47	1.11	90.9	13.0	59	14.05	36.1
YY16772		0.73	0.003	0.10	5.30	33.2	690	1.35	1.09	0.55	0.76	76.6	9.2	51	7.89	31.9
YY16773		0.47	0.003	0.49	9.95	52.3	1010	2.56	0.46	0.43	0.39	133.5	12.6	94	7.49	39.8
YY16774		0.46	0.004	0.70	5.94	58.7	900	1.27	0.22	0.50	0.59	69.3	8.2	61	5.40	21.1
YY16775		0.34	0.003	0.45	6.23	33.9	970	1.36	0.20	0.61	0.52	65.9	8.3	70	3.85	21.2



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Page: 6 - B  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146755**

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	
		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
YY16693		3.47	21.7	0.14	2.1	0.328	2.25	53.1	53.4	0.78	794	1.58	0.77	11.4	37.7	610
YY16694		3.90	20.2	0.12	2.3	0.757	2.29	57.9	58.7	0.90	767	1.24	0.87	14.9	41.3	650
YY16695		4.13	20.4	0.13	2.1	0.403	2.19	49.4	49.8	0.79	897	1.46	0.83	12.3	35.2	660
YY16696		3.55	15.95	0.10	2.0	0.445	1.68	49.0	39.6	0.80	577	1.22	0.78	11.2	37.0	630
YY16697		1.95	12.10	0.11	1.7	0.440	1.28	39.9	23.9	0.47	302	0.49	0.76	9.5	17.2	550
YY16698		3.02	20.7	0.11	2.4	0.537	2.23	44.9	39.2	0.67	870	1.14	0.77	12.1	23.1	1080
YY16699		3.10	16.45	0.11	2.1	0.074	1.75	41.9	39.2	0.71	421	1.11	0.93	12.1	30.0	330
YY16700		3.67	19.45	0.15	2.0	0.370	2.16	56.5	55.3	0.79	1060	1.14	0.64	12.8	35.3	600
YY16701		4.07	21.9	0.13	1.9	0.546	2.14	45.6	74.7	0.95	1160	1.92	0.70	10.9	44.5	840
YY16703		4.49	15.70	0.13	2.1	4.92	1.41	46.2	62.6	0.80	1040	1.56	0.78	11.5	38.1	620
YY16704		2.62	14.45	0.11	1.9	0.368	1.44	34.6	34.0	0.72	412	1.10	0.80	10.2	27.3	740
YY16705		3.51	17.70	0.12	2.1	0.428	1.70	41.2	46.7	0.84	566	1.69	0.84	12.2	35.2	670
YY16706		3.98	22.9	0.13	2.3	0.248	2.48	50.5	63.2	0.80	466	2.06	0.82	15.1	35.5	680
YY16707		3.31	19.15	0.12	2.0	0.152	1.65	43.1	57.9	1.24	538	1.27	0.84	12.6	34.6	430
YY16708		3.04	21.4	0.12	2.1	0.089	2.07	47.6	48.1	0.74	477	1.65	0.85	12.6	28.4	630
YY16751		2.63	13.55	0.10	2.0	0.124	1.12	27.6	23.9	0.48	272	1.36	0.88	10.8	14.6	640
YY16752		3.03	13.50	0.10	2.1	0.098	1.34	33.6	28.6	0.66	390	1.34	0.98	11.6	23.7	470
YY16753		3.52	14.50	0.11	1.9	1.575	1.16	29.7	25.0	0.56	356	2.00	0.89	11.4	17.2	420
YY16754		3.50	15.45	0.10	2.0	0.269	1.43	31.0	33.9	0.71	380	1.50	0.87	11.9	27.9	380
YY16755		2.93	13.05	0.10	2.0	0.159	1.27	35.9	29.8	0.62	458	1.22	0.95	10.1	27.6	560
YY16756		2.85	18.55	0.09	2.0	1.610	1.86	40.7	34.8	0.52	748	1.57	0.61	11.1	25.5	810
YY16757		3.58	18.30	0.09	2.0	0.831	1.72	39.4	39.1	0.60	739	2.17	0.69	10.6	24.7	850
YY16758		3.37	18.10	0.12	2.0	0.235	1.94	48.6	76.7	0.77	569	1.17	0.65	12.0	33.5	600
YY16759		2.98	16.00	0.11	2.3	0.127	1.69	47.1	62.7	0.73	514	1.31	0.82	11.8	30.6	700
YY16760		3.45	15.95	0.10	2.0	0.328	1.57	35.0	47.8	0.71	540	1.37	0.88	11.7	27.7	500
YY16761		2.31	12.50	0.11	1.8	0.079	1.19	32.8	31.2	0.55	312	0.96	0.84	10.1	18.6	520
YY16762		2.98	13.10	0.09	1.9	0.056	1.10	30.2	31.5	0.52	251	1.29	0.86	10.7	15.5	260
YY16763		3.25	14.00	0.08	1.9	0.097	1.29	34.5	32.7	0.47	659	1.23	0.74	10.8	15.7	480
YY16764		3.60	18.70	0.09	1.8	0.174	1.68	40.3	47.7	0.60	446	1.36	0.59	12.1	22.6	460
YY16765		3.73	20.6	0.15	2.2	0.173	2.47	55.4	78.6	1.00	626	0.85	0.63	13.5	37.3	520
YY16766		3.29	17.80	0.12	1.8	0.140	2.24	48.1	58.4	0.67	601	0.56	0.58	11.7	28.6	530
YY16767		2.99	16.10	0.12	1.9	0.109	1.89	50.3	55.0	0.61	568	0.57	0.60	12.1	25.6	420
YY16768		3.52	17.50	0.11	1.9	0.139	2.00	47.9	61.5	0.66	500	0.92	0.67	12.0	27.9	500
YY16769		3.66	18.15	0.12	1.9	0.103	1.85	42.1	68.8	0.60	443	1.04	0.56	12.2	27.1	410
YY16770		3.32	16.55	0.11	2.0	0.080	1.53	35.8	48.4	0.59	353	1.07	0.85	12.7	21.4	350
YY16771		3.04	16.25	0.11	1.7	0.129	1.89	46.1	55.3	0.66	637	0.56	0.65	12.5	25.5	560
YY16772		2.69	13.10	0.10	1.7	0.123	1.46	38.7	40.3	0.59	433	0.66	0.72	10.8	23.2	410
YY16773		4.15	26.5	0.14	3.0	0.153	2.92	69.2	64.9	0.89	597	0.84	0.97	16.4	39.5	550
YY16774		2.86	15.10	0.08	1.9	0.054	1.54	34.6	32.0	0.60	960	0.99	0.83	11.9	20.2	320
YY16775		3.15	15.15	0.09	2.0	0.046	1.45	33.0	33.2	0.66	580	1.16	0.98	12.4	24.6	440



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Page: 6 - C  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146755**

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
YY16693		70.4	164.0	<0.002	0.03	1.18	14.6	1	11.4	154.5	0.79	0.06	14.05	0.322	1.32	3.4
YY16694		41.1	162.0	<0.002	0.02	1.11	13.3	1	33.3	174.5	1.00	0.06	15.10	0.429	1.41	3.0
YY16695		46.8	165.5	<0.002	0.03	1.06	12.5	1	19.5	149.0	0.84	0.05	15.00	0.358	1.66	3.1
YY16696		38.6	113.0	<0.002	0.02	0.98	11.2	1	18.9	132.0	0.89	<0.05	12.75	0.365	1.14	3.0
YY16697		29.9	78.7	<0.002	0.04	0.63	8.7	<1	9.2	122.5	0.73	<0.05	9.03	0.335	0.73	2.6
YY16698		66.6	156.0	<0.002	0.02	0.80	12.5	<1	12.5	135.0	0.83	0.05	10.65	0.364	1.33	2.7
YY16699		43.0	104.0	<0.002	0.01	1.17	11.0	<1	6.3	152.5	0.81	<0.05	11.50	0.395	0.89	2.4
YY16700		334	157.0	<0.002	0.04	1.29	13.0	<1	15.4	146.5	0.86	<0.05	17.15	0.356	1.37	3.4
YY16701		48.3	174.5	<0.002	0.04	1.55	15.0	1	10.5	151.0	0.75	0.07	13.15	0.324	1.50	3.7
YY16703		215	96.7	<0.002	0.02	2.01	10.6	1	41.5	127.0	0.79	0.34	12.10	0.361	0.94	3.6
YY16704		51.9	92.2	<0.002	0.03	0.81	10.1	1	6.4	124.0	0.73	<0.05	8.88	0.334	0.88	2.3
YY16705		35.5	116.5	<0.002	0.02	1.27	12.2	<1	10.9	141.5	0.84	<0.05	10.25	0.393	1.11	2.5
YY16706		50.1	171.0	<0.002	0.01	1.48	14.2	<1	7.3	134.5	1.03	0.06	12.50	0.383	1.43	2.7
YY16707		29.1	174.0	<0.002	0.01	0.98	11.8	<1	8.9	157.5	0.88	0.06	9.69	0.387	1.65	2.2
YY16708		14.1	153.0	<0.002	0.02	0.95	12.7	1	7.0	151.0	0.88	<0.05	10.85	0.388	1.30	2.5
YY16751		58.1	68.0	<0.002	0.02	1.08	8.3	<1	3.2	128.0	0.81	0.05	7.41	0.379	0.63	2.0
YY16752		35.3	69.2	<0.002	0.01	1.41	10.4	<1	3.1	145.5	0.79	<0.05	9.89	0.390	0.57	2.6
YY16753		19.8	71.4	<0.002	0.02	1.39	8.5	1	9.5	124.0	0.80	0.07	7.93	0.401	0.67	2.0
YY16754		38.8	91.0	<0.002	0.01	1.65	10.2	<1	6.8	135.5	0.82	0.06	10.15	0.398	0.81	2.1
YY16755		24.6	71.5	<0.002	0.01	1.28	9.6	<1	3.1	140.5	0.74	<0.05	10.20	0.361	0.57	2.3
YY16756		58.4	123.0	<0.002	0.02	1.33	11.1	<1	9.5	106.0	0.79	0.06	10.95	0.345	1.10	2.4
YY16757		44.9	121.0	<0.002	0.02	1.52	10.6	1	9.3	109.5	0.80	0.06	11.75	0.354	1.19	2.6
YY16758		23.6	132.5	<0.002	0.01	1.35	11.3	1	8.0	111.0	0.81	<0.05	14.80	0.357	1.32	3.2
YY16759		20.4	109.0	<0.002	0.01	1.24	11.3	<1	5.3	137.0	0.84	<0.05	13.50	0.381	1.09	3.4
YY16760		22.5	102.0	<0.002	0.01	1.35	10.5	<1	9.7	131.0	0.82	0.06	10.25	0.369	0.93	2.2
YY16761		14.6	65.8	<0.002	0.01	0.96	8.4	<1	3.6	124.0	0.76	<0.05	8.26	0.353	0.61	2.0
YY16762		15.0	64.4	<0.002	0.01	1.19	8.5	<1	2.5	118.5	0.75	<0.05	7.50	0.366	0.56	1.9
YY16763		20.0	77.5	<0.002	0.01	1.32	8.7	<1	4.3	109.0	0.78	<0.05	8.90	0.355	0.71	2.0
YY16764		19.6	110.0	<0.002	0.01	1.34	10.5	<1	9.5	90.9	0.90	0.06	10.90	0.397	1.10	2.0
YY16765		26.1	174.0	<0.002	0.01	1.26	13.5	1	14.3	116.5	1.02	0.05	16.65	0.399	1.65	2.9
YY16766		22.7	147.5	<0.002	0.01	1.12	11.2	<1	10.9	100.0	0.89	<0.05	14.95	0.373	1.34	2.4
YY16767		18.2	123.0	<0.002	0.01	1.08	10.3	<1	10.8	94.2	0.90	<0.05	13.95	0.399	1.04	2.3
YY16768		21.7	127.0	<0.002	0.01	1.27	11.3	1	8.6	107.0	0.92	0.06	12.85	0.393	1.13	2.5
YY16769		18.4	128.5	<0.002	0.01	1.31	11.0	<1	8.4	84.5	0.91	0.05	12.10	0.370	1.16	2.2
YY16770		18.2	95.8	<0.002	0.01	1.23	10.1	<1	5.9	120.5	1.00	<0.05	9.98	0.407	0.88	2.1
YY16771		25.1	137.0	<0.002	0.01	1.01	10.8	<1	10.3	104.0	0.96	<0.05	12.15	0.386	1.16	2.1
YY16772		22.1	98.3	<0.002	0.01	1.03	9.1	1	6.9	108.5	0.80	<0.05	10.55	0.353	0.80	2.0
YY16773		41.4	159.5	<0.002	0.01	1.82	17.9	<1	4.3	186.0	1.16	<0.05	19.80	0.392	1.01	3.1
YY16774		90.8	111.0	<0.002	0.01	1.96	9.9	<1	3.1	127.0	0.80	<0.05	10.80	0.366	0.75	2.2
YY16775		43.1	91.2	<0.002	0.01	1.63	10.3	<1	2.1	144.5	0.81	<0.05	10.25	0.399	0.64	2.4





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Page: 6 - D  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

CERTIFICATE OF ANALYSIS WH19146755
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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
YY16693		110	2.6	17.9	1080	69.8
YY16694		102	3.5	17.5	719	82.7
YY16695		106	3.3	17.2	558	72.4
YY16696		91	3.3	16.0	434	67.3
YY16697		69	2.1	13.2	243	59.3
YY16698		100	3.0	11.1	289	79.7
YY16699		103	1.8	12.8	220	68.5
YY16700		86	4.9	18.7	1200	70.2
YY16701		125	2.5	19.0	841	64.3
YY16703		93	10.2	17.6	1460	75.5
YY16704		96	1.7	11.2	240	62.2
YY16705		109	3.3	13.4	465	70.8
YY16706		125	2.3	14.0	449	79.8
YY16707		116	2.1	15.9	299	64.6
YY16708		111	2.4	13.2	177	70.7
YY16751		96	2.4	10.1	175	109.5
YY16752		112	1.7	13.6	215	70.3
YY16753		110	5.0	10.5	379	65.5
YY16754		114	2.5	11.3	341	69.4
YY16755		98	2.1	12.9	281	65.4
YY16756		94	2.6	11.1	624	92.9
YY16757		101	3.4	11.4	361	66.1
YY16758		89	3.3	14.5	394	70.2
YY16759		102	3.2	16.9	236	78.5
YY16760		106	4.1	12.7	362	65.7
YY16761		86	1.9	10.9	138	60.3
YY16762		106	1.3	10.3	85	65.9
YY16763		95	2.4	9.1	169	63.6
YY16764		91	5.0	9.1	229	64.1
YY16765		86	7.1	15.4	370	71.0
YY16766		67	5.2	11.6	205	61.9
YY16767		66	3.9	11.2	178	66.4
YY16768		83	4.4	11.5	205	64.3
YY16769		84	3.8	8.9	157	64.7
YY16770		105	2.9	10.7	109	64.4
YY16771		69	22.5	11.0	187	62.9
YY16772		72	3.0	10.5	202	61.0
YY16773		102	1.9	16.3	153	105.5
YY16774		97	1.9	11.3	179	71.2
YY16775		116	1.5	11.5	156	70.0



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Page: 7 - A  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146755**

Sample Description	Method Analyte Units LOD	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
YY16776		0.42	0.006	0.55	6.04	62.3	920	1.41	0.23	0.54	0.47	68.3	8.6	67	3.91	23.9
YY16777		0.51	0.006	0.92	6.90	112.0	1110	1.56	0.30	0.50	0.92	75.3	11.2	72	5.48	23.4
YY16778		0.59	0.002	0.41	7.99	33.8	970	1.97	0.26	0.36	0.57	99.8	11.6	81	5.57	28.0
YY16779		0.36	0.003	0.38	5.62	32.9	940	1.07	0.21	0.58	0.61	64.8	5.8	62	3.86	12.3
YY16780		0.39	0.005	0.57	5.45	32.2	720	1.13	0.21	0.47	0.47	64.2	6.5	66	3.52	14.4
YY16781		0.35	0.002	0.52	6.53	44.2	890	1.34	0.34	0.44	0.91	68.1	10.1	71	5.34	19.4
YY16782		0.39	0.003	1.42	6.46	31.5	1140	1.32	0.26	1.26	2.99	86.1	8.4	68	5.46	21.7
YY16783		0.54	0.002	0.77	7.54	32.7	1110	1.86	0.33	0.71	0.52	95.0	10.8	74	7.29	38.8
YY16784		0.56	0.013	0.44	6.03	27.6	930	1.46	0.22	0.56	0.78	84.3	8.1	63	4.46	20.5
YY16785		0.52	0.007	0.44	6.17	25.5	1000	1.40	0.22	1.27	0.86	80.0	9.0	65	4.56	25.4
YY16786		0.43	0.005	0.52	6.09	32.5	960	1.33	0.26	1.02	0.65	79.9	8.6	62	4.69	20.3
YY16787		0.42	0.003	0.54	7.14	67.4	950	1.68	0.41	0.63	1.05	90.0	10.6	72	5.74	24.7
YY16788		0.48	0.003	0.70	6.14	36.7	1000	1.52	0.81	0.92	1.43	80.4	10.3	61	4.43	25.4
YY16789		0.51	0.001	0.30	7.81	36.8	1090	1.89	0.29	0.62	0.49	101.5	10.2	75	5.38	26.4
YY16790		0.48	0.016	0.74	6.46	32.4	1050	1.63	0.29	0.73	0.86	88.3	10.5	68	4.52	21.6
YY16791		0.58	0.003	0.29	5.52	20.0	900	1.30	0.18	0.74	0.46	83.5	7.8	57	4.06	15.7
YY16792		0.43	0.003	0.81	6.19	36.9	950	1.62	0.25	1.41	1.66	76.8	10.2	66	5.51	25.1
YY16793		0.45	0.003	0.53	5.69	33.3	890	1.41	0.27	1.25	1.37	84.9	9.8	62	3.98	26.5
YY16794		0.62	0.004	0.80	8.02	82.5	1190	2.25	0.43	0.63	1.49	108.0	11.8	77	9.66	35.6
YY16795		0.58	0.017	0.24	7.25	64.7	1120	1.71	0.28	0.48	1.10	86.0	10.6	74	5.35	27.2
YY16796		0.54	0.003	0.41	8.16	61.3	1160	1.92	0.27	0.48	1.56	93.2	15.3	82	5.78	22.5
YY16797		0.61	0.005	0.90	7.72	76.5	1070	1.89	0.26	0.45	0.90	95.8	12.3	78	6.19	24.7
YY16798		0.48	0.005	1.91	6.46	64.3	1100	1.70	0.29	0.67	3.17	82.6	8.8	71	5.05	40.3
YY16799		0.50	0.004	0.28	5.95	35.6	880	1.20	0.19	0.50	0.80	63.4	6.9	64	4.40	19.0
YY16800		0.37	0.008	2.46	6.25	30.1	850	1.34	0.23	0.60	0.60	63.3	8.4	70	3.91	15.3
YY16801		0.23	0.003	0.80	5.99	22.1	960	1.33	0.25	1.10	0.31	81.5	10.2	66	4.32	15.3
YY16802		0.18	0.002	0.52	6.19	13.0	910	1.53	0.27	0.91	0.20	93.6	9.9	65	4.77	22.5
YY16803		0.21	0.002	0.52	5.80	36.8	820	1.45	0.22	1.64	1.10	81.1	11.8	62	9.06	19.9
YY16804		0.18	0.001	0.29	5.09	16.2	720	1.12	0.19	0.53	0.19	77.1	6.4	59	3.27	9.8
YY16805		0.16	0.002	0.74	6.61	19.1	980	1.49	0.40	0.60	0.37	70.6	9.1	69	6.21	28.7
YY16806		0.17	0.002	0.52	6.74	9.2	890	1.67	0.28	0.51	0.24	99.3	8.9	65	5.20	19.1
YY16807		0.10	0.001	0.37	5.81	7.7	830	1.40	0.19	0.51	0.17	79.8	7.0	61	4.13	11.7
YY16808		0.20	0.002	0.36	6.22	12.6	970	1.53	0.25	0.67	0.32	79.7	10.8	64	4.35	26.2
YY16809		0.20	0.001	0.43	6.06	13.1	980	1.43	0.28	0.97	0.47	75.5	13.6	66	4.12	21.4
YY16810		0.24	0.002	0.32	6.98	23.0	920	1.80	0.31	0.75	1.41	95.6	12.1	74	4.91	23.7
YY16811		0.28	0.003	0.22	5.93	21.1	900	1.38	0.27	0.56	0.46	74.7	10.0	64	3.67	21.0
YY16812		0.19	0.002	0.29	6.16	34.8	1030	1.34	0.28	0.78	0.96	69.4	8.0	69	3.52	21.2
YY16813		0.27	0.001	0.35	5.38	73.1	880	1.15	0.28	0.66	2.16	64.9	5.4	61	3.34	19.7
YY16814		0.31	0.003	0.20	5.07	24.2	790	1.08	0.20	0.54	0.31	59.8	6.5	59	2.81	14.8
YY16815		0.30	0.001	0.35	5.90	21.7	890	1.28	0.22	0.65	1.16	66.2	11.7	66	3.14	17.3



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Page: 7 - B  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

CERTIFICATE OF ANALYSIS WH19146755
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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
YY16776		3.24	14.50	0.09	1.9	0.072	1.43	34.2	36.8	0.67	493	1.12	0.89	12.2	25.2	320
YY16777		3.42	17.40	0.10	2.2	0.091	1.85	38.3	43.8	0.69	1360	1.39	0.83	13.6	26.4	410
YY16778		3.61	20.3	0.11	2.3	0.102	2.35	50.8	46.6	0.78	558	0.96	0.79	13.8	29.7	340
YY16779		2.46	15.45	0.09	1.9	0.056	1.34	33.3	25.6	0.52	357	1.05	0.90	12.1	15.3	1140
YY16780		3.27	14.35	0.07	1.6	0.058	1.18	32.3	28.2	0.49	320	1.29	0.80	12.0	16.3	390
YY16781		3.28	17.25	0.08	1.9	0.143	1.86	34.4	28.6	0.65	613	1.28	0.73	11.7	21.4	550
YY16782		2.82	16.45	0.12	1.9	0.091	1.73	49.2	35.7	0.65	743	0.81	0.69	11.6	25.6	550
YY16783		3.44	19.40	0.11	1.9	0.158	2.13	50.6	44.4	0.91	510	0.92	0.73	12.2	29.9	440
YY16784		2.89	15.15	0.09	2.1	0.061	1.86	43.7	36.2	0.69	489	0.90	0.76	12.7	22.0	490
YY16785		2.87	15.15	0.10	1.8	0.086	1.75	41.1	37.0	0.81	431	0.72	0.80	10.8	24.5	550
YY16786		2.64	15.20	0.11	1.9	0.163	1.67	41.2	36.7	0.86	399	0.73	0.78	10.7	22.9	500
YY16787		3.10	18.40	0.10	1.9	0.450	2.01	45.2	41.1	0.85	573	0.79	0.82	12.7	25.1	530
YY16788		2.81	14.95	0.10	1.8	1.505	1.73	41.5	33.6	0.73	536	0.86	0.76	10.5	23.3	730
YY16789		3.29	19.35	0.12	2.0	0.127	2.45	51.8	40.0	0.86	474	0.76	0.74	13.6	27.5	470
YY16790		3.09	16.20	0.09	2.1	0.099	1.84	45.2	42.2	0.72	697	1.00	0.78	12.3	26.1	590
YY16791		2.69	13.45	0.11	2.0	0.089	1.57	41.6	30.4	0.68	436	0.87	0.82	12.1	21.2	540
YY16792		2.94	14.75	0.10	1.9	0.088	1.86	41.0	39.8	0.85	711	0.69	0.71	11.0	27.2	720
YY16793		2.87	13.40	0.10	1.8	0.247	1.70	43.6	33.3	0.79	527	0.66	0.76	10.6	26.1	720
YY16794		3.99	19.70	0.14	2.1	0.416	2.84	56.2	60.1	1.02	779	0.87	0.43	14.7	34.9	870
YY16795		3.41	18.05	0.11	2.3	0.117	2.12	44.0	39.6	0.77	521	1.28	0.87	13.9	31.2	310
YY16796		3.52	21.5	0.13	2.5	0.169	2.74	47.1	42.0	0.79	859	1.14	0.87	15.8	29.5	390
YY16797		3.55	19.30	0.11	2.4	0.104	2.32	48.2	46.3	0.75	1320	1.16	0.81	13.9	26.4	390
YY16798		3.00	15.90	0.12	2.1	0.115	1.63	47.8	38.1	0.65	1070	1.02	0.83	11.3	28.1	540
YY16799		3.02	14.25	0.08	1.9	0.049	1.54	31.6	31.5	0.62	338	1.02	0.89	11.4	21.3	270
YY16800		3.41	15.85	0.08	1.8	0.056	1.40	32.3	33.0	0.61	388	1.24	0.99	12.2	19.0	430
YY16801		2.71	14.60	0.11	1.8	0.051	1.44	40.1	31.1	0.66	386	0.85	0.96	11.9	22.2	810
YY16802		2.81	15.15	0.11	1.8	0.053	1.53	48.8	43.1	0.61	488	0.85	0.89	11.5	26.4	800
YY16803		3.03	13.80	0.09	1.7	0.054	1.43	42.0	55.5	0.64	695	0.76	0.86	14.0	26.6	700
YY16804		2.64	12.50	0.07	1.6	0.040	1.28	38.9	25.2	0.53	303	1.12	0.91	12.3	16.4	790
YY16805		3.18	16.20	0.09	1.6	0.072	1.58	36.7	50.2	0.62	315	1.29	0.77	10.7	28.6	1060
YY16806		2.70	17.40	0.11	1.6	0.061	1.87	49.7	49.5	0.63	337	0.82	0.88	14.3	23.2	540
YY16807		2.36	15.70	0.10	1.6	0.044	1.52	39.1	35.6	0.57	238	0.98	0.84	11.6	18.8	640
YY16808		2.88	16.10	0.09	1.8	0.058	1.72	40.2	35.8	0.63	581	0.99	0.81	10.3	21.6	660
YY16809		3.04	14.50	0.14	1.9	0.061	1.45	37.8	38.2	0.64	1030	1.24	0.83	9.7	24.6	890
YY16810		3.36	17.35	0.13	2.4	0.073	1.88	47.8	61.8	0.75	677	1.23	0.78	11.0	30.4	530
YY16811		3.05	14.80	0.10	2.3	0.072	1.50	37.2	36.9	0.65	470	1.21	0.86	11.9	23.7	450
YY16812		2.88	15.95	0.10	2.1	0.066	1.30	35.0	34.7	0.70	316	1.17	1.01	11.2	23.1	670
YY16813		2.57	13.70	0.08	1.9	0.086	1.23	33.3	26.2	0.57	260	1.00	0.97	10.2	16.1	850
YY16814		2.84	12.95	0.07	1.8	0.051	1.10	29.7	25.1	0.56	295	1.10	0.87	10.1	16.9	270
YY16815		3.56	14.15	0.08	1.8	0.074	1.25	33.2	30.4	0.70	503	1.24	1.03	10.7	25.0	400



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Page: 7 - C  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146755**

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
YY16776		67.1	88.2	<0.002	0.01	1.72	10.2	1	3.0	133.5	0.76	0.06	10.95	0.365	0.71	2.5
YY16777		98.3	128.5	<0.002	0.01	2.25	11.8	1	4.3	135.0	0.87	0.07	12.35	0.399	0.97	2.6
YY16778		35.6	142.5	<0.002	0.01	1.35	13.5	<1	3.6	136.0	0.88	<0.05	15.80	0.387	1.08	2.6
YY16779		19.5	82.5	<0.002	0.01	1.15	9.8	1	2.2	129.0	0.79	<0.05	8.02	0.399	0.70	2.1
YY16780		23.3	71.4	<0.002	0.01	1.34	8.7	1	2.1	108.5	0.79	0.05	8.87	0.390	0.59	1.8
YY16781		28.7	117.5	<0.002	0.02	1.32	10.5	<1	2.9	113.0	0.74	0.06	10.70	0.371	0.88	2.0
YY16782		35.3	107.0	<0.002	0.03	1.41	11.2	<1	2.8	138.5	0.77	0.05	11.55	0.345	0.81	2.8
YY16783		39.5	138.5	<0.002	0.01	1.38	13.3	1	3.2	131.0	0.73	0.07	17.35	0.334	0.92	2.5
YY16784		34.4	108.5	<0.002	0.01	1.46	10.4	<1	2.8	121.5	0.85	<0.05	13.10	0.397	0.75	2.4
YY16785		38.0	103.0	<0.002	0.03	1.33	11.1	<1	2.7	148.0	0.75	0.07	12.05	0.351	0.70	2.3
YY16786		27.9	99.3	<0.002	0.03	1.31	10.5	<1	2.8	144.0	0.72	0.05	11.75	0.346	0.70	2.1
YY16787		48.9	119.5	<0.002	0.02	1.52	12.3	<1	4.7	136.5	0.80	<0.05	13.70	0.357	0.82	2.5
YY16788		31.7	103.5	<0.002	0.03	1.48	11.0	1	3.4	142.0	0.72	<0.05	13.20	0.321	0.69	2.5
YY16789		28.0	138.0	<0.002	0.01	1.42	12.6	<1	4.3	134.5	0.83	0.05	16.20	0.370	0.88	2.2
YY16790		37.2	111.0	<0.002	0.01	1.45	11.5	<1	3.4	135.5	0.81	<0.05	15.15	0.367	0.76	2.6
YY16791		16.2	92.1	<0.002	0.01	1.44	9.4	1	2.4	133.0	0.83	0.05	10.90	0.390	0.64	2.2
YY16792		27.7	108.0	<0.002	0.03	1.37	11.1	<1	2.8	136.5	0.70	<0.05	12.90	0.326	0.72	2.4
YY16793		27.2	90.7	<0.002	0.02	1.38	10.5	<1	2.4	131.5	0.75	<0.05	12.70	0.365	0.66	2.5
YY16794		78.0	182.0	<0.002	0.01	2.77	13.4	<1	8.2	89.2	0.96	0.07	21.4	0.392	1.37	2.5
YY16795		34.6	124.0	<0.002	0.01	2.27	11.9	1	3.4	133.0	0.90	0.05	14.15	0.407	0.84	2.7
YY16796		30.7	154.5	<0.002	0.02	1.50	12.9	1	3.9	144.0	1.03	<0.05	14.70	0.443	1.06	2.8
YY16797		93.7	152.5	<0.002	0.01	1.90	12.7	<1	4.8	134.5	0.92	<0.05	14.70	0.406	1.11	2.6
YY16798		74.0	112.5	<0.002	0.02	1.47	11.6	<1	4.1	143.0	0.76	<0.05	11.30	0.363	0.88	3.2
YY16799		47.6	94.7	<0.002	0.01	1.46	9.4	1	2.3	123.5	0.77	0.05	10.30	0.371	0.69	2.3
YY16800		61.7	86.1	<0.002	0.01	1.48	10.2	<1	2.3	142.5	0.80	0.06	8.94	0.399	0.71	2.1
YY16801		70.6	83.6	<0.002	0.04	0.98	11.0	1	2.1	168.0	0.74	0.06	11.40	0.358	0.65	3.3
YY16802		30.9	89.3	<0.002	0.04	1.28	11.7	1	2.0	157.0	0.75	0.05	12.75	0.344	0.62	3.9
YY16803		44.3	85.8	<0.002	0.06	1.92	10.8	1	2.3	178.5	0.85	<0.05	11.65	0.353	0.61	5.8
YY16804		42.3	70.4	<0.002	0.02	1.16	8.5	1	2.2	108.5	0.82	0.05	9.65	0.369	0.55	2.0
YY16805		35.4	104.5	<0.002	0.05	1.58	12.6	1	2.5	129.0	0.69	0.05	12.45	0.311	0.77	3.5
YY16806		29.5	113.0	<0.002	0.02	1.20	12.2	1	2.8	148.0	0.91	<0.05	12.90	0.394	0.77	2.4
YY16807		17.4	87.6	<0.002	0.03	0.90	10.6	1	2.2	127.5	0.74	<0.05	9.41	0.342	0.60	2.0
YY16808		31.7	96.4	<0.002	0.02	1.13	11.0	1	2.3	142.0	0.68	<0.05	10.95	0.335	0.71	2.4
YY16809		25.6	77.5	<0.002	0.06	1.09	10.8	1	2.0	162.0	0.66	0.05	10.65	0.335	0.57	3.8
YY16810		50.2	106.0	<0.002	0.02	1.44	11.8	1	3.4	146.5	0.77	<0.05	13.95	0.362	0.82	3.5
YY16811		50.5	85.5	<0.002	0.01	1.22	10.0	1	3.0	128.0	0.80	<0.05	11.20	0.395	0.66	2.4
YY16812		35.9	71.2	<0.002	0.02	1.11	11.2	<1	2.2	157.0	0.77	<0.05	9.96	0.383	0.64	2.7
YY16813		52.2	69.3	<0.002	0.01	0.97	9.1	1	2.6	140.5	0.74	<0.05	8.49	0.371	0.53	2.2
YY16814		21.5	61.7	<0.002	0.01	1.20	8.7	<1	1.9	118.5	0.70	<0.05	9.00	0.376	0.51	2.2
YY16815		24.3	68.3	<0.002	0.01	1.49	9.4	1	1.9	143.0	0.75	0.05	8.92	0.374	0.51	1.9



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Page: 7 - D  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

CERTIFICATE OF ANALYSIS WH19146755
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	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
YY16776		100	1.6	12.1	173	67.7
YY16777		119	2.0	13.1	223	81.9
YY16778		105	1.8	12.3	192	84.6
YY16779		108	1.5	11.1	83	67.3
YY16780		106	1.8	8.9	105	59.3
YY16781		105	1.7	10.1	163	64.5
YY16782		91	2.0	20.9	257	67.0
YY16783		100	1.6	18.2	142	73.7
YY16784		88	1.7	13.9	148	75.0
YY16785		92	1.5	14.1	162	66.2
YY16786		90	1.4	12.7	149	67.8
YY16787		99	1.7	12.9	232	70.3
YY16788		87	2.4	15.2	181	63.0
YY16789		97	1.8	14.1	136	70.7
YY16790		96	1.7	14.1	184	77.6
YY16791		90	1.5	12.6	126	69.6
YY16792		87	1.6	17.3	258	72.7
YY16793		89	1.5	17.0	203	65.9
YY16794		93	3.7	17.9	504	75.8
YY16795		118	1.7	13.9	241	83.9
YY16796		111	2.1	13.5	283	92.9
YY16797		107	2.4	13.2	235	86.1
YY16798		101	1.8	21.2	242	70.2
YY16799		101	1.2	10.3	157	68.8
YY16800		119	1.3	10.5	142	67.3
YY16801		99	1.5	13.6	108	67.9
YY16802		96	1.5	19.5	94	66.3
YY16803		87	2.1	17.1	201	61.2
YY16804		86	1.2	11.2	78	59.9
YY16805		104	1.5	15.7	120	58.1
YY16806		95	1.9	14.1	91	56.6
YY16807		89	1.7	14.2	66	57.4
YY16808		91	1.5	12.9	89	60.3
YY16809		96	2.0	14.1	116	62.7
YY16810		98	2.0	14.0	263	80.1
YY16811		104	1.9	12.2	146	72.7
YY16812		118	1.4	13.6	136	72.6
YY16813		100	1.5	12.3	112	64.0
YY16814		105	1.3	10.5	86	62.1
YY16815		113	1.4	10.6	167	65.6



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Page: 8 - A  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146755**

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
YY16816		0.34	0.007	0.17	5.67	21.3	920	1.42	0.19	0.62	0.43	67.0	10.0	67	2.99	26.7
YY16817		0.31	0.006	0.30	5.62	21.3	880	1.17	0.19	0.62	0.33	67.4	7.2	63	3.82	15.5
YY16818		0.25	0.002	0.46	5.67	25.9	840	1.08	0.25	0.60	0.38	62.2	5.4	63	4.15	13.3
YY16819		0.28	0.001	0.18	5.90	21.1	920	1.32	0.32	0.70	0.86	73.3	8.1	65	8.00	22.4
YY16820		0.27	0.001	0.15	5.75	35.2	900	1.29	0.28	0.61	0.48	73.8	10.5	66	5.14	19.9
YY16821		0.32	0.003	0.09	5.39	32.4	880	1.29	0.23	0.63	0.67	62.8	9.5	61	3.53	21.0
YY16822		0.29	0.002	0.29	5.29	31.8	870	1.02	0.35	0.70	1.06	70.4	6.4	58	4.19	19.3
YY16823		0.28	0.008	0.46	5.55	80.4	860	1.20	0.36	0.73	1.41	66.8	6.7	65	4.24	26.4
YY16824		0.28	0.001	0.40	7.25	50.5	1080	2.02	0.92	0.59	2.71	97.8	17.8	69	7.14	63.7
YY16825		0.25	0.005	0.23	5.85	35.5	890	1.40	0.53	0.66	0.65	70.9	8.9	67	5.06	22.4
YY16826		0.28	0.006	6.66	4.93	741	750	9.36	29.5	0.88	44.7	60.9	15.6	60	11.85	442
YY16827		0.23	0.001	1.61	5.37	84.0	790	1.16	3.31	0.58	0.55	59.6	6.7	67	4.68	26.5
YY16828		0.28	0.004	1.52	5.09	45.7	770	1.08	4.62	0.55	0.89	65.8	4.9	58	4.12	53.4
YY16829		0.24	0.001	0.77	5.32	22.1	830	1.11	1.19	0.63	0.86	64.4	6.3	62	4.42	39.5
YY16830		0.21	0.004	1.91	5.44	20.5	840	1.49	4.26	0.80	1.46	61.4	11.5	92	15.20	66.2
YY16831		0.28	0.004	0.79	6.24	53.9	870	1.50	2.18	0.59	2.05	69.6	11.1	66	6.36	67.6
YY16832		0.25	<0.001	0.26	6.78	16.9	920	1.65	0.51	0.52	1.19	76.4	10.3	70	7.95	22.9
YY16833		0.30	0.003	0.13	7.13	29.5	940	1.78	0.67	0.51	1.16	88.2	15.8	76	7.56	28.0
YY16834		0.35	0.002	0.61	5.90	25.5	930	1.50	0.60	0.60	2.51	71.3	9.5	66	5.16	37.5
YY16835		0.28	0.007	0.24	4.48	23.4	1340	1.16	0.29	0.81	1.20	85.4	9.3	54	2.56	28.7
YY16836		0.24	0.002	1.81	7.75	32.7	1120	1.99	0.41	0.99	0.58	116.5	22.6	80	8.28	40.5
YY16837		0.26	0.007	0.55	8.46	51.9	970	2.73	0.21	0.92	0.95	162.0	6.5	62	10.25	15.8
YY16838		0.12	0.002	0.43	4.65	12.3	730	1.17	0.21	2.28	0.90	65.5	7.8	49	4.20	27.0
YY16839		0.22	0.002	0.48	5.35	16.9	850	1.22	0.26	1.30	2.34	79.6	11.7	58	5.99	19.6
YY16840		0.28	0.001	0.58	6.97	23.2	1030	1.57	0.32	1.14	0.65	93.7	15.1	72	6.36	18.5
YY16841		0.28	0.001	0.43	6.08	19.8	860	1.63	0.25	1.32	0.73	88.5	10.7	61	5.71	21.3
YY16842		0.27	<0.001	0.67	7.32	18.7	970	1.51	0.36	0.72	0.29	79.8	7.8	75	5.52	18.9
YY16843		0.31	0.001	0.50	7.36	15.6	1080	1.80	0.28	0.62	0.54	103.5	16.5	73	5.57	25.0
YY16844		0.28	0.005	0.27	6.18	12.2	850	1.41	0.26	0.48	0.29	83.3	8.2	64	4.30	14.6
YY16845		0.32	0.001	0.47	6.76	44.7	950	1.83	0.31	0.80	2.02	99.2	12.5	68	5.71	31.7
YY16846		0.23	<0.001	0.92	8.59	48.3	1050	2.24	0.35	0.70	2.24	100.5	12.4	88	9.88	42.7
YY16847		0.34	0.003	0.69	5.90	31.9	870	1.45	0.21	0.61	1.24	75.8	7.4	66	4.42	18.9
YY16848		0.28	0.006	5.52	7.85	367	1080	2.24	0.73	0.52	3.78	83.5	7.6	81	11.20	56.3
YY16849		0.39	0.011	0.33	8.72	121.0	1130	3.34	0.33	0.62	1.53	128.0	10.8	82	15.95	38.1
YY16850		0.34	<0.001	1.00	6.03	56.7	930	1.59	0.28	0.64	2.22	78.9	10.1	61	6.36	17.0
YY16851		0.39	0.004	0.17	6.26	73.3	1070	1.76	0.29	0.77	2.28	91.5	11.9	65	18.40	27.6
YY16852		0.50	<0.001	0.38	6.43	45.8	910	1.52	0.37	0.54	0.93	76.7	7.0	67	8.08	21.8
YY16853		0.40	0.002	0.66	7.77	120.5	980	2.28	0.47	0.51	1.41	87.6	13.5	76	7.87	38.6
YY16854		0.39	0.002	0.20	6.09	101.0	1100	1.70	0.36	0.85	1.64	81.1	10.0	64	4.74	42.6
YY16855		0.32	0.001	1.09	7.46	64.8	970	2.14	0.84	0.58	3.62	92.0	7.3	73	13.40	42.4



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Page: 8 - B  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146755**

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	
		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
YY16816		3.26	13.70	0.09	2.0	0.048	1.20	32.9	26.8	0.68	390	1.31	1.03	10.7	23.0	250
YY16817		2.87	15.05	0.09	2.0	0.049	1.23	34.4	26.0	0.63	296	1.13	1.00	11.8	17.9	230
YY16818		2.93	15.55	0.10	2.0	0.052	1.25	31.6	25.6	0.59	271	1.32	0.92	11.9	15.4	340
YY16819		3.21	16.05	0.10	1.8	0.078	1.29	37.1	28.3	0.89	344	1.02	0.91	12.3	23.4	420
YY16820		3.31	14.90	0.12	2.1	0.121	1.25	37.3	30.1	0.75	421	1.31	0.94	11.6	21.7	510
YY16821		3.06	13.25	0.10	2.0	0.057	1.21	31.8	27.9	0.64	404	1.18	0.92	10.8	22.9	350
YY16822		2.47	13.85	0.10	1.9	0.087	1.31	35.5	25.3	0.58	330	1.03	0.91	10.5	17.8	570
YY16823		2.91	14.70	0.11	2.1	0.131	1.29	33.8	25.8	0.67	338	1.16	0.97	11.4	18.8	760
YY16824		3.58	18.70	0.13	2.1	0.401	2.10	49.1	40.7	0.79	760	1.15	0.92	11.8	33.6	480
YY16825		3.28	15.35	0.10	2.1	0.162	1.40	36.8	30.7	0.67	459	1.47	0.92	11.3	22.2	540
YY16826		14.05	15.80	0.10	1.6	32.7	1.18	35.2	27.9	0.63	1780	1.79	0.58	8.3	28.8	700
YY16827		3.93	16.65	0.10	2.1	0.599	1.23	30.4	25.0	0.59	378	1.62	0.83	12.3	17.0	550
YY16828		2.27	13.80	0.09	1.8	0.402	1.22	34.1	23.7	0.52	237	0.90	0.79	10.9	15.6	550
YY16829		2.66	13.95	0.09	2.3	0.296	1.26	33.0	25.4	0.60	301	1.27	0.86	10.5	18.7	790
YY16830		3.59	14.25	0.10	1.9	0.183	1.11	30.9	34.3	0.96	482	1.36	0.96	11.3	43.9	390
YY16831		3.41	15.90	0.09	2.0	0.479	1.48	34.8	40.0	0.69	470	1.25	0.86	11.0	23.3	440
YY16832		3.45	17.45	0.11	2.1	0.111	1.58	39.5	39.7	0.68	350	1.32	0.89	12.1	28.4	250
YY16833		3.93	18.50	0.10	2.2	0.342	1.95	44.9	49.1	0.79	794	1.21	0.78	12.0	30.3	530
YY16834		3.08	15.60	0.10	2.1	0.459	1.38	36.8	37.9	0.63	582	1.33	0.89	11.2	22.3	460
YY16835		2.62	11.40	0.13	2.4	0.105	1.10	42.8	24.2	0.58	396	1.25	0.88	11.0	25.5	860
YY16836		3.67	20.7	0.13	1.8	0.079	2.24	66.7	47.2	0.74	1800	1.15	0.74	12.0	36.5	960
YY16837		2.92	21.7	0.14	2.0	0.054	3.00	90.9	56.8	0.80	742	0.66	0.66	44.6	15.2	580
YY16838		2.06	12.05	0.11	1.2	0.045	1.27	35.1	34.2	0.47	637	0.75	0.54	7.6	21.9	940
YY16839		2.42	13.50	0.11	1.7	0.048	1.35	40.9	33.0	0.57	1170	0.81	0.77	10.0	21.7	890
YY16840		3.17	18.45	0.13	2.0	0.068	1.85	47.1	45.4	0.72	1120	0.92	0.89	12.9	27.3	860
YY16841		2.85	15.45	0.12	1.8	0.061	1.63	45.4	45.9	0.64	655	0.70	0.83	13.7	24.7	730
YY16842		3.23	20.6	0.12	1.9	0.057	1.89	41.1	37.2	0.65	323	1.27	0.89	12.0	20.0	340
YY16843		3.14	17.85	0.10	1.8	0.059	2.11	50.5	55.2	0.72	1110	1.53	0.76	12.2	28.8	670
YY16844		2.73	15.30	0.10	1.6	0.052	1.67	40.3	41.1	0.62	302	0.76	0.78	11.8	20.7	610
YY16845		3.18	16.40	0.12	2.1	0.092	1.94	51.1	50.3	0.68	910	0.98	0.75	11.2	30.6	720
YY16846		3.49	22.5	0.13	2.0	0.112	2.65	53.5	70.7	0.77	470	0.92	0.73	12.2	33.9	400
YY16847		3.14	14.20	0.11	1.7	0.073	1.51	37.6	44.2	0.63	360	0.99	0.84	11.4	22.9	330
YY16848		3.84	20.3	0.11	1.9	0.329	2.40	47.8	60.0	0.72	600	1.12	0.68	13.0	24.7	490
YY16849		4.27	23.1	0.14	2.1	0.468	3.25	68.2	83.8	1.25	743	0.83	0.46	14.2	38.1	400
YY16850		2.88	16.15	0.09	1.8	0.182	1.80	38.5	41.8	0.63	1400	1.27	0.80	12.5	19.9	310
YY16851		3.64	16.15	0.11	1.9	0.076	1.68	48.9	56.8	1.47	721	0.97	0.71	13.4	37.7	430
YY16852		3.31	16.75	0.09	1.9	0.200	1.77	38.3	41.3	0.75	352	1.11	0.80	12.8	22.7	290
YY16853		3.92	19.00	0.10	2.1	0.301	2.26	42.7	51.2	0.81	467	1.37	0.77	12.5	42.5	300
YY16854		3.06	14.50	0.10	2.2	0.122	1.49	41.1	34.9	0.75	482	0.66	1.12	11.8	30.3	290
YY16855		3.20	20.2	0.10	2.0	0.331	2.06	48.9	44.2	0.72	485	1.29	0.79	12.1	22.5	430



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Page: 8 - C  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
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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	
		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
YY16816		30.0	63.4	<0.002	0.01	1.49	10.4	1	1.8	141.5	0.74	<0.05	10.65	0.371	0.51	2.6
YY16817		38.3	71.4	<0.002	0.01	1.25	10.1	1	2.1	139.0	0.76	<0.05	9.38	0.400	0.58	2.2
YY16818		32.8	75.5	<0.002	0.01	1.20	9.4	1	2.5	129.5	0.79	<0.05	8.85	0.414	0.67	2.2
YY16819		33.4	81.3	<0.002	0.01	1.11	10.8	1	7.5	138.0	0.79	0.05	10.70	0.399	0.87	2.6
YY16820		25.5	78.2	<0.002	0.01	1.29	10.5	1	4.1	134.5	0.79	<0.05	10.25	0.390	0.68	2.6
YY16821		33.9	71.5	<0.002	0.01	1.33	9.7	<1	2.7	131.5	0.74	<0.05	9.83	0.378	0.57	2.5
YY16822		30.6	73.1	<0.002	0.01	1.03	8.9	1	3.5	135.0	0.71	<0.05	9.47	0.391	0.61	2.3
YY16823		67.6	79.0	<0.002	0.01	1.04	10.1	1	3.4	141.5	0.79	<0.05	9.27	0.422	0.66	2.5
YY16824		75.9	122.0	<0.002	0.01	1.38	12.4	<1	9.0	155.0	0.77	0.06	15.65	0.348	0.96	2.8
YY16825		58.2	88.5	<0.002	0.01	1.23	10.0	1	5.7	138.5	0.81	0.05	10.85	0.397	0.74	2.4
YY16826		816	89.1	<0.002	0.19	3.09	9.5	1	304	104.0	0.58	0.07	10.25	0.262	1.01	4.2
YY16827		25.9	85.2	<0.002	0.01	1.19	9.7	1	11.9	124.0	0.79	0.07	8.22	0.414	0.70	2.1
YY16828		37.3	68.6	<0.002	0.02	0.90	8.7	1	5.9	118.0	0.69	<0.05	8.26	0.365	0.62	2.1
YY16829		26.7	79.0	<0.002	0.02	0.95	9.4	1	4.5	123.5	0.73	<0.05	9.47	0.370	0.70	2.4
YY16830		57.2	80.3	<0.002	0.02	1.24	10.1	1	6.8	143.5	0.73	0.05	7.66	0.386	1.27	2.0
YY16831		27.0	93.3	<0.002	0.01	1.33	10.1	1	6.4	128.0	0.72	0.05	10.55	0.369	0.96	2.5
YY16832		20.9	92.5	<0.002	<0.01	1.25	10.9	1	3.5	131.5	0.78	<0.05	11.15	0.378	0.86	2.4
YY16833		24.2	121.0	<0.002	0.01	1.13	11.5	1	5.8	116.5	0.78	<0.05	12.65	0.370	0.95	2.4
YY16834		23.8	88.4	<0.002	0.01	1.11	10.3	<1	4.3	125.5	0.75	<0.05	10.00	0.375	0.75	2.4
YY16835		14.8	56.2	<0.002	0.02	1.49	8.8	1	1.9	135.5	0.75	<0.05	10.60	0.353	0.43	2.4
YY16836		68.3	137.0	<0.002	0.06	1.18	15.4	2	3.0	158.0	0.72	0.08	20.1	0.310	1.03	5.6
YY16837		51.1	180.5	<0.002	0.03	1.55	10.3	1	3.9	134.0	2.72	<0.05	18.15	0.305	1.46	2.4
YY16838		18.7	77.8	<0.002	0.12	1.58	8.6	<1	1.8	210	0.49	<0.05	10.80	0.213	0.53	2.8
YY16839		26.5	84.5	<0.002	0.08	1.34	10.1	1	2.1	164.0	0.67	0.05	11.60	0.290	0.64	4.1
YY16840		32.8	113.0	<0.002	0.05	1.20	12.6	1	2.9	172.5	0.82	0.05	13.95	0.326	0.81	3.0
YY16841		28.0	99.5	<0.002	0.06	1.30	10.7	1	2.3	168.0	0.88	<0.05	13.35	0.346	0.66	4.6
YY16842		22.3	107.0	<0.002	0.01	1.18	12.2	1	3.2	155.5	0.75	0.06	9.58	0.360	0.82	2.2
YY16843		39.1	112.5	<0.002	0.04	1.41	13.6	<1	2.9	146.5	0.81	0.06	13.95	0.359	0.76	3.0
YY16844		31.1	87.7	<0.002	0.03	0.91	10.8	<1	2.4	124.0	0.77	0.05	10.10	0.367	0.62	2.1
YY16845		44.3	111.5	<0.002	0.04	1.13	11.6	<1	3.8	152.0	1.05	0.07	12.65	0.326	0.74	3.2
YY16846		49.6	168.0	<0.002	0.02	1.28	14.6	<1	4.8	157.0	0.74	0.07	14.20	0.309	1.18	3.2
YY16847		237	92.4	<0.002	0.01	1.76	9.3	<1	4.6	131.5	0.76	0.05	9.82	0.384	0.80	2.2
YY16848		1410	194.5	<0.002	0.03	3.79	12.4	<1	17.3	122.0	0.76	0.06	11.80	0.359	1.47	2.8
YY16849		139.5	224	<0.002	0.03	4.87	15.5	1	15.1	111.0	0.91	0.06	21.9	0.374	1.97	3.0
YY16850		51.0	136.5	<0.002	0.02	2.10	9.5	<1	4.9	127.5	0.82	0.05	10.30	0.401	0.99	1.9
YY16851		33.4	130.0	<0.002	0.01	1.56	11.1	<1	21.0	140.0	0.91	0.06	12.00	0.414	1.26	2.4
YY16852		96.7	141.0	<0.002	0.01	1.52	10.5	<1	7.7	123.5	0.80	<0.05	9.81	0.393	1.09	2.1
YY16853		111.5	154.0	<0.002	0.01	1.69	12.3	<1	10.5	136.5	0.79	0.06	15.40	0.371	1.25	2.4
YY16854		63.0	83.7	<0.002	0.01	1.17	11.3	<1	6.2	173.5	0.78	0.05	11.15	0.385	0.75	2.8
YY16855		176.0	157.5	<0.002	0.01	0.99	12.2	<1	14.2	144.0	0.76	0.07	11.65	0.358	1.27	2.5





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Page: 8 - D  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146755**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
YY16816		113	1.3	12.6	87	67.0
YY16817		110	2.5	10.9	82	66.8
YY16818		118	1.8	10.0	102	68.6
YY16819		106	1.5	15.0	134	61.6
YY16820		112	1.5	13.4	147	68.2
YY16821		106	1.5	12.8	221	68.6
YY16822		100	1.7	11.6	189	70.0
YY16823		109	1.7	13.0	214	69.7
YY16824		106	2.9	16.7	509	73.2
YY16825		112	3.8	12.2	195	68.3
YY16826		78	17.0	18.1	4940	55.0
YY16827		131	2.7	10.3	136	80.3
YY16828		90	2.1	10.9	149	62.5
YY16829		99	1.8	11.4	155	66.7
YY16830		115	3.8	11.2	264	59.7
YY16831		113	2.1	11.5	444	67.0
YY16832		115	2.0	10.0	286	73.8
YY16833		110	2.4	11.7	517	73.5
YY16834		114	1.9	12.0	511	67.1
YY16835		99	1.5	17.2	167	82.0
YY16836		101	1.7	27.9	161	60.3
YY16837		69	2.1	12.1	161	79.6
YY16838		62	1.0	15.2	96	40.6
YY16839		76	1.8	15.5	118	54.8
YY16840		99	1.6	15.8	139	68.3
YY16841		86	1.5	16.5	145	60.7
YY16842		119	1.8	10.3	88	64.1
YY16843		102	1.9	14.4	124	63.8
YY16844		94	2.3	11.2	90	56.6
YY16845		92	1.8	15.5	364	74.5
YY16846		104	2.1	13.9	419	74.3
YY16847		100	2.1	10.9	368	63.1
YY16848		110	3.7	16.6	589	69.4
YY16849		99	5.8	23.4	421	77.2
YY16850		93	3.9	10.6	277	69.5
YY16851		96	2.2	18.8	342	65.9
YY16852		108	2.3	12.3	275	69.9
YY16853		115	2.9	11.7	449	77.2
YY16854		103	1.8	17.3	323	73.3
YY16855		109	3.1	13.4	597	74.1



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Page: 9 - A  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146755**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu 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
YY16856		0.40	0.006	0.44	7.06	53.2	980	2.27	0.66	0.58	2.81	104.0	12.8	72	7.92	39.3
YY16857		0.35	0.001	0.66	5.10	37.7	810	1.19	0.85	0.82	2.06	77.2	7.4	58	5.68	26.5
YY16858		0.29	0.002	0.66	5.51	41.1	850	1.29	0.70	0.80	3.33	67.7	8.9	61	6.93	37.8
YY16859		0.30	<0.001	0.62	6.15	40.6	940	1.74	1.06	0.70	2.07	71.7	9.7	66	6.80	27.1
YY16860		0.35	0.002	0.83	6.81	130.5	910	1.77	5.99	0.66	2.81	77.8	13.7	74	11.35	53.2
YY16861		0.40	0.003	0.58	6.38	33.8	940	1.92	0.95	0.62	3.73	80.3	18.3	69	5.88	44.9
YY16862		0.31	0.001	1.42	6.69	52.5	970	1.90	2.88	0.68	2.99	71.4	9.8	73	7.21	61.7
YY16863		0.35	0.001	0.05	4.29	8.4	710	0.91	0.16	0.55	0.11	60.3	3.7	50	2.21	9.3
YY16864		0.35	<0.001	0.11	4.70	8.7	710	0.99	0.18	0.58	0.11	57.7	4.0	54	2.31	13.4
YY16865		0.41	0.001	0.06	6.37	12.6	960	1.78	0.19	0.60	0.11	76.2	7.4	68	3.27	19.2
YY16866		0.39	<0.001	0.08	6.46	10.7	890	1.54	0.24	0.49	0.12	87.5	5.0	68	4.32	19.9
YY16867		0.35	<0.001	0.10	5.20	7.3	760	1.15	0.20	0.46	0.12	72.9	3.0	56	3.25	11.5
YY16868		0.36	0.002	0.32	5.69	7.5	840	1.32	0.23	0.51	0.21	74.3	3.7	61	4.07	14.2
YY16869		0.52	0.002	0.11	8.16	16.5	1050	2.24	0.32	0.43	0.20	115.0	8.4	76	5.60	27.5
YY16870		0.33	0.001	0.10	5.65	13.0	1020	1.37	0.23	0.67	0.23	87.2	9.4	60	2.98	22.9
YY16871		0.46	0.001	0.13	6.32	20.6	930	1.67	0.56	0.58	0.29	82.1	7.7	67	4.51	22.4
YY16872		0.33	0.001	0.53	4.94	15.6	770	1.09	0.33	0.67	2.11	56.8	4.5	55	2.79	20.1
YY16873		0.41	<0.001	0.61	6.41	60.2	850	1.58	0.56	0.51	0.87	75.8	7.3	70	4.88	22.0
YY16874		0.49	0.001	2.39	11.70	116.0	1090	4.35	1.82	0.21	7.48	146.5	15.7	109	20.7	62.2
YY16875		0.36	0.001	0.40	5.57	48.7	800	1.38	0.28	0.63	2.19	73.7	7.3	61	3.90	29.7
YY16876		0.44	0.004	0.48	6.07	49.3	950	1.86	0.42	0.60	5.11	94.0	12.6	66	4.89	36.9
YY16877		0.39	0.002	1.26	7.55	135.0	1150	4.29	0.74	0.55	44.0	127.5	93.5	78	9.87	90.6
YY16878		0.31	0.003	0.93	5.99	148.5	860	1.54	0.68	0.58	2.60	75.6	5.5	63	6.99	35.3
YY16879		0.44	0.003	1.21	5.50	41.5	820	1.55	0.44	0.52	1.64	64.4	9.8	59	7.63	41.9
YY16880		0.46	0.002	1.01	6.39	50.2	940	1.93	1.41	0.48	4.70	78.2	10.8	64	9.60	90.3
YY16881		0.45	<0.001	0.95	5.95	39.9	870	1.87	1.19	0.54	2.45	76.6	9.4	64	9.16	60.0
YY16882		0.33	0.001	1.38	5.89	30.3	840	1.45	1.41	0.55	2.16	68.8	5.8	64	6.88	65.6
YY16883		0.41	0.001	1.20	6.79	82.3	1000	2.38	2.89	0.54	4.05	76.8	10.2	73	9.61	80.1
YY16884		0.65	0.002	0.21	8.31	61.4	1060	2.13	0.30	0.40	0.49	94.3	11.1	83	6.27	40.0
YY16885		0.50	0.001	0.31	6.86	48.2	1040	1.69	0.23	0.47	0.44	75.2	9.5	69	4.54	25.6
YY16886		0.55	0.002	1.44	7.10	39.1	1070	1.84	0.29	0.60	1.06	88.2	14.2	76	4.74	32.7
YY16887		0.49	0.001	0.32	6.01	24.1	870	1.30	0.20	0.53	0.41	64.8	7.6	64	3.50	20.2
YY16888		0.55	<0.001	2.46	6.40	29.5	1000	1.44	0.29	0.59	1.73	71.9	6.9	70	4.97	23.1
YY16889		0.52	0.004	0.68	6.24	23.0	960	1.28	0.22	0.57	0.71	67.2	6.8	69	4.14	20.2
YY16890		0.44	0.097	0.59	6.75	60.9	1100	1.64	0.23	0.61	1.05	77.6	10.7	73	4.52	22.2
YY16891		0.47	0.003	1.32	8.45	65.0	1200	2.13	0.37	0.47	1.66	79.8	9.7	86	7.22	34.3
YY16892		0.53	0.003	0.14	5.96	25.3	1060	1.41	0.19	0.54	0.48	75.9	8.1	64	3.66	20.0
YY16893		0.68	0.004	0.17	5.91	22.1	1160	1.49	0.20	0.78	0.65	75.1	8.0	64	3.65	23.5
YY16894		0.46	0.003	0.21	5.92	21.3	1160	1.38	0.19	0.81	0.46	74.3	8.2	65	3.69	23.5
YY16895		0.52	0.001	0.45	6.56	42.6	1120	1.65	0.63	0.83	0.58	87.0	9.8	71	4.95	25.7



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Page: 9 - B  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

CERTIFICATE OF ANALYSIS WH19146755
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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	
		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
YY16856		3.20	18.00	0.12	2.1	0.208	2.25	51.4	44.5	0.74	772	0.95	0.76	12.5	30.8	530
YY16857		2.47	12.60	0.10	1.9	0.165	1.22	38.2	33.0	0.60	375	0.93	0.84	10.9	21.3	660
YY16858		2.54	14.45	0.09	1.8	0.291	1.29	34.6	29.0	0.55	367	1.26	0.84	10.6	21.3	580
YY16859		2.95	15.60	0.10	1.8	0.259	1.45	37.0	37.8	0.65	472	1.14	0.93	11.2	21.0	430
YY16860		4.42	16.55	0.09	1.6	1.250	1.69	37.9	47.3	0.73	921	1.44	0.83	12.2	24.6	540
YY16861		3.45	15.95	0.11	1.9	0.526	1.59	39.6	38.8	0.69	1180	1.38	0.88	11.5	28.2	490
YY16862		3.53	17.50	0.11	1.8	0.809	1.65	38.2	42.7	0.69	493	1.47	0.93	12.0	23.2	460
YY16863		1.72	11.25	0.09	1.8	0.033	1.05	29.6	20.9	0.45	194	0.73	0.86	10.7	12.8	760
YY16864		1.92	12.85	0.08	1.8	0.036	1.10	29.6	19.8	0.45	179	0.92	0.89	10.5	14.1	1290
YY16865		2.98	14.95	0.09	2.2	0.048	1.69	38.0	33.4	0.70	314	1.06	0.94	12.0	23.4	500
YY16866		2.54	16.85	0.09	2.2	0.058	1.81	43.5	33.6	0.58	246	1.03	0.85	12.0	16.6	920
YY16867		1.66	13.95	0.08	1.8	0.041	1.42	36.3	21.9	0.42	159	0.94	0.81	11.1	11.0	1060
YY16868		1.83	14.95	0.09	2.0	0.044	1.59	37.6	25.1	0.45	166	0.95	0.78	10.7	12.5	1200
YY16869		3.22	21.1	0.13	2.4	0.077	2.55	57.4	65.2	0.70	311	1.04	0.79	13.1	24.4	610
YY16870		2.80	13.65	0.11	2.2	0.051	1.42	43.0	33.5	0.62	338	1.13	0.94	12.1	25.9	750
YY16871		2.80	16.40	0.10	2.0	0.111	1.74	41.0	36.8	0.67	382	1.03	0.88	13.1	21.8	570
YY16872		2.18	13.05	0.09	1.7	0.071	1.12	28.4	22.3	0.45	213	0.93	0.85	8.8	16.0	1170
YY16873		3.39	17.20	0.10	2.0	0.118	1.59	38.2	33.8	0.65	379	1.37	0.80	12.4	19.7	410
YY16874		5.69	31.8	0.16	2.9	0.475	4.36	67.9	75.5	1.32	1210	0.49	0.18	15.2	42.0	480
YY16875		2.68	13.65	0.11	1.9	0.058	1.45	37.7	29.5	0.61	396	0.82	0.84	10.0	21.9	510
YY16876		3.20	15.90	0.11	2.1	0.118	1.72	46.7	36.4	0.66	1040	1.00	0.78	11.5	27.5	610
YY16877		4.02	20.5	0.16	2.2	0.284	2.63	72.1	55.6	0.83	7330	1.76	0.54	12.7	75.1	640
YY16878		2.54	16.00	0.09	1.9	0.150	1.56	41.2	25.1	0.54	271	1.00	0.75	11.5	18.2	450
YY16879		2.89	14.90	0.09	1.7	0.181	1.36	34.2	33.4	0.61	517	1.48	0.78	10.6	23.4	300
YY16880		3.26	17.45	0.11	2.0	0.548	1.86	42.0	42.8	0.71	749	1.49	0.69	11.8	26.9	430
YY16881		3.20	15.85	0.10	1.9	0.656	1.63	40.9	40.9	0.73	661	1.49	0.76	11.7	24.8	500
YY16882		2.44	17.05	0.09	1.8	0.242	1.46	35.6	28.4	0.52	272	1.54	0.86	11.3	20.7	480
YY16883		3.75	18.80	0.11	1.9	1.010	1.72	42.2	55.7	0.73	620	2.39	0.76	11.9	29.0	540
YY16884		4.07	21.5	0.13	2.7	0.130	2.17	49.1	54.9	0.81	538	1.62	0.87	13.4	36.4	280
YY16885		3.26	17.60	0.09	2.2	0.104	1.74	38.9	45.5	0.70	494	1.46	0.87	12.4	31.6	340
YY16886		3.39	19.00	0.12	2.2	0.077	1.66	45.2	41.2	0.70	1130	1.62	1.00	12.5	31.7	280
YY16887		3.11	14.95	0.09	1.9	0.053	1.49	32.6	34.5	0.64	326	1.31	0.90	11.5	25.0	280
YY16888		2.79	18.15	0.10	2.0	0.119	1.60	36.3	34.3	0.62	415	1.30	0.90	12.6	22.7	340
YY16889		2.99	16.80	0.10	1.9	0.070	1.49	34.0	28.4	0.61	315	1.52	0.95	11.8	21.6	310
YY16890		3.46	16.55	0.10	2.3	0.107	1.84	38.9	41.1	0.75	1020	1.65	0.91	12.7	29.3	340
YY16891		3.58	23.7	0.12	2.2	0.165	2.46	41.8	47.4	0.80	611	1.40	0.80	13.2	31.8	620
YY16892		2.85	15.30	0.10	2.1	0.068	1.52	38.5	32.6	0.63	341	1.43	0.92	12.0	25.0	310
YY16893		2.89	15.20	0.09	2.4	0.284	1.52	38.3	33.5	0.69	368	1.37	0.94	12.0	28.2	460
YY16894		2.89	15.50	0.10	2.1	0.093	1.53	38.8	33.5	0.72	380	1.45	0.94	11.4	28.7	480
YY16895		3.13	17.30	0.11	2.2	0.190	1.80	45.5	39.3	0.84	570	1.51	0.87	12.1	31.8	580



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Page: 9 - C  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146755**

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
YY16856		46.9	138.5	<0.002	0.01	1.07	11.6	<1	8.3	136.0	0.85	0.07	15.55	0.370	1.06	2.7
YY16857		31.0	71.7	<0.002	0.04	0.84	9.3	<1	6.9	138.5	0.72	<0.05	9.70	0.385	0.66	2.5
YY16858		34.7	85.2	<0.002	0.04	0.97	9.6	<1	7.8	147.0	0.70	0.06	7.95	0.340	0.76	2.5
YY16859		58.1	89.0	<0.002	0.02	0.85	10.3	<1	7.4	146.5	0.72	0.07	8.75	0.357	0.95	2.4
YY16860		77.2	126.0	<0.002	0.02	1.19	10.1	<1	32.4	131.5	0.76	0.08	9.52	0.397	1.18	2.2
YY16861		54.6	104.5	<0.002	0.01	1.20	11.0	<1	9.2	136.0	0.72	0.05	11.75	0.366	0.87	2.6
YY16862		54.1	110.5	<0.002	0.02	1.08	11.1	<1	18.8	148.0	0.74	0.06	8.85	0.371	0.92	2.5
YY16863		12.1	50.6	<0.002	0.01	0.75	7.6	<1	1.4	119.5	0.72	0.06	6.93	0.374	0.43	1.9
YY16864		15.8	49.9	<0.002	0.03	0.80	8.8	<1	1.5	129.5	0.66	0.06	7.06	0.362	0.45	2.2
YY16865		17.9	81.3	<0.002	0.01	1.08	10.3	<1	1.9	141.0	0.77	0.06	9.73	0.397	0.60	2.4
YY16866		34.9	94.1	<0.002	0.01	1.06	11.5	<1	2.1	130.5	0.77	0.06	10.75	0.386	0.68	2.6
YY16867		17.9	70.2	<0.002	0.02	0.68	9.2	<1	1.9	113.5	0.71	<0.05	7.41	0.364	0.54	1.9
YY16868		32.9	83.3	<0.002	0.03	0.73	10.3	1	2.0	123.5	0.70	0.05	8.16	0.347	0.61	2.3
YY16869		31.1	138.0	<0.002	0.01	2.13	14.5	<1	3.3	137.5	0.85	0.08	14.95	0.380	0.89	3.0
YY16870		20.2	69.9	<0.002	0.01	1.37	10.3	<1	1.9	144.5	0.79	0.06	10.40	0.388	0.55	2.6
YY16871		49.0	98.3	<0.002	0.01	1.12	11.3	<1	4.6	142.5	0.84	<0.05	10.15	0.401	0.79	2.5
YY16872		171.5	53.2	<0.002	0.04	0.83	8.9	<1	2.9	135.5	0.61	0.06	7.17	0.320	0.57	2.4
YY16873		82.9	99.1	<0.002	0.01	1.42	10.9	<1	5.6	127.5	0.77	0.06	9.37	0.400	0.84	2.2
YY16874		330	231	<0.002	0.01	1.20	19.4	<1	45.0	101.0	0.96	0.13	22.7	0.340	2.00	3.8
YY16875		104.0	74.0	<0.002	0.02	1.03	9.6	<1	2.7	132.0	0.67	0.06	10.10	0.347	0.62	2.3
YY16876		89.9	107.5	<0.002	0.01	1.34	10.5	<1	7.7	128.5	0.76	0.05	14.60	0.362	0.82	2.8
YY16877		243	178.0	<0.002	0.02	1.57	12.4	<1	12.5	124.5	0.85	0.07	20.9	0.368	1.52	4.1
YY16878		71.2	111.5	<0.002	0.03	1.02	9.8	<1	7.2	121.5	0.74	0.05	9.82	0.357	0.89	2.4
YY16879		85.2	99.5	<0.002	0.01	1.49	9.3	<1	6.5	119.0	0.74	<0.05	10.05	0.352	0.88	2.4
YY16880		98.7	130.5	<0.002	0.02	1.48	10.8	1	11.0	121.5	0.84	0.05	12.90	0.362	1.10	3.1
YY16881		90.5	117.5	<0.002	0.02	1.15	10.1	1	13.0	122.0	0.84	<0.05	11.80	0.378	1.08	2.7
YY16882		33.4	99.1	<0.002	0.02	0.98	10.1	1	5.3	134.5	0.78	<0.05	9.55	0.370	0.89	2.4
YY16883		213	135.0	<0.002	0.02	1.37	11.3	1	12.4	128.5	0.77	<0.05	11.90	0.353	1.13	2.7
YY16884		53.3	129.0	<0.002	0.01	2.63	14.3	<1	4.4	144.0	0.96	<0.05	15.80	0.397	1.03	3.1
YY16885		46.3	99.6	<0.002	0.01	1.98	10.8	1	3.5	134.5	0.88	<0.05	11.65	0.385	0.81	2.5
YY16886		40.7	97.5	<0.002	0.01	1.93	12.9	1	3.0	161.5	0.79	<0.05	11.45	0.380	0.76	2.9
YY16887		24.1	81.0	<0.002	0.01	1.44	9.6	<1	2.2	130.5	0.83	<0.05	9.98	0.366	0.63	2.4
YY16888		148.5	107.5	<0.002	0.01	1.51	10.7	1	4.8	139.5	0.89	<0.05	9.24	0.418	0.90	2.5
YY16889		33.3	86.4	<0.002	0.01	1.43	10.5	1	2.8	140.0	0.82	0.06	9.40	0.392	0.72	2.5
YY16890		69.7	107.0	<0.002	0.01	1.96	11.6	1	4.4	147.5	0.87	<0.05	12.10	0.404	0.89	2.7
YY16891		57.8	168.0	<0.002	0.01	1.71	14.1	<1	5.3	142.0	0.84	<0.05	12.75	0.369	1.25	2.9
YY16892		20.0	87.5	<0.002	0.01	1.52	10.3	<1	2.4	133.0	0.82	0.06	10.55	0.390	0.65	2.5
YY16893		17.8	83.1	<0.002	0.01	1.57	10.7	<1	2.5	146.5	0.82	<0.05	10.40	0.379	0.63	2.5
YY16894		19.7	83.3	<0.002	0.01	1.49	10.8	1	2.2	148.5	0.84	<0.05	10.60	0.378	0.64	2.6
YY16895		27.2	103.0	<0.002	0.02	1.57	11.6	1	4.9	145.5	0.81	<0.05	12.60	0.385	0.77	2.7



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Page: 9 - D  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

CERTIFICATE OF ANALYSIS WH19146755
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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	V	W	Y	Zn	Zr
	Units LOD	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
YY16856		98	5.0	13.7	682	72.0
YY16857		88	2.3	12.4	319	69.2
YY16858		100	1.7	12.2	252	63.9
YY16859		109	1.7	12.0	411	64.2
YY16860		114	3.0	12.2	819	60.6
YY16861		107	2.1	13.5	1140	72.6
YY16862		117	3.5	12.2	602	67.2
YY16863		91	1.8	9.7	41	62.0
YY16864		94	1.1	10.3	41	65.6
YY16865		113	1.3	11.5	73	73.1
YY16866		103	1.3	10.8	63	76.8
YY16867		89	1.2	9.9	36	63.8
YY16868		89	1.3	10.7	40	70.7
YY16869		109	2.1	13.4	94	83.8
YY16870		106	1.4	14.9	94	76.9
YY16871		105	2.0	13.1	151	71.6
YY16872		90	1.2	10.5	182	59.9
YY16873		116	2.2	10.8	203	71.8
YY16874		106	4.9	16.1	1200	101.5
YY16875		93	1.4	11.9	417	67.8
YY16876		95	2.6	16.1	886	73.0
YY16877		91	3.6	27.1	3160	79.6
YY16878		99	2.0	12.4	210	64.4
YY16879		94	2.1	11.9	432	61.7
YY16880		95	2.8	13.4	654	69.2
YY16881		91	3.0	13.8	576	63.5
YY16882		96	2.0	11.7	187	65.7
YY16883		106	2.8	14.9	740	71.4
YY16884		121	2.3	15.5	220	90.9
YY16885		107	1.9	11.1	170	76.1
YY16886		118	1.6	15.6	133	79.5
YY16887		104	1.5	10.7	111	65.8
YY16888		107	1.9	13.0	292	70.3
YY16889		113	1.5	11.6	136	69.4
YY16890		113	2.1	13.9	233	75.4
YY16891		121	1.9	13.2	254	77.9
YY16892		103	1.5	13.6	123	73.7
YY16893		107	1.4	15.3	143	77.2
YY16894		108	1.5	14.4	133	72.8
YY16895		106	1.7	15.9	166	74.1



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Page: 10 - A  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146755**

Sample Description	Method Analyte Units LOD	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	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		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
YY16896		0.39	0.001	0.29	4.55	16.8	890	1.22	0.18	1.61	1.72	62.4	9.2	51	2.91	24.9
YY16897		0.47	0.003	0.34	5.77	19.6	1030	1.61	0.21	1.54	1.18	78.8	12.1	64	3.98	27.6
YY16898		0.56	0.006	0.19	5.86	22.4	1040	1.49	0.20	1.08	1.99	87.0	9.9	64	4.34	20.2
YY16899		0.44	0.005	0.68	6.62	27.8	1080	1.89	0.27	0.65	1.04	94.2	16.3	69	5.16	28.3
YY16900		0.36	0.001	0.18	5.50	21.8	880	1.49	0.39	0.77	0.73	83.2	8.1	58	5.49	17.1
YY16901		0.28	0.002	4.67	8.51	64.6	1160	3.46	3.89	0.52	16.00	121.0	22.7	83	16.80	201
YY16902		0.43	0.008	1.59	6.84	59.5	930	1.83	1.59	0.62	3.02	72.0	13.4	71	15.50	72.9
YY16903		0.41	<0.001	0.38	4.97	41.2	780	1.48	1.35	0.53	0.60	57.3	7.7	53	6.14	37.1
YY16904		0.39	0.001	0.46	5.67	28.2	1040	1.49	0.93	0.80	0.86	83.0	10.1	73	7.09	37.6
YY16905		0.44	0.001	0.12	5.03	17.2	910	1.28	0.49	0.64	0.38	63.1	8.5	57	4.61	26.7
YY16906		0.20	0.004	0.62	5.43	19.6	850	1.36	1.19	0.57	1.23	53.5	7.0	72	12.00	39.8
YY16907		0.35	<0.001	0.47	4.85	11.3	760	1.19	0.76	0.57	0.87	63.9	5.7	55	6.90	25.6



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Page: 10 - B  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146755**

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	
		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
YY16896		2.35	11.55	0.09	1.6	0.116	1.20	33.0	26.9	0.61	849	0.68	0.74	8.2	24.9	780
YY16897		2.83	15.65	0.13	2.0	0.076	1.69	40.8	38.5	0.79	872	0.81	0.75	10.4	31.6	760
YY16898		2.75	16.20	0.11	2.1	0.090	1.67	44.2	38.9	0.74	599	1.11	0.82	12.8	27.7	650
YY16899		3.13	18.60	0.11	2.0	0.099	1.91	47.8	44.0	0.74	1160	1.52	0.79	11.9	32.6	550
YY16900		2.51	14.85	0.10	2.1	0.165	1.54	42.5	33.7	0.62	376	1.05	0.75	11.1	24.3	630
YY16901		4.50	24.3	0.15	1.7	0.898	2.03	70.6	78.3	0.77	756	2.03	0.78	12.7	56.0	520
YY16902		3.27	19.35	0.11	1.8	0.327	1.64	38.2	78.4	0.71	621	2.08	0.82	12.1	31.6	430
YY16903		2.61	13.40	0.09	1.7	0.155	1.18	29.4	33.0	0.58	259	1.14	0.85	9.8	23.8	310
YY16904		3.08	15.75	0.09	2.5	0.101	1.36	42.8	39.2	0.76	330	1.71	0.96	12.8	41.1	700
YY16905		2.66	13.35	0.09	1.9	0.059	1.20	32.3	32.9	0.63	346	1.26	0.92	11.1	28.7	390
YY16906		2.58	15.15	0.08	1.5	0.094	1.30	27.4	32.6	0.60	211	1.41	0.66	8.5	32.6	1160
YY16907		2.02	14.20	0.08	1.6	0.069	1.21	32.6	29.4	0.49	211	0.91	0.78	9.5	20.4	560



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Page: 10 - C  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146755**

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 ppm 0.5	Rb ppm 0.1	Re ppm 0.002	S % 0.01	Sb ppm 0.05	Sc ppm 0.1	Se ppm 1	Sn ppm 0.2	Sr ppm 0.2	Ta ppm 0.05	Te ppm 0.05	Th ppm 0.01	Ti % 0.005	Tl ppm 0.02	U ppm 0.1
YY16896		18.4	67.0	<0.002	0.04	1.12	8.9	1	1.9	143.0	0.59	<0.05	9.54	0.292	0.49	2.2
YY16897		22.3	93.0	<0.002	0.04	1.34	11.5	<1	2.3	144.5	0.74	0.06	12.60	0.316	0.65	2.7
YY16898		22.8	99.9	<0.002	0.02	1.34	11.3	<1	2.9	153.5	1.26	0.05	11.55	0.376	0.69	2.8
YY16899		36.2	119.5	<0.002	0.01	1.43	12.0	1	3.8	138.5	0.83	<0.05	14.80	0.339	0.86	2.5
YY16900		17.5	96.9	<0.002	0.01	1.03	9.8	<1	4.6	136.5	0.78	<0.05	11.40	0.338	0.74	2.4
YY16901		216	169.5	<0.002	0.02	1.49	15.6	1	13.9	134.0	0.78	0.07	15.20	0.333	1.55	3.7
YY16902		89.2	138.0	<0.002	0.01	1.06	11.5	<1	8.8	133.5	0.85	0.06	10.15	0.355	1.39	2.4
YY16903		22.5	79.9	<0.002	0.02	1.13	8.9	1	7.2	127.0	0.67	<0.05	8.01	0.312	0.75	2.1
YY16904		32.3	87.7	<0.002	0.02	1.58	11.1	<1	4.7	156.5	0.86	<0.05	10.50	0.382	0.82	2.8
YY16905		19.4	74.9	<0.002	0.01	1.26	9.1	1	3.2	137.0	0.73	<0.05	8.40	0.351	0.66	2.2
YY16906		38.9	92.4	<0.002	0.06	0.81	10.3	1	5.6	114.5	0.63	0.07	8.44	0.262	0.92	2.5
YY16907		14.9	77.2	<0.002	0.03	0.70	9.3	1	5.1	122.5	0.67	<0.05	7.97	0.289	0.73	2.3





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Page: 10 - D  
 Total # Pages: 10 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-JUN-2019  
 Account: MTT

Project: OLI

<b>CERTIFICATE OF ANALYSIS WH19146755</b>
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	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
YY16896		73	1.1	13.4	159	54.6
YY16897		89	1.5	16.5	153	67.8
YY16898		93	1.8	16.0	176	74.6
YY16899		93	1.8	15.3	142	67.6
YY16900		83	3.4	13.3	133	69.0
YY16901		119	5.5	24.7	1420	59.2
YY16902		108	2.9	12.5	617	60.5
YY16903		88	1.8	10.9	140	55.8
YY16904		114	1.9	15.9	178	84.5
YY16905		95	1.3	12.4	103	66.0
YY16906		82	1.4	10.2	119	52.1
YY16907		78	1.3	10.9	101	55.9



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 30-JUN-2019  
Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146755**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method: REE's 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.  
LOG-22 SCR-41 WEI-21

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



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Page: 1  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-JUL-2019  
 Account: MTT

**CERTIFICATE WH19146763**

Project: OLI

This report is for 22 Rock samples submitted to our lab in Whitehorse, YT, Canada on 17-JUN-2019.

The following have access to data associated with this certificate:

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	
Ag-OG62	Ore Grade Ag - Four Acid	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
As-OG46	Ore Grade As - Aqua Regia	
ME-OG46	Ore Grade Elements - AquaRegia	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:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
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 Account: MTT

Project: OLI

**CERTIFICATE OF ANALYSIS WH19146763**

Sample Description	Method Analyte Units LOD	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		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
K284913		0.73	<0.001	0.12	2.83	1.1	30	0.12	0.61	0.01	<0.02	1.24	8.8	21	0.14	7.6
K284914		3.45	<0.001	5.96	8.63	111.5	480	3.43	28.7	0.13	2.35	100.5	18.6	78	10.70	236
K284915		2.37	0.001	10.20	8.06	644	470	3.13	79.6	0.06	4.38	76.0	18.4	75	14.60	378
K284916		2.99	0.082	>100	6.78	>10000	320	2.93	486	0.07	7.55	104.0	82.6	68	15.65	1210
K284917		4.06	<0.001	6.22	6.14	115.0	90	4.93	11.25	1.70	1.29	45.7	2.3	64	9.16	579
K284918		3.65	0.088	23.6	5.37	>10000	80	3.42	35.1	0.23	16.40	71.7	142.5	60	8.95	1095
K284919		1.98	2.22	>100	5.03	>10000	150	2.09	6490	0.11	33.4	>500	5140	44	13.75	3030
K284920		1.94	0.001	0.82	5.15	1315	320	4.92	11.20	7.69	1.42	88.2	15.9	49	15.95	41.3
K284921		1.28	0.019	21.6	2.21	1300	290	1.05	159.0	0.05	4.98	27.4	56.0	24	4.67	196.5
K284922		1.20	0.005	21.8	3.24	282	60	1.76	48.7	0.14	6.86	28.3	14.4	32	2.51	1755
K284923		1.13	<0.001	7.73	3.53	57.8	170	1.65	14.65	0.03	2.81	15.20	10.1	39	8.20	1365
K284924		2.33	0.001	36.3	3.50	336	90	2.00	47.0	0.03	3.65	25.3	9.0	30	2.58	4620
K284925		1.68	0.003	64.0	1.40	168.5	30	0.63	108.0	0.01	1.35	21.6	5.4	16	2.53	1795
K284926		1.14	0.001	2.15	7.11	235	470	3.48	4.98	0.13	1.08	43.3	7.5	55	6.30	373
K284927		1.15	<0.001	1.95	2.80	118.5	180	0.95	2.97	0.03	18.75	49.2	7.3	22	6.45	62.4
K284928		1.76	0.006	11.65	1.89	1125	70	0.86	11.95	0.06	54.4	33.9	2.2	31	2.78	403
K284929		1.38	0.010	14.05	1.89	676	110	0.84	14.25	0.09	34.2	34.8	1.8	23	3.63	594
K284930		1.02	0.016	3.58	5.60	198.5	170	2.34	207	0.25	0.95	11.05	4.6	54	11.25	455
K284931		1.11	<0.001	8.62	1.61	46.8	270	0.94	68.1	0.01	0.45	4.67	0.8	15	2.51	68.1
K284932		0.50	0.009	0.94	3.83	42.9	280	4.12	316	0.03	1.29	113.0	11.2	32	20.8	199.0
K284933		0.90	<0.001	0.23	2.37	3.3	410	1.03	3.12	0.01	0.34	5.61	2.3	18	3.62	21.2
K284934		1.20	0.001	11.55	2.35	20.2	60	1.20	117.5	0.02	3.12	25.7	19.6	40	3.90	881



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 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
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Project: OLI

**CERTIFICATE OF ANALYSIS WH19146763**

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	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
Units		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
LOD		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	
K284913		5.20	7.98	<0.05	<0.1	0.025	0.07	0.8	56.0	1.37	751	0.19	0.01	0.3	17.0	20
K284914		8.64	38.2	0.12	1.6	12.75	2.44	50.8	132.5	1.01	2600	3.23	0.16	14.4	38.1	620
K284915		7.84	29.3	0.11	1.5	12.15	2.78	41.1	100.5	1.01	1260	3.30	0.14	15.9	40.6	510
K284916		9.21	28.4	0.12	1.1	13.80	2.14	64.3	93.5	0.80	1500	1.06	0.05	14.1	39.9	420
K284917		18.30	39.7	0.11	1.5	38.3	0.56	27.0	72.9	0.87	2130	0.50	0.23	15.3	11.6	590
K284918		18.20	23.6	0.10	1.3	42.9	0.44	46.3	88.5	0.70	2990	1.19	0.01	10.6	30.2	580
K284919		17.65	40.4	0.57	1.0	17.85	0.96	318	85.9	0.74	1900	9.05	0.07	8.3	271	510
K284920		21.7	18.25	0.35	1.4	78.6	0.90	44.7	30.4	1.12	3390	0.16	0.54	16.4	18.1	600
K284921		2.28	8.10	0.05	0.6	1.430	0.82	14.7	28.0	0.13	265	0.75	0.03	2.8	8.3	90
K284922		9.96	14.65	<0.05	0.8	4.34	0.18	14.6	91.4	0.33	3070	8.83	0.01	4.2	11.7	200
K284923		4.61	10.25	<0.05	0.8	5.76	1.01	6.6	79.9	0.52	1340	0.36	0.03	5.2	18.1	110
K284924		8.66	22.0	0.05	0.6	23.3	0.32	12.3	97.0	0.41	2460	12.50	0.01	4.2	12.3	100
K284925		4.47	6.84	<0.05	0.1	39.5	0.05	11.1	41.9	0.13	1040	4.56	0.01	0.8	4.1	40
K284926		9.05	19.90	0.06	0.9	2.45	1.57	20.1	28.2	0.69	533	1.29	0.37	6.5	10.1	260
K284927		1.92	5.51	0.06	0.4	14.60	1.06	21.0	91.3	0.16	728	0.29	0.02	3.5	10.9	80
K284928		13.85	10.35	0.07	0.9	49.7	0.26	21.7	28.9	0.26	1010	2.14	0.01	4.2	6.2	370
K284929		14.25	12.75	0.06	0.6	61.0	0.50	19.4	10.3	0.11	232	4.69	0.01	3.2	5.3	250
K284930		9.43	28.6	<0.05	1.5	2.42	1.90	9.9	64.5	0.85	270	1.28	0.01	10.7	6.3	530
K284931		0.94	4.34	<0.05	0.1	1.560	1.18	2.3	132.5	0.07	83	0.46	0.02	0.9	2.2	20
K284932		3.23	11.10	0.11	0.8	0.716	1.63	54.8	53.4	0.27	179	0.40	0.08	6.1	15.6	140
K284933		1.04	6.62	<0.05	0.4	0.151	1.58	1.6	93.6	0.17	261	0.60	0.02	2.2	5.1	30
K284934		5.27	7.92	0.05	0.6	2.68	0.22	11.9	66.4	0.39	1980	0.44	0.01	2.6	16.8	90



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Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-JUL-2019  
 Account: MTT

Project: OLI

CERTIFICATE OF ANALYSIS WH19146763
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Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm	ME-MS61 Rb ppm	ME-MS61 Re ppm	ME-MS61 S %	ME-MS61 Sb ppm	ME-MS61 Sc ppm	ME-MS61 Se ppm	ME-MS61 Sn ppm	ME-MS61 Sr ppm	ME-MS61 Ta ppm	ME-MS61 Te ppm	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm
K284913		6.7	3.3	<0.002	<0.01	0.30	1.7	<1	<0.2	3.0	<0.05	<0.05	0.59	0.012	<0.02	0.1
K284914		91.3	228	<0.002	0.01	0.86	16.9	<1	125.5	59.9	0.90	0.05	15.40	0.289	2.61	2.4
K284915		62.0	262	<0.002	0.02	2.33	16.4	1	178.5	71.7	1.01	0.14	17.00	0.332	2.69	2.3
K284916		640	241	<0.002	0.53	14.90	13.5	3	110.0	79.7	0.89	0.40	11.50	0.291	2.77	3.0
K284917		63.2	77.3	<0.002	0.15	1.64	11.9	1	>500	46.8	0.92	<0.05	10.70	0.318	1.09	3.2
K284918		744	81.5	<0.002	1.08	36.3	11.9	2	133.5	103.5	0.60	0.10	10.35	0.221	1.29	4.1
K284919		1960	174.0	0.004	6.24	142.5	8.1	51	145.5	53.0	0.50	2.99	7.73	0.186	2.67	5.6
K284920		15.5	29.9	0.003	0.17	1.61	10.2	<1	>500	48.5	0.97	<0.05	10.10	0.308	0.64	5.4
K284921		87.4	104.5	<0.002	0.08	4.01	2.3	1	42.9	10.3	0.20	0.06	5.43	0.084	1.30	1.1
K284922		872	25.7	<0.002	0.05	7.87	4.9	3	71.3	10.4	0.30	0.05	6.54	0.118	0.62	1.8
K284923		43.2	163.5	<0.002	0.12	0.56	4.1	1	37.7	9.1	0.43	<0.05	9.80	0.152	1.85	1.0
K284924		2260	40.0	<0.002	0.09	1.86	4.1	4	44.8	10.8	0.28	0.13	6.31	0.117	0.69	1.1
K284925		288	7.9	<0.002	0.02	1.45	1.6	6	61.6	3.1	0.05	0.21	1.58	0.026	0.18	0.4
K284926		156.0	133.5	<0.002	0.04	0.95	9.0	<1	146.5	86.9	0.38	<0.05	14.05	0.202	1.64	2.7
K284927		142.0	147.0	<0.002	0.02	0.70	2.5	1	144.5	5.6	0.25	<0.05	8.88	0.096	1.89	2.0
K284928		372	48.7	<0.002	0.07	9.68	3.5	1	110.5	14.5	0.26	0.13	4.75	0.106	0.72	3.5
K284929		392	68.9	<0.002	0.07	5.76	2.7	1	63.8	15.2	0.22	0.15	5.46	0.086	1.06	3.1
K284930		17.2	421	<0.002	0.07	2.57	9.5	1	108.5	50.6	0.71	0.39	8.06	0.284	5.37	2.0
K284931		32.8	135.0	<0.002	0.01	1.26	0.7	<1	6.4	9.7	0.06	0.16	2.83	0.024	2.58	0.2
K284932		30.7	293	<0.002	1.88	0.49	4.1	1	90.9	16.6	0.41	0.25	11.05	0.145	3.11	1.2
K284933		15.0	171.0	<0.002	0.01	0.57	1.9	<1	7.7	22.3	0.15	<0.05	2.81	0.055	3.13	0.3
K284934		93.7	40.2	<0.002	0.03	2.81	2.7	2	16.7	3.6	0.20	0.10	5.79	0.082	0.50	1.1



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Page: 2 - D  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-JUL-2019  
 Account: MTT

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<b>CERTIFICATE OF ANALYSIS WH19146763</b>
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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	Ag-OG62 Ag ppm	As-OG46 As %
		1	0.1	0.1	2	0.5	1	0.001
K284913		15	<0.1	0.2	140	1.2		
K284914		89	18.4	10.3	381	57.3		
K284915		84	9.2	9.6	479	51.2		
K284916		73	37.7	8.8	873	37.2	189	1.465
K284917		69	65.6	18.1	1610	54.4		
K284918		62	64.6	11.9	1940	47.8		2.99
K284919		43	146.0	14.0	2320	34.1	921	15.55
K284920		49	1.8	23.1	456	44.6		
K284921		16	5.9	3.1	442	20.7		
K284922		34	9.5	6.2	1920	21.9		
K284923		27	5.6	5.6	382	30.1		
K284924		45	13.8	4.9	1080	17.9		
K284925		12	4.4	2.0	659	3.9		
K284926		57	4.8	6.6	457	34.7		
K284927		14	3.6	8.9	3030	12.8		
K284928		29	6.6	7.7	4300	34.0		
K284929		27	7.0	4.8	4080	24.0		
K284930		74	31.2	5.7	287	51.5		
K284931		7	1.2	0.6	75	4.1		
K284932		25	7.9	12.9	198	33.4		
K284933		14	1.8	2.0	99	10.9		
K284934		18	5.8	4.7	930	18.1		



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Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 2-JUL-2019  
 Account: MTT

Project: OLI

<b>CERTIFICATE OF ANALYSIS WH19146763</b>
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	<b>CERTIFICATE COMMENTS</b>								
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>REE's may not be totally soluble in this method.            ME-MS61</p>								
Applies to Method:	<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> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">PUL-31</td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	PUL-31	PUL-QC	SPL-21	WEI-21	
CRU-31	CRU-QC	LOG-21	PUL-31						
PUL-QC	SPL-21	WEI-21							
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag-OG62</td> <td style="width: 33%;">As-OG46</td> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">ME-MS61</td> </tr> <tr> <td>ME-OG46</td> <td>ME-OG62</td> <td></td> <td></td> </tr> </table>	Ag-OG62	As-OG46	Au-ICP21	ME-MS61	ME-OG46	ME-OG62		
Ag-OG62	As-OG46	Au-ICP21	ME-MS61						
ME-OG46	ME-OG62								





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Page: 1  
 Total # Pages: 2 (A)  
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**CERTIFICATE WH19163345**

Project: OLI

This report is for 2 Rock samples submitted to our lab in Whitehorse, YT, Canada on 4-JUL-2019.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	ANDREW CARNE	JACK MORTON
---------------------------------	--------------	-------------

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS85	Lithium Borate Fusion - Select Elements	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:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
Total # Pages: 2 (A)  
Plus Appendix Pages  
Finalized Date: 9-JUL-2019  
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**CERTIFICATE OF ANALYSIS WH19163345**

Sample Description	Method Analyte Units LOD
K284917 K284920	ME-MS85 Sn ppm 1  2870 3320



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 9-JUL-2019  
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**CERTIFICATE OF ANALYSIS WH19163345**

**CERTIFICATE COMMENTS**

Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. FND-02 ME-MS85</p>
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**APPENDIX IV**  
**ROCK SAMPLE DESCRIPTIONS**

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**Rock Sample Descriptions**

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Property: Oli

Sample Number: K284913      Date Collected: 2019-06-12      UTM: 424997 mE      Nad83, Zone 8  
Elevation: 3533 m      Sampler: Jack Morton      UTM: 7070927 mN

Comments: Float grab from road, comprising rusty weathering, coarse crystalline quartz w/ abundant masses/seams of v.f.g. granular chlorite

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Sample Number: K284914      Date Collected: 2019-06-12      UTM: 425333 mE      Nad83, Zone 8  
Elevation: 3016 m      Sampler: Jack Morton      UTM: 7071441 mN

Comments: Chip sample, from trench wall, 490 cm long, comprising rusty weathering biotite-chlorite schist hosting sparse foliaform quartz veinlets (up to 1 mm wide), disseminated v.f.g. pyrite, and rare pits filled with goethite. (Part of a sequence, K284914-918)

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Sample Number: K284915      Date Collected: 2019-06-12      UTM: 425336 mE      Nad83, Zone 8  
Elevation: 3014 m      Sampler: Jack Morton      UTM: 7071436 mN

Comments: Chip sample, from trench wall, 350 cm long, rock w/ the same lithology as K284914. (Part of a sequence, K284914-918)

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Sample Number: K284916      Date Collected: 2019-06-12      UTM: 425338 mE      Nad83, Zone 8  
Elevation: 3014 m      Sampler: Jack Morton      UTM: 7071433 mN

Comments: Chip sample, from trench wall, rock w/ the same lithology as K284914, becoming increasingly oxidized and w/ increasing disseminated sulphide, and also includes a 5 cm wide bull quartz vein. Bedding of 090/25 S. (Part of a sequence, K284914-918)

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Sample Number: K284917      Date Collected: 2019-06-12      UTM: 425338 mE      Nad83, Zone 8  
Elevation: 3014 m      Sampler: Jack Morton      UTM: 7071430 mN

Comments: Chip sample, from trench wall, 420 cm long, comprising strongly oxidized, dark grey, thin-bedded (1-5cm) quartzite(?), with abundant v.f.g. goethite (and sulphosalts?) (Part of a sequence, K284914-918)

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Sample Number: K284918      Date Collected: 2019-06-12      UTM: 425343 mE      Nad83, Zone 8  
Elevation: 3012 m      Sampler: Jack Morton      UTM: 7071430 mN

Comments: Chip sample, from trench wall, 490 cm long rock with the same lithology as K284917, with abundant v.f.g. arsenopyrite and sulphosalts, scorodite on weathered surfaces. (Part of a sequence, K284914-918)

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**Rock Sample Descriptions**

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Property: Oli

Sample Number: K284919      Date Collected: 2019-06-12      UTM: 425334 mE      Nad83, Zone 8  
Elevation: 3005 m      Sampler: Jack Morton      UTM: 7071439 mN

Comments: Composite sample of rusty weathering and scorodite stained, banded, semi-massive, fine to coarse grained arsenopyrite, goethite, and with rare clots of a dark, coarse grained sulphide (cassiterite?). Plus several rusty mm-scale quartz veinlets.

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Sample Number: K284920      Date Collected: 2019-06-12      UTM: 425375 mE      Nad83, Zone 8  
Elevation: 2983 m      Sampler: Jack Morton      UTM: 7071405 mN

Comments: Float grab of rusty weathering, dark black, radiating pyroxene skarn. Extremely hard and slightly magnetic, with trace disseminated pyrite and chalcopyrite throughout, and rare clots of v.f.g. cassiterite.

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Sample Number: K284921      Date Collected: 2019-06-12      UTM: 424790 mE      Nad83, Zone 8  
Elevation: 3190 m      Sampler: Jack Morton      UTM: 7071195 mN

Comments: Outcrop sample from trench wall of rusty weathering, strongly silicified biotite schist, with numerous mm-scale and x-cutting veinlets of dark v.f.g. chlorite and an unknown sulphide (cassiterite?), as well as rare pocks filled with oxide throughout.

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Sample Number: K284922      Date Collected: 2019-06-12      UTM: 424792 mE      Nad83, Zone 8  
Elevation: 3228 m      Sampler: Jack Morton      UTM: 7071175 mN

Comments: Composite sample, collected from an old trench, of strongly oxidized, dark green chlorite skarn, with no visible sulphides and abundant black manganese on weathered surfaces.

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Sample Number: K284923      Date Collected: 2019-06-12      UTM: 424792 mE      Nad83, Zone 8  
Elevation: 3231 m      Sampler: Jack Morton      UTM: 7071187 mN

Comments: Outcrop sample, collected from trench, of orange weathering, pale green chlorite skarn, with moderate clots and mm-scale ribbons of v.f.g. pyrite + chlorite. Patchy manganese on weathered surfaces. Bedding measurement of 102/24 SW

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Sample Number: K284924      Date Collected: 2019-06-12      UTM: 424742 mE      Nad83, Zone 8  
Elevation: 3190 m      Sampler: Jack Morton      UTM: 7071145 mN

Comments: Chip sample, 150 cm long, across rusty and orange weathering, medium grey-green, strongly silicified f.g. skarn, with numerous mm-scale oxidized quartz veinlets, abundant <1mm wide chlorite veinlets, rare clots of a v.f.g. black mineral, and trace malachite and patchy manganese on weathered surfaces. (Part of a sequence, K284924-925)

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**Rock Sample Descriptions**Property: Oli

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Sample Number: K284925      Date Collected: 2019-06-12      UTM: 424740 mE      Nad83, Zone 8  
Elevation: 3190 m      Sampler: Jack Morton      UTM: 7071148 mN

Comments: Chip sample, 200 cm long, of rock with the same lithology as K284924. (Part of a sequence, K284924-925)

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Sample Number: K284926      Date Collected: 2019-06-13      UTM: 426280 mE      Nad83, Zone 8  
Elevation: 2440 m      Sampler: Jack Morton      UTM: 7070860 mN

Comments: Float grab from trench, comprising orange weathering and strongly oxidized, chlorite-biotite schist with several mm-scale foliaform, rusty quartz veinlets.

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Sample Number: K284927      Date Collected: 2019-06-13      UTM: 426276 mE      Nad83, Zone 8  
Elevation: 2434 m      Sampler: Jack Morton      UTM: 7070857 mN

Comments: Float grab from trench comprising rusty-black weathering, banded quartz with abundant pocks of orange limonite throughout.

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Sample Number: K284928      Date Collected: 2019-06-14      UTM: 425197 mE      Nad83, Zone 8  
Elevation: 3275 m      Sampler: Jack Morton      UTM: 7071261 mN

Comments: Outcrop sample of punky, strongly oxidized, quartz crackle breccia, with smokey quartz clasts and a matrix of goethite. Collected from a ~50 cm wide zone in a trench wall.

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Sample Number: K284929      Date Collected: 2019-06-14      UTM: 425197 mE      Nad83, Zone 8  
Elevation: 3275 m      Sampler: Jack Morton      UTM: 7071261 mN

Comments: Outcrop sample of bright orange to dark chocolate brown, banded oxide, collected from the same location as K284928.

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Sample Number: K284930      Date Collected: 2019-06-14      UTM: 425125 mE      Nad83, Zone 8  
Elevation: 3182 m      Sampler: Jack Morton      UTM: 7071424 mN

Comments: Composite sample from trench, comprising punky, rusty, and orange-brown quartzite(?)

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Sample Number: K284931      Date Collected: 2019-06-14      UTM: 425120 mE      Nad83, Zone 8  
Elevation: 3165 m      Sampler: Jack Morton      UTM: 7071451 mN

Comments: Float sample of orange-brown weathering drusy quartz, with moderate pocks of v. f. g. black sulphide throughout (cassiterite?), collected from trench floor.

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**Rock Sample Descriptions**Property: Oli

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Sample Number: K284932 Date Collected: 2019-06-14 UTM: 425359 mE Nad83, Zone 8  
Elevation: 1890 m Sampler: Jack Morton UTM: 7072772 mN

Comments: Three pieces of core from EPD 81-13, Bx. 22, between 88.1 to 90.5 m, comprising yellow-green stained, fractured quartzite, with numerous dark sulphide-bearing fractures, and vugs filled with a powdery grey oxide (after arsenopyrite?) No rep.

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Sample Number: K284933 Date Collected: 2019-06-14 UTM: 425126 mE Nad83, Zone 8  
Elevation: 3180 m Sampler: Jack Morton UTM: 7071408 mN

Comments: Float sample of orange weathering, brecciated and crustiform quartz veins, with oxide on selvages, cutting through medium grey-green schist and supporting sub-rounded clasts of schists. Collected from a muck pile next to a trench.

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Sample Number: K284934 Date Collected: 2019-06-14 UTM: 425584 mE Nad83, Zone 8  
Elevation: 1636 m Sampler: Jack Morton UTM: 7071632 mN

Comments: Composite sample of orange-brown, weathered, brecciated greenstone, with <1mm wide chlorite veinlets, rare mm-scale quartz veinlets, pale tan clay, disseminated black manganese and trace encrusting malachite.

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